TOSHIBA



HOME

Your home. Your climate.



ESTIA

Air-to-Water heat pump.
The warmth of the future.



RAV

The performance you need.
The comfort you expect.



VRF

Plan for excellence. Cool excellently.



CHILLERS

Cooling in the big leagues.

PRODUCT CATALOG

Air conditioning systems & heat pumps

2025/26

GENERAL TERMS AND CONDITIONS

1. General
For the business transactions of AIR-COND International GmbH, Haushamer Strasse 2, 8054 Graz-Seiersberg, Austria, FN 568043h (hereinafter: "AIR-COND", "we", or "us"), the following General Terms and Conditions and the purchasing conditions agreed individually with our customers shall apply exclusively. Our contractual partners are hereinafter referred to as the "purchaser". Contractual provisions deviating from or supplementing these General Terms and Conditions, in particular general terms and conditions of business or purchase of our purchasers, shall only be deemed to be part of the contract to the extent that their validity is expressly confirmed by us in writing.

2. Ordering, changes to orders
a) Orders will only be accepted by us if they clearly state the desired collection or delivery date (at least the desired calendar week).
b) Orders shall not be deemed to have been accepted by us until they have either been confirmed by us in writing in an order confirmation, or the delivery has taken place. Any orders or changes to an order made verbally or via the telephone must be confirmed in writing.
c) It is the responsibility of the purchaser to check the accuracy of the order confirmation immediately after receipt. In the absence of an immediate complaint, delivery in accordance with the order confirmation shall be deemed fulfillment of the contract
d) If the ordered goods are not collected within 6 weeks of the collection date stated in the order confirmation, or if the delivery is not carried out for a period of 6 weeks after the delivery date stated in the order confirmation for reasons attributable to the purchaser, we reserve the right to cancel the order and to charge the cancellation fees stated in point 2.e). Claims for damages resulting from this cannot be asserted against us.
e) Full or partial cancellation or amendment of an order by the purchaser is only permitted with our written confirmation and entitles us to invoice the purchaser for a (cancellation or amendment) fee amounting to 10% of the net order value in addition to any services already provided and any costs incurred.

3. Pricing
a) The prices are based on the currently valid price list. We also reserve the right to change the prices in the course of the year.
b) The prices are shown net of any taxes, fees, or duties in the specified currency, inclusive of standard packaging.
c) For self-pickup, the prices apply from our warehouse loading bay, but exclude loading. For delivery, the prices are inclusive of delivery (for invoice values in excess of EUR 850 net).
d.) Additional costs resulting from special requests, such as express delivery or special delivery method, special packaging, etc., may be considered, but will be borne by the purchaser. Packaging is non-returnable.
e) If the prices of our suppliers on which the order is based change, especially in the event of currency rate fluctuations, customs, tax, and shipping costs, we reserve the right to revise our prices even for existing orders.

4. Payment terms
a) In the absence of other agreements, our terms of payment are based on the individual purchasing conditions.
b) We reserve the right to send invoices exclusively by email. If invoicing by post is required, this is to be notified to us separately in writing.
c) If the purchaser is in default of payment, we shall be entitled to exercise a right of retention for all further services arising from the business relationship until the default of payment has been remedied and to demand advance payment for all unfulfilled orders of the purchaser.
d) In the event of payment default, the purchaser is to pay interest at an annual rate of 9.2 percentage points above the base rate on the outstanding amount. This provision in no way affects the possibility of making a claim for higher compensation for the delay.

5. Delivery
a) Any delivery times offered by us are merely approximate and non-binding. We shall, however, make every effort to deliver at the specified times. There is no entitlement for a specific delivery time to be met. Delivery delays shall therefore not give rise to claims for compensation nor shall they entitle you to terminate the contract.
b) We shall in no case accept claims for penalty payment made by the purchaser.
c) Unless otherwise agreed, part-deliveries are permitted.
d) The 2020 edition of the Incoterms apply.
e) Unless we are given instructions to the contrary, the delivery will be made to the address known to us. Unless otherwise instructed by the purchaser, the choice of transport route and means of transport shall be made at our discretion and without liability for providing the cheapest and fastest carriage.
f) If delayed delivery of the goods is requested by or attributable to the purchaser, then the goods shall be stored at the purchaser's expense and risk.
g) No costs that result from incorrect delivery may be claimed against us.

6. Receipt of the goods, transfer of risk, damage in transit
a) For self-pickup, the risk is transferred to the purchaser in the absence of any other agreements as soon as the goods have left the loading bay at which they are made available for pickup. The loading risks are already borne by the purchaser. For delivery, the risk passes to the purchaser when the goods are accepted.
b) It is the purchaser's responsibility, when the goods are accepted, to check that they have been handed over correctly and according to the order confirmation, and are checked for damage. Any damage to the packaging or the unit are to be noted on the delivery note and immediately reported to the carrier and us. If the purchaser identifies defects, i.e., defects that are not visible due to the packaging, then they are obliged to make a complaint to us immediately and no later than 7 days after the pickup date/delivery date (for purchasers based outside Austria, 10 days after the pickup date/delivery date) using the online form provided, otherwise the insurance claim/liability will lapse. We shall not be liable for any claims made for damage, incorrect quantity, etc., that are received after this deadline. A late complaint in the sense of the above shall result in the loss of all claims resulting from any defective or incorrect delivery.
c) We are entitled to invoice the purchaser for any costs resulting from delayed acceptance, especially the storage costs.
d) If a carrier is granted a signature release authorization, the risk of loss or damage of the goods is transferred to the purchaser when the goods are dropped off at the specified location in accordance with instructions. We are not liable for any damage or defects arising thereafter.

7. Returns
a) The return or exchange of goods requires our express, written agreement.
b) Goods which have been correctly delivered will only be accepted back within a period of 2 months from the date of invoice, in the original packaging and in the original condition.
c) The return shipment to the location specified by us shall be at the expense and risk of the purchaser.
d) In the case that goods are returned, the sales price shall be refunded in the form of a credit note, with a deduction of 15% processing costs from the net invoice amount or a minimum cost of EUR 50,-.
e) Goods returned contrary to agreement shall be rejected by us and returned to the Buyer at the latter's expense and risk.

8. Retention of title
The goods delivered or otherwise handed over by us shall remain our property until they have been paid for in full.

9. Material and general warranty
a) We grant a material warranty to our purchasers, but not to third parties, in accordance with the following provisions. This material warranty under warranty law consists exclusively of the assurance that our products are free of defects for a period of 36 months from delivery of the product. Claims under a material warranty must be made by the purchaser within 2 months after the defect has been discovered by completing the warranty claim form and, upon request, returning the faulty part at the purchaser's own expense.
b) In the absence of more favorable statutory provisions for the purchaser, a material warranty of 12 months from delivery shall apply to spare parts.
c) The material warranty covers exclusively the provision of spare parts. It does not include compensation for other claims, in particular those arising from recalls, installation and removal costs, transportation costs, labor costs, refrigerants, or travel costs.
d) Our material warranty is subject to the conditions of proper installation by a specialist company in accordance with the TOSHIBA installation guidelines, compliance with the TOSHIBA conditions of use, correct dimensioning, and regular maintenance in accordance with the TOSHIBA maintenance instructions. Otherwise, all claims under the material warranty are void.
e) For VRF products, an extended material warranty is granted for a period of 60 months from delivery if a commissioning report is completed and submitted to AIR-COND within a period of 36 months from delivery, but no later than 2 months after commissioning of the product. The extended material warranty is confirmed separately by us by means of a certificate.
f) ESTIA compressors are covered by an extended material warranty for a period of 60 months from delivery.
h) Warranty claims may be made exclusively online (www.toshiba-aircondition.com) in the AIR-COND partner area using the form provided.
h) Even if the goods are installed in a building, the goods shall be treated as movable property for the purposes of the statutory warranty claims. Any defects that occur must be reported by the purchaser immediately, specified clearly, and made in writing. Article 933b and Article 924 Sentence 2 of the Austrian Civil Code (ABGB) shall not apply in the relationship between us and the purchaser.

10. Proof of export
a) If the goods are shipped from Austria, the purchaser undertakes to send us the completed and signed "Proof of Delivery" form by post or email within 10 days of collecting the goods. In addition, we reserve the right to request further proof of transportation, if this has not already been submitted at the time of collection of the goods: in the case of collection by the purchaser's own truck by means of a "Declaration on the transportation of goods to the rest of the Community" in accordance with Article 7 of the Sales Tax Act (UstG), including a copy of the ID of the person collecting the goods and authorization to collect the goods, or in the case of collection by a contracted forwarding agent, by means of proof of dispatch (e.g., consignment note). If this is not done, the purchaser will be charged sales tax at a rate of 20%.
b) In addition, the purchaser undertakes to send us proof of export (in particular "Certificate of export of the goods from the EU") by post or email within 10 days of collecting the goods if the goods are transported to a destination outside the EU (third country). If this is not done, we shall invoice for 20% sales tax, customs costs, and custom penalties.

11. Compensation for damages
In all cases under consideration, we shall only be liable for damages in the event of intent or gross negligence. In the event of slight negligence, we shall only be liable for personal injury. Liability shall in any case become time-barred within 6 months of the purchaser becoming aware of the damage and the party causing the damage.
We shall not be liable for indirect damage, loss of profit, loss of interest, failure to make savings, consequential damage and financial loss, damage arising from third-party claims, or for the loss of data and programs and their recovery. The purchaser shall indemnify and hold us harmless against claims of third parties under product liability law if the relevant basis for the claim (in particular due to the presentation of the goods) was created by the purchaser or their contractual partners' conduct. Any recourse of the purchaser against us under product liability law is excluded and the purchaser will contact the manufacturer of the defective goods directly, which we will disclose on request.
If, in any case whatsoever, a contractual penalty has been agreed in an individual contract at our expense, this shall be subject to the judicial right of moderation. The assertion of a claim for damages by the purchaser in excess of a contractual penalty is excluded in any case.

12. Offsetting
Offsetting against our claims with counterclaims of the purchaser, of whatever kind, is excluded.

13. International Trade Compliance
a) Customer shall comply with all applicable sanctions, embargoes and (re-)export control laws and regulations and, in any case, those of the European Union, the United States, the United Kingdom as well as any locally applicable jurisdiction (collectively, “Trade Control Laws”).
b) Customer shall not sell, supply, transfer, export or re-export hardware, software or technology (including documentation thereto) delivered by AIR-COND pursuant to the Agreement (the “Products”), neither directly or indirectly,:
1. to a party that is
(i) designated on the Specially Designated Nationals and Blocked Persons list (“SDN List”) maintained by the U.S. Office of Foreign Assets Control (“OFAC”), the Entity List maintained by the U.S. Bureau of Industry and Security (“BIS”), the European Union’s Consolidated Financial Sanctions List, or the UK Consolidated List of Financial Sanctions Targets, each as amended;
(ii) the Government of Venezuela or Afghanistan or any political subdivision, agency, or instrumentality thereof;
(iii) an entity owned or controlled, directly or indirectly, by a party as defined in subsection (i) or (ii); or
(iv) a person acting on behalf of, or for the benefit of, a party as defined in subsections (i) to (iii)
(each party as defined above being a “Denied Party”);
2. for a prohibited or unauthorized (end) use (e.g., military use, nuclear technology, weapons); or
3. otherwise in violation of any Trade Control Laws.
c) Customer shall not sell, supply, transfer, export or re-export Products, neither directly or indirectly, to
(i) a party ordinarily resident in, or incorporated under the laws of, a Carrier Restricted Country (as defined below);
(ii) the Government of a Carrier Restricted Country (as defined below) or any political subdivision, agency, or instrumentality thereof;
(iii) a party owned or controlled, directly or indirectly, by a party as defined in subsection (i) or (ii); or
(iv) a party acting on behalf of, or for the benefit of, of a party as defined in subsections (i) to (iii).
Carrier Restricted Country means Belarus, Cuba, Iran, North Korea, Russia, Syria, Myanmar, Crimea, Donetsk, Luhansk, and regions of the Ukraine not controlled by the Ukrainian government. For reasons of anti-corruption, anti-terrorism, trade compliance, or anti-money laundering, Carrier Corporation may designate further countries or territories as “Carrier Restricted Country”. If so, Carrier Corporation will provide written notice of any such updated list to Customer.
d) Customer shall conduct reasonable due diligence to verify the identity and location of its customers and end users as well as the intended end-use of the Products (collectively, “End-User Due Diligence”). Customer’s End-User Due Diligence must be sufficient to identify and prevent unauthorized transactions, including those involving Carrier Restricted Countries or Denied Parties. Customer shall promptly notify AIR-COND of any transactions potentially involving a Denied Party or a Carrier Restricted Country, or other violations of Trade Control Laws with respect to Products or related services.
e) Customer represents and warrants that neither it nor any of its directors, officers, employees, or affiliates is a Denied Party or located, organized, or resident in a Carrier Restricted Country.
f) AIR-COND shall not be obliged to fulfil the Agreement if such fulfilment is affected by any impediments arising from the Trade Control Laws, particularly if required licenses or authorizations by competent authorities relating to the export or import of the Products to be delivered by AIR-COND are not granted or are revoked.
g) In addition, Customer represents and warrants that Customer, its employees and any party acting on its behalf will comply with all applicable laws and regulations relating to anti-corruption, anti-money laundering, anti-trust and taxation. In particular, Customer shall refrain from paying bribes or making other benefits available to any third party, including, but not limited to, officials of government agencies or subdivisions or political parties, or having such payments or benefits made by third parties in order to inappropriately influence the recipient of the payment and thus establish or maintain a business relationship.
h) If Customer is in breach of any of its obligations set out in this Section [13], AIR-COND shall be entitled to (i) terminate the Agreement for cause, and (ii) claim indemnification from and against all claims, proceedings, actions, fines, losses, costs and damages arising out of or in connection with non-compliance by Customer with Trade Control Laws and / or breaches of its compliance obligations set out in subsection [f]. This provision does not imply a change in statutory burden of proof.

14. Place of jurisdiction and choice of law
All disputes arising from a contract between us and the purchaser – including those concerning its existence or non-existence – shall be subject to the exclusive jurisdiction of the regional court ZRS Graz. The contract shall be governed exclusively by the law of the Republic of Austria, excluding the conflict of law rules and the provisions of the UN Convention on Contracts for the International Sale of Goods.

Version dated April 2025

Validity of the price list: 1 April 2025 to 31 March 2026
The general terms and conditions of AIR-COND International GmbH apply.

Subject to change without prior notice. All information, type designations and illustrations are subject to change, printing and typesetting errors. For detailed product information please consult the data sheets which are available on our website: www.toshiba-aircondition.com. Technical document for specialist retailers

TOSHIBA

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A COMFORTABLE CLIMATE IN YOUR HOME

OVERVIEW OF HOME INDOOR UNITS

- Top design and high efficiency up to A+++
- Indoor units in different designs for all applications
- Different air filter technologies cover all needs



HIGH-WALL UNITS

SEIYA CLASSIC 2 NEW — Page 8, 18
Sizes: 7, 10, 13, 16, 18, 24

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Sizes: 7, 10, 13, 16, 18, 24

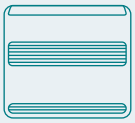
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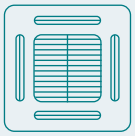
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CONSOLE UNITS

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CASSETTE UNITS

1-way cassette NEW — Page 22
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4-way cassette NEW
Sizes: 10, 13, 16



DUCT UNITS

Duct unit — Page 23
Sizes: 10, 13, 16, 22, 24

PRODUCT OVERVIEW

	FUNCTIONS	SEIYA CLASSIC 2	SEIYA	SHORAI EDGE WHITE	SHORAI EDGE BLACK	HAORI	DAISEIKAI 10 WHITE	DAISEIKAI 10 WOOD	CONSOLE	1-WAY FLAT CASSETTE	60x60 SLIM CASSETTE	DUCT UNIT
Type	SINGLE-split usage											
	MULTI-split usage											
Functions	Cooling	●	●	●	●	●	●	●	●	●	●	●
	Heating	●	●	●	●	●	●	●	●	●	●	●
Technology	R32 refrigerant	●	●	●	●	●	●	●	●	●	●	●
	Rotary compressor	10 – 18	10 – 18	10 – 16	10 – 16	●			10/13			
	Twin-rotary compressor	24	24	18/22/24	18/22/24		●	●	18	●	●	●
Air quality	Self-cleaning function	●	●	●	●	●	●	●	●	●	●	●
	Dust filter	●	●	●	●	●		●	●	●	●	○
	IAQ filter		○	○	○	○		●	●			
	Active carbon-catechin filter		○	○	○	○			○			
	Ultra pure PM2.5 filter		○	●	●	●	●	●	○			
	Ultra fresh PM2.5 filter		●	○	○	○	○	○	○			
	Plasma filter / ionizer						●	●		○		
Features	HI POWER	●	●	●	●	●	●	●	●	●	●	●
	Auto diagnostics	●	●	●	●	●	●	●	●	●	●	●
	Eco mode	●	●	●	●	●	●	●	●			●
	Quiet mode	●	●	●	●	●	●	●	●	●	●	●
	Silent mode	●	●	●	●	●	●	●	●			
	Comfort sleep	●	●	●	●		●	●	●	●	●	●
	Power selection			●	●	●						
	Floor mode								●			
	Preset mode	●	●	●	●		●	●	●	●	●	●
	One-touch mode											●
	TOSHIBA WiFi	○	○	●	●	●	●	●	○			
	Weekly timer	○	○	○	○	○	●	●	●	○	○	○
	Timer	●	●			●	●	●		●	●	●
	Automatic restart	●	●	●	●	●	●	●	●	●	●	●
	8°C frost protection	●	●	●	●	●	●	●	●			
	Fireplace mode			●	●	●	●	●	●			
	Swing mode	●	●	●	●	●	●	●	●	●	●	
	3D HADA airflow			18/24	18/24	●	●	●				
	Presence sensor									○	○	
	Smart sensing						●	●				

● Standard ○ Optional



HAORI

Design without limits.

SEIYA Classic 2 / Set

- CLASSIC Line compact inverter
- A++ for cooling, A+ for heating
- Dust filter
- WiFi module optional



INDOOR UNIT OUTDOOR UNIT			RAS-B10B2KVG-E2 RAS-10B2AVG-E2	RAS-B13B2KVG-E2 RAS-13B2AVG-E2	RAS-B16B2KVG-E2 RAS-16B2AVG-E2	RAS-B18B2KVG-E2 RAS-18B2AVG-E2	RAS-B24B2KVG-E2 RAS-24B2AVG-E2
Cooling capacity	kW	❄	2,50	3,30	4,20	5,00	6,50
Cooling range (min.-max.)	kW	❄	0,80 - 3,00	1,00 - 3,50	1,10 - 4,70	1,10 - 5,35	1,10 - 7,05
Power consumption (min./nom./max.)	kW	❄	0,26/0,75/ 0,95	0,25/1,20/ 1,25	0,28/1,40/ 1,70	0,30/1,78/ 1,90	0,30/2,45/ 2,50
Energy efficiency EER	W/W	❄	3,33	2,75	3,00	2,81	2,65
Energy efficiency SEER		❄	6,10	6,10	6,10	6,10	6,10
Energy efficiency class		❄	A++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	❄	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46
Heating capacity	kW	☀	3,20	3,60	5,00	5,40	7,00
Heating range (min.-max.)	kW	☀	0,76 - 3,90	0,76 - 4,30	0,90 - 6,00	1,10 - 6,00	1,20 - 7,90
Power consumption (min./nom./max.)	kW	☀	0,21/0,84/ 1,11	0,18/1,02/ 1,34	0,22/1,45/ 1,90	0,27/1,67/ 1,88	0,23/2,00/ 2,30
Energy efficiency COP	W/W	☀	3,81	3,53	3,45	3,23	3,50
Energy efficiency SCOP		☀	4,00	4,00	4,00	4,00	4,00
Energy efficiency class		☀	A+	A+	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C	☀	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A		6	6	10	10	10
Set price	**€**		**1.000,-**	**1.100,-**	**1.470,-**	**1.730,-**	**2.060,-**

INDOOR UNIT			RAS-B10B2KVG-E2	RAS-B13B2KVG-E2	RAS-B16B2KVG-E2	RAS-B18B2KVG-E2	RAS-B24B2KVG-E2
Airflow	m³/h		230-630	230-630	330-780	480-820	660-1100
Sound pressure level (low/med/high)	dB(A)	❄	19/--/42	20/--/43	22/--/45	26/--/47	29/--/48
Sound pressure level (low/med/high)	dB(A)	☀	20/--/41	20/--/42	23/--/44	26/--/48	29/--/48
Dimensions (HxWxD)	mm		288 x 770 x 225	288 x 770 x 225	293 x 798 x 230	293 x 798 x 230	320x1050x250
Weight	kg		9	9	9	9	13
Price	**€**		**320,-**	**330,-**	**370,-**	**430,-**	**510,-**

OUTDOOR UNIT			RAS-10B2AVG-E2	RAS-13B2AVG-E2	RAS-16B2AVG-E2	RAS-18B2AVG-E2	RAS-24B2AVG-E2
Sound pressure level (low/med/high)	dB(A)	❄	45/--/49	45/--/50	45/--/52	46/--/52	51/--/59
Sound pressure level (low/med/high)	dB(A)	☀	45/--/58	45/--/58	47/--/58	48/--/59	51/--/64
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m		2	2	2	2	2
Pipe length (max.)	m		10	10	15	15	15
Height difference (max.)	m		8	8	8	8	8
Compressor type			DC Rotary	DC Rotary	DC Rotary	DC Rotary	DC Rotary
Refrigerant			R32	R32	R32	R32	R32
Refrigerant charge	kg		0,51	0,58	0,68	0,93	1,23
Dimensions (HxWxD)	mm		530 x 660 x 240	530 x 660 x 240	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
Weight	kg		21	22	26	29	32
Price	**€**		**680,-**	**770,-**	**1.100,-**	**1.300,-**	**1.550,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		**105,-**
RB-RXS34-E	Design infrared remote control, black, with magnetic holder		**120,-**
RB-N105S-G	TOSHIBA Home AC control - wireless WiFi control / Seiya Classic 2, Seiya		**115,-**
TCB-IFCB5-PE	External on/off PCB, window contact module		**80,-**
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		**95,-**

You will find all the control options on page 33.

SEIYA / Set



- BASIC Line compact inverter
- A++ for cooling & heating
- Dust filter and ultra fresh filter
- WiFi module optional
- Energy monitoring: for single and multi-split systems



INDOOR UNIT OUTDOOR UNIT			RAS-B10E2KVG-E RAS-10E2AVG-E	RAS-B13E2KVG-E RAS-13E2AVG-E	RAS-B16E2KVG-E RAS-16E2AVG-E	RAS-B18E2KVG-E RAS-18E2AVG-E	RAS-B24E2KVG-E RAS-24E2AVG-E
Cooling capacity	kW	❄	2,50	3,30	4,20	5,00	6,50
Cooling range (min.-max.)	kW	❄	0,80 - 3,00	1,20 - 3,60	1,40 - 4,70	1,45 - 5,50	1,70 - 7,20
Power consumption (min./nom./max.)	kW	❄	0,20/0,70/ 1,00	0,25/1,10/ 1,25	0,34/1,27/ 1,60	0,34/1,50/ 1,80	0,41/2,25/ 2,60
Energy efficiency EER	W/W	❄	3,57	3,00	3,31	3,33	2,89
Energy efficiency SEER		❄	7,00	7,00	7,00	7,00	6,90
Energy efficiency class		❄	A++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	❄	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46
Heating capacity	kW	☀	3,20	3,60	5,00	5,40	7,00
Heating range (min.-max.)	kW	☀	0,95 - 3,90	0,97 - 4,50	1,30 - 6,00	1,35 - 6,00	1,50 - 8,10
Power consumption (min./nom./max.)	kW	☀	0,18/0,86/ 1,11	0,18/0,92/ 1,25	0,24/1,34/ 1,70	0,26/1,50/ 1,80	0,29/2,10/ 2,55
Energy efficiency COP	W/W	☀	3,72	3,91	3,73	3,60	3,33
Energy efficiency SCOP		☀	4,60	4,60	4,60	4,40	4,30
Energy efficiency class		☀	A++	A++	A++	A+	A+
Outdoor temperature operating range (min.-max.)	°C	☀	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A		6	6	10	10	10
Set price	**€**		**1.220,-**	**1.330,-**	**1.720,-**	**2.050,-**	**2.490,-**

INDOOR UNIT			RAS-B10E2KVG-E	RAS-B13E2KVG-E	RAS-B16E2KVG-E	RAS-B18E2KVG-E	RAS-B24E2KVG-E
Airflow	m³/h		510	560	760	840	1070
Sound pressure level (low/med/high)	dB(A)	❄	19/--/39	20/--/41	21/--/43	26/--/47	29/--/48
Sound pressure level (low/med/high)	dB(A)	☀	20/--/39	20/--/42	22/--/43	26/--/48	29/--/48
Dimensions (HxWxD)	mm		288 x 770 x 225	288 x 770 x 225	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250
Weight	kg		9	9	9	9	15
Price	**€**		**390,-**	**400,-**	**420,-**	**500,-**	**610,-**

OUTDOOR UNIT			RAS-10E2AVG-E	RAS-13E2AVG-E	RAS-16E2AVG-E	RAS-18E2AVG-E	RAS-24E2AVG-E
Sound pressure level (low/med/high)	dB(A)	❄	43/--/47	43/--/48	43/--/50	44/--/50	49/--/54
Sound pressure level (low/med/high)	dB(A)	☀	43/--/49	43/--/49	43/--/51	44/--/51	49/--/54
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m		2	2	2	2	2
Pipe length (max.)	m		15	15	20	20	20
Height difference (max.)	m		15	15	15	15	15
Compressor type			DC Rotary	DC Rotary	DC Rotary	DC Rotary	DC Twin Rotary
Refrigerant			R32	R32	R32	R32	R32
Refrigerant charge	kg		0,49	0,54	0,68	0,93	1,18
Dimensions (HxWxD)	mm		530 x 660 x 240	530 x 660 x 240	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
Weight	kg		22	22	30	34	38
Price	**€**		**830,-**	**930,-**	**1.300,-**	**1.550,-**	**1.880,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		**105,-**
RB-RXS34-E	Design infrared remote control, black, with magnetic holder		**120,-**
RB-N105S-G	TOSHIBA Home AC control - wireless WiFi control / Seiya Classic 2, Seiya		**115,-**
818F0036	IAQ filter strips		**50,-**
818F0023	Active carbon-catechin filter strips		**30,-**
818F0072	Ultra-Fresh filter strips		**35,-**
TCB-IFCB5-PE	External on/off PCB, window contact module		**80,-**
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		**95,-**

You will find all the control options on page 33.

SHORAI Edge White / Set

- HIGH Line allrounder with design and function update
- High efficiency: energy class A+++ / Clean air: dust filter & ultra pure filter
- APP control: WiFi module integrated as standard
- Transparent power consumption: Energy monitoring for single and multi-split systems



INDOOR UNIT OUTDOOR UNIT			RAS-B10G3KVSG-E RAS-10J2AVSG-E1	RAS-B13G3KVSG-E RAS-13J2AVSG-E1	RAS-B16G3KVSG-E RAS-16J2AVSG-E1	RAS-B18G3KVSG-E RAS-18J2AVSG-E1	RAS-B22G3KVSG-E RAS-22J2AVSG-E1	RAS-B24G3KVSG-E RAS-24J2AVSG-E1*
Cooling capacity	kW	❄	2,50	3,50	4,60	5,00	6,10	7,00
Cooling range (min.-max.)	kW	❄	0,89 - 3,20	1,00 - 4,10	1,20 - 5,30	1,20 - 6,00	1,39 - 6,70	1,70 - 7,70
Power consumption (min./nom./max.)	kW	❄	0,19/0,54/ 0,79	0,25/0,90/ 1,12	0,34/1,35/ 1,72	0,35/1,42/ 2,00	0,36/1,99/ 2,20	0,38/2,25/ 2,55
Energy efficiency EER	W/W	❄	4,63	3,89	3,41	3,52	3,07	3,11
Energy efficiency SEER		❄	8,60	8,60	7,80	7,80	7,30	6,30
Energy efficiency class		❄	A+++	A+++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	❄	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46
Heating capacity	kW	☀	3,20	4,20	5,50	6,00	7,00	8,00
Heating range (min.-max.)	kW	☀	0,90 - 4,80	1,00 - 5,30	1,10 - 6,50	1,10 - 6,50	1,15 - 7,50	1,70 - 8,80
Power consumption (min./nom./max.)	kW	☀	0,16/0,70/ 1,23	0,20/1,08/ 1,55	0,24/1,52/ 1,90	0,25/1,59/ 1,75	0,26/1,88/ 2,10	0,29/2,35/ 2,75
Energy efficiency COP	W/W	☀	4,57	3,89	3,62	3,77	3,72	3,40
Energy efficiency SCOP		☀	5,10	5,10	4,60	4,60	4,60	4,10
Energy efficiency class		☀	A+++	A+++	A++	A++	A++	A+
Outdoor temperature operating range (min.-max.)	°C	☀	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A		10	10	10	10	10	10
Set price	**€**		**1.645,-**	**1.895,-**	**2.220,-**	**2.565,-**	**2.935,-**	**3.420,-**

INDOOR UNIT			RAS-B10G3KVSG-E	RAS-B13G3KVSG-E	RAS-B16G3KVSG-E	RAS-B18G3KVSG-E	RAS-B22G3KVSG-E	RAS-B24G3KVSG-E
Airflow	m³/h		312-660	342-732	360-768	990	1032	1120
Sound pressure level (low/med/high)	dB(A)	❄	19/22/40	19/23/43	21/25/44	26/31/44	27/34/45	28/35/47
Sound pressure level (low/med/high)	dB(A)	☀	19/-/40	19/23/43	22/26/44	26/31/44	27/34/46	28/35/48
Dimensions (HxWxD)	mm		293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245	320 x 1053 x 245
Weight	kg		10	10	10	14	14	14
Price	**€**		**695,-**	**745,-**	**800,-**	**850,-**	**975,-**	**1.140,-**

OUTDOOR UNIT			RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-16J2AVSG-E1	RAS-18J2AVSG-E1	RAS-22J2AVSG-E1	RAS-24J2AVSG-E1*
Sound pressure level (low/med/high)	dB(A)	❄	36/43/44	39/45/46	40/47/48	42/47/48	43/48/49	43/49/50
Sound pressure level (low/med/high)	dB(A)	☀	38/44/46	43/46/48	43/49/50	44/49/50	46/50/51	46/52/52
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m		2	2	2	2	2	2
Pipe length (max.)	m		20	20	20	20	20	25
Height difference (max.)	m		12	12	12	12	12	15
Compressor type			DC Rotary	DC Rotary	DC Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Refrigerant			R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,55	0,80	0,80	1,10	1,10	1,18
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300
Weight	kg		26	30	33	34	34	35
Price	**€**		**950,-**	**1.150,-**	**1.420,-**	**1.715,-**	**1.960,-**	**2.280,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		**105,-**
RB-RXS34-E	Design infrared remote control, black, with magnetic holder		**120,-**
818F0036	IAQ filter strips		**50,-**
818F0023	Active carbon-catechin filter strips		**30,-**
818F0072	Ultra-Fresh filter strips		**35,-**
TCB-IFCB5-PE	External on/off PCB, window contact module		**80,-**
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		**95,-**

* Changing to RAS-24J2AVSG-E2 during the year.

You will find all the control options on page 33.

SHORAI Edge Black / Set

- HIGH Line allrounder with design and function update
- High efficiency: energy class A+++ / Clean air: dust filter & ultra pure filter
- APP control: WiFi module integrated as standard
- Transparent power consumption: Energy monitoring for single and multi-split systems



INDOOR UNIT OUTDOOR UNIT			RAS-B10G3KVSGB-E RAS-10J2AVSG-E1	RAS-B13G3KVSGB-E RAS-13J2AVSG-E1	RAS-B16G3KVSGB-E RAS-16J2AVSG-E1	RAS-B18G3KVSGB-E RAS-18J2AVSG-E1	RAS-B22G3KVSGB-E RAS-22J2AVSG-E1	RAS-B24G3KVSGB-E RAS-24J2AVSG-E1*
Cooling capacity	kW	❄	2,50	3,50	4,60	5,00	6,10	7,00
Cooling range (min.-max.)	kW	❄	0,89 - 3,20	1,00 - 4,10	1,20 - 5,30	1,20 - 6,00	1,39 - 6,70	1,70 - 7,70
Power consumption (min./nom./max.)	kW	❄	0,19/0,54/ 0,79	0,25/0,90/ 1,12	0,34/1,35/ 1,72	0,35/1,42/ 2,00	0,36/1,99/ 2,20	0,38/2,25/ 2,55
Energy efficiency EER	W/W	❄	4,63	3,89	3,41	3,52	3,07	3,11
Energy efficiency SEER		❄	8,60	8,60	7,80	7,80	7,30	6,30
Energy efficiency class		❄	A+++	A+++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	❄	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46
Heating capacity	kW	☀	3,20	4,20	5,50	6,00	7,00	8,00
Heating range (min.-max.)	kW	☀	0,90 - 4,80	1,00 - 5,30	1,10 - 6,50	1,10 - 6,50	1,15 - 7,50	1,70 - 8,80
Power consumption (min./nom./max.)	kW	☀	0,16/0,70/ 1,23	0,20/1,08/ 1,55	0,24/1,52/ 1,90	0,25/1,59/ 1,75	0,26/1,88/ 2,10	0,29/2,35/ 2,75
Energy efficiency COP	W/W	☀	4,57	3,89	3,62	3,77	3,72	3,40
Energy efficiency SCOP		☀	5,10	5,10	4,60	4,60	4,60	4,10
Energy efficiency class		☀	A+++	A+++	A++	A++	A++	A+
Outdoor temperature operating range (min.-max.)	°C	☀	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A		10	10	10	10	10	10
Set price	**€**		**1.730,-**	**1.980,-**	**2.340,-**	**2.695,-**	**3.080,-**	**3.600,-**

INDOOR UNIT			RAS-B10G3KVSGB-E	RAS-B13G3KVSGB-E	RAS-B16G3KVSGB-E	RAS-B18G3KVSGB-E	RAS-B22G3KVSGB-E	RAS-B24G3KVSGB-E
Airflow	m³/h		312-660	342-732	360-768	990	1032	1120
Sound pressure level (low/med/high)	dB(A)	❄	19/22/40	19/23/43	21/25/44	26/31/44	27/34/45	28/35/47
Sound pressure level (low/med/high)	dB(A)	☀	19/-/40	19/23/43	22/26/44	26/31/44	27/34/46	28/35/48
Dimensions (HxWxD)	mm		293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245	320 x 1053 x 245
Weight	kg		10	10	10	14	14	14
Price	**€**		**780,-**	**830,-**	**920,-**	**980,-**	**1.120,-**	**1.320,-**

OUTDOOR UNIT			RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-16J2AVSG-E1	RAS-18J2AVSG-E1	RAS-22J2AVSG-E1	RAS-24J2AVSG-E1*
Sound pressure level (low/med/high)	dB(A)	❄	36/43/44	39/45/46	40/47/48	42/47/48	43/48/49	43/49/50
Sound pressure level (low/med/high)	dB(A)	☀	38/44/46	43/46/48	43/49/50	44/49/50	46/50/51	46/52/52
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m		2	2	2	2	2	2
Pipe length (max.)	m		20	20	20	20	20	25
Height difference (max.)	m		12	12	12	12	12	15
Compressor type			DC Rotary	DC Rotary	DC Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Refrigerant			R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,55	0,80	0,80	1,10	1,10	1,18
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300
Weight	kg		26	30	33	34	34	35
Price	**€**		**950,-**	**1.150,-**	**1.420,-**	**1.715,-**	**1.960,-**	**2.280,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		**105,-**
RB-RXS34-E	Design infrared remote control, black, with magnetic holder		**120,-**
818F0036	IAQ filter strips		**50,-**
818F0023	Active carbon-catechin filter strips		**30,-**
818F0072	Ultra-Fresh filter strips		**35,-**
TCB-IFCB5-PE	External on/off PCB, window contact module		**80,-**
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		**95,-**

* Changing to RAS-24J2AVSG-E2 during the year.

You will find all the control options on page 33.

HAORI / Set

- DESIGN Line with innovative textile cover
- A+++ for cooling & heating
- Dust filter, ozone air purifier, and ultra pure filter
- WiFi module integrated as standard
- Energy monitoring: for single and multi-split systems



INDOOR UNIT OUTDOOR UNIT			RAS-B10N4KVRG-E1 RAS-10J2AVSG-E1	RAS-B13N4KVRG-E RAS-13J2AVSG-E1	RAS-B16N4KVRG-E RAS-16J2AVSG-E1
Cooling capacity	kW	❄	2,50	3,50	4,60
Cooling range (min.-max.)	kW	❄	0,89 - 3,20	1,00 - 4,10	1,20 - 5,30
Power consumption (min./nom./max.)	kW	❄	0,19/0,54/0,79	0,25/0,80/1,12	0,34/1,35/1,72
Energy efficiency EER	W/W	❄	4,63	4,38	3,41
Energy efficiency SEER		❄	8,60	8,70	7,80
Energy efficiency class		❄	A+++	A+++	A++
Outdoor temperature operating range (min.-max.)	°C	❄	-15/+46	-15/+46	-15/+46
Heating capacity	kW	☀	3,20	4,20	5,50
Heating range (min.-max.)	kW	☀	0,90 - 4,70	1,00 - 5,30	1,10 - 6,30
Power consumption (min./nom./max.)	kW	☀	0,18/0,74/1,23	0,20/1,08/1,55	0,30/1,52/1,90
Energy efficiency COP	W/W	☀	4,32	3,89	3,62
Energy efficiency SCOP		☀	5,10	5,10	4,60
Energy efficiency class		☀	A+++	A+++	A++
Outdoor temperature operating range (min.-max.)	°C	☀	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A		10	10	10
Set price	**€**		**1.830,-**	**2.110,-**	**2.435,-**

INDOOR UNIT			RAS-B10N4KVRG-E1	RAS-B13N4KVRG-E	RAS-B16N4KVRG-E
Airflow	m³/h		300-600	320-670	340-730
Sound pressure level (low/med/high)	dB(A)	❄	19/-/41	19/-/43	21/-/45
Sound pressure level (low/med/high)	dB(A)	☀	19/-/41	19/-/43	22/-/45
Dimensions (HxWxD)	mm		300 x 987 x 210	300 x 987 x 210	300 x 987 x 210
Weight	kg		11	11	12
Price	**€**		**880,-**	**960,-**	**1.015,-**

OUTDOOR UNIT			RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-16J2AVSG-E1
Sound pressure level (low/med/high)	dB(A)	❄	37/--/44	39/45/46	40/47/48
Sound pressure level (low/med/high)	dB(A)	☀	39/--/46	43/46/48	43/49/50
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m		2	2	2
Pipe length (max.)	m		20	20	20
Height difference (max.)	m		12	12	12
Compressor type			DC Rotary	DC Rotary	DC Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		0,55	0,80	0,80
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
Weight	kg		26	30	33
Price	**€**		**950,-**	**1.150,-**	**1.420,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
RB-RXS34-E	Design infrared remote control, black, with magnetic holder	✔	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		**105,-**
RB-I4101-E	Fabric cover Dark Gray enclosed	✔	
RB-I4102-E	Fabric cover Light Gray enclosed	✔	
RB-I4103-E	Fabric cover Bluish Gray		**125,-**
RB-I4104-E	Fabric cover Gray Beige		**125,-**
RB-I4105-E	Fabric cover Dark Brown		**125,-**
RB-I4106-E	Fabric cover Emerald Blue		**125,-**
818F0050	Ultra-pure 2.5 filter strips	✔	
818F0023	Active carbon-catechin filter strips		**30,-**
818F0036	IAQ filter strips		**50,-**
818F0072	Ultra-Fresh filter strips		**35,-**
TCB-IFCB5-PE	External on/off PCB, window contact module		**80,-**
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		**95,-**

You will find all the control options on page 33.



DAISEIKAI 10 White / Set

- PREMIUM Line in white plastic design
- A+++ for cooling and heating
- Dust filter, plasma ionizer, and ultra pure filter
- WiFi module integrated as standard
- Energy monitoring, HADA careflow, smart sensing



INDOOR UNIT OUTDOOR UNIT			RAS-B10S4KVPG-E RAS-10S4AVPG-E	RAS-B13S4KVPG-E RAS-13S4AVPG-E	RAS-B18S4KVPG-E RAS-18S4AVPG-E
Cooling capacity	kW	❄	2,50	3,50	5,00
Cooling range (min.-max.)	kW	❄	0,60 - 3,50	0,90 - 4,20	0,90 - 6,00
Power consumption (min./nom./max.)	kW	❄	0,16/0,47/0,82	0,20/0,80/1,10	0,20/1,40/2,20
Energy efficiency EER	W/W	❄	5,32	4,38	3,57
Energy efficiency SEER		❄	10,70	9,70	8,60
Energy efficiency class		❄	A+++	A+++	A+++
Outdoor temperature operating range (min.-max.)	°C	❄	-15/+46	-15/+46	-15/+46
Heating capacity	kW	☀	3,20	4,00	6,00
Heating range (min.-max.)	kW	☀	0,65 - 5,80	0,70 - 6,30	0,80 - 7,20
Power consumption (min./nom./max.)	kW	☀	0,16/0,60/1,50	0,18/0,80/1,60	0,19/1,45/1,90
Energy efficiency COP	W/W	☀	5,33	5,00	4,14
Energy efficiency SCOP		☀	5,30	5,20	4,80
Energy efficiency class		☀	A+++	A+++	A++
Outdoor temperature operating range (min.-max.)	°C	☀	-20/+24	-20/+24	-20/+24
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A		10	10	16
Set price	**€**		**2.400,-**	**2.650,-**	**3.400,-**

INDOOR UNIT			RAS-B10S4KVPG-E	RAS-B13S4KVPG-E	RAS-B18S4KVPG-E
Airflow	m³/h		300-700	330-750	350-800
Sound pressure level (low/med/high)	dB(A)	❄	24/--/40	26/--/41	25/--/44
Sound pressure level (low/med/high)	dB(A)	☀	25/--/41	24/--/42	26/--/45
Dimensions (HxWxD)	mm		293 x 930 x 255	293 x 930 x 255	293 x 930 x 255
Weight	kg		14	14	14
Price	**€**		**1.050,-**	**1.150,-**	**1.350,-**

OUTDOOR UNIT			RAS-10S4AVPG-E	RAS-13S4AVPG-E	RAS-18S4AVPG-E
Sound pressure level (low/med/high)	dB(A)	❄	40/--/44	41/--/45	42/--/47
Sound pressure level (low/med/high)	dB(A)	☀	41/--/45	42/--/46	44/--/49
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m		2	2	2
Pipe length (max.)	m		25	25	25
Height difference (max.)	m		15	15	15
Compressor type			DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		0,96	0,96	0,96
Dimensions (HxWxD)	mm		630 x 800 x 300	630 x 800 x 300	630 x 800 x 300
Weight	kg		38	38	38
Price	**€**		**1.350,-**	**1.500,-**	**2.050,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		**105,-**
818F0023	Active carbon-catechin filter strips		**30,-**
818F0036	IAQ filter strips		**50,-**
818F0072	Ultra-Fresh filter strips		**35,-**
TCB-IFCB5-PE	External on/off PCB, window contact module		**80,-**
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		**95,-**

You will find all the control options on page 33.

DAISEIKAI 10 Wood / Set

- PREMIUM Line in ash wood design
- A+++ for cooling and heating
- Dust filter, plasma ionizer, and ultra pure filter
- WiFi module integrated as standard
- Energy monitoring, HADA careflow, smart sensing



INDOOR UNIT OUTDOOR UNIT			RAS-B10S4KVDG-E RAS-10S4AVPG-E	RAS-B13S4KVDG-E RAS-13S4AVPG-E	RAS-B18S4KVDG-E RAS-18S4AVPG-E
Cooling capacity	kW	❄	2,50	3,50	5,00
Cooling range (min.-max.)	kW	❄	0,60 - 3,50	0,90 - 4,20	0,90 - 6,00
Power consumption (min./nom./max.)	kW	❄	0,16/0,47/0,82	0,20/0,80/1,10	0,20/1,40/2,20
Energy efficiency EER	W/W	❄	5,32	4,38	3,57
Energy efficiency SEER		❄	10,70	9,70	8,60
Energy efficiency class		❄	A+++	A+++	A+++
Outdoor temperature operating range (min.-max.)	°C	❄	-15/+46	-15/+46	-15/+46
Heating capacity	kW	☀	3,20	4,00	6,00
Heating range (min.-max.)	kW	☀	0,65 - 5,80	0,70 - 6,30	0,80 - 7,20
Power consumption (min./nom./max.)	kW	☀	0,16/0,60/1,50	0,18/0,80/1,60	0,19/1,45/1,90
Energy efficiency COP	W/W	☀	5,33	5,00	4,14
Energy efficiency SCOP		☀	5,30	5,20	4,80
Energy efficiency class		☀	A+++	A+++	A++
Outdoor temperature operating range (min.-max.)	°C	☀	-20/+24	-20/+24	-20/+24
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A		10	10	16
Set price	**€**		**2.600,-**	**2.900,-**	**3.700,-**

INDOOR UNIT			RAS-B10S4KVDG-E	RAS-B13S4KVDG-E	RAS-B18S4KVDG-E
Airflow	m³/h		300-700	330-750	350-800
Sound pressure level (low/med/high)	dB(A)	❄	24/--/40	26/--/41	25/--/44
Sound pressure level (low/med/high)	dB(A)	☀	25/--/41	24/--/42	26/--/45
Dimensions (HxWxD)	mm		293 x 940 x 257	293 x 940 x 257	293 x 940 x 257
Weight	kg		16	16	16
Price	**€**		**1.250,-**	**1.400,-**	**1.650,-**

OUTDOOR UNIT			RAS-10S4AVPG-E	RAS-13S4AVPG-E	RAS-18S4AVPG-E
Sound pressure level (low/med/high)	dB(A)	❄	40/--/44	41/--/45	42/--/47
Sound pressure level (low/med/high)	dB(A)	☀	41/--/45	42/--/46	44/--/49
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m		2	2	2
Pipe length (max.)	m		25	25	25
Height difference (max.)	m		15	15	15
Compressor type			DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		0,96	0,96	0,96
Dimensions (HxWxD)	mm		630 x 800 x 300	630 x 800 x 300	630 x 800 x 300
Weight	kg		38	38	38
Price	**€**		**1.350,-**	**1.500,-**	**2.050,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		**105,-**
818F0023	Active carbon-catechin filter strips		**30,-**
818F0036	IAQ filter strips		**50,-**
818F0072	Ultra-Fresh filter strips		**35,-**
TCB-IFCB5-PE	External on/off PCB, window contact module		**80,-**
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		**95,-**

You will find all the control options on page 33.

Console / Set

- Bi-flow console with variable air outlet
- A++ for cooling and heating – with floor heating effect
- Large-area dust filter and IAQ filter
- Prepared for optional leak detection



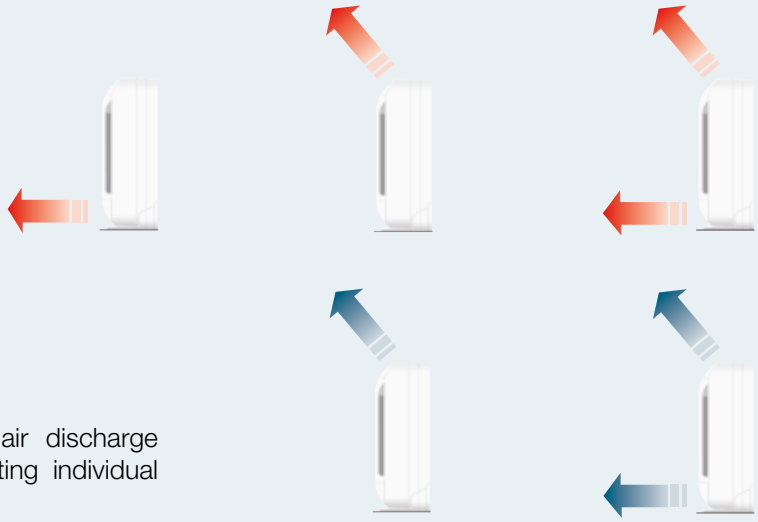
INDOOR UNIT OUTDOOR UNIT		RAS-B10J2FVG-E RAS-10J2AVSG-E1	RAS-B13J2FVG-E RAS-13J2AVSG-E1	RAS-B18J2FVG-E RAS-18J2AVSG-E1
Cooling capacity	kW ❄	2,50	3,50	5,00
Cooling range (min.-max.)	kW ❄	0,95 - 3,20	1,05 - 4,10	1,20 - 5,60
Power consumption (min./nom./max.)	kW ❄	0,21/0,59/0,90	0,27/0,87/1,20	0,34/1,68/2,00
Energy efficiency EER	W/W ❄	4,24	4,02	2,98
Energy efficiency SEER	❄	7,20	7,00	6,80
Energy efficiency class	❄	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C ❄	-15/+46	-15/+46	-15/+46
Heating capacity	kW ☀	3,20	4,20	6,00
Heating range (min.-max.)	kW ☀	0,85 - 4,40	1,00 - 5,00	1,30 - 6,30
Power consumption (min./nom./max.)	kW ☀	0,18/0,82/1,25	0,22/1,27/1,55	0,31/2,05/2,20
Energy efficiency COP	W/W ☀	3,90	3,31	2,93
Energy efficiency SCOP	☀	4,70	4,70	4,60
Energy efficiency class	☀	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C ☀	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	10	10	10
Set price	**€**	**2.110,-**	**2.420,-**	**3.245,-**

INDOOR UNIT		RAS-B10J2FVG-E	RAS-B13J2FVG-E	RAS-B18J2FVG-E
Airflow	m³/h	258-492	288-552	366-600
Sound pressure level (low/med/high)	dB(A) ❄	23/-/39	24/-/40	31/46
Sound pressure level (low/med/high)	dB(A) ☀	23/-/39	24/-/40	31/47
Dimensions (HxWxD)	mm	600 x700 x 220	600 x700 x 220	600 x 700 x 220
Weight	kg	16	16	16
Price	**€**	**1.160,-**	**1.270,-**	**1.530,-**

OUTDOOR UNIT		RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-18J2AVSG-E1
Sound pressure level (low/med/high)	dB(A) ❄	38/--/45	40/--/47	43/--/49
Sound pressure level (low/med/high)	dB(A) ☀	40/--/47	43/--/49	45/--/51
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (½)
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m	2	2	2
Pipe length (max.)	m	20	20	20
Height difference (max.)	m	12	12	12
Compressor type		DC Rotary	DC Rotary	DC Twin Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	0,55	0,80	1,10
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
Weight	kg	26	30	34
Price	**€**	**950,-**	**1.150,-**	**1.715,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		**105,-**
RB-N106S-G	TOSHIBA Home AC Control - WiFi control with cable / console		**120,-**
818F0023	Active carbon-catechin filter strips		**30,-**
818F0036	IAQ filter strips		**50,-**
818F0072	Ultra-Fresh filter strips		**35,-**
RB-I301-E	Leak detection sensor for J2FVG-E model type consoles		**255,-**
TCB-IFCB5-PE	External on/off PCB, window contact module		**80,-**
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		**95,-**

You will find all the control options on page 33.



Many different settings for the air discharge direction are possible, thus meeting individual requirements.

INVERTER MULTI-SYSTEMS: Indoor units

SEIYA Classic 2



- CLASSIC Line compact inverter
- Dust filter
- WiFi module optional



INDOOR UNIT			RAS-B07B2KVG-E2	RAS-B10B2KVG-E2	RAS-B13B2KVG-E2	RAS-B16B2KVG-E2	RAS-B18B2KVG-E2	RAS-B24B2KVG-E2
Cooling capacity	kW	❄	2,00	2,50	3,30	4,20	5,00	6,50
Sound pressure level (low/med/high)	dB(A)	❄	19/--/40	19/--/42	20/--/43	22/--/45	26/--/47	29/--/48
Heating capacity	kW	☀	2,50	3,20	3,60	5,00	5,40	7,00
Sound pressure level (low/med/high)	dB(A)	☀	19/--/39	20/--/41	20/--/42	23/--/44	26/--/48	29/--/48
Airflow	m³/h		200-500	230-630	230-630	330-780	480-820	660-1100
Dimensions (HxWxD)	mm		288 x 770 x 225	288 x 770 x 225	288 x 770 x 225	293 x 798 x 230	293 x 798 x 230	320x1050x250
Weight	kg		9	9	9	9	9	13
Price	**€**		**320,-**	**320,-**	**330,-**	**370,-**	**430,-**	**510,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	

SEIYA



- BASIC Line compact inverter
- Dust filter and ultra fresh filter
- WiFi module optional



INDOOR UNIT			RAS-B07E2KVG-E	RAS-B10E2KVG-E	RAS-B13E2KVG-E	RAS-B16E2KVG-E	RAS-B18E2KVG-E	RAS-B24E2KVG-E
Cooling capacity	kW	❄	2,00	2,50	3,30	4,20	5,00	6,50
Sound pressure level (low/med/high)	dB(A)	❄	19/--/38	19/--/39	20/--/41	21/--/43	26/--/47	29/--/48
Heating capacity	kW	☀	2,50	3,20	3,60	5,00	5,40	7,00
Sound pressure level (low/med/high)	dB(A)	☀	19/--/38	20/--/39	20/--/42	22/--/43	26/--/48	29/--/48
Airflow	m³/h		500	510	560	760	840	1070
Dimensions (HxWxD)	mm		288 x 770 x 225	288 x 770 x 225	288 x 770 x 225	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250
Weight	kg		9	9	9	9	9	15
Price	**€**		**380,-**	**390,-**	**400,-**	**420,-**	**500,-**	**610,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	

You will find the accessories on page 33.

SHORAI Edge White



- HIGH Line allrounder with design and function update
- High efficiency: energy class A+++
- Clean air: dust filter & ultra pure filter
- APP control: WiFi module integrated as standard

INDOOR UNIT		RAS-B07G3KVSG-E	RAS-B10G3KVSG-E	RAS-B13G3KVSG-E	RAS-B16G3KVSG-E	RAS-B18G3KVSG-E	RAS-B22G3KVSG-E	RAS-B24G3KVSG-E
Cooling capacity	kW	2,00	2,50	3,50	4,60	5,00	6,10	7,00
Sound pressure level (low/med/high)	dB(A)	19/22/40	19/22/40	19/23/43	21/25/44	26/31/44	27/34/45	28/35/47
Heating capacity	kW	2,50	3,20	4,20	5,50	6,00	7,00	8,00
Sound pressure level (low/med/high)	dB(A)	19/23/40	19/23/40	19/23/43	22/26/44	26/31/44	27/34/46	28/35/48
Airflow	m³/h	660	660	732	750	990	1032	1122
Dimensions (HxWxD)	mm	293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245	320 x 1053 x 245
Weight	kg	10	10	10	10	14	14	14
Price	**€**	**690,-**	**695,-**	**745,-**	**800,-**	**850,-**	**975,-**	**1.140,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	

SHORAI Edge Black



- HIGH Line allrounder with design and function update
- High efficiency: energy class A+++
- Clean air: dust filter & ultra pure filter
- APP control: WiFi module integrated as standard

INDOOR UNIT		RAS-B10G3KVSGB-E	RAS-B13G3KVSGB-E	RAS-B16G3KVSGB-E	RAS-B18G3KVSGB-E	RAS-B22G3KVSGB-E	RAS-B24G3KVSGB-E
Cooling capacity	kW	2,50	3,50	4,60	5,00	6,10	7,00
Sound pressure level (low/med/high)	dB(A)	19/22/40	19/23/43	21/25/44	26/31/44	27/34/45	28/35/47
Heating capacity	kW	3,20	4,20	5,50	6,00	7,00	8,00
Sound pressure level (low/med/high)	dB(A)	19/23/40	19/23/43	22/26/44	26/31/44	27/34/46	28/35/48
Airflow	m³/h	660	732	750	990	1032	1122
Dimensions (HxWxD)	mm	293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245	320 x 1053 x 245
Weight	kg	10	10	10	14	14	14
Price	**€**	**780,-**	**830,-**	**920,-**	**980,-**	**1.120,-**	**1.320,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	

You will find the accessories on page 33.

HAORI

- Design unit with innovative textile cover
- Dust filter, ozone air purifier, and ultra pure filter
- WiFi module integrated as standard



INDOOR UNIT		RAS-B10N4KVRG-E1	RAS-B13N4KVRG-E	RAS-B16N4KVRG-E
Cooling capacity	kW ❄	2,50	3,50	4,60
Sound pressure level (low/med/high)	dB(A) ❄	19/-/41	19/-/43	21/-/45
Heating capacity	kW ☀	3,20	4,20	5,50
Sound pressure level (low/med/high)	dB(A) ☀	19/-/41	19/-/43	22/-/45
Airflow	m³/h	300/610	320/670	360/730
Dimensions (HxWxD)	mm	300 x 987 x 210	300 x 987 x 210	300 x 987 x 210
Weight	kg	11	11	12
Price	**€**	**880,-**	**960,-**	**1.015,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
RB-RXS34-E	Design infrared remote control, black, with magnetic holder	✔	
RB-I4101-E	Fabric cover Dark Gray enclosed	✔	
RB-I4102-E	Fabric cover Light Gray enclosed	✔	
RB-I4103-E	Fabric cover Bluish Gray		**125,-**
RB-I4104-E	Fabric cover Gray Beige		**125,-**
RB-I4105-E	Fabric cover Dark Brown		**125,-**
RB-I4106-E	Fabric cover Emerald Blue		**125,-**

DAISEIKAI 10 White

- PREMIUM Line in white plastic design
- Dust filter, ultra pure filter, plasma filter with ionizer
- WiFi module integrated as standard



INDOOR UNIT		RAS-B10S4KVPG-E	RAS-B13S4KVPG-E	RAS-B18S4KVPG-E
Cooling capacity	kW ❄	2,50	3,50	5,00
Sound pressure level (low/med/high)	dB(A) ❄	24/--/40	26/--/41	25/--/44
Heating capacity	kW ☀	3,20	4,00	6,00
Sound pressure level (low/med/high)	dB(A) ☀	25/--/41	24/--/42	26/--/45
Airflow	m³/h	300-700	330-750	350-800
Dimensions (HxWxD)	mm	293 x 930 x 255	293 x 930 x 255	293 x 930 x 255
Weight	kg	14	14	14
Price	**€**	**1.050,-**	**1.150,-**	**1.350,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	

DAISEIKAI 10 Wood

- PREMIUM Line in ash wood design (WOOD)
- Dust filter, ultra pure filter, plasma filter with ionizer
- WiFi module integrated as standard



INDOOR UNIT		RAS-B10S4KVDG-E	RAS-B13S4KVDG-E	RAS-B18S4KVDG-E
Cooling capacity	kW ❄	2,50	3,50	5,00
Sound pressure level (low/med/high)	dB(A) ❄	24/--/40	26/--/41	25/--/44
Heating capacity	kW ☀	3,20	4,00	6,00
Sound pressure level (low/med/high)	dB(A) ☀	25/--/41	24/--/42	26/--/45
Airflow	m³/h	300-700	330-750	350-800
Dimensions (HxWxD)	mm	293 x 940 x 257	293 x 940 x 257	293 x 940 x 257
Weight	kg	16	16	16
Price	**€**	**1.250,-**	**1.400,-**	**1.650,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	

You will find the accessories on page 33.

Console

- Bi-flow console with variable air outlet
- Large-area dust filter and IAQ filter
- Prepared for optional leak detection



INDOOR UNIT		RAS-B10J2FVG-E	RAS-B13J2FVG-E	RAS-B18J2FVG-E
Cooling capacity	kW ❄	2,50	3,50	5,00
Sound pressure level (low/med/high)	dB(A) ❄	26/32/39	27/33/40	34/40/46
Heating capacity	kW ☀	3,20	4,20	6,00
Sound pressure level (low/med/high)	dB(A) ☀	26/32/39	27/33/40	34/40/47
Airflow	m³/h	258/492	270/528	366/600
Dimensions (HxWxD)	mm	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
Weight	kg	16	16	16
Price	**€**	**1.160,-**	**1.270,-**	**1.530,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	

1-Way Cassette



- 30 mm flat design panel
- Minimal installation height of only150 mm
- Integrated drain pump
  - Accessories required: remote control + panel

INDOOR UNIT		RAS-M10G3YVG-E	RAS-M13G3YVG-E	RAS-M16G3YVG-E	RAS-M24G3YVG-E
Cooling capacity	kW	2,50	3,60	4,60	7,00
Sound pressure level (low/med/high)	dB(A)	39/48/52	39/49/53	33/36/39	50/55/59
Heating capacity	kW	3,20	4,00	5,50	8,00
Sound pressure level (low/med/high)	dB(A)	39/48/52	39/49/53	33/36/39	50/55/59
Airflow	m³/h	520/420/310	520/420/310	750/630/500	940/760/600
Dimensions (HxWxD)	mm	150 x 990 x 450	150 x 990 x 450	150 x 1180 x 450	150 x 1180 x 450
Weight	kg	13	13	14	15
Panel dimensions (HxWxD)	mm	30 x 1190 x 520	30 x 1190 x 520	30 x 1410 x 530	30 x 1410 x 530
Panel weight	kg	3	3	3	3
Price	**€**	**1.300,-**	**1.400,-**	**1.450,-**	**1.740,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UY32P-E	Panel for small chassis (990 mm)	**555,-**
RBC-UY42P-E	Panel for big chassis (1180 mm)	**580,-**
RBC-ASCU32Y-E	Compact wired remote control with sensor buttons	**100,-**
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AMSU52-E	Wired comfort remote control PLUS	**205,-**
RBC-AWSU52-E	Wired comfort remote control PLUS BT	**225,-**
RBC-AX33UYP-E	Infrared remote control + receiver kit for installation in 1-way cassette	**80,-**
BMS-IWF0010UCP-E	WiFi 1:1 interface for mobile control via smartphone or tablet	**180,-**
TCB-EAPC1UYHP-E	PURE Plasmafilter Kit for 1-way FLAT cassette	**300,-**
TCB-SIR41UYP-E	Occupancy sensor kit for installation in 1-way FLAT cassette	**120,-**

You will find the accessories on page 33.



60x60 Slim Cassette



- Euro-grid cassette with 360° air distribution & presence sensor option
- Slim design panel with individual airflow patterns
- Large-area dust filter
  - Accessories required: remote control + panel

INDOOR UNIT			RAS-M10S4MUVG-E	RAS-M13S4MUVG-E	RAS-M16S4MUVG-E
Cooling capacity	kW	❄	2,70	3,70	4,50
Sound pressure level (low/med/high)	dB(A)	❄	30/33/37	33/35/39	33/37/41
Heating capacity	kW	☀	4,00	5,00	5,50
Sound pressure level (low/med/high)	dB(A)	☀	30/33/37	33/35/39	33/37/41
Airflow	m³/h		420/590/590	470/520/620	470/580/660
External static pressure	Pa		-	-	-
Dimensions (HxWxD)	mm		256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
Weight	kg		16	16	16
Price	**€**		**1.215,-**	**1.285,-**	**1.325,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UM21P-E	Panel WHITE for 60x60 slim cassette	**410,-**
RBC-UM21PB-E	Panel BLACK for 60x60 slim cassette	**430,-**
RBC-ASCU32Y-E	Compact wired remote control with sensor buttons	**100,-**
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AMSU52-E	Wired comfort remote control PLUS	**205,-**
RBC-AWSU52-E	Wired comfort remote control PLUS BT	**225,-**
RBC-AXU31UMP-E	Infrared remote control + receiver kit WHITE for installation in 60x60 slim cassette	**170,-**
RBC-AXU31UMPB-E	Infrared remote control + receiver kit BLACK for installation in 60x60 slim cassette	**190,-**
BMS-IWF0010UCP-E	WiFi 1:1 interface for mobile control via smartphone or tablet	**180,-**
TCB-SIR41UMP-E	Occupancy sensor kit WHITE for installation in 60x60 slim cassette	**120,-**

You will find the accessories on page 33.

Duct unit



- Minimal installation height of just 210 mm
- External static pressure adjustable up to 45 Pa
- Drain pump included

INDOOR UNIT			RAS-M10U2DVG-E	RAS-M13U2DVG-E	RAS-M16U2DVG-E	RAS-M22U2DVG-E	RAS-M24U2DVG-E
Cooling capacity	kW	❄	2,70	3,70	4,50	6,00	7,00
Sound pressure level (low/med/high)	dB(A)	❄	27/35	27/37	24/35	32/38	33/39
Heating capacity	kW	☀	4,00	5,00	5,50	7,00	8,00
Sound pressure level (low/med/high)	dB(A)	☀	27/35	27/37	25/35	32/38	33/39
Airflow	m³/h		570	610	780	1000	1060
Dimensions (HxWxD)	mm		210 x 700 x 450	210 x 700 x 450	210 x 900 x 450	210 x 1100 x 450	210 x 1100 x 450
Weight	kg		16	16	19	22	22
Price	**€**		**1.360,-**	**1.380,-**	**1.480,-**	**1.720,-**	**1.740,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	
RB-RWS21-E	Wired remote control with weekly timer		**330,-**

You will find the accessories on page 33.

INVERTER MULTI-SYSTEMS: Outdoor units

Multi-split

- The new generation of multi outdoor units
- Up to 5 indoor units can be connected
- Energy efficiency up to A+++, depending on combination
- Supports energy monitoring for SEIYA, HAORI, SHORAI EDGE BLACK & WHITE and DAISEIKAI 10



RAS-2M14G3AVG-E



RAS-2M18G3AVG-E
RAS-3M18G3AVG-E



RAS-3M26G3AVG-E
RAS-4M27G3AVG-E
RAS-5M34G3AVG-E*

			2-ROOM MULTISPLIT		3-ROOM MULTISPLIT		4-ROOM MULTISPLIT	5-ROOM MULTISPLIT
OUTDOOR UNIT			**RAS-2M14G3AVG-E**	**RAS-2M18G3AVG-E**	**RAS-3M18G3AVG-E**	**RAS-3M26G3AVG-E**	**RAS-4M27G3AVG-E**	**RAS-5M34G3AVG-E***
Cooling capacity	kW	❄	4,00	5,20	5,20	7,00	8,00	10,00
Cooling range (min.-max.)	kW	❄	1,50 - 4,90	1,60 - 6,50	2,00 - 7,50	2,00 - 9,00	2,00 - 10,00	2,50 - 11,50
Power consumption (min./nom./max.)	kW	❄	0,85	1,20	1,00	1,75	1,90	2,60
Energy efficiency EER	W/W	❄	4,71	4,33	5,20	4,00	4,21	3,85
Energy efficiency SEER		❄	8,70	8,70	8,60	8,50	8,30	7,20
Energy efficiency class		❄	A+++	A+++	A+++	A+++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	❄	-10/+46	-10/+46	-10/+46	-10/+46	-10/+46	-10/+46
Heating capacity	kW	☀	4,40	5,60	6,80	8,70	9,00	12,00
Outdoor temperature operating range (min.-max.)	°C	☀	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24
Power consumption (min./nom./max.)	kW	☀	0,90	1,14	1,45	2,00	1,90	2,80
Energy efficiency COP	W/W	☀	4,89	4,91	4,69	4,35	4,74	4,29
Energy efficiency SCOP		☀	4,80	4,80	4,80	4,60	4,50	4,30
Energy efficiency class		☀	A++	A++	A++	A++	A++	A++
Heating range (min.-max.)	kW	☀	1,00 - 5,20	1,30 - 8,20	1,90 - 8,30	2,00 - 11,50	2,00 - 12,00	2,20 - 14,20
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A		10	16	16	16	20	20
Sound pressure level (low/med/high)	dB(A)	❄	49	48	48	50	50	52
Sound pressure level (low/med/high)	dB(A)	☀	52	50	52	52	52	56
Pipe length (max.)	m		30	30	50	70	70	80
Pipe length/indoor unit (min.)	m		2	2	2	2	2	2
Pipe length/indoor unit (max.)	m		20	20	25	25	25	25
Height difference (max.)	m		10	10	10	15	15	15
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,95	1,20	1,25	1,90	2,05	2,39
Dimensions (HxWxD)	mm		550 x 780 x 290	630 x 800 x 300	630 x 800 x 300	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
Weight	kg		35	43	44	72	72	78
Price	**€**		**1.780,-**	**1.910,-**	**2.650,-**	**3.050,-**	**3.350,-**	**3.850,-**

* Changing to RAS-5M34G3AVG-E1 during the year.

Table of inverter multi-system combinations

Overview of multisplit indoor units

INDOOR UNIT SIZES		07	10	13	16	18	22	24
INDOOR UNIT COOLING CAPACITY		2.0 kW	2.5 kW	3.5 kW	4.5 kW	5.0 kW	6.0 kW	7.0 kW
SEIYA CLASSIC 2 RAS-B**B2KVG-E2		●	●	●	●	●		●
SEIYA RAS-B**E2KVG-E		●	●	●	●	●		●
SHORAI Edge Black & White RAS-B**G3KVSG(B)-E		● White only	●	●	●	●	●	●
HAORI RAS-B**N4KVRG-E			●	●	●			
DAISEIKAI 10 White & Wood RAS-B**S4KVPG-E RAS-B**S4KVDG-E			●	●		●		
Console RAS-B**J2FVG-E			●	●		●		
1-way cassette RAS-M**G3YVG-E			●	●	●			●
60x60 slim cassette RAS-M**S4MUVG-E			●	●	●			
Duct unit RAS-M**U2DVG-E			●	●	●		●	●

● Available indoor unit sizes

Multisplit combination options

INDOOR UNIT SIZES		07	10	13	16	18	22	24
INDOOR UNIT COOLING CAPACITY		2.0 kW	2.5 kW	3.5 kW	4.5 kW	5.0 kW	6.0 kW	7.0 kW
2 rooms RAS-2M14G3AVG-E **Outdoor unit cooling capacity: 4.0 kW**		●	●	●				
2 rooms RAS-2M18G3AVG-E **Outdoor unit cooling capacity: 5.2 kW**		●	●	●	●			
3 rooms RAS-3M18G3AVG-E **Outdoor unit cooling capacity: 5.2 kW**		●	●	●	●			
3 rooms RAS-3M26G3AVG-E **Outdoor unit cooling capacity: 7.5 kW**		●	●	●	●	●	●	●
4 rooms RAS-4M27G3AVG-E **Outdoor unit cooling capacity: 8.0 kW**		●	●	●	●	●	●	●
5 rooms RAS-5M34G3AVG-E* **Outdoor unit cooling capacity: 10.0 kW**		●	●	●	●	●	●	●

● Outdoor units compatible with indoor units

* Changing to RAS-5M34G3AVG-E1 during the year.

Combination table, number and size of indoor units

OUTDOOR UNIT	RAS-2M14G3AVG-E	RAS-2M18G3AVG-E	RAS-3M18G3AVG-E	RAS-3M26G3AVG-E
1 unit **	07 10 13	07 10 13 16	07 10 13 16	07 10 13 16 18 22 24
2 units	10+07 10+10 13+07 13+10 13+13	07+07 10+07 10+10 13+07 13+10 13+13 16+07 16+10 16+13 16+16	07+07 10+07 10+10 13+07 13+10 13+13 16+07 16+10 16+13 16+16	07+07 10+07 10+10 13+07 13+10 13+13 16+07 16+10 16+13 16+16 18+07 18+10 18+13 18+16 18+18 22+07 22+10 22+13 22+16 22+18 24+07 24+10 24+13 24+16 24+18
3 units			07+07+07 10+07+07 10+10+07 10+10+10 13+07+07 13+10+07 13+10+10 13+13+07 13+13+10 16+07+07 16+10+10 16+13+07	07+07+07 10+07+07 10+10+07 10+10+10 13+07+07 13+10+07 13+10+10 13+13+07 13+13+10 13+13+13 16+07+07 16+10+07 16+10+10 16+13+07 16+13+10 16+13+13 16+16+07 16+16+10 16+16+13 16+16+16 18+07+07 18+10+07 18+10+10 18+07+13 18+13+10 18+13+13 18+16+07 18+16+10 18+16+13 18+16+16 22+07+07 22+10+07 22+10+10 22+07+13 22+13+10 22+13+13 22+16+07 22+16+10 22+16+13 22+16+16 24+07+07 24+10+07 24+10+10 24+13+07 24+13+10 24+13+13 24+16+07 24+16+10 24+16+13
4 units				
5 units				

* Changing to RAS-5M34G3AVG-E1 during the year.
** 1 unit for cooling mode only

RAS-4M27G3AVG-E	RAS-5M34G3AVG-E*
07 10 13 16 18 22 24	07 10 13 16 18 22 24
07+07 10+07 10+10 13+07 13+10 13+13 16+07 16+10 16+13 16+16 18+07 18+10 18+13 18+16 18+18 22+07 22+10 22+13 22+16 22+18 24+07 24+10 24+13 24+16 24+18	07+07 10+07 10+10 13+07 13+10 13+13 16+07 16+10 16+13 16+16 18+07 18+10 18+13 18+16 18+18 22+07 22+10 22+13 22+16 22+18 22+22 24+07 24+10 24+13 24+16 24+18 24+22 24+24
07+07+07 10+07+07 10+10+07 10+10+10 13+07+07 13+10+07 13+10+10 13+13+07 13+13+10 13+13+13 16+07+07 16+10+07 16+10+10 16+13+07 16+13+10 16+13+13 16+16+07 16+16+10 16+16+13 16+16+16 18+07+07 18+10+07 18+10+10 18+07+13 18+13+10 18+13+13 18+16+07 18+16+10 18+16+13 18+18+07 18+18+10 18+18+13 22+07+07 22+10+07 22+10+10 22+13+07 22+13+10 22+13+13 22+16+07 22+16+10 22+16+13 22+16+16 22+18+07 22+18+10 22+18+13 24+07+07 24+10+07 24+10+10 24+13+07 24+13+10 24+13+13 24+16+07 24+16+10 24+16+13 24+18+07 24+18+10	07+07+07 10+07+07 10+10+07 10+10+10 13+07+07 13+10+07 13+10+10 13+13+07 13+13+10 13+13+13 16+07+07 16+10+07 16+10+10 16+13+07 16+13+10 16+13+13 16+16+07 16+16+10 16+16+13 16+16+16 18+07+07 18+10+07 18+10+10 18+07+13 18+13+10 18+13+13 18+16+07 18+16+10 18+16+13 18+18+07 18+18+10 18+18+13 22+07+07 22+10+07 22+10+10 22+07+13 22+13+10 22+13+13 22+16+07 22+16+10 22+16+13 22+18+07 22+18+10 22+18+13 22+22+07 22+22+10 24+07+07 24+10+07 24+10+10 24+13+07 24+13+10 24+13+13 24+16+07 24+16+10 24+16+13 24+18+07 24+18+10 24+18+13 24+22+07 24+22+10 24+24+07 24+24+10
07+07+07+07 10+07+07+07 10+10+07+07 10+10+10+07 10+10+10+10 13+07+07+07 13+10+07+07 13+10+10+07 13+10+10+10 13+13+07+07 13+13+10+07 13+13+10+10 13+13+13+07 13+13+13+10 13+13+13+13 16+07+07+07 16+10+07+07 16+10+10+07 16+10+10+10 16+13+07+07 16+13+10+07 16+13+10+10 16+13+13+07 16+13+13+10 16+16+07+07 16+16+10+07 16+16+10+10 16+16+13+07 18+07+07+07 18+10+07+07 18+10+10+07 18+10+10+10 18+13+07+07 18+13+10+07 18+13+10+10 18+13+13+07 18+13+13+10 18+16+07+07 18+16+10+07 18+16+10+10 18+16+13+07 18+18+07+07 18+18+10+07	07+07+07+07 10+07+07+07 10+10+07+07 10+10+10+07 10+10+10+10 13+07+07+07 13+10+07+07 13+10+10+07 13+10+10+10 13+13+07+07 13+13+10+07 13+13+10+10 13+13+13+07 13+13+13+10 13+13+13+13 13+16+13+13 16+07+07+07 16+10+07+07 16+10+10+07 16+10+10+10 16+13+07+07 16+13+10+07 16+13+10+10 16+13+13+07 16+13+13+10 16+13+13+13 16+16+07+07 16+16+10+07 16+16+10+10 16+16+13+07 16+16+13+10 18+07+07+07 18+10+07+07 18+10+10+07 18+10+10+10 18+13+07+07 18+13+10+07 18+13+10+10 18+13+13+07 18+13+13+10 18+16+07+07 18+16+10+07 18+16+10+10 18+16+13+07 18+16+13+10 18+16+13+13 18+18+07+07 18+18+10+07 18+18+10+10 18+18+13+07 18+18+13+10 18+18+13+13 22+07+07+07 22+10+07+07 22+10+10+07 22+10+10+10 22+13+07+07 22+13+10+07 22+13+10+10 22+13+13+07 22+13+13+10 22+13+13+13 22+16+07+07 22+16+10+07 22+16+10+10 22+16+13+07 22+16+13+10 22+16+13+13 22+18+07+07 22+18+10+07 22+18+10+10 22+18+13+07 22+18+13+10 22+18+13+13 24+07+07+07 24+10+07+07 24+10+10+07 24+10+10+10 24+13+07+07 24+13+10+07 24+13+10+10 24+13+13+07 24+13+13+10 24+13+13+13 24+16+07+07 24+16+10+07 24+16+10+10 24+16+13+07 24+16+13+10 24+16+13+13 24+18+07+07 24+18+10+07 24+18+10+10 24+18+13+07 24+18+13+10 24+18+13+13
	10+07+07+07+07 10+10+07+07+07 10+10+10+07+07 10+10+10+10+07 10+10+10+10+10 13+07+07+07+07 13+10+07+07+07 13+10+10+07+07 13+10+10+10+07 13+10+10+10+10 13+13+07+07+07 13+13+10+07+07 13+13+10+10+07 13+13+10+10+10 13+13+13+07+07 13+13+13+10+07 13+13+13+10+10 13+13+13+13+07 13+13+13+13+10 13+13+13+13+13 16+07+07+07+07 16+10+07+07+07 16+10+10+07+07 16+10+10+10+07 16+10+10+10+10 16+13+07+07+07 16+13+10+07+07 16+13+10+10+07 16+13+10+10+10 16+13+13+07+07 16+13+13+10+07 16+13+13+10+10 16+13+13+13+07 16+13+13+13+10 16+13+13+13+13 16+16+07+07+07 16+16+10+07+07 16+16+10+10+07 16+16+10+10+10 16+16+13+07+07 16+16+13+10+07 16+16+13+10+10 16+16+13+13+07 16+16+13+13+10 16+16+13+13+13 16+16+13+13+07 16+16+13+13+10 18+07+07+07+07 18+10+07+07+07 18+10+10+07+07 18+10+10+10+07 18+10+10+10+10 18+13+07+07+07 18+13+10+07+07 18+13+10+10+07 18+13+10+10+10 18+13+13+07+07 18+13+13+10+07 18+13+13+10+10 18+13+13+13+07 18+13+13+13+10 18+13+13+13+13 18+16+07+07+07 18+16+10+07+07 18+16+10+10+07 18+16+10+10+10 18+16+13+07+07 18+16+13+10+07 18+16+13+10+10 18+16+13+13+07 18+16+13+13+10 18+16+13+13+13 22+10+10+07+07 22+10+10+10+07 22+10+10+10+10 22+13+07+07+07 22+13+10+10+07 22+13+10+10+10 22+13+13+07+07 22+13+13+10+07 22+13+13+10+10 22+13+13+13+07 24+07+07+07+07 24+10+07+07+07 24+10+10+07+07 24+10+10+10+07 24+13+07+07+07 24+13+10+07+07 24+13+10+10+07 24+13+10+10+10 24+13+13+07+07 24+13+13+10+07

Quick overview of outdoor units

TYPE	Pipe length (min.)	Pipe length (max.)	Pre-charged up to	Height difference (max.)	Pipe length/indoor unit (max.)	Suction gas pipe diameter	Liquid pipe diameter	Refrigerant charge	Added refrigerant charge
	m	m	m	m	m	mm (inch)	mm (inch)	kg	g/m
SEIYA CLASSIC 2									
RAS-10B2AVG-E2	2	10	10	8	-	9,5 (3/8)	6,3 (¼)	0,51	20
RAS-13B2AVG-E2	2	10	10	8	-	9,5 (3/8)	6,3 (¼)	0,58	20
RAS-16B2AVG-E2	2	15	10	8	-	12,7 (½)	6,3 (¼)	0,68	20
RAS-18B2AVG-E2	2	15	10	8	-	12,7 (½)	6,3 (¼)	0,93	20
RAS-24B2AVG-E2	2	15	10	8	-	12,7 (½)	6,3 (¼)	1,23	20
SEIYA									
RAS-10E2AVG-E	2	15	15	15	-	9,5 (3/8)	6,3 (¼)	0,49	20
RAS-13E2AVG-E	2	15	15	15	-	9,5 (3/8)	6,3 (¼)	0,54	20
RAS-16E2AVG-E	2	20	15	15	-	12,7 (½)	6,3 (¼)	0,68	20
RAS-18E2AVG-E	2	20	15	15	-	12,7 (½)	6,3 (¼)	0,93	20
RAS-24E2AVG-E	2	20	15	15	-	12,7 (½)	6,3 (¼)	1,18	20
4 HAORI + SHORAI EDGE Black & White + CONSOLE									
RAS-10J2AVSG-E1	2	20	15	12	-	9,5 (3/8)	6,3 (¼)	0,55	20
RAS-13J2AVSG-E1	2	20	15	12	-	9,5 (3/8)	6,3 (¼)	0,80	20
RAS-16J2AVSG-E1	2	20	15	12	-	12,7 (½)	6,3 (¼)	0,80	20
RAS-18J2AVSG-E1	2	20	15	12	-	12,7 (½)	6,3 (¼)	1,10	20
RAS-22J2AVSG-E1	2	20	15	12	-	12,7 (½)	6,3 (¼)	1,10	20
RAS-24J2AVSG-E1*	2	25	15	15	-	12,7 (½)	6,3 (¼)	1,14	20
DAISEIKAI 10 White & Wood									
RAS-10S4AVPG-E	2	25	15	15	-	9,5 (3/8)	6,3 (¼)	0,96	20
RAS-13S4AVPG-E	2	25	15	15	-	9,5 (3/8)	6,3 (¼)	0,96	20
RAS-18S4AVPG-E	2	25	15	15	-	12,7 (½)	6,3 (¼)	0,96	20
MULTI-SPLIT									
RAS-2M14G3AVG-E	2	30	30	10	20	2x 9,5 (3/8)	2x 6,3 (¼)	0,95	20
RAS-2M18G3AVG-E	2	30	30	10	20	2x 9,5 (3/8)	2x 6,3 (¼)	1,20	20
RAS-3M18G3AVG-E	2	50	50	10	25	2x 9,5 (3/8), 1x 12,7 (½)	3x 6,3 (¼)	1,25	20
RAS-3M26G3AVG-E	2	70	40	15	25	1x 9,5 (3/8), 2x 12,7 (½)	3x 6,3 (¼)	1,90	20
RAS-4M27G3AVG-E	3	70	40	15	25	2x 9,5 (3/8), 2x 12,7 (½)	4x 6,3 (¼)	2,05	20
RAS-5M34G3AVG-E*	3	80	40	15	25	3x 9,5 (3/8), 2x 12,7 (½)	5x 6,3 (¼)	2,39	20

* Changing to RAS-24J2AVSG-E2 and RAS-5M34G3AVG-E1 during the year.

Current Consumption + Fusing

TYPE	Current consumption (max.)	Current consumption (nom.)	Power consumption (min./nom./max.)	Power consumption (min./nom./max.)	Recommended fusing	Power supply	Recommended power supply line type	Communication line
	A	A	kW ❄	kW ☀	A	V/Ph+N/Hz		
SEIYA CLASSIC 2								
RAS-10B2AVG-E2	3,80	3,80	0,26/0,75/0,95	0,21/0,84/1,11	6	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-13B2AVG-E2	4,55	4,55	0,25/1,20/1,25	0,18/1,02/1,34	6	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-16B2AVG-E2	6,13	6,13	0,28/1,40/1,70	0,22/1,45/1,90	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-18B2AVG-E2	7,15	7,15	0,30/1,78/1,90	0,27/1,67/1,88	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-24B2AVG-E2	8,53	8,53	0,30/2,45/2,50	0,23/2,00/2,30	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
SEIYA								
RAS-10E2AVG-E	7,20	4,30	0,20/0,70/1,00	0,18/0,86/1,11	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-13E2AVG-E	7,40	5,38	0,25/1,10/1,25	0,18/0,92/1,25	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-16E2AVG-E	9,00	6,34	0,34/1,27/1,60	0,24/1,34/1,70	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-18E2AVG-E	9,25	6,13	0,34/1,50/1,80	0,26/1,50/1,80	16	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-24E2AVG-E	12,00	8,81	0,41/2,25/2,60	0,29/2,10/2,55	16	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
HAORI + SHORAI EDGE Black & White + CONSOLE								
RAS-10J2AVSG-E1	6,75	2,45	0,19/0,54/0,79	0,16/0,70/1,23	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-13J2AVSG-E1	7,50	3,89	0,25/0,90/1,12	0,20/1,08/1,55	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-16J2AVSG-E1	9,50	5,61	0,34/1,35/1,72	0,24/1,52/1,90	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-18J2AVSG-E1	9,50	-	0,35/1,42/2,00	0,25/1,59/1,75	16	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-22J2AVSG-E1	10,50	-	0,36/1,99/2,20	0,26/1,88/2,10	16	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-24J2AVSG-E1*	12,50	-	0,38/2,25/2,55	0,29/2,35/2,75	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
DAISEIKAI 10 White & Wood								
RAS-10S4AVPG-E	2,37	2,37	0,16/0,47/0,82	0,16/0,60/1,50	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-13S4AVPG-E	4,01	4,01	0,20/0,80/1,10	0,18/0,80/1,60	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-18S4AVPG-E	6,91	6,91	0,20/1,40/2,20	0,19/1,45/1,90	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
MULTI-SPLIT								
RAS-2M14G3AVG-E	10,50	4,20	0,85	0,90	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-2M18G3AVG-E	11,50	5,50	1,20	1,14	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-3M18G3AVG-E	11,90	6,40	1,00	1,45	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-3M26G3AVG-E	16,10	9,47	1,75	2,00	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-4M27G3AVG-E	17,50	10,46	1,90	1,90	20	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-5M34G3AVG-E*	19,00	11,90	2,60	2,80	20	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5

* Changing to RAS-24J2AVSG-E2 and RAS-5M34G3AVG-E1 during the year.

Sound Power Level / Sound Pressure

TYPE	Sound power level	Sound power level	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)
	dB(A) ❄	dB(A) ☀	dB(A) ❄	dB(A) ☀
SEIYA CLASSIC 2				
RAS-10B2AVG-E2	62	64	45/--/49	45/--/58
RAS-13B2AVG-E2	63	65	45/--/50	45/--/58
RAS-16B2AVG-E2	65	66	45/--/52	47/--/58
RAS-18B2AVG-E2	65	66	46/--/52	48/--/59
RAS-24B2AVG-E2	69	70	51/--/59	51/--/64
SEIYA				
RAS-10E2AVG-E	60	62	--/--/47	--/--/49
RAS-13E2AVG-E	61	62	--/--/48	--/--/49
RAS-16E2AVG-E	63	64	--/--/50	--/--/51
RAS-18E2AVG-E	63	64	--/--/50	--/--/51
RAS-24E2AVG-E	67	67	--/--/54	--/--/54
HAORI + SHORAI EDGE Black & White + CONSOLE				
RAS-10J2AVSG-E1	57	59	37/43/44	39/45/46
RAS-13J2AVSG-E1	59	61	39/45/46	43/46/48
RAS-16J2AVSG-E1	61	63	40/47/48	43/49/50
RAS-18J2AVSG-E1	61	63	42/47/48	44/49/50
RAS-22J2AVSG-E1	62	64	43/48/49	46/50/51
RAS-24J2AVSG-E1*	63	65	43/49/50	46/52/52
DAISEIKAI 10 White & Wood				
RAS-10S4AVPG-E	57	58	40/--/44	41/--/45
RAS-13S4AVPG-E	58	59	41/--/45	42/--/46
RAS-18S4AVPG-E	60	62	42/--/47	44/--/49
MULTI-SPLIT				
RAS-2M14G3AVG-E	59	65	49	52
RAS-2M18G3AVG-E	61	63	48	50
RAS-3M18G3AVG-E	61	65	48	52
RAS-3M26G3AVG-E	62	66	50	52
RAS-4M27G3AVG-E	63	62	50	52
RAS-5M34G3AVG-E*	65	69	52	56

* Changing to RAS-24J2AVSG-E2 and RAS-5M34G3AVG-E1 during the year.




TOSHIBA
TOSHIBA

RAS Accessories

Control Options



High-wall unit

ACCESSORIES	DESCRIPTION	PRICE €
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function	**105,-**
RB-RXS34-E	Design infrared remote control, black, with magnetic holder	**120,-**
RB-N105S-G	TOSHIBA Home AC control - wireless WiFi control / Seiya Classic 2, Seiya	**115,-**
RB-N106S-G	TOSHIBA Home AC Control - WiFi control with cable / console	**120,-**
818F0023	Active carbon-catechin filter strips	**30,-**
818F0036	IAQ filter strips	**50,-**
818F0072	Ultra-Fresh filter strips	**35,-**
TCB-IFCB5-PE	External on/off PCB, window contact module	**80,-**
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units	**95,-**

Console

ACCESSORIES	DESCRIPTION	PRICE €
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function	**105,-**
RB-N106S-G	TOSHIBA Home AC Control - WiFi control with cable / console	**120,-**
818F0023	Active carbon-catechin filter strips	**30,-**
818F0036	IAQ filter strips	**50,-**
818F0072	Ultra-Fresh filter strips	**35,-**
RB-I301-E	Leak detection sensor for J2FVG-E model type consoles	**255,-**
TCB-IFCB5-PE	External on/off PCB, window contact module	**80,-**
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units	**95,-**

Cassette

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UM21P-E	Panel WHITE for 60x60 slim cassette	**410,-**
RBC-UM21PB-E	Panel BLACK for 60x60 slim cassette	**430,-**
RBC-UY32P-E	Panel for small chassis (990 mm)	**555,-**
RBC-UY42P-E	Panel for big chassis (1180 mm)	**580,-**
RBC-ASCU32Y-E	Compact wired remote control with sensor buttons	**100,-**
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AMSU52-E	Wired comfort remote control PLUS	**205,-**
RBC-AWSU52-E	Wired comfort remote control PLUS BT	**225,-**
RBC-AXU31UMP-E	Infrared remote control + receiver kit WHITE for installation in 60x60 slim cassette	**170,-**
RBC-AXU31UMPB-E	Infrared remote control + receiver kit BLACK for installation in 60x60 slim cassette	**190,-**
RBC-AX33UYP-E	Infrared remote control + receiver kit for installation in 1-way cassette	**80,-**
BMS-IWF0010UCP-E	WiFi 1:1 interface for mobile control via smartphone or tablet	**180,-**
TCB-EAPC1UYHP-E	PURE Plasmafilter Kit for 1-way FLAT cassette	**300,-**
TCB-SIR41UMP-E	Occupancy sensor kit WHITE for installation in 60x60 slim cassette	**120,-**
TCB-SIR41UYP-E	Occupancy sensor kit for installation in 1-way FLAT cassette	**120,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**
TCB-IFCB5-PE	External on/off PCB, window contact module	**80,-**
TCB-PX40MUME	Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette	**135,-**

Duct unit

ACCESSORIES	DESCRIPTION	PRICE €
RB-RWS21-E	Wired remote control with weekly timer	**330,-**
AP-IR-WIFI-5	WiFi module to control all functions of an indoor unit using an app on a cell phone	**330,-**
TCB-DUCEX10M	Extension cable for infrared receiver kit 10 m	**120,-**
43H80030	Air filter for model sizes 10 + 13 (for service replacement)	**120,-**
43H80038	Rail for model sizes 10 + 13 (for initial equipment)	**75,-**
43H80036	Air filter for model size 16 (for service replacement)	**135,-**
43H80039	Rail for model size 16 (for initial equipment)	**75,-**
43H80037	Air filter for model sizes 22 + 24 (for service replacement)	**145,-**
43H80040	Rail for model sizes 22 + 24 (for initial equipment)	**90,-**
TCB-IFCB5-PE	External on/off PCB, window contact module	**80,-**

RAS Control Options

	TYPE / DESCRIPTION	PRICE €
	**RB-RXS33-E** Infrared remote control including weekly timer and 8°C frost protection function • for single + multi • Comfort functions: Weekly timer, one touch, eco mode, comfort sleep, Hi Power, power select, 8°C frost protection • Cable connection option for SHORAI EDGE and HAORI	**105,-**
	**RB-RXS34-E** Design infrared remote control, black, with magnetic holder	**120,-**
	**RB-RWS21-E** Wired remote control with weekly timer • with large backlit display • for RAS duct units • Comfort functions: Weekly timer, quiet mode, eco mode, HI POWER	**330,-**
	**TCB-IFCB5-PE** External on/off PCB, window contact module • Potential-free contact for on/off and window contact input. • Remote ON/OFF function	**80,-**
	TCB-PX100-PE Casing for outdoor installation of window contact module for high-wall units	**95,-**
	TCB-PX40MUME Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette	**135,-**
	**AP-IR-WIFI-5** WiFi module to control all functions of an indoor unit using an app on a cell phone • Temperature and humidity alarm configurable • Compatible with all indoor units that have a standard infrared remote control • WLAN and internet access required • Free app for iOS or Android • Not a stock item - lead time on request • for RAS duct units	**330,-**
	**BMS-IWF0010UCP-E** WiFi 1:1 interface for mobile control via smartphone or tablet • WiFi 1:1 interface for mobile control via smartphone or tablet • Compatible with all RAV-/VRF-indoor units that have an A/B remote control bus • Compatible with RAS 1-way FLAT cassette und 60x60 SLIM cassette S4MUVG-E (no groups) • Controls all main functions of an indoor unit or a group of up to 16 indoor units • Energy monitoring (for RAS 4-/1-way cassette, RAV DI-Classic, DI, DI-BIG, SDI 1-Ph/230V) • Read out of error codes possible • Internet/intranet access required • Free app for iOS (from 9.0) or Android (from 5.0)	**180,-**
	**RB-N105S-G** TOSHIBA Home AC control - wireless WiFi control / Seiya Classic 2, Seiya • WLAN and internet access required • TOSHIBA cloud, free app for iOS or Android • Voice Control via Google Assistant/Amazon Alexa	**115,-**
	**RB-N106S-G** TOSHIBA Home AC Control - WiFi control with cable / console • WLAN and internet access required • TOSHIBA cloud; free app for iOS or Android • Voice Control via Google Assistant/Amazon Alexa	**120,-**
	**TCB-SSRL011UUP-E** Interface for incorporating RAS indoor units into central control systems and BMS systems. • For the 1:1 integration of an RAS indoor unit into a VRF control system • Control of all indoor unit functions with current BMS/central remote controllers • Compatible with TCC and TU2C link system bus (Uh or U3/U4) • Compatible with current SEIYA, HAORI, SHORAI, DAISEIKAI, CONSOLE indoor units (UART)	**230,-**



EFFICIENT HEATING WITH AN AIR-TO-WATER HEAT PUMP

ESTIA – AIR-TO-WATER HEAT PUMP

- Low investment, installation costs, and operating costs
- Reliable heating to -25°C outdoor air temperature

OUTDOOR UNITS	The compressor raises the temperature of the outdoor air to a higher level and transfers the energy thereby obtained to the Hydrobox.	R32	Page 49–53
HYDROBOX	In the Hydrobox, the heat is transferred with minimal heat loss to the heating system via a plate heat exchanger.	R32	Page 38
ALL-IN-ONE INDOOR UNIT	The all-in-one indoor unit brings together the Hydrobox and hot water tank into a single unit with a minimal footprint.	R32	Page 39
HOT WATER TANK	This is where the hot water is stored before use. The insulated tank is made from stainless steel, which minimizes heat losses and is very durable.		Page 55
DOMESTIC HOT WATER HEAT PUMP	The compact domestic hot water heat pump is installed indoors and provides a space-saving solution for preparing and storing hot water.	NEW	Page 56
ACCESSORIES	Whether an additional room remote control, WiFi interface, or connection to bus systems: the ESTIA range satisfies every desire for convenient external control options.		Page 57

ESTiA

ESTIA PRODUCT OVERVIEW

Heating capacity (kW)	4	6
ESTIA **Hydrobox – Compact** 1/2 zones R32	1-phase  Page 48 OU: HWT-401HW-E IU: HWT-601XWHM3W-E HWT-601XWHT6W-E	1-phase  Page 50 OU: HWT-601HW-E IU: HWT-601XWHM3W-E HWT-601XWHT6W-E
ESTIA **All-in-One** 1 zone R32	1-phase  Page 49 OU: HWT-401HW-E IU: HWT-602S21SM3W-E HWT-602S21ST6W-E	1-phase  Page 51 OU: HWT-601HW-E IU: HWT-602S21SM3W-E HWT-602S21ST6W-E
ESTIA **All-in-One** 2 zones R32		

	8	11	14
	1-phase / 3-phase  Page 52 OU: HWT-801HW-E HWT-801H8W-E IU: HWT-1101XWHT6W-E HWT-1101XWHT9W-E	1-phase / 3-phase  Page 54 OU: HWT-1101HW-E HWT-1101H8W-E IU: HWT-1101XWHT6W-E HWT-1101XWHT9W-E	1-phase / 3-phase  Page 56 OU: HWT-1401HW-E HWT-1401H8W-E IU: HWT-1401XWHT9W-E
	1-phase / 3-phase  Page 53 OU: HWT-801HW-E HWT-801H8W-E IU: HWT-1102S21ST9W-E	1-phase / 3-phase  Page 55 OU: HWT-1101HW-E HWT-1101H8W-E IU: HWT-1102S21ST9W-E	1-phase / 3-phase  Page 57 OU: HWT-1401HW-E HWT-1401H8W-E IU: HWT-1402S21ST9W-E
	1-phase / 3-phase  Page 53 OU: HWT-801HW-E HWT-801H8W-E IU: HWT-1102S21MT9W-E	1-phase / 3-phase  Page 55 OU: HWT-1101HW-E HWT-1101H8W-E IU: HWT-1102S21MT9W-E	1-phase / 3-phase  Page 57 OU: HWT-1401HW-E HWT-1401H8W-E IU: HWT-1402S21MT9W-E

ESTIA 4 kW Hydrobox / Set

- Set consisting of outdoor unit and Hydrobox Compact
- A+++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



			Hydrobox Compact
			1-phase
OUTDOOR UNIT			**HWT-401HW-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	4,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	4,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	0,79 - 7,25
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	5,20
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,45
Energy efficiency class		☀	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	178 / 135
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,53 / 3,45
COP			4,30
Sound power level (ERP)	dB(A)	☀	66
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	71 /7,25
Sound power level (max.)	dB(A)	❄	65
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	54 /2,85
Sound power level (night operation)	dB(A)	❄	55
Sound pressure level (Rated, 1m)	dB(A)	☀	45
Sound pressure level (Rated, 1m)	dB(A)	❄	46
Sound pressure level (night operation, @ 1m)	dB(A)	☀	40
Sound pressure level (night operation, @ 1m)	dB(A)	❄	41
Outdoor temperature operating range (min.-max.)	°C	☀	-20 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50
Recommended fusing	A		16
Refrigerant			R32
Dimensions (HxWxD)	mm		630 x 800 x 300
Price	**€**		**1.890,-**

INDOOR UNIT			**HWT-601XWHM3W-E**	**HWT-601XWHT6W-E**
Supply water temperature (min.-max.)	°C	☀	20/55	20/55
Supply water temperature (min.-max.)	°C	❄	7/25	7/25
Backup heater, capacity	kW		3	6
Water flow rate (min.)	m³/h		0,66	0,66
Water pump, discharge head (max.)	m		7,2	7,2
Sound power level	dB(A)	☀	40	40
Sound power level	dB(A)	❄	40	40
Dimensions (HxWxD)	mm		720 x 450 x 235	720 x 450 x 235
Price	**€**		**3.550,-**	**3.690,-**

ESTIA 4 kW AIO / Set

- Set consisting of outdoor unit and all-in-one indoor unit
- A+++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



			All-in-One
			1-phase
OUTDOOR UNIT			**HWT-401HW-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	4,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	4,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	0,79 - 7,25
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	5,20
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,45
Energy efficiency class		☀	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	178 / 135
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,53 / 3,45
COP			4,30
Sound power level (ERP)	dB(A)	☀	66
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	71 /7,25
Sound power level (max.)	dB(A)	❄	65
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	54 /2,85
Sound power level (night operation)	dB(A)	❄	55
Sound pressure level (Rated, 1m)	dB(A)	☀	45
Sound pressure level (Rated, 1m)	dB(A)	❄	46
Sound pressure level (night operation, @ 1m)	dB(A)	☀	40
Sound pressure level (night operation, @ 1m)	dB(A)	❄	41
Outdoor temperature operating range (min.-max.)	°C	☀	-20 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50
Recommended fusing	A		16
Refrigerant			R32
Dimensions (HxWxD)	mm		630 x 800 x 300
Price	**€**		**1.890,-**

			1 zone	1 zone
INDOOR UNIT			**HWT-602S21SM3W-E**	**HWT-602S21ST6W-E**
Tank volume	l		210	210
Supply water temperature (min.-max.)	°C	☀	20/55	20/55
Supply water temperature (min.-max.)	°C	❄	7/25	7/25
Backup heater, capacity	kW		3	6
Water flow rate (min.)	m³/h		0,66	0,66
Water pump, discharge head (max.)	m		7,2	7,2
Sound power level	dB(A)	☀ / ❄	40 / 40	40 / 40
Dimensions (HxWxD)	mm		1700 x 595 x 670	1700 x 595 x 670
Price	**€**		**6.900,-**	**6.950,-**

ESTIA 6 kW Hydrobox / Set

- Set consisting of outdoor unit and Hydrobox Compact
- A+++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



			Hydrobox Compact
			1-phase
OUTDOOR UNIT			**HWT-601HW-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	6,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	5,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	0,80 - 7,25
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,80
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,30
Energy efficiency class		☀	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	180 / 132
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,58 / 3,37
COP			4,30
Sound power level (ERP)	dB(A)	☀	66
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	71 /7,25
Sound power level (max.)	dB(A)	❄	65
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	58 /4,29
Sound power level (night operation)	dB(A)	❄	57
Sound pressure level (Rated, 1m)	dB(A)	☀	46
Sound pressure level (Rated, 1m)	dB(A)	❄	46
Sound pressure level (night operation, @ 1m)	dB(A)	☀	42
Sound pressure level (night operation, @ 1m)	dB(A)	❄	41
Outdoor temperature operating range (min.-max.)	°C	☀	-20 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50
Recommended fusing	A		16
Refrigerant			R32
Dimensions (HxWxD)	mm		630 x 800 x 300
Price	**€**		**2.100,-**

INDOOR UNIT			**HWT-601XWHM3W-E**	**HWT-601XWHT6W-E**
Supply water temperature (min.-max.)	°C	☀	20/55	20/55
Supply water temperature (min.-max.)	°C	❄	7/25	7/25
Backup heater, capacity	kW		3	6
Water flow rate (min.)	m³/h		0,66	0,66
Water pump, discharge head (max.)	m		7,2	7,2
Sound power level	dB(A)	☀ / ❄	40 / 40	40 / 40
Dimensions (HxWxD)	mm		725 x 450 x 235	725 x 450 x 235
Price	**€**		**3.550,-**	**3.690,-**

ESTIA 6 kW AIO / Set

- Set consisting of outdoor unit and all-in-one indoor unit
- A+++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



			All-in-One
			1-phase
OUTDOOR UNIT			**HWT-601HW-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	6,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	5,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	0,80 - 7,25
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,80
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,30
Energy efficiency class		☀	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	180 / 132
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,58 / 3,37
COP			4,30
Sound power level (ERP)	dB(A)	☀	66
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	71 /7,25
Sound power level (max.)	dB(A)	❄	65
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	58 /4,29
Sound power level (night operation)	dB(A)	❄	57
Sound pressure level (Rated, 1m)	dB(A)	☀	46
Sound pressure level (Rated, 1m)	dB(A)	❄	46
Sound pressure level (night operation, @ 1m)	dB(A)	☀	42
Sound pressure level (night operation, @ 1m)	dB(A)	❄	41
Outdoor temperature operating range (min.-max.)	°C	☀	-20 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50
Recommended fusing	A		16
Refrigerant			R32
Dimensions (HxWxD)	mm		630 x 800 x 300
Price	**€**		**2.100,-**

			1 zone	1 zone
INDOOR UNIT			**HWT-602S21SM3W-E**	**HWT-602S21ST6W-E**
Tank volume	l		210	210
Supply water temperature (min.-max.)	°C	☀	20/55	20/55
Supply water temperature (min.-max.)	°C	❄	7/25	7/25
Backup heater, capacity	kW		3	6
Water flow rate (min.)	m³/h		0,66	0,66
Water pump, discharge head (max.)	m		7,2	7,2
Sound power level	dB(A)	☀ / ❄	40 / 40	40 / 40
Dimensions (HxWxD)	mm		1700 x 595 x 670	1700 x 595 x 670
Price	**€**		**6.900,-**	**6.950,-**

ESTIA 8 kW Hydrobox / Set

- Set consisting of outdoor unit and Hydrobox Compact
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



			Hydrobox Compact	Hydrobox Compact
			1-phase	3-phase
OUTDOOR UNIT			**HWT-801HW-E**	**HWT-801H8W-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	8,00	8,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	6,00	6,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	1,01 - 11,90	2,65 - 12,27
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	5,19	5,06
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,20	2,83
Energy efficiency class		☀	A+++	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	182 / 142	177 / 140
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,63 / 3,63	4,51 / 3,59
COP			4,40	-
Sound power level (ERP)	dB(A)	☀	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	71 /11,90	71 /12,27
Sound power level (max.)	dB(A)	❄	66	66
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	58 /5,93	61 /5,93
Sound power level (night operation)	dB(A)	❄	59	61
Sound pressure level (Rated, 1m)	dB(A)	☀	51	50
Sound pressure level (Rated, 1m)	dB(A)	❄	50	53
Sound pressure level (night operation, @ 1m)	dB(A)	☀	46	49
Sound pressure level (night operation, @ 1m)	dB(A)	❄	47	48
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
Price	**€**		**3.700,-**	**4.900,-**

INDOOR UNIT			**HWT-1101XWHT6W-E**	**HWT-1101XWHT9W-E**	**HWT-1101XWHT6W-E**	**HWT-1101XWHT9W-E**
Supply water temperature (min.-max.)	°C	☀	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25	7/25
Backup heater, capacity	kW		6	9	6	9
Water flow rate (min.)	m³/h		0,78	0,78	0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2	7,2	7,2
Sound power level	dB(A)	☀ / ❄	38 / 38	38 / 38	40 / 40	40 / 40
Dimensions (HxWxD)	mm		720 x 450 x 235	720 x 450 x 235	725 x 450 x 235	725 x 450 x 235
Price	**€**		**4.190,-**	**4.400,-**	**4.190,-**	**4.400,-**

ESTIA 8 kW AIO / Set

- Set consisting of outdoor unit and all-in-one indoor unit
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



			All-in-One	All-in-One
			1-phase	3-phase
OUTDOOR UNIT			**HWT-801HW-E**	**HWT-801H8W-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	8,00	8,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	6,00	6,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	1,01 - 11,90	2,65 - 12,27
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	5,19	5,06
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,20	2,83
Energy efficiency class		☀	A+++	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	182 / 142	177 / 140
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,63 / 3,63	4,51 / 3,59
COP			4,40	-
Sound power level (ERP)	dB(A)	☀	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	71 /11,90	71 /12,27
Sound power level (max.)	dB(A)	❄	66	66
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	58 /5,93	61 /5,93
Sound power level (night operation)	dB(A)	❄	59	61
Sound pressure level (Rated, 1m)	dB(A)	☀	51	50
Sound pressure level (Rated, 1m)	dB(A)	❄	50	53
Sound pressure level (night operation, @ 1m)	dB(A)	☀	46	49
Sound pressure level (night operation, @ 1m)	dB(A)	❄	47	48
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
Price	**€**		**3.700,-**	**4.900,-**

			1 zone	2 zones	1 zone	2 zones
INDOOR UNIT			**HWT-1102S21ST9W-E**	**HWT-1102S21MT9W-E**	**HWT-1102S21ST9W-E**	**HWT-1102S21MT9W-E**
Tank volume	l		210	210	210	210
Supply water temperature (min.-max.)	°C	☀	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25	7/25
Backup heater, capacity	kW		9	9	9	9
Water flow rate (min.)	m³/h		0,78	0,78	0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2	7,2	7,2
Sound power level	dB(A)	☀ / ❄	40 / 40	45 / 45	40 / 40	45 / 45
Dimensions (HxWxD)	mm		1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670
Price	**€**		**6.990,-**	**7.800,-**	**6.990,-**	**7.800,-**

ESTIA 11 kW
Hydrobox / Set

- Set consisting of outdoor unit and Hydrobox Compact
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



			Hydrobox Compact	Hydrobox Compact
			1-phase	3-phase
OUTDOOR UNIT			**HWT-1101HW-E**	**HWT-1101H8W-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	11,00	11,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	8,00	8,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	1,01 - 13,24	2,58 - 15,50
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,60	4,74
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,80	2,62
Energy efficiency class		☀	A+++	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	179 / 142	179 / 138
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,55 / 3,62	4,56 / 3,52
COP			4,30	-
Sound power level (ERP)	dB(A)	☀	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	72 /13,24	72 /15,50
Sound power level (max.)	dB(A)	❄	67	67
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	62 /8,28	61 /8,28
Sound power level (night operation)	dB(A)	❄	60	62
Sound pressure level (Rated, 1m)	dB(A)	☀	51	58
Sound pressure level (Rated, 1m)	dB(A)	❄	51	54
Sound pressure level (night operation, @ 1m)	dB(A)	☀	49	49
Sound pressure level (night operation, @ 1m)	dB(A)	❄	47	49
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
Price	**€**		**4.120,-**	**5.500,-**

INDOOR UNIT			**HWT-1101XWHT6W-E**	**HWT-1101XWHT9W-E**	**HWT-1101XWHT6W-E**	**HWT-1101XWHT9W-E**
Supply water temperature (min.-max.)	°C	☀	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25	7/25
Backup heater, capacity	kW		6	9	6	9
Water flow rate (min.)	m³/h		0,78	0,78	0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2	7,2	7,2
Sound power level	dB(A)	☀ / ❄	38 / 38	38 / 38	38 / 38	38 / 38
Dimensions (HxWxD)	mm		725 x 450 x 235	725 x 450 x 235	725 x 450 x 235	725 x 450 x 235
Price	**€**		**4.190,-**	**4.400,-**	**4.190,-**	**4.400,-**

ESTIA 11 kW
AIO / Set

- Set consisting of outdoor unit and all-in-one indoor unit
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



			All-in-One	All-in-One
			1-phase	3-phase
OUTDOOR UNIT			**HWT-1101HW-E**	**HWT-1101H8W-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	11,00	11,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	8,00	8,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	1,01 - 13,24	2,58 - 15,50
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,60	4,74
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,80	2,62
Energy efficiency class		☀	A+++	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	179 / 142	179 / 138
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,55 / 3,62	4,56 / 3,52
COP			4,30	-
Sound power level (ERP)	dB(A)	☀	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	72 /13,24	72 /15,50
Sound power level (max.)	dB(A)	❄	67	67
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	62 /8,28	61 /8,28
Sound power level (night operation)	dB(A)	❄	60	62
Sound pressure level (Rated, 1m)	dB(A)	☀	51	58
Sound pressure level (Rated, 1m)	dB(A)	❄	51	54
Sound pressure level (night operation, @ 1m)	dB(A)	☀	49	49
Sound pressure level (night operation, @ 1m)	dB(A)	❄	47	49
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
Price	**€**		**4.120,-**	**5.500,-**

			1 zone	2 zones	1 zone	2 zones
INDOOR UNIT			**HWT-1102S21ST9W-E**	**HWT-1102S21MT9W-E**	**HWT-1102S21ST9W-E**	**HWT-1102S21MT9W-E**
Tank volume	l		210	210	210	210
Supply water temperature (min.-max.)	°C	☀	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25	7/25
Backup heater, capacity	kW		9	9	9	9
Water flow rate (min.)	m³/h		0,78	0,78	0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2	7,2	7,2
Sound power level	dB(A)	☀ / ❄	40 / 40	45 / 45	40 / 40	45 / 45
Dimensions (HxWxD)	mm		1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670
Price	**€**		**6.990,-**	**7.800,-**	**6.990,-**	**7.800,-**

ESTIA 14 kW
Hydrobox / Set

- Set consisting of outdoor unit and Hydrobox Compact
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



			Hydrobox Compact	Hydrobox Compact
			1-phase	3-phase
OUTDOOR UNIT			**HWT-1401HW-E**	**HWT-1401H8W-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	14,00	14,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	10,00	10,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	2,44 - 18,39	2,55 - 18,39
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,60	4,60
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,45	2,45
Energy efficiency class		☀	A+++	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	183 / 138	180 / 139
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,65 / 3,53	4,57 / 3,55
COP			-	-
Sound power level (ERP)	dB(A)	☀	69	69
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	72 /18,39	72 /18,39
Sound power level (max.)	dB(A)	❄	70	70
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	62 /11,12	62 /11,12
Sound power level (night operation)	dB(A)	❄	63	63
Sound pressure level (Rated, 1m)	dB(A)	☀	59	59
Sound pressure level (Rated, 1m)	dB(A)	❄	59	59
Sound pressure level (night operation, @ 1m)	dB(A)	☀	50	50
Sound pressure level (night operation, @ 1m)	dB(A)	❄	51	51
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
Price	**€**		**5.510,-**	**7.010,-**

INDOOR UNIT			**HWT-1401XWHT9W-E**	**HWT-1401XWHT9W-E**
Supply water temperature (min.-max.)	°C	☀	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25
Backup heater, capacity	kW		9	9
Water flow rate (min.)	m³/h		0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2
Sound power level	dB(A)	☀ / ❄	40 / 40	40 / 40
Dimensions (HxWxD)	mm		725 x 450 x 235	725 x 450 x 235
Price	**€**		**5.180,-**	**5.180,-**

ESTIA 14 kW
AIO / Set

- Set consisting of outdoor unit and all-in-one indoor unit
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



			All-in-One	All-in-One
			1-phase	3-phase
OUTDOOR UNIT			**HWT-1401HW-E**	**HWT-1401H8W-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	14,00	14,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	10,00	10,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	2,44 - 18,39	2,55 - 18,39
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,60	4,60
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,45	2,45
Energy efficiency class		☀	A+++	A+++
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	183 / 138	180 / 139
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,65 / 3,57	4,57 / 3,55
COP			-	-
Sound power level (ERP)	dB(A)	☀	69	69
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	72 /18,39	72 /18,39
Sound power level (max.)	dB(A)	❄	70	70
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	62 /11,12	62 /11,12
Sound power level (night operation)	dB(A)	❄	63	63
Sound pressure level (Rated, 1m)	dB(A)	☀	59	59
Sound pressure level (Rated, 1m)	dB(A)	❄	59	59
Sound pressure level (night operation, @ 1m)	dB(A)	☀	50	50
Sound pressure level (night operation, @ 1m)	dB(A)	❄	51	51
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		20	3x 16
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
Price	**€**		**5.510,-**	**7.010,-**

			1 zone	2 zones	1 zone	2 zones
INDOOR UNIT			**HWT-1402S21ST9W-E**	**HWT-1402S21MT9W-E**	**HWT-1402S21ST9W-E**	**HWT-1402S21MT9W-E**
Tank volume	l		210	210	210	210
Supply water temperature (min.-max.)	°C	☀	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25	7/25
Backup heater, capacity	kW		9	9	9	9
Water flow rate (min.)	m³/h		0,78	0,78	0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2	7,2	7,2
Sound power level	dB(A)	☀ / ❄	42 / 42	46 / 46	42 / 42	46 / 46
Dimensions (HxWxD)	mm		1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670
Price	**€**		**7.700,-**	**8.500,-**	**7.700,-**	**8.500,-**

ESTIA Warranty

TOSHIBA represents outstanding quality, as demonstrated by the excellent levels of efficiency. For the ESTIA, TOSHIBA offers a 5-year warranty for the unit's key component – the compressor.

5-YEAR COMPRESSOR WARRANTY

You automatically receive a 5-year warranty on the ESTIA compressor.

EXTENDED WARRANTY

An extended warranty of 4 or 5 years is also possible for all other components.

5 years warranty compressors



ESTIA 4 kW outdoor unit

- Outdoor unit, for combining with Hydrobox Compact or all-in-one indoor unit
- Compact & efficient – very quiet in silent mode / night operation mode
- A+++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C



			Compact - 1-phase
OUTDOOR UNIT			**HWT-401HW-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	4,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	0,79 - 7,25
Power consumption @ A+7/W+35 (nom.)	kW	☀	0,77
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	5,20
Heating capacity @ A+2/W+35 (max.)	kW	☀	6,42
Power consumption @ A+2/W+35 (max.)	kW	☀	1,52
Energy efficiency COP @ A+2/W+35 (max.)	W/W	☀	4,22
Heating capacity @ A-7/W+35 (max.)	W/W	☀	4,80
Energy efficiency class		☀	A+++
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	4,00
Power consumption @ A+35/W+7 (nom.)	kW	❄	1,16
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,45
Energy efficiency class		❄	-
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	178 / 135
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,53 / 3,45
COP			4,30
Sound power level (ERP)	dB(A)	☀	66
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	71 /7,25
Sound power level (max.)	dB(A)	❄	65
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	54 /2,85
Sound power level (night operation)	dB(A)	❄	55
Sound pressure level (Rated, 1m)	dB(A)	☀	45
Sound pressure level (Rated, 1m)	dB(A)	❄	46
Sound pressure level (night operation, @ 1m)	dB(A)	☀	40
Power supply	V/Ph+N/Hz		220-240/1+N/50
Running current (max.)	A		14,60
Starting current	A		Softstart
Recommended fusing	A		16
Outdoor temperature operating range (min.-max.)	°C	☀	-20 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Liquid pipe diameter	mm (inch)		6,3 (¼)
Suction gas pipe diameter	mm (inch)		12,7 (½)
Pipe length (min.)	m		5
Pipe length (max.)	m		30
Height difference (max.)	m		30
Refrigerant			R32
Refrigerant charge	kg		0,9
Dimensions (HxWxD)	mm		630 x 800 x 300
Weight	kg		42
Price	**€**		**1.890,-**

ESTIA 6 kW outdoor unit

- Outdoor unit, for combining with Hydrobox Compact or all-in-one indoor unit
- Compact & efficient – very quiet in silent mode / night operation mode
- A+++ in heating mode
- Supply water temperature up to +55°C
- Heating operation down to -20°C



			Compact - 1-phase
OUTDOOR UNIT			**HWT-601HW-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	6,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	0,80 - 7,25
Power consumption @ A+7/W+35 (nom.)	kW	☀	1,25
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,80
Heating capacity @ A+2/W+35 (max.)	kW	☀	6,42
Power consumption @ A+2/W+35 (max.)	kW	☀	1,52
Energy efficiency COP @ A+2/W+35 (max.)	W/W	☀	4,22
Heating capacity @ A-7/W+35 (max.)	W/W	☀	6,06
Energy efficiency class		☀	A+++
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	5,00
Power consumption @ A+35/W+7 (nom.)	kW	❄	1,52
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,30
Energy efficiency class		❄	-
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	180 / 132
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,58 / 3,37
COP			4,30
Sound power level (ERP)	dB(A)	☀	66
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	71 /7,25
Sound power level (max.)	dB(A)	❄	65
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	58 /4,29
Sound power level (night operation)	dB(A)	❄	57
Sound pressure level (Rated, 1m)	dB(A)	☀	46
Sound pressure level (Rated, 1m)	dB(A)	❄	46
Sound pressure level (night operation, @ 1m)	dB(A)	☀	42
Power supply	V/Ph+N/Hz		220-240/1+N/50
Running current (max.)	A		14,60
Starting current	A		Softstart
Recommended fusing	A		16
Outdoor temperature operating range (min.-max.)	°C	☀	-20 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Liquid pipe diameter	mm (inch)		6,3 (¼)
Suction gas pipe diameter	mm (inch)		12,7 (½)
Pipe length (min.)	m		5
Pipe length (max.)	m		30
Height difference (max.)	m		30
Refrigerant			R32
Refrigerant charge	kg		0,9
Dimensions (HxWxD)	mm		630 x 800 x 300
Weight	kg		42
Price	**€**		**2.100,-**

ESTIA 8 kW outdoor unit

- Outdoor unit, for combining with Hydrobox Compact or all-in-one indoor unit
- Compact & efficient – very quiet in silent mode / night operation mode
- Compressor with liquid injection
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C



			Compact - 1-phase	Compact - 3-phase
OUTDOOR UNIT			**HWT-801HW-E**	**HWT-801H8W-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	8,00	8,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	1,01 - 11,90	2,65 - 12,27
Power consumption @ A+7/W+35 (nom.)	kW	☀	1,54	1,55
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	5,19	5,06
Heating capacity @ A+2/W+35 (max.)	kW	☀	10,30	8,74
Power consumption @ A+2/W+35 (max.)	kW	☀	2,77	2,49
Energy efficiency COP @ A+2/W+35 (max.)	W/W	☀	3,72	3,51
Heating capacity @ A-7/W+35 (max.)	W/W	☀	8,11	7,39
Energy efficiency class		☀	A+++	A+++
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	6,00	6,00
Power consumption @ A+35/W+7 (nom.)	kW	❄	1,88	2,63
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,20	2,83
Energy efficiency class		❄	-	-
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	182 / 142	177 / 140
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,63 / 3,63	4,51 / 3,59
COP			4,40	-
Sound power level (ERP)	dB(A)	☀	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	71 /11,90	71 /12,27
Sound power level (max.)	dB(A)	❄	66	66
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	58 /5,93	61 /5,93
Sound power level (night operation)	dB(A)	❄	59	61
Sound pressure level (Rated, 1m)	dB(A)	☀	51	50
Sound pressure level (Rated, 1m)	dB(A)	❄	50	53
Sound pressure level (night operation, @ 1m)	dB(A)	☀	46	49
Power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Running current (max.)	A		19,98	3x 13
Starting current	A		Softstart	Softstart
Recommended fusing	A		20	3x 16
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)
Pipe length (min.)	m		5	5
Pipe length (max.)	m		30	25
Height difference (max.)	m		30	25
Refrigerant			R32	R32
Refrigerant charge	kg		1,25	1,30
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		75	92
Price	**€**		**3.700,-**	**4.900,-**

ESTIA 11 kW outdoor unit

- Outdoor units, for combining with Hydrobox or all-in-one indoor units
- Compact & efficient – very quiet in silent mode / night operation mode
- Compressor with liquid injection
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C



			Compact - 1-phase	Compact - 3-phase
OUTDOOR UNIT			**HWT-1101HW-E**	**HWT-1101H8W-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	11,00	11,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	1,01 - 13,24	2,58 - 15,50
Power consumption @ A+7/W+35 (nom.)	kW	☀	2,39	2,30
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,60	4,74
Heating capacity @ A+2/W+35 (max.)	kW	☀	11,46	13,58
Power consumption @ A+2/W+35 (max.)	kW	☀	3,24	3,57
Energy efficiency COP @ A+2/W+35 (max.)	W/W	☀	3,54	3,80
Heating capacity @ A-7/W+35 (max.)	W/W	☀	9,10	10,49
Energy efficiency class		☀	A+++	A+++
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	8,00	8,00
Power consumption @ A+35/W+7 (nom.)	kW	❄	2,86	2,88
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,80	2,62
Energy efficiency class		❄	-	-
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	179 / 142	179 / 138
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,55 / 3,62	4,56 / 3,52
COP			4,30	-
Sound power level (ERP)	dB(A)	☀	65	65
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	72 /13,24	72 /15,50
Sound power level (max.)	dB(A)	❄	67	67
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	62 /8,28	61 /8,28
Sound power level (night operation)	dB(A)	❄	60	62
Sound pressure level (Rated, 1m)	dB(A)	☀	51	58
Sound pressure level (Rated, 1m)	dB(A)	❄	51	54
Sound pressure level (night operation, @ 1m)	dB(A)	☀	49	49
Power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Running current (max.)	A		19,98	3x 13
Starting current	A		Softstart	Softstart
Recommended fusing	A		20	3x 16
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)
Pipe length (min.)	m		5	5
Pipe length (max.)	m		30	25
Height difference (max.)	m		30	25
Refrigerant			R32	R32
Refrigerant charge	kg		1,25	1,30
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		75	92
Price	**€**		**4.120,-**	**5.500,-**

ESTIA 14 kW outdoor unit

- Outdoor units, for combining with Hydrobox or all-in-one indoor units
- Compact & efficient – very quiet in silent mode / night operation mode
- Compressor with liquid injection
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C



			Compact - 1-phase	Compact 3-phase
OUTDOOR UNIT			**HWT-1401HW-E**	**HWT-1401H8W-E**
Heating capacity @ A+7/W+35 (nom.)	kW	☀	14,00	14,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	2,44 - 18,39	2,55 - 18,39
Power consumption @ A+7/W+35 (nom.)	kW	☀	3,04	3,04
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,60	4,60
Heating capacity @ A+2/W+35 (max.)	kW	☀	16,13	16,13
Power consumption @ A+2/W+35 (max.)	kW	☀	4,62	4,62
Energy efficiency COP @ A+2/W+35 (max.)	W/W	☀	3,49	3,49
Heating capacity @ A-7/W+35 (max.)	W/W	☀	13,05	10,19
Energy efficiency class		☀	A+++	A+++
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	10,00	10,00
Power consumption @ A+35/W+7 (nom.)	kW	❄	4,08	4,08
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,45	2,45
Energy efficiency class		❄	-	-
Seasonal energy efficiency ETAs - Average Climate, W+35/W+55	%	☀	183 / 138	180 / 139
Seasonal energy efficiency SCOP- Average Climate, W+35/W+55	W/W	☀	4,65 / 3,53	4,57 / 3,55
COP			-	-
Sound power level (ERP)	dB(A)	☀	69	69
Sound power level (max.) /Heating capacity	dB(A) /kW	☀	72 /18,39	72 /18,39
Sound power level (max.)	dB(A)	❄	70	70
Sound power level (night operation) /Heating capacity	dB(A) /kW	☀	62 /11,12	62 /11,12
Sound power level (night operation)	dB(A)	❄	63	63
Sound pressure level (Rated, 1m)	dB(A)	☀	59	59
Sound pressure level (Rated, 1m)	dB(A)	❄	59	59
Sound pressure level (night operation, @ 1m)	dB(A)	☀	50	50
Power supply	V/Ph+N/Hz		220-240/1+N/50	380-415/3+N/50
Running current (max.)	A		19,98	3x 13
Starting current	A		Softstart	Softstart
Recommended fusing	A		20	3x 16
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)
Pipe length (min.)	m		5	5
Pipe length (max.)	m		25	25
Height difference (max.)	m		25	25
Refrigerant			R32	R32
Refrigerant charge	kg		1,40	1,40
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		88	92
Price	**€**		**5.510,-**	**7.010,-**

ESTIA Hydrobox

- The renovation classic – Hydrobox Compact
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



			Compact				
INDOOR UNIT			**HWT-601XWHM3W-E**	**HWT-601XWHT6W-E**	**HWT-1101XWHT6W-E**	**HWT-1101XWHT9W-E**	**HWT-1401XWHT9W-E**
Supply water temperature (min.-max.)	°C	☀	20/55	20/55	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25	7/25	7/25
Compatible outdoor units			401/601	401/601	801/1101	801/1101	1401
Backup heater, capacity	kW		3	6	6	9	9
Backup heater, connection	Ph+N		220-240/1+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50
Backup heater, recommend fusing	A		16	2x 16	2x 16	3x 16	3x 16
Water flow rate (min.)	m³/h		0,66	0,66	0,78	0,78	0,78
Water pump, power consumption (max.)	kW		0,060	0,060	0,060	0,060	0,060
Water pump, discharge head (max.)	m		7,2	7,2	7,2	7,2	7,2
Water pump, energy efficiency class			EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20
Expansion vessel	l		8	8	8	8	8
Water connection (inlet/outlet)	Inch		1	1	1	1	1
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Suction gas pipe diameter	mm (inch)		12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Sound power level	dB(A)	☀	40	40	38	38	40
Sound power level	dB(A)	❄	40	40	38	38	40
Sound pressure level (low/med/high)	dB(A)	☀	28	28	28	28	29
Sound pressure level (low/med/high)	dB(A)	❄	28	28	28	28	29
Refrigerant			R32	R32	R32	R32	R32
Dimensions (HxWxD)	mm		720 x 450 x 235	720 x 450 x 235	720 x 450 x 235	720 x 450 x 235	725 x 450 x 235
Weight	kg		27	27	27	27	27
Price	**€**		**3.550,-**	**3.690,-**	**4.190,-**	**4.400,-**	**5.180,-**

ESTIA All-in-One

- Compact system with tank, perfect for new-builds
- A+++ in heating mode
- Supply water temperature up to +65°C
- Heating operation down to -25°C
- Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V

Series 2 features & enhancements:

- Light & durable stainless steel tank
- Recessed handles for ease of carrying
- Optional circulation kit
- All connections are threaded
- Optimized connecting terminal



			1 zone				2 zones	
INDOOR UNIT			**HWT-602S21SM3W-E**	**HWT-602S21ST6W-E**	**HWT-1102S21ST9W-E**	**HWT-1402S21ST9W-E**	**HWT-1102S21MT9W-E**	**HWT-1402S21MT9W-E**
Tank volume	l		210	210	210	210	210	210
Supply water temperature (min.-max.)	°C	☀	20/55	20/55	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25	7/25	7/25	7/25
Compatible outdoor units			401/601	401/601	801/1101	1401	801/1101	1401
Backup heater, capacity	kW		3	6	9	9	9	9
Backup heater, connection	Ph+N		220-240/1+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Backup heater, recommend fusing	A		16	2x 16	3x 16	3x 16	3x 16	3x 16
Water flow rate (min.)	m³/h		0,66	0,66	0,78	0,78	0,78	0,78
Water pump, power consumption (max.)	kW		0,060	0,060	0,060	0,060	0,060	0,060
Water pump, discharge head (max.)	m		7,2	7,2	7,2	7,2	7,2	7,2
Water pump, energy efficiency class			EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20
Expansion vessel	l		10	10	10	10	10	10
Water connection (inlet/outlet)	Inch		3/4	3/4	3/4	3/4	3/4	3/4
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Suction gas pipe diameter	mm (inch)		12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Sound power level	dB(A)	☀	40	40	40	42	45	46
Sound power level	dB(A)	❄	40	40	40	42	45	46
Sound pressure level (low/med/high)	dB(A)	☀	28	28	30	-	30	-
Sound pressure level (low/med/high)	dB(A)	❄	28	28	24	-	24	-
Refrigerant			R32	R32	R32	R32	R32	R32
Dimensions (HxWxD)	mm		1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670
Weight	kg		116	116	116	116	122	122
Price	**€**		**6.900,-**	**6.950,-**	**6.990,-**	**7.700,-**	**7.800,-**	**8.500,-**

ESTIA Hot Water Tank



- Manufactured from stainless steel for durability
- Not a stock item – lead time on request

INDOOR UNIT		**HWS-1501CSHM3-E**	**HWS-2101CSHM3-E**	**HWS-3001CSHM3-E**
Tank volume	l	150	210	300
Water temperature (max.)	°C	75	75	75
Backup heater, capacity	kW	2,75	2,75	2,75
Backup heater, connection	Ph+N	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Dimensions (HxØ)	mm	1090 x 550	1474 x 550	2040 x 550
Weight (dry/wet)	kg	31 / 181	41 / 251	60 / 360
Price	**€**	**1.700,-**	**2.050,-**	**2.500,-**

ESTIA domestic hot water heat pump



- Quiet, compact unit for indoor installation
- Efficient domestic hot water preparation up to +62°C
- Integrated 180 or 250 liter water tank
- 250 l version available with add-on heat exchanger for solar thermal energy
- Flexible connection options for supply and exhaust air

INDOOR UNIT		HWS-G1801CNHMV-E	HWS-G2501CNHMV-E	HWS-G2501ENHMV-E
Energy efficiency class		A+	A+	A+
Energy efficiency COP @ A+7/W+10 to +52.9 (EN16147)	W/W ☀	2,92	3,37	3,37
Air temperature operating range (min.-max.)	°C	-5 / +35	-5 / +35	-5 / +35
Heating-up time @ A+7/W+10 to +53.5 (EN16147)	hh:mm ☀	06:30	10:00	10:00
Tank volume	l	178	254	246
Water temperature, with backup heater (max.)	°C ☀	65,0	65,0	65,0
Water temperature, heat pump mode only (max.)	°C ☀	52,9	52,9	52,9
Corrosion protection		Magnesium anode	Magnesium anode	Magnesium anode
Sound power level, with air connections (ISO12102)	dB(A)	53	50	50
Sound pressure level, with air connections @ 2 m	dB(A)	35	32	32
Sound power level, without air connections (ISO12102)	dB(A)	64	64	64
Sound pressure level, without air connections @ 2 m	dB(A)	46	46	46
Airflow (min./nom./max.)	m³/h	250/--/320	331/--/375	331/--/375
External static pressure (max.)	Pa	100	100	100
Air connections diameter	mm	160	160	160
Room volume, without air connections (min.)	m³	20	20	20
Power consumption (max.)	W ☀	2,25	2,25	2,25
Backup heater, capacity	kW	1,50	1,50	1,50
Water connection (inlet/outlet)	Inch	3/4" - 3/4"	3/4" - 3/4"	3/4" - 3/4"
Condensate pipe diameter	mm	20	20	20
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	10	10	10
Required height for installation (min.)	mm	1850	2000	2000
Refrigerant		R1234-ze	R1234-ze	R1234-ze
Refrigerant charge	kg	1,15	1,35	1,35
CO2 equivalent	t	0,008	0,009	0,009
Dimensions (HxØ)	mm	1559 x 584	1780 x 634	1780 x 634
Weight (dry/wet)	kg	95/273	110/364	110/364
Price	**€**	**3.500,-**	**3.600,-**	**3.800,-**

ESTIA accessories



ESTIA R32

ACCESSORIES	DESCRIPTION	PRICE €
HWS-AMSU51-E	External control unit (wired)	**215,-**
HWS-IFAIP01U-E	0-10 volt interface, for external control via 0-10 volt signals	**360,-**
HWS-IWF0010UP-E	ESTIA R32 WiFi Adapter	**180,-**
95612037	Temperature sensor for locally provided hot water tank	**70,-**
BMS-IFKX0UEW-E	KNX® interface, integration in building control systems, group control for up to 8 units (R32)	**770,-**
BMS-IFMB0UEW-E	Modbus interface, integration in building control systems, group control for up to 8 units	**640,-**
HWS-CPR01W-E	Circulation pipe option-kit for All-in-One indoor unit	**660,-**



Current Consumption + Fusing

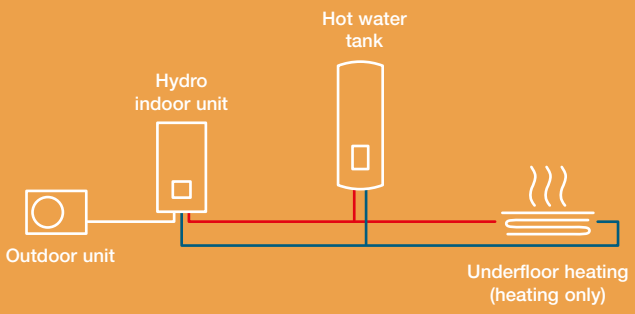
TYPE	Running current (max.)	Recommended fusing	Power supply	Recommended power supply line type	Communication line
	A	A	V/Ph+N/Hz		
ESTIA 4kW					
HWT-401HW-E	14,60	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
ESTIA 6kW					
HWT-601HW-E	14,60	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
ESTIA 8kW					
HWT-801HW-E	19,98	20	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
HWT-801H8W-E	3x 13	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
ESTIA 11kW					
HWT-1101HW-E	19,98	20	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
HWT-1101H8W-E	3x 13	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
ESTIA 14kW					
HWT-1401HW-E	19,98	20	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
HWT-1401H8W-E	3x 13	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5

Sound Power Level / Sound Pressure

TYPE	Sound power level (ERP)	Sound power level (max.) /Heating capacity	Sound power level (max.)	Sound pressure level (Rated, 1m)	Sound pressure level (Rated, 1m)	Sound power level (night operation) /Heating capacity	Sound power level (night operation)	Sound pressure level (night operation, @ 1m)	Sound pressure level (night operation, @ 1m)
	dB(A) ☀	dB(A) /kW ☀	dB(A) ❄	dB(A) ☀	dB(A) ❄	dB(A) /kW ☀	dB(A) ❄	dB(A) ☀	dB(A) ❄
ESTIA 4kW									
HWT-401HW-E	66	71 /7,25	65	45	46	54 /2,85	55	40	41
ESTIA 6kW									
HWT-601HW-E	66	71 /7,25	65	46	46	58 /4,29	57	42	41
ESTIA 8kW									
HWT-801HW-E	65	71 /11,90	66	51	50	58 /5,93	59	46	47
HWT-801H8W-E	65	71 /12,27	66	50	53	61 /5,93	61	49	48
ESTIA 11kW									
HWT-1101HW-E	65	72 /13,24	67	51	51	62 /8,28	60	49	47
HWT-1101H8W-E	65	72 /15,50	67	58	54	61 /8,28	62	49	49
ESTIA 14kW									
HWT-1401HW-E	69	72 /18,39	70	59	59	62 /11,12	63	50	51
HWT-1401H8W-E	69	72 /18,39	70	59	59	62 /11,12	63	50	51

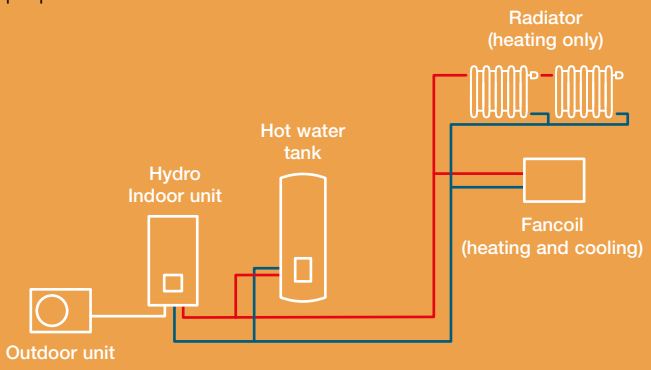
1 ZONE WITH HEATING FUNCTION

1 zone with heating function and hot water preparation



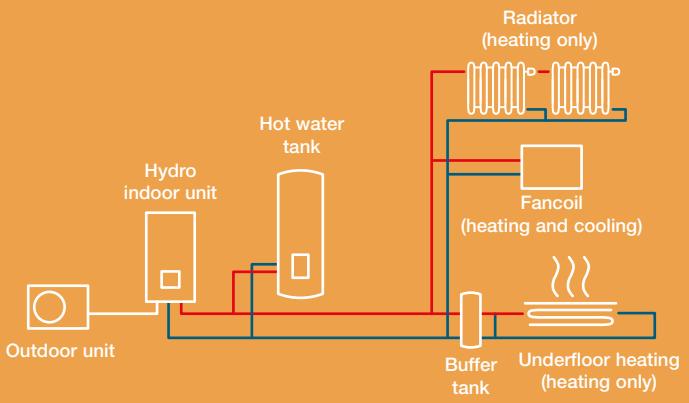
1 ZONE WITH HEATING AND COOLING FUNCTION

1 zone with heating and cooling function, plus hot water preparation



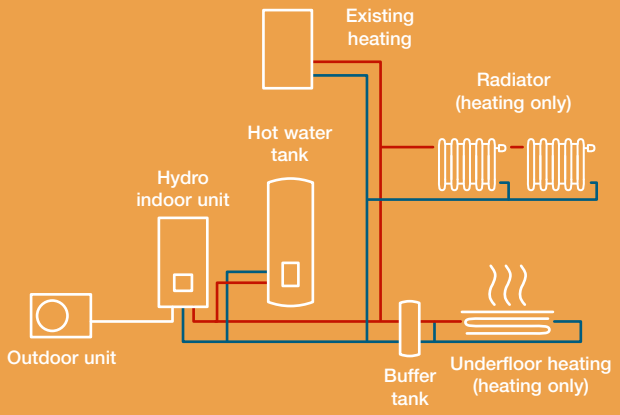
2 ZONES WITH COOLING FUNCTION

Typical application for a new building



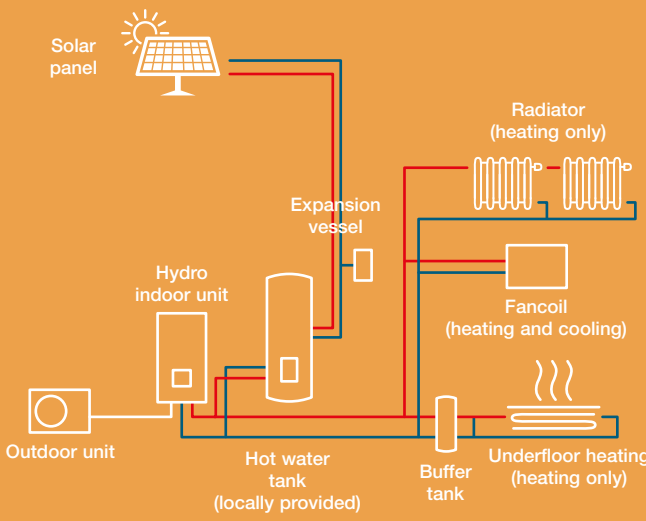
2 ZONES WITH EXISTING HEATING SYSTEM

Typical application for a building with existing heating system



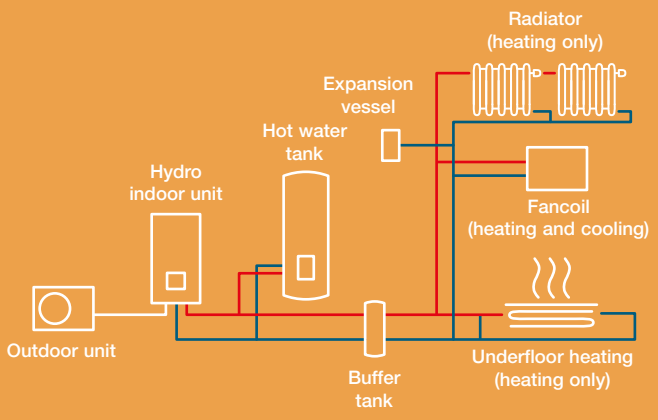
2 ZONES WITH SOLAR AND COOLING FUNCTION

Typical application for a new building



2 ZONES WITH BUFFER TANK AND COOLING FUNCTION

Typical application for a new building



PLEASE NOTE: The examples shown above are purely symbolic diagrams.



THE PERFORMANCE YOU NEED.
THE COMFORT YOU EXPECT.

OVERVIEW OF RAV OUTDOOR UNITS

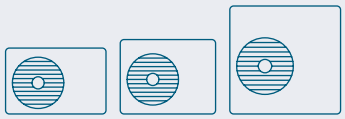
- Reliable & durable partners for all commercial sectors
- Efficiency up to A+++ for 24/7 usage
- Controlled locally, centrally, or via BMS



DIGITAL INVERTER CLASSIC (DI-C)

Cooling capacity (kW): 5.0 | 6.7 | 10.0 | 12.0 | 14.0

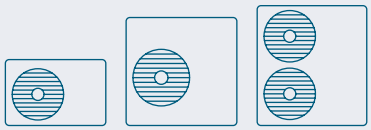
Page 96



DIGITAL INVERTER (DI)

Cooling capacity (kW): 2.5 | 3.6 | 5.0 | 6.7 | 8.0 | 10.0 | 12.0 | 14.0

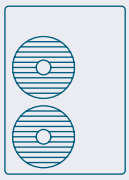
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SUPER DIGITAL INVERTER (SDI)

Cooling capacity (kW): 5.3 | 7.1 | 10.0 | 12.5 | 14.0

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DIGITAL INVERTER BIG SINGLE FAN (DI BIG) NEW

Cooling capacity (kW): 19.4 | 22.5

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OVERVIEW OF RAV INDOOR UNITS

HIGH-WALL UNITS



HIGH-WALL UNIT

Cooling capacity (kW): 2.5 | 3.6 | 5.0 | 6.7 | 8.0 | 9.5 | 10.0
DI-C, DI, SDI, DI BIG

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CEILING UNITS



CEILING UNIT

Cooling capacity (kW): 3.6 | 5.0 | 6.9 | 8.0 | 9.5 | 12.1 | 14.0
DI, SDI, DI BIG

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CASSETTE UNITS

60x60 SLIM CASSETTE

Cooling capacity (kW): 2.5 | 3.6 | 5.0
DI, SDI, DI BIG

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SMART CASSETTE

Cooling capacity (kW): 5.0 | 7.1 | 10.0 | 12.5
SDI

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4-WAY STANDARD CASSETTE

Cooling capacity (kW): 5.0 | 6.7 | 8.0 | 9.5 | 12.0 | 14.0
DI-C, DI, SDI, DI BIG

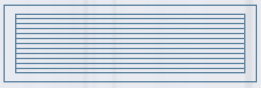
Page 74

1-WAY FLAT CASSETTE

Cooling capacity (kW): 2.5 | 3.6
DI

Page 80

DUCT UNITS



SLIM DUCT UNIT

Cooling capacity (kW): 2.5 | 3.6 | 5.0
DI, SDI, DI BIG

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STANDARD DUCT UNIT

Cooling capacity (kW): 5.0 | 6.7 | 8.0 | 9.5 | 12.1 | 14.0
DI-C, DI, SDI, DI BIG

Page 82

HIGH-PRESSURE DUCT UNIT

Cooling capacity (kW): 19.0 | 22.5
DI BIG

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FLOOR STANDING UNITS



FLOOR STANDING UNIT

Cooling capacity (kW): 5.0 | 6.7 | 9.5 | 12.1 | 14.0
DI, SDI

Page 89

SPECIAL SOLUTIONS



DIRECT EXPANSION KIT

Cooling capacity (kW): 3.0 – 27.0
DI, SDI, DI BIG

Page 92

AIR CURTAIN

Available upon request

Page 95

High-wall unit

- Combined with DI CLASSIC outdoor unit
- Compact allrounder for all uses
- Efficiency up to A++, COP up to 4.00
- Whisper-quiet 5-speed fan
- Special features for server rooms: backup/rotation function, free-cooling control



Digital Inverter CLASSIC – High-wall unit

			1-phase			3-phase
INDOOR UNIT OUTDOOR UNIT			**RAV-HM561KRTP-E RAV-GV561ATP-E**	**RAV-HM801KRTP-E RAV-GV801ATP-E**	**RAV-HM1101KRTP-E RAV-GV1101ATP-E**	**RAV-HM1101KRTP-E RAV-GV1101AT8P-E**
Cooling capacity	kW	❄	5,00	6,70	9,50	9,50
Cooling range (min.-max.)	kW	❄	1,50 - 5,60	1,50 - 8,00	3,00 - 10,60	3,00 - 11,20
Power consumption (min./nom./max.)	kW	❄	- /1,45/ -	- /2,20/ -	- /3,80/ -	- /3,40/ -
Energy efficiency EER	W/W	❄	3,45	3,05	2,50	2,79
Energy efficiency SEER		❄	6,20	5,75	6,00	3,10
Energy efficiency class		❄	A++	A+	A+	A++
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	5,30	7,00	10,00	10,00
Heating range (min.-max.)	kW	☀	1,50 - 6,30	1,50 - 9,00	3,00 - 13,00	3,00 - 13,00
Power consumption (min./nom./max.)	kW	☀	- /1,50/ -	- /2,20/ -	- /3,30/ -	- /3,20/ -
Energy efficiency COP	W/W	☀	3,53	3,18	3,03	3,13
Energy efficiency SCOP		☀	3,90	3,90	4,00	4,10
Energy efficiency class		☀	A	A	A+	A+
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		16	16	20	3x 16
Set price	**€**		**2.090,-**	**2.520,-**	**3.200,-**	**3.560,-**

INDOOR UNIT			**RAV-HM561KRTP-E**	**RAV-HM801KRTP-E**	**RAV-HM1101KRTP-E**	**RAV-HM1101KRTP-E**
Airflow	m³/h		680/ - /960	680/910/1040	1180/ - /1610	1180/ - /1610
Sound pressure level (low/med/high)	dB(A)	❄	35/39/42	35/41/45	41/45/49	41/45/49
Sound pressure level (low/med/high)	dB(A)	☀	35/39/42	35/41/45	41/45/49	41/45/49
Dimensions (HxWxD)	mm		320 x 1050 x 250	320 x 1050 x 250	350 x 1200 x 280	348 x 1200 x 280
Weight	kg		14	14	19	19
Price	**€**		**700,-**	**720,-**	**900,-**	**900,-**

OUTDOOR UNIT			**RAV-GV561ATP-E**	**RAV-GV801ATP-E**	**RAV-GV1101ATP-E**	**RAV-GV1101AT8P-E**
Sound pressure level (low/med/high)	dB(A)	❄	46	48	53	53
Sound pressure level (low/med/high)	dB(A)	☀	48	51	55	55
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5
Pipe length (max.)	m		30	30	30	30
Height difference (max.)	m		20	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32
Refrigerant charge	kg		0,90	1,40	1,70	1,70
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	710 x 900 x 320
Weight	kg		36	39	45	60
Price	**€**		**1.390,-**	**1.800,-**	**2.300,-**	**2.660,-**

ACCESSORIES	**DESCRIPTION**	**INCLUDED**	**PRICE €**
Remote control	Infrared remote control included	✔	
RBC-AMSU52-E	Wired comfort remote control PLUS		**205,-**

You will find all the control options from page 104 onwards.

High-wall unit

- Combined with DI outdoor unit
- Compact allrounder for all uses
- Efficiency up to A++, COP up to 4.00
- Whisper-quiet 5-speed fan
- Special features for server rooms: backup/rotation function, free-cooling control



Digital Inverter – High-wall unit

			1-phase						3-phase
INDOOR UNIT **OUTDOOR UNIT**			RAV-HM301KRTP-E RAV-GM302ATP-E	RAV-HM401KRTP-E RAV-GM402ATP-E	RAV-HM561KRTP-E RAV-GM562ATP-E	RAV-HM801KRTP-E RAV-GM802ATW-E	RAV-HM901KRTP-E RAV-GM902ATW-E	RAV-HM1101KRTP-E RAV-GM1102ATW-E	RAV-HM1101KRTP-E RAV-GM1102AT8W-E
Cooling capacity	kW	❄	2,50	3,60	5,00	6,70	8,00	9,50	9,50
Cooling range (min.-max.)	kW	❄	0,90 - 3,00	0,90 - 4,00	1,50 - 5,60	1,90 - 8,00	1,90 - 8,80	3,00 - 11,20	3,00 - 11,20
Power consumption (min./nom./max.)	kW	❄	0,17/0,61/ 0,86	0,18/1,13/ 2,00	0,30/1,66/ 1,86	0,31/2,06/ 2,86	0,31/2,67/ 3,16	0,63/2,96/ 3,95	0,67/2,95/ 3,91
Energy efficiency EER	W/W	❄	4,10	3,19	3,01	3,25	3,00	3,21	3,22
Energy efficiency SEER		❄	7,00	6,70	6,69	6,60	6,60	6,40	6,10
Energy efficiency class		❄	A++	A++	A++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	3,40	4,00	5,30	7,70	8,60	11,20	11,20
Heating range (min.-max.)	kW	☀	0,80 - 4,50	0,80 - 5,00	1,50 - 6,30	1,60 - 9,00	1,60 - 9,90	3,00 - 13,00	3,00 - 13,00
Power consumption (min./nom./max.)	kW	☀	0,17/0,85/ 1,40	0,14/1,12/ 1,70	0,30/1,55/ 2,40	0,38/2,30/ 3,04	0,38/2,61/ 3,27	0,73/3,44/ 4,33	0,77/3,38/ 4,29
Energy efficiency COP	W/W	☀	4,00	3,57	3,42	3,35	3,30	3,26	3,31
Energy efficiency SCOP		☀	4,12	4,24	4,02	4,05	4,10	4,20	4,20
Energy efficiency class		☀	A+	A+	A+	A+	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	380-415/3+N/ 50
Recommended fusing	A		10	10	16	16	16	25	3x 16
Set price	**€**		**1.870,-**	**2.190,-**	**2.550,-**	**3.170,-**	**3.480,-**	**4.200,-**	**4.680,-**

INDOOR UNIT			RAV-HM301KRTP-E	RAV-HM401KRTP-E	RAV-HM561KRTP-E	RAV-HM801KRTP-E	RAV-HM901KRTP-E	RAV-HM1101KRTP-E	RAV-HM1101KRTP-E
Airflow	m³/h		450/540/ 670	450/580/ 700	680/ - / 960	680/910/ 1040	680/ - / 1180	1180/ - / 1610	1180/ - / 1610
Sound pressure level (low/med/high)	dB(A)	❄	29/34/40	30/36/41	35/39/42	35/41/45	35/41/47	41/45/49	41/45/49
Sound pressure level (low/med/high)	dB(A)	☀	29/34/40	30/36/41	35/39/42	35/41/45	35/41/47	41/45/49	41/45/49
Dimensions (HxWxD)	mm		293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250	320 x 1050 x 250	350 x 1200 x 280	350 x 1200 x 280
Weight	kg		10	10	14	14	14	19	19
Price	**€**		**600,-**	**640,-**	**700,-**	**720,-**	**800,-**	**900,-**	**900,-**

OUTDOOR UNIT			RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1102AT8W-E
Sound pressure level (low/med/high)	dB(A)	❄	46	49	46	50	52	53	53
Sound pressure level (low/med/high)	dB(A)	☀	47	50	48	52	55	56	56
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		2	2	5	5	5	5	5
Pipe length (max.)	m		20	20	30	50	50	50	50
Height difference (max.)	m		10	10	30	30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,60	0,90	0,90	1,90	1,90	2,40	2,40
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		29	34	40	47	47	85	85
Price	**€**		**1.270,-**	**1.550,-**	**1.850,-**	**2.450,-**	**2.680,-**	**3.300,-**	**3.780,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	
RBC-AMSU52-E	Wired comfort remote control PLUS		**205,-**

You will find all the control options from page 104 onwards.

High-wall unit

- Combined with SDI outdoor unit
- Compact allrounder for all uses
- Efficiency up to A++, COP up to 4.00
- Whisper-quiet 5-speed fan



Super Digital Inverter – High-wall unit

			1-phase			3-phase
INDOOR UNIT **OUTDOOR UNIT**			**RAV-HM561KRTP-E** **RAV-GP561ATW-E**	**RAV-HM801KRTP-E** **RAV-GP801ATW-E**	**RAV-HM1101KRTP-E** **RAV-GP1101AT-E**	**RAV-HM1101KRTP-E** **RAV-GP1101AT8-E**
Cooling capacity	kW	❄	5,00	7,10	10,00	10,00
Cooling range (min.-max.)	kW	❄	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	2,60 -12,00
Power consumption (min./nom./max.)	kW	❄	0,19/1,43/1,98	0,26/2,06/3,17	0,55/2,77/3,90	- /2,86/ -
Energy efficiency EER	W/W	❄	3,50	3,45	3,61	3,50
Energy efficiency SEER		❄	7,84	7,56	7,36	6,53
Energy efficiency class		❄	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +52	-15 / +52	-15 / +52	-15 / +46
Heating capacity	kW	☀	5,60	8,00	11,20	11,20
Heating range (min.-max.)	kW	☀	0,90 - 7,30	1,30 - 11,30	2,60 - 13,00	2,40 - 13,00
Power consumption (min./nom./max.)	kW	☀	0,16/1,39/2,67	0,20/2,25/3,50	0,52/3,13/4,40	- /3,25/ -
Energy efficiency COP	W/W	☀	4,03	3,56	3,58	3,45
Energy efficiency SCOP		☀	4,19	4,16	4,42	4,22
Energy efficiency class		☀	A+	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C	☀	-27 / +15	-27/ +15	-27 / +15	-20/ +15
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	380-415/3+N/50
Recommended fusing	A		16	20	25	3x 16
Set price	**€**		**2.900,-**	**3.560,-**	**5.200,-**	**5.110,-**

INDOOR UNIT			**RAV-HM561KRTP-E**	**RAV-HM801KRTP-E**	**RAV-HM1101KRTP-E**	**RAV-HM1101KRTP-E**
Airflow	m³/h		680/ - /960	680/910/1040	1180/ - /1610	1180/ - /1610
Sound pressure level (low/med/high)	dB(A)	❄	35/39/42	35/41/45	41/45/49	41/45/49
Sound pressure level (low/med/high)	dB(A)	☀	35/39/42	35/41/45	41/45/49	41/45/49
Dimensions (HxWxD)	mm		320 x 1050 x 250	320 x 1050 x 250	350 x 1200 x 280	350 x 1200 x 280
Weight	kg		14	14	19	19
Price	**€**		**700,-**	**720,-**	**900,-**	**900,-**

OUTDOOR UNIT			**RAV-GP561ATW-E**	**RAV-GP801ATW-E**	**RAV-GP1101AT-E**	**RAV-GP1101AT8-E**
Sound pressure level (low/med/high)	dB(A)	❄	46	46	49	49
Sound pressure level (low/med/high)	dB(A)	☀	48	48	50	50
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5
Pipe length (max.)	m		50	50	75	75
Height difference (max.)	m		30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32
Refrigerant charge	kg		1,35	1,30	3,10	2,60
Dimensions (HxWxD)	mm		630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320
Weight	kg		45	74	104	95
Price	**€**		**2.200,-**	**2.840,-**	**4.300,-**	**4.210,-**

ACCESSORIES	**DESCRIPTION**	**INCLUDED**	**PRICE €**
Remote control	Infrared remote control included	✔	
RBC-AMSU52-E	Wired comfort remote control PLUS		**205,-**

You will find all the control options from page 104 onwards.

Ceiling unit



- Combined with DI outdoor unit
- Attractive design for optimum air distribution
- Efficiency up to A+++
- Large air throw distances
- Special features for server rooms: backup/rotation function, free-cooling control

Digital Inverter – 1-phase – Ceiling unit

INDOOR UNIT OUTDOOR UNIT			RAV-HM401CTP-E RAV-GM402ATP-E	RAV-HM561CTP-E RAV-GM562ATP-E	RAV-HM801CTP-E RAV-GM802ATW-E	RAV-HM901CTP-E RAV-GM902ATW-E	RAV-HM1101CTP-E RAV-GM1102ATW-E	RAV-HM1401CTP-E RAV-GM1402ATW-E	RAV-HM1601CTP-E RAV-GM1602ATW-E
Cooling capacity	kW	❄	3,60	5,00	6,90	8,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄	0,90 - 4,00	1,50 - 5,60	1,90 - 8,00	1,90 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄	0,18/0,83/ 2,00	0,29/1,61/ 1,95	0,30/2,06/ 2,66	0,30/2,38/ 2,75	0,58/2,59/ 3,29	0,58/4,01/ 4,39	0,58/5,04/ 6,12
Energy efficiency EER	W/W	❄	4,34	3,11	3,35	3,36	3,67	3,02	2,78
Energy efficiency SEER		❄	7,20	6,00	7,03	7,0	7,00	6,16	6,25
Energy efficiency class		❄	A++	A+	A++	A++	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	4,00	5,30	7,70	8,60	11,20	13,00	16,00
Heating range (min.-max.)	kW	☀	0,80 - 5,00	1,50 - 6,30	1,60 - 9,00	1,60 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 17,00
Power consumption (min./nom./max.)	kW	☀	0,14/0,78/ 1,70	0,29/1,36/ 2,40	0,29/1,99/ 2,57	0,29/2,15/ 2,62	0,66/2,86/ 3,49	0,66/3,48/ 4,61	0,66/4,75/ 5,78
Energy efficiency COP	W/W	☀	5,13	3,90	3,87	4,00	3,91	3,74	3,37
Energy efficiency SCOP		☀	5,13	4,34	4,48	4,60	4,30	4,28	4,30
Energy efficiency class		☀	A+++	A+	A+	A++	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A		10	16	16	16	25	25	32
Set price incl. RBC-AMTU31-E	**€**		**2.850,-**	**3.220,-**	**3.980,-**	**4.360,-**	**5.010,-**	**5.450,-**	**6.240,-**

INDOOR UNIT			RAV-HM401CTP-E	RAV-HM561CTP-E	RAV-HM801CTP-E	RAV-HM901CTP-E	RAV-HM1101CTP-E	RAV-HM1401CTP-E	RAV-HM1601CTP-E
Airflow	m³/h		540/720/ 900	540/720/ 900	750/1000/ 1410	900/ - / 1600	1020/1350/ 1860	1200/1530/ 2040	1200/1650/ 2040
Sound pressure level (low/med/high)	dB(A)	❄	28/35/37	28/35/37	29/36/41	30/38/42	32/38/44	35/41/46	36/42/46
Sound pressure level (low/med/high)	dB(A)	☀	28/35/37	28/35/37	29/36/41	30/38/42	32/38/44	35/41/46	36/42/46
Dimensions (HxWxD)	mm		235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg		23	23	29	37	37	37	37
Price	**€**		**1.150,-**	**1.220,-**	**1.380,-**	**1.530,-**	**1.560,-**	**1.740,-**	**1.840,-**

OUTDOOR UNIT			RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Sound pressure level (low/med/high)	dB(A)	❄	49	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A)	☀	50	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)		12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		2	5	5	5	5	5	5
Pipe length (max.)	m		20	30	50	50	50	50	50
Height difference (max.)	m		10	30	30	30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,90	0,90	1,90	1,90	2,40	2,40	2,40
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		34	40	47	47	85	85	88
Price	**€**		**1.550,-**	**1.850,-**	**2.450,-**	**2.680,-**	**3.300,-**	**3.560,-**	**4.250,-**

You will find all the control options from page 104 onwards.

Digital Inverter – 3-phase – Ceiling unit

INDOOR UNIT OUTDOOR UNIT			RAV-HM1101CTP-E RAV-GM1102AT8W-E	RAV-HM1401CTP-E RAV-GM1402AT8W-E	RAV-HM1601CTP-E RAV-GM1602AT8W-E
Cooling capacity	kW	❄	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄	0,62/2,55/3,25	0,62/3,94/4,35	0,62/4,94/6,02
Energy efficiency EER	W/W	❄	3,72	3,07	2,83
Energy efficiency SEER		❄	6,46	5,87	6,12
Energy efficiency class		❄	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	11,20	13,00	16,00
Heating range (min.-max.)	kW	☀	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	☀	0,70/2,83/3,45	0,70/3,43/4,57	0,70/4,68/7,09
Energy efficiency COP	W/W	☀	3,95	3,79	3,41
Energy efficiency SCOP		☀	4,29	4,20	4,22
Energy efficiency class		☀	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E	**€**		**5.490,-**	**5.990,-**	**6.770,-**

INDOOR UNIT			RAV-HM1101CTP-E	RAV-HM1401CTP-E	RAV-HM1601CTP-E
Airflow	m³/h		1020/1350/1860	1200/1530/2040	1200/1650/2040
Sound pressure level (low/med/high)	dB(A)	❄	32/38/44	35/41/46	36/42/46
Sound pressure level (low/med/high)	dB(A)	☀	32/38/44	35/41/46	36/42/46
Dimensions (HxWxD)	mm		235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg		37	37	37
Price	**€**		**1.560,-**	**1.740,-**	**1.840,-**

OUTDOOR UNIT			RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Sound pressure level (low/med/high)	dB(A)	❄	53	56	57
Sound pressure level (low/med/high)	dB(A)	☀	56	56	56
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		50	50	50
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		2,40	2,40	2,40
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		85	85	88
Price	**€**		**3.780,-**	**4.100,-**	**4.780,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AXU31C-E	Infrared remote control + receiver kit for installation in ceiling unit	**355,-**
TCB-DP31CE	Drain pump, discharge head 600 mm, measured from lower edge of unit	**440,-**
TCB-KP14CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 4 + 5 / VRF: Sizes 15 + 18	**120,-**
TCB-KP24CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 8 + 16 / VRF: Sizes 24 to 56	**150,-**
TCB-PCUC2E	Control board for external control, alarms and messages	**200,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**

You will find all the control options from page 104 onwards.

Ceiling unit



- Combined with SDI outdoor unit
- Attractive design for optimum air distribution
- Efficiency up to A+++
- Large air throw distances
- Special features for server rooms: backup/rotation function, free-cooling control

Super Digital Inverter – 1-phase – Ceiling unit

INDOOR UNIT OUTDOOR UNIT		RAV-HM561CTP-E RAV-GP561ATW-E	RAV-HM801CTP-E RAV-GP801ATW-E	RAV-HM1101CTP-E RAV-GP1101AT-E	RAV-HM1401CTP-E RAV-GP1401AT-E1
Cooling capacity	kW ❄	5,00	7,10	10,00	12,50
Cooling range (min.-max.)	kW ❄	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00
Power consumption (min./nom./max.)	kW ❄	0,19/1,37/1,98	0,26/1,60/3,17	0,55/2,23/3,45	0,55/3,58/3,97
Energy efficiency EER	W/W ❄	3,65	4,44	4,48	3,49
Energy efficiency SEER	❄	6,93	8,35	8,58	7,99
Energy efficiency class	❄	A++	A++	A+++	n/a
Outdoor temperature operating range (min.-max.)	°C ❄	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Heating capacity	kW ☀	5,60	8,00	11,20	14,00
Heating range (min.-max.)	kW ☀	0,90 - 7,40	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50
Power consumption (min./nom./max.)	kW ☀	0,16/1,39/2,67	0,20/1,80/3,50	0,41/2,38/3,09	0,41/3,59/4,40
Energy efficiency COP	W/W ☀	4,03	4,44	4,71	3,90
Energy efficiency SCOP	☀	4,73	5,10	4,75	4,74
Energy efficiency class	☀	A++	A++	A++	n/a
Outdoor temperature operating range (min.-max.)	°C ☀	-27 / +15	-27/ +15	-27 / +15	-27 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	16	20	25	25
Set price incl. RBC-AMTU31-E	**€**	**3.570,-**	**4.370,-**	**6.010,-**	**6.640,-**

INDOOR UNIT		RAV-HM561CTP-E	RAV-HM801CTP-E	RAV-HM1101CTP-E	RAV-HM1401CTP-E
Airflow	m³/h	540/720/900	750/1000/1410	1020/1350/1860	1200/1530/2040
Sound pressure level (low/med/high)	dB(A) ❄	28/35/37	29/36/41	32/38/44	35/41/46
Sound pressure level (low/med/high)	dB(A) ☀	28/35/37	29/36/41	32/38/44	35/41/46
Dimensions (HxWxD)	mm	235 x 950 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg	23	29	37	37
Price	**€**	**1.220,-**	**1.380,-**	**1.560,-**	**1.740,-**

OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Sound pressure level (low/med/high)	dB(A) ❄	46	46	49	50
Sound pressure level (low/med/high)	dB(A) ☀	48	48	50	51
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5
Pipe length (max.)	m	50	50	75	75
Height difference (max.)	m	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,30	3,10	3,10
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg	45	74	104	104
Price	**€**	**2.200,-**	**2.840,-**	**4.300,-**	**4.750,-**

You will find all the control options from page 104 onwards.

Super Digital Inverter – 3-phase – Ceiling unit

INDOOR UNIT OUTDOOR UNIT			RAV-HM1101CTP-E RAV-GP1101AT8-E	RAV-HM1401CTP-E RAV-GP1401AT8-E*	RAV-HM1601CTP-E RAV-GP1601AT8-E
Cooling capacity	kW	❄	10,00	12,50	14,00
Cooling range (min.-max.)	kW	❄	2,60 - 12,00	2,60 - 14,00	2,60 - 16,00
Power consumption (min./nom./max.)	kW	❄	0,66/2,56/3,81	0,66/3,68/4,85	0,66/4,60/6,33
Energy efficiency EER	W/W	❄	3,91	3,40	3,04
Energy efficiency SEER		❄	6,80	6,60	6,24
Energy efficiency class		❄	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	11,20	14,00	16,00
Heating range (min.-max.)	kW	☀	2,40 - 14,00	2,40 - 18,00	2,40 - 19,00
Power consumption (min./nom./max.)	kW	☀	0,53/2,51/4,26	0,53/3,48/5,95	0,53/4,30/6,96
Energy efficiency COP	W/W	☀	4,46	4,02	3,72
Energy efficiency SCOP		☀	4,23	4,22	4,21
Energy efficiency class		☀	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-20/ +15	-20/ +15	-20/ +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E	**€**		**5.920,-**	**6.290,-**	**6.970,-**

INDOOR UNIT			RAV-HM1101CTP-E	RAV-HM1401CTP-E	RAV-HM1601CTP-E
Airflow	m³/h		1020/1350/1860	1200/1530/2040	1200/1650/2040
Sound pressure level (low/med/high)	dB(A)	❄	32/38/44	35/41/46	36/42/46
Sound pressure level (low/med/high)	dB(A)	☀	32/38/44	35/41/46	36/42/46
Dimensions (HxWxD)	mm		235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg		37	37	37
Price	**€**		**1.560,-**	**1.740,-**	**1.840,-**

OUTDOOR UNIT			RAV-GP1101AT8-E	RAV-GP1401AT8-E*	RAV-GP1601AT8-E
Sound pressure level (low/med/high)	dB(A)	❄	49	51	51
Sound pressure level (low/med/high)	dB(A)	☀	50	52	53
Suction gas pipe diameter	mm (inch)		15,9 (¾)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		75	75	75
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		2,60	2,60	2,60
Dimensions (HxWxD)	mm		1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg		95	95	95
Price	**€**		**4.210,-**	**4.400,-**	**4.980,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AXU31C-E	Infrared remote control + receiver kit for installation in ceiling unit	**355,-**
RBC-AMSU52-E	Wired comfort remote control PLUS	**205,-**
TCB-DP31CE	Drain pump, discharge head 600 mm, measured from lower edge of unit	**440,-**
TCB-KP14CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 4 + 5 / VRF: Sizes 15 + 18	**120,-**
TCB-KP24CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 8 + 16 / VRF: Sizes 24 to 56	**150,-**
TCB-PCUC2E	Control board for external control, alarms and messages	**200,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**

* Changing to RAV-GP1401AT8-E1 during the year.
You will find all the control options from page 104 onwards.

60x60 Slim Cassette



- Combined with DI outdoor unit
- 360° air distribution in the Euro-grid with installation height of just 256 mm
- Efficiency up to A++; enhanced energy savings via presence sensor option
- Integrated drain pump (850 mm); prepared for external fresh air supply
  - Accessories required: remote control + panel

Digital Inverter – 1-phase – 60x60 slim cassette

INDOOR UNIT OUTDOOR UNIT			RAV-HM301MUTP-E RAV-GM302ATP-E	RAV-HM401MUTP-E RAV-GM402ATP-E	RAV-HM561MUTP-E RAV-GM562ATP-E
Cooling capacity	kW	❄	2,50	3,60	5,00
Cooling range (min.-max.)	kW	❄	0,90 - 3,00	0,90 - 4,00	1,50 - 5,60
Power consumption (min./nom./max.)	kW	❄	0,18/0,59/0,82	0,18/0,90/2,00	0,26/1,56/1,86
Energy efficiency EER	W/W	❄	4,24	4,00	3,21
Energy efficiency SEER		❄	6,86	6,70	6,84
Energy efficiency class		❄	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	3,40	4,00	5,30
Heating range (min.-max.)	kW	☀	0,80 - 4,50	0,80 - 5,00	1,50 - 6,30
Power consumption (min./nom./max.)	kW	☀	0,17/0,76/1,40	0,14/0,95/1,70	0,26/1,36/2,08
Energy efficiency COP	W/W	☀	4,47	4,21	3,90
Energy efficiency SCOP		☀	4,73	4,46	4,62
Energy efficiency class		☀	A++	A+	A++
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A		10	10	16
Set price incl. RBC-AMTU31-E + RBC-UM21P-E	**€**		**3.095,-**	**3.420,-**	**3.740,-**

INDOOR UNIT			RAV-HM301MUTP-E	RAV-HM401MUTP-E	RAV-HM561MUTP-E
Airflow	m³/h		440/520/640	468/552/660	780/870/1050
Sound pressure level (low/med/high)	dB(A)	❄	30/36/38	32/36/41	28/29/32
Sound pressure level (low/med/high)	dB(A)	☀	30/36/38	32/36/41	28/29/32
Dimensions (HxWxD)	mm		256 x 575 x 575	256 x 575 x 575	256 x 840 x 840
Weight	kg		15	15	20
Price	**€**		**1.265,-**	**1.310,-**	**1.330,-**

OUTDOOR UNIT			RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E
Sound pressure level (low/med/high)	dB(A)	❄	46	49	46
Sound pressure level (low/med/high)	dB(A)	☀	47	50	48
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,4 (¼)	6,4 (¼)	6,4 (¼)
Pipe length (min.)	m		2	2	5
Pipe length (max.)	m		20	20	30
Height difference (max.)	m		10	10	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		0,60	0,90	0,90
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
Weight	kg		29	34	40
Price	**€**		**1.270,-**	**1.550,-**	**1.850,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UM21P-E	Panel WHITE for 60x60 slim cassette	**410,-**
RBC-UM21PB-E	Panel BLACK for 60x60 slim cassette	**430,-**
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AXU31UMP-E	Infrared remote control + receiver kit WHITE for installation in 60x60 slim cassette	**170,-**
RBC-AXU31UMPB-E	Infrared remote control + receiver kit BLACK for installation in 60x60 slim cassette	**190,-**
TCB-SIR41UMP-E	Occupancy sensor kit WHITE for installation in 60x60 slim cassette	**120,-**

You will find all the control options from page 104 onwards.

60x60 slim cassette



- Combined with SDI outdoor unit
- 360° air distribution in the Euro-grid with installation height of just 256 mm
- Efficiency up to A++; enhanced energy savings via presence sensor option
- Integrated drain pump (850 mm); prepared for external fresh air supply
  - Accessories required: remote control + panel

Super Digital Inverter – 1-phase – 60x60 slim cassette

INDOOR UNIT OUTDOOR UNIT		RAV-HM561MUTP-E RAV-GP561ATW-E
Cooling capacity	kW ❄	5,00
Cooling range (min.-max.)	kW ❄	1,20 - 5,60
Power consumption (min./nom./max.)	kW ❄	0,19/1,22/1,97
Energy efficiency EER	W/W ❄	4,10
Energy efficiency SEER	❄	7,73
Energy efficiency class	❄	A++
Outdoor temperature operating range (min.-max.)	°C ❄	-15 / +52
Heating capacity	kW ☀	5,60
Heating range (min.-max.)	kW ☀	0,90 - 8,10
Power consumption (min./nom./max.)	kW ☀	0,16/1,30/2,76
Energy efficiency COP	W/W ☀	4,31
Energy efficiency SCOP	☀	4,98
Energy efficiency class	☀	A++
Outdoor temperature operating range (min.-max.)	°C ☀	-27 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50
Recommended fusing	A	16
Set price incl. RBC-AMTU31-E + RBC-UM21P-E	**€**	**4.090,-**

INDOOR UNIT		RAV-HM561MUTP-E
Airflow	m³/h	780/870/1050
Sound pressure level (low/med/high)	dB(A) ❄	28/29/32
Sound pressure level (low/med/high)	dB(A) ☀	28/29/32
Dimensions (HxWxD)	mm	256 x 840 x 840
Weight	kg	20
Panel dimensions (HxWxD)	mm	30 x 950 x 950
Panel weight	kg	4,2
Price	**€**	**1.330,-**

OUTDOOR UNIT		RAV-GP561ATW-E
Sound pressure level (low/med/high)	dB(A) ❄	46
Sound pressure level (low/med/high)	dB(A) ☀	48
Suction gas pipe diameter	mm (inch)	12,7 (½)
Liquid pipe diameter	mm (inch)	6,4 (¼)
Pipe length (min.)	m	5
Pipe length (max.)	m	50
Height difference (max.)	m	30
Compressor type		Twin-Rotary
Refrigerant		R32
Refrigerant charge	kg	1,35
Dimensions (HxWxD)	mm	630 x 799 x 299
Weight	kg	45
Price	**€**	**2.200,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UM21P-E	Panel WHITE for 60x60 slim cassette	**410,-**
RBC-UM21PB-E	Panel BLACK for 60x60 slim cassette	**430,-**
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AXU31UMP-E	Infrared remote control + receiver kit WHITE for installation in 60x60 slim cassette	**170,-**
RBC-AXU31UMPB-E	Infrared remote control + receiver kit BLACK for installation in 60x60 slim cassette	**190,-**
TCB-SIR41UMP-E	Occupancy sensor kit WHITE for installation in 60x60 slim cassette	**120,-**

You will find all the control options from page 104 onwards.

Smart cassette



- Combined with SDI outdoor unit
- 4-way high-efficiency design for large capacities
- Efficiency up to A++; enhanced energy savings via presence sensor option
- Integrated drain pump (850 mm); prepared for external fresh air supply
- Not a stock item – lead time on request
  - Accessories required: remote control + panel

Super Digital Inverter – 1-phase – Smart cassette

INDOOR UNIT OUTDOOR UNIT			RAV-HM561UT-E RAV-GP561ATW-E	RAV-HM801UT-E RAV-GP801ATW-E	RAV-HM1101UT-E RAV-GP1101AT-E	RAV-HM1401UT-E RAV-GP1401AT-E1
Cooling capacity	kW	❄	5,00	7,10	10,00	12,50
Cooling range (min.-max.)	kW	❄	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00
Power consumption (min./nom./max.)	kW	❄	0,19/1,20/2,03	0,26/1,37/2,94	0,56/1,90/2,80	0,56/2,91/3,40
Energy efficiency EER	W/W	❄	4,17	5,18	5,26	4,30
Energy efficiency SEER		❄	8,17	9,72	9,25	8,87
Energy efficiency class		❄	A++	A+++	-	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Heating capacity	kW	☀	5,60	8,00	11,20	14,00
Heating range (min.-max.)	kW	☀	0,90 - 8,10	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50
Power consumption (min./nom./max.)	kW	☀	0,16/1,29/2,75	0,20/1,45/3,15	0,41/2,18/2,98	0,41/3,04/4,18
Energy efficiency COP	W/W	☀	4,34	5,52	5,14	4,61
Energy efficiency SCOP		☀	5,02	5,54	5,03	5,00
Energy efficiency class		☀	A++	A+++	-	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-27 / +15	-27/ +15	-27 / +15	-27 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A		16	20	25	25
Set price incl. RBC-AMTU31-E + RBC-U41PG(W)-E	**€**		**4.050,-**	**5.000,-**	**6.675,-**	**7.345,-**

INDOOR UNIT			RAV-HM561UT-E	RAV-HM801UT-E	RAV-HM1101UT-E	RAV-HM1401UT-E
Airflow	m³/h		750/900/1050	810/1290/1920	1050/1650/2250	1170/1710/2250
Sound pressure level (low/med/high)	dB(A)	❄	26/29/32	27/35/42	31/40/48	33/41/48
Sound pressure level (low/med/high)	dB(A)	☀	26/29/32	27/35/42	31/40/48	33/41/48
Dimensions (HxWxD)	mm		256 x 840 x 840	319 x 840 x 840	319 × 840 × 840	319 × 840 × 840
Weight	kg		20	25	25	25
Panel dimensions (HxWxD)	mm		30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg		5	5	5	5
Price	**€**		**1.270,-**	**1.580,-**	**1.795,-**	**2.015,-**

OUTDOOR UNIT			RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Sound pressure level (low/med/high)	dB(A)	❄	46	46	49	50
Sound pressure level (low/med/high)	dB(A)	☀	48	48	50	51
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5
Pipe length (max.)	m		50	50	75	75
Height difference (max.)	m		30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32
Refrigerant charge	kg		1,35	1,30	3,10	3,10
Dimensions (HxWxD)	mm		630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg		45	74	104	104
Price	**€**		**2.200,-**	**2.840,-**	**4.300,-**	**4.750,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-U41PG(W)-E	Panel for smart cassette	**430,-**
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AXU41U-E	Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette	**315,-**
TCB-SIR41U-E	Occupancy sensor kit for installation in smart cassette	**130,-**
TCB-GFC1603UE	Fresh air filter	**290,-**
TCB-SP1603UE	Spacer frame for lowering the panel by 70 mm	**230,-**
TCB-BC1603UE	Air discharge direction kit for blocking of up to three discharge sides	**75,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**
TCB-PCUC2E	Control board for external control, alarms and messages	**200,-**

You will find all the control options from page 104 onwards.

4-Way Standard Cassette

- Combined with DI CLASSIC outdoor unit
- 360° air distribution or direct air flow
- Efficiency up to A++
- Integrated drain pump (850 mm); prepared for external fresh air supply
  - Accessories required: remote control + panel



Digital Inverter CLASSIC – 1-phase – 4-way standard cassette

INDOOR UNIT OUTDOOR UNIT			RAV-HM561UTP-E RAV-GV561ATP-E	RAV-HM801UTP-E RAV-GV801ATP-E	RAV-HM1101UTP-E RAV-GV1101ATP-E	RAV-HM1401UTP-E RAV-GV1401ATP-E	RAV-HM1601UTP-E RAV-GV1601ATP-E*
Cooling capacity	kW	❄	5,00	6,70	9,50	11,50	13,00
Cooling range (min.-max.)	kW	❄	1,50 - 5,60	1,50 - 8,00	3,00 - 11,20	3,00 - 12,00	3,00 - 14,00
Power consumption (min./nom./max.)	kW	❄	- /1,60/ -	0,26/2,22/ 2,60	- /3,15/ -	- /4,60/ -	- /5,40/ -
Energy efficiency EER	W/W	❄	3,13	3,02	3,02	2,50	2,41
Energy efficiency SEER		❄	6,20	5,81	6,00	5,10	5,90
Energy efficiency class		❄	A++	A+	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	5,30	7,70	10,00	11,90	13,50
Heating range (min.-max.)	kW	☀	1,50 - 6,30	1,50 - 9,00	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	☀	- /1,40/ -	0,26/2,13/ 3,03	- /3,10/ -	- /3,80/ -	- /3,90/ -
Energy efficiency COP	W/W	☀	3,79	3,62	3,23	3,13	3,46
Energy efficiency SCOP		☀	4,20	4,42	4,00	3,90	4,20
Energy efficiency class		☀	A+	A+	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A		16	16	20	25	25
Set price incl. RBC-AMTU31-E + RBC-U32PGP-E	**€**		**3.000,-**	**3.570,-**	**4.360,-**	**4.850,-**	**5.850,-**

INDOOR UNIT			RAV-HM561UTP-E	RAV-HM801UTP-E	RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E
Airflow	m³/h		780/870/ 1050	810/960/ 1230	1170/1440/ 2010	1230/1440/ 2100	1260/1500/ 2130
Sound pressure level (low/med/high)	dB(A)	❄	28/29/32	28/31/35	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A)	☀	28/29/32	28/31/35	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm		256 x 840 x 840	256 × 840 × 840	319 x 840 x 840	319 × 840 × 840	319 x 840 x 840
Weight	kg		20	20	24	24	24
Panel dimensions (HxWxD)	mm		30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg		4,2	4,2	4,2	4,2	4,2
Price	**€**		**1.100,-**	**1.260,-**	**1.550,-**	**1.730,-**	**1.950,-**

OUTDOOR UNIT			RAV-GV561ATP-E	RAV-GV801ATP-E	RAV-GV1101ATP-E	RAV-GV1401ATP-E	RAV-GV1601ATP-E*
Sound pressure level (low/med/high)	dB(A)	❄	46	48	53	53	57
Sound pressure level (low/med/high)	dB(A)	☀	48	51	55	60	59
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5	5
Pipe length (max.)	m		30	30	30	30	30
Height difference (max.)	m		20	20	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32
Refrigerant charge	kg		0,90	1,40	1,70	1,90	2,20
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	710 x 900 x 320	890 x 900 x 320
Weight	kg		36	39	45	57	64
Price	**€**		**1.390,-**	**1.800,-**	**2.300,-**	**2.610,-**	**3.390,-**

* Changing to RAV-GV1601ATP-E1 during the year.

You will find all the control options from page 104 onwards.

Digital Inverter CLASSIC – 3-phase – 4-way standard cassette

INDOOR UNIT OUTDOOR UNIT			RAV-HM1101UTP-E RAV-GV1101AT8P-E	RAV-HM1401UTP-E RAV-GV1401AT8P-E	RAV-HM1601UTP-E RAV-GV1601AT8P-E*
Cooling capacity	kW	❄	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄	3,00 - 11,20	3,00 - 14,00	3,00 - 16,00
Power consumption (min./nom./max.)	kW	❄	- /3,10/ -	- /4,80/ -	0,65/4,49/5,70
Energy efficiency EER	W/W	❄	3,06	2,52	3,12
Energy efficiency SEER		❄	6,20	5,10	6,30
Energy efficiency class		❄	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	10,00	12,30	16,00
Heating range (min.-max.)	kW	☀	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	☀	- /3,00/ -	- /4,10/ -	0,65/4,43/5,66
Energy efficiency COP	W/W	☀	3,33	3,00	3,61
Energy efficiency SCOP		☀	4,10	3,90	4,35
Energy efficiency class		☀	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E + RBC-U32PGP-E	**€**		**4.720,-**	**5.110,-**	**6.410,-**

INDOOR UNIT			RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E
Airflow	m³/h		1170/1440/2010	1230/1440/2100	1260/1500/2130
Sound pressure level (low/med/high)	dB(A)	❄	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A)	☀	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm		319 x 840 x 840	319 × 840 × 840	319 x 840 x 840
Weight	kg		24	24	24
Panel dimensions (HxWxD)	mm		30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg		4,2	4,2	4,2
Price	**€**		**1.550,-**	**1.730,-**	**1.950,-**

OUTDOOR UNIT			RAV-GV1101AT8P-E	RAV-GV1401AT8P-E	RAV-GV1601AT8P-E*
Sound pressure level (low/med/high)	dB(A)	❄	53	53	57
Sound pressure level (low/med/high)	dB(A)	☀	55	60	59
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		30	30	30
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		1,70	1,90	2,20
Dimensions (HxWxD)	mm		710 x 900 x 320	710 x 900 x 320	890 x 900 x 320
Weight	kg		60	60	63
Price	**€**		**2.660,-**	**2.870,-**	**3.950,-**

* Changing to RAV-GV1601AT8P-E1 during the year.
You will find all the control options from page 104 onwards.
The accessories for the 4-way standard cassette can be found on page 89.

4-way standard cassette

- Combined with DI outdoor unit
- 360° air distribution or direct air flow
- Efficiency up to A++
- Integrated drain pump (850 mm); prepared for external fresh air supply
  - Accessories required: remote control + panel



Digital Inverter – 1-phase – 4-way standard cassette

INDOOR UNIT OUTDOOR UNIT			RAV-HM561UTP-E RAV-GM562ATP-E	RAV-HM801UTP-E RAV-GM802ATW-E	RAV-HM901UTP-E RAV-GM902ATW-E	RAV-HM1101UTP-E RAV-GM1102ATW-E	RAV-HM1401UTP-E RAV-GM1402ATW-E	RAV-HM1601UTP-E RAV-GM1602ATW-E
Cooling capacity	kW	❄	5,00	6,70	8,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄	1,50 - 5,60	1,90 - 8,00	1,80 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄	0,26/1,56/ 1,86	0,29/1,90/ 2,59	0,29/2,29/ 2,88	0,52/2,57/ 3,11	0,52/3,88/ 4,23	052/5,05/ 6,00
Energy efficiency EER	W/W	❄	3,21	3,52	3,50	3,70	3,12	2,77
Energy efficiency SEER		❄	6,84	7,50	7,50	7,50	7,30	6,60
Energy efficiency class		❄	A++	A++	A++	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	5,30	7,70	8,60	11,20	13,00	16,00
Heating range (min.-max.)	kW	☀	1,50 - 6,30	1,60 - 9,00	160 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	☀	0,26/1,36/ 2,08	0,27/1,99/ 2,66	0,27/2,09/ 2,68	0,67/2,86/ 3,39	0,67/3,43/ 4,55	067/4,72/ 5,47
Energy efficiency COP	W/W	☀	3,90	3,87	4,12	3,92	3,79	3,39
Energy efficiency SCOP		☀	4,62	4,60	4,60	4,40	4,40	4,40
Energy efficiency class		☀	A++	A++	A++	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A		16	16	16	25	25	32
Set price incl. RBC-AMTU31-E + RBC-U32PGP-E	**€**		**3.460,-**	**4.220,-**	**4.580,-**	**5.360,-**	**5.800,-**	**6.710,-**

INDOOR UNIT			RAV-HM561UTP-E	RAV-HM801UTP-E	RAV-HM901UTP-E	RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E
Airflow	m³/h		780/870/ 1050	810/960/ 1230	900/ - / 1600	1170/1440/ 2010	1230/1440/ 2100	1260/1500/ 2130
Sound pressure level (low/med/high)	dB(A)	❄	28/29/32	28/31/35	33/36/40	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A)	☀	28/29/32	28/31/35	33/36/40	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm		256 x 840 x 840	256 × 840 × 840	319 x 840 x 840	319 × 840 × 840	319 × 840 × 840	319 × 840 × 840
Weight	kg		20	20	24	24	24	24
Panel dimensions (HxWxD)	mm		30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg		4,2	4,2	4,2	4,2	4,2	4,2
Price	**€**		**1.100,-**	**1.260,-**	**1.390,-**	**1.550,-**	**1.730,-**	**1.950,-**

OUTDOOR UNIT			RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Sound pressure level (low/med/high)	dB(A)	❄	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A)	☀	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5	5	5
Pipe length (max.)	m		30	50	50	50	50	50
Height difference (max.)	m		30	30	30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,90	1,90	1,90	2,40	2,40	2,40
Dimensions (HxWxD)	mm		550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		40	47	47	85	85	88
Price	**€**		**1.850,-**	**2.450,-**	**2.680,-**	**3.300,-**	**3.560,-**	**4.250,-**

You will find all the control options from page 104 onwards.

Digital Inverter – 3-phase – 4-way standard cassette

INDOOR UNIT OUTDOOR UNIT			RAV-HM1101UTP-E RAV-GM1102AT8W-E	RAV-HM1401UTP-E RAV-GM1402AT8W-E	RAV-HM1601UTP-E RAV-GM1602AT8W-E
Cooling capacity	kW	❄	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄	0,56/2,52/3,07	0,56/3,81/4,19	056/4,92/5,90
Energy efficiency EER	W/W	❄	3,76	3,17	2,84
Energy efficiency SEER		❄	7,15	6,91	6,53
Energy efficiency class		❄	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	11,20	13,00	16,00
Heating range (min.-max.)	kW	☀	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	☀	0,71/2,82/3,35	0,71/3,39/4,51	0,71/4,65/6,71
Energy efficiency COP	W/W	☀	3,97	3,83	3,44
Energy efficiency SCOP		☀	4,29	4,30	4,38
Energy efficiency class		☀	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E + RBC-U32PGP-E	**€**		**5.840,-**	**6.340,-**	**7.240,-**

INDOOR UNIT			RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E
Airflow	m³/h		1170/1440/2010	1230/1440/2100	1260/1500/2130
Sound pressure level (low/med/high)	dB(A)	❄	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A)	☀	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm		319 × 840 × 840	319 × 840 × 840	319 × 840 × 840
Weight	kg		24	24	24
Panel dimensions (HxWxD)	mm		30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg		4,2	4,2	4,2
Price	**€**		**1.550,-**	**1.730,-**	**1.950,-**

OUTDOOR UNIT			RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Sound pressure level (low/med/high)	dB(A)	❄	53	56	57
Sound pressure level (low/med/high)	dB(A)	☀	56	56	56
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		50	50	50
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R35	R32
Refrigerant charge	kg		2,40	2,40	2,40
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		85	85	88
Price	**€**		**3.780,-**	**4.100,-**	**4.780,-**

You will find all the control options from page 104 onwards.
The accessories for the 4-way standard cassette can be found on page 89.

4-way standard cassette



- Combined with SDI outdoor unit
- 360° air distribution or direct air flow
- Efficiency up to A++
- Integrated drain pump (850 mm); prepared for external fresh air supply
  - Accessories required: remote control + panel

Super Digital Inverter – 4-way standard cassette

			1-phase				3-phase		
INDOOR UNIT **OUTDOOR UNIT**			**RAV-HM561UTP-E** **RAV-GP561ATW-E**	**RAV-HM801UTP-E** **RAV-GP801ATW-E**	**RAV-HM1101UTP-E** **RAV-GP1101AT-E**	**RAV-HM1401UTP-E** **RAV-GP1401AT-E1**	**RAV-HM1101UTP-E** **RAV-GP1101AT8-E**	**RAV-HM1401UTP-E** **RAV-GP1401AT8-E***	**RAV-HM1601UTP-E** **RAV-GP1601AT8-E**
Cooling capacity	kW	❄	5,00	7,10	10,00	12,50	10,00	12,50	14,00
Cooling range (min.-max.)	kW	❄	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00	2,60 - 12,00	2,60 - 14,00	2,60 - 16,00
Power consumption (min./nom./max.)	kW	❄	0,19/1,22/ 1,97	0,26/1,58/ 3,15	0,56/1,90/ 2,80	0,53/3,16/ 3,55	0,66/2,32/ 3,60	0,66/3,42/ 4,40	0,66/4,34/ 5,70
Energy efficiency EER	W/W	❄	4,10	4,49	4,69	3,96	4,31	3,65	3,23
Energy efficiency SEER		❄	7,73	8,96	9,00	8,59	7,32	7,35	6,99
Energy efficiency class		❄	A++	A+++	A+++	n/a	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +52	-15 / +52	-15 / +52	-15 / +52	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	5,60	8,00	11,20	14,00	11,20	14,00	16,00
Heating range (min.-max.)	kW	☀	0,90 - 8,10	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50	2,40 - 15,60	2,40 - 18,00	2,40 - 19,00
Power consumption (min./nom./max.)	kW	☀	0,16/1,30/ 2,76	0,20/1,77/ 3,47	041/2,18/ 2,98	0,40/3,21/ 4,38	0,53/2,41/ 4,30	053/3,41/ 5,50	0,53/4,28/ 6,51
Energy efficiency COP	W/W	☀	4,31	4,52	4,79	4,36	4,65	4,11	3,74
Energy efficiency SCOP		☀	4,98	5,24	4,76	4,75	4,38	4,38	4,38
Energy efficiency class		☀	A++	A+++	A++	n/a	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-27 / +15	-27/ +15	-27 / +15	-27 / +15	-20/ +15	-20/ +15	-20/ +15
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50
Recommended fusing	A		16	20	25	25	3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E + RBC-U32PGP-E	**€**		**3.810,-**	**4.610,-**	**6.360,-**	**6.990,-**	**6.270,-**	**6.640,-**	**7.440,-**

INDOOR UNIT			**RAV-HM561UTP-E**	**RAV-HM801UTP-E**	**RAV-HM1101UTP-E**	**RAV-HM1401UTP-E**	**RAV-HM1101UTP-E**	**RAV-HM1401UTP-E**	**RAV-HM1601UTP-E**
Airflow	m³/h		780/870/ 1050	810/960/ 1230	1170/1440/ 2010	1230/1440/ 2100	1170/1440/ 2010	1230/1440/ 2100	1260/1500/ 2130
Sound pressure level (low/med/high)	dB(A)	❄	28/29/32	28/31/35	33/38/43	34/38/44	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A)	☀	28/29/32	28/31/35	33/38/43	34/38/44	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm		256 x 840 x 840	256 × 840 × 840	319 × 840 × 840	319 × 840 × 840	319 × 840 × 840	319 × 840 × 840	319 × 840 × 840
Weight	kg		20	20	24	24	24	24	24
Panel dimensions (HxWxD)	mm		30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg		4,2	4,2	4,2	4,2	4,2	4,2	4,2
Price	**€**		**1.100,-**	**1.260,-**	**1.550,-**	**1.730,-**	**1.550,-**	**1.730,-**	**1.950,-**

OUTDOOR UNIT			**RAV-GP561ATW-E**	**RAV-GP801ATW-E**	**RAV-GP1101AT-E**	**RAV-GP1401AT-E1**	**RAV-GP1101AT8-E**	**RAV-GP1401AT8-E***	**RAV-GP1601AT8-E**
Sound pressure level (low/med/high)	dB(A)	❄	46	46	49	50	49	51	51
Sound pressure level (low/med/high)	dB(A)	☀	48	48	50	51	50	52	53
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)	15,9 (¾)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5	5	5	5
Pipe length (max.)	m		50	50	75	75	75	75	75
Height difference (max.)	m		30	30	30	30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		1,35	1,30	3,10	3,10	2,60	2,60	2,60
Dimensions (HxWxD)	mm		630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg		45	74	104	104	95	95	95
Price	**€**		**2.200,-**	**2.840,-**	**4.300,-**	**4.750,-**	**4.210,-**	**4.400,-**	**4.980,-**

* Changing to RAV-GP1401AT8-E1 during the year.

You will find all the control options from page 104 onwards.

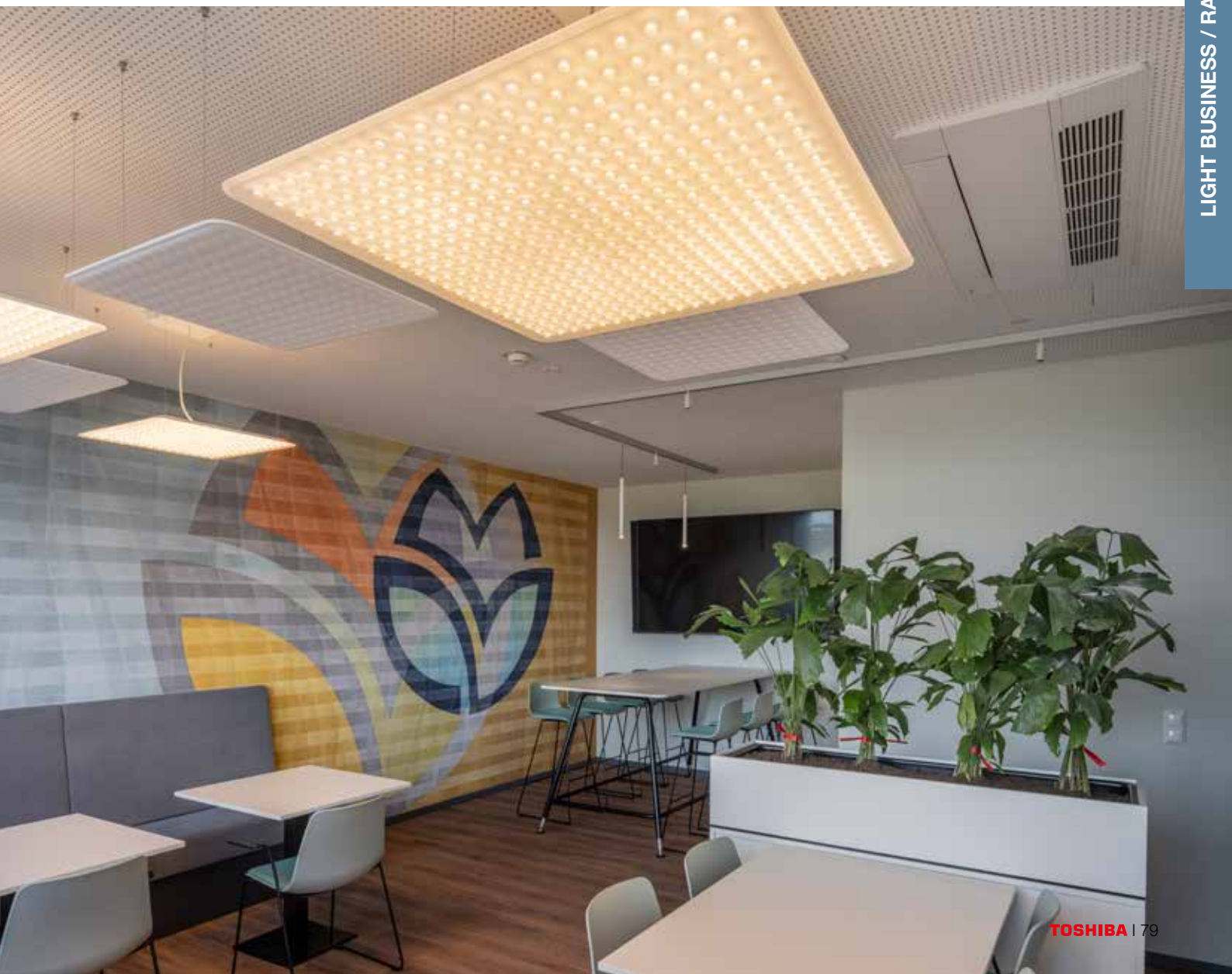
4-way standard cassette / accessories

4-way standard cassette

ACCESSORIES	DESCRIPTION	PRICE €
RBC-U32PGP-E	Panel for wide airflow	**360,-**
RBC-U33P-E	FLAT Panel - pure white, for 4-way standard cassette	**360,-**
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AXU31U-E	Infrared remote control + receiver kit for installation in 4-way standard cassette	**325,-**
RBC-AXU33UP-E	Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, pure white	**215,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**
TCB-PLFC1UPE	PM 2.5 Filterset (before dustfilter), compatible to RBC-U32PGP-E, RBC-U33PB-E	**20,-**
TCB-SIR33UP-E	Occupancy sensor kit for installation in FLAT Panel	**125,-**
TCB-EAPC1UHP-E	PURE Plasmafilter kit for installation in FLAT Panel 4-way standard cassette	**1.490,-**
TCB-ADCN510UP-E	Panel adapter for RBC-U33P-E + RBC-U33PB-E	**60,-**
TCB-EABC1UHP-E	PURE plasma filter kit SIMPLIFIED for installation in FLAT panel 4-way standard cassette	**800,-**

BLACK

ACCESSORIES	DESCRIPTION	PRICE €
RBC-U33PB-E	FLAT panel - BLACK, for 4-way standard cassette	**380,-**
TCB-PLFC1UPE	PM 2.5 Filterset (before dustfilter), compatible to RBC-U32PGP-E, RBC-U33PB-E	**20,-**
RBC-AXU33UPB-E	Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, BLACK	**235,-**



1-way flat cassette



- Combined with DI outdoor unit
- Draft-free air distribution, directed to 1 side
- Ultra-flat 30 mm design panel with presence sensor option
- Optional plasma filter with ionizer
- Minimal installation height of just 150 mm
- Integrated drain pump
  - Accessories required: remote control + panel

Digital Inverter – 1-phase – 1-way flat cassette

INDOOR UNIT OUTDOOR UNIT			RAV-HM301U1TP-E RAV-GM302ATP-E	RAV-HM401U1TP-E RAV-GM402ATP-E
Cooling capacity	kW	❄	2,50	3,60
Cooling range (min.-max.)	kW	❄	0,90 - 3,00	0,90 - 4,00
Power consumption (min./nom./max.)	kW	❄	0,19/0,69/0,92	0,32/1,13/1,40
Energy efficiency EER	W/W	❄	3,62	3,19
Energy efficiency SEER		❄	6,20	6,00
Energy efficiency class		❄	A++	A+
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46
Heating capacity	kW	☀	3,40	4,00
Heating range (min.-max.)	kW	☀	0,80 - 4,50	0,80 - 5,00
Power consumption (min./nom./max.)	kW	☀	0,16/1,03/1,50	0,18/1,32/2,00
Energy efficiency COP	W/W	☀	3,30	3,03
Energy efficiency SCOP		☀	4,10	4,00
Energy efficiency class		☀	A++	A+
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50
Recommended fusing	A		10	10
Set price incl. RBC-AMTU31-E + RBC-UY32P-E	**€**		**3.375,-**	**3.695,-**

INDOOR UNIT			RAV-HM301U1TP-E	RAV-HM401U1TP-E
Airflow	m³/h		310/ - /520	290/ - /540
Sound pressure level (low/med/high)	dB(A)	❄	30/35/39	30/36/40
Sound pressure level (low/med/high)	dB(A)	☀	30/35/39	30/36/40
Dimensions (HxWxD)	mm		150 x 990 x 450	150 x 990 x 450
Weight	kg		13	13
Panel dimensions (HxWxD)	mm		30 x 1220 x 530	30 x 1220 x 530
Panel weight	kg		4	4
Price	**€**		**1.400,-**	**1.440,-**

OUTDOOR UNIT			RAV-GM302ATP-E	RAV-GM402ATP-E
Sound pressure level (low/med/high)	dB(A)	❄	46	49
Sound pressure level (low/med/high)	dB(A)	☀	47	50
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,4 (¼)	6,4 (¼)
Pipe length (min.)	m		2	2
Pipe length (max.)	m		20	20
Height difference (max.)	m		10	10
Compressor type			Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32
Refrigerant charge	kg		0,60	0,90
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290
Weight	kg		29	34
Price	**€**		**1.270,-**	**1.550,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UY32P-E	Panel for small chassis (990 mm)	**555,-**
RBC-AX33UYP-E	Infrared remote control + receiver kit for installation in 1-way cassette	**80,-**
TCB-EAPC1UYHP-E	PURE Plasmafilter Kit for 1-way FLAT cassette	**300,-**
TCB-SIR41UYP-E	Occupancy sensor kit for installation in 1-way FLAT cassette	**120,-**

You will find all the control options from page 104 onwards.

Slim duct unit



- Combined with DI outdoor unit
- Minimal installation height of just 210 mm
- Efficiency up to A++, integrated air filter
- Integrated drain pump (850 mm); prepared for external fresh air supply

Digital Inverter – 1-phase – Slim duct unit

INDOOR UNIT OUTDOOR UNIT			RAV-HM301SDTY-E RAV-GM302ATP-E	RAV-HM401SDTY-E RAV-GM402ATP-E	RAV-HM561SDTY-E RAV-GM562ATP-E	RAV-HM801SDTY-E RAV-GM802ATW-E
Cooling capacity	kW	❄	2,50	3,60	5,00	6,70
Cooling range (min.-max.)	kW	❄	0,90 - 3,00	0,90 - 4,00	1,50 - 5,60	1,90 - 8,00
Power consumption (min./nom./max.)	kW	❄	0,19/0,56/0,92	0,18/0,93/2,00	0,28/1,86/2,05	0,33/2,16/2,77
Energy efficiency EER	W/W	❄	4,46	3,87	2,69	3,10
Energy efficiency SEER		❄	6,41	6,03	5,80	5,63
Energy efficiency class		❄	A++	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	3,40	4,00	5,30	7,70
Heating range (min.-max.)	kW	☀	0,80 - 4,50	0,80 - 5,00	1,50 - 6,30	1,60 - 9,00
Power consumption (min./nom./max.)	kW	☀	0,17/0,86/1,40	0,17/0,97/1,70	0,22/1,50/2,40	0,31/2,24/2,66
Energy efficiency COP	W/W	☀	3,95	4,12	3,53	3,44
Energy efficiency SCOP		☀	4,35	4,00	4,00	4,00
Energy efficiency class		☀	A+	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A		10	10	16	16
Set price incl. RBC-AMTU31-E	**€**		**2.530,-**	**2.840,-**	**3.200,-**	**3.850,-**

INDOOR UNIT			RAV-HM301SDTY-E	RAV-HM401SDTY-E	RAV-HM561SDTY-E	RAV-HM801SDTY-E
Airflow	m³/h		420/ - /570	440/ - /600	650/ - /780	910/ - /1140
External static pressure	Pa		10/50	10/50	10/50	10/50
Sound pressure level (low/med/high)	dB(A)	❄	26/29/32	27/30/33	29/32/34	32/34/37
Sound pressure level (low/med/high)	dB(A)	☀	26/29/32	27/30/33	29/32/34	32/34/37
Dimensions (HxWxD)	mm		210 x 700 x 450	210 x 700 x 450	210 x 900 x 450	210 x 1100 x 450
Weight	kg		15	15	19	22
Price	**€**		**1.110,-**	**1.140,-**	**1.200,-**	**1.250,-**

OUTDOOR UNIT			RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E
Sound pressure level (low/med/high)	dB(A)	❄	46	49	46	50
Sound pressure level (low/med/high)	dB(A)	☀	47	50	48	52
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Pipe length (min.)	m		2	2	5	5
Pipe length (max.)	m		20	20	30	50
Height difference (max.)	m		10	10	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32
Refrigerant charge	kg		0,60	0,90	0,90	1,90
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299
Weight	kg		29	34	40	47
Price	**€**		**1.270,-**	**1.550,-**	**1.850,-**	**2.450,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AXU31-E	Infrared remote control with external receiver kit for all indoor units	**460,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**

You will find all the control options from page 104 onwards.

Standard Duct unit

- Combined with DI CLASSIC outdoor unit
- Low installation height of just 275 mm
- External static pressure up to 120 Pa, integrated air filter
- Integrated drain pump (850 mm); prepared for external fresh air supply



Digital Inverter CLASSIC – 1-phase – Standard duct unit

INDOOR UNIT OUTDOOR UNIT			RAV-HM801BTP-E RAV-GV801ATP-E	RAV-HM1101BTP-E RAV-GV1101ATP-E	RAV-HM1401BTP-E RAV-GV1401ATP-E	RAV-HM1601BTP-E RAV-GV1601ATP-E*
Cooling capacity	kW	❄	6,70	9,50	11,50	13,00
Cooling range (min.-max.)	kW	❄	1,50 - 8,00	3,00 - 11,20	3,00 - 12,00	3,00 - 14,00
Power consumption (min./nom./max.)	kW	❄	- /2,30/ -	- /3,17/ -	- /4,70/ -	- /5,40/ -
Energy efficiency EER	W/W	❄	2,91	3,00	2,45	2,41
Energy efficiency SEER		❄	5,10	5,10	5,10	4,90
Energy efficiency class		❄	A	A	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	7,00	10,00	11,90	13,50
Heating range (min.-max.)	kW	☀	1,50 - 9,00	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	☀	- /2,33/ -	- /3,00/ -	- /3,90/ -	- /4,00/ -
Energy efficiency COP	W/W	☀	3,00	3,30	3,05	3,38
Energy efficiency SCOP		☀	4,00	3,80	3,80	4,15
Energy efficiency class		☀	A+	A	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A		16	20	25	25
Set price incl. RBC-AMTU31-E	**€**		**3.360,-**	**4.180,-**	**4.550,-**	**5.480,-**

INDOOR UNIT			RAV-HM801BTP-E	RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h		750/930/1200	1260/1650/2100	1260/1650/2100	1260/1650/2100
External static pressure	Pa		30/120	50/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	❄	26/30/34	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	☀	26/30/34	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm		275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg		31	41	41	41
Price	**€**		**1.410,-**	**1.730,-**	**1.790,-**	**1.940,-**

OUTDOOR UNIT			RAV-GV801ATP-E	RAV-GV1101ATP-E	RAV-GV1401ATP-E	RAV-GV1601ATP-E*
Sound pressure level (low/med/high)	dB(A)	❄	48	53	53	57
Sound pressure level (low/med/high)	dB(A)	☀	51	55	60	59
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (¾)	15,9 (¾)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5
Pipe length (max.)	m		30	30	30	30
Height difference (max.)	m		20	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32
Refrigerant charge	kg		1,40	1,70	1,90	2,20
Dimensions (HxWxD)	mm		550 x 780 x 290	630 x 800 x 300	710 x 900 x 320	890 x 900 x 320
Weight	kg		39	45	57	64
Price	**€**		**1.800,-**	**2.300,-**	**2.610,-**	**3.390,-**

* Changing to RAV-GV1601ATP-E1 during the year.
You will find all the control options from page 104 onwards.

Digital Inverter CLASSIC – 3-phase – Standard duct unit

INDOOR UNIT OUTDOOR UNIT			RAV-HM1101BTP-E RAV-GV1101AT8P-E	RAV-HM1401BTP-E RAV-GV1401AT8P-E	RAV-HM1601BTP-E RAV-GV1601AT8P-E*
Cooling capacity	kW	❄	9,50	12,10	13,00
Cooling range (min.-max.)	kW	❄	3,00 - 11,20	3,00 - 14,00	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄	- /3,06/ -	- /4,90/ -	- /5,40/ -
Energy efficiency EER	W/W	❄	3,06	2,47	2,41
Energy efficiency SEER		❄	5,30	5,10	4,90
Energy efficiency class		❄	A	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	10,00	12,30	13,50
Heating range (min.-max.)	kW	☀	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	☀	- /2,94/ -	- /4,10/ -	- /4,00/ -
Energy efficiency COP	W/W	☀	3,40	3,00	3,38
Energy efficiency SCOP		☀	3,80	3,80	4,15
Energy efficiency class		☀	A	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E	**€**		**4.540,-**	**4.810,-**	**6.040,-**

INDOOR UNIT			RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h		1260/1650/2100	1260/1650/2100	1260/1650/2100
External static pressure	Pa		50/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	❄	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	☀	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm		275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg		41	41	41
Price	**€**		**1.730,-**	**1.790,-**	**1.940,-**

OUTDOOR UNIT			RAV-GV1101AT8P-E	RAV-GV1401AT8P-E	RAV-GV1601AT8P-E*
Sound pressure level (low/med/high)	dB(A)	❄	53	53	57
Sound pressure level (low/med/high)	dB(A)	☀	55	60	59
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		30	30	30
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		1,70	1,90	2,20
Dimensions (HxWxD)	mm		710 x 900 x 320	710 x 900 x 320	890 x 900 x 320
Weight	kg		60	60	63
Price	**€**		**2.660,-**	**2.870,-**	**3.950,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AXU31-E	Infrared remote control with external receiver kit for all indoor units	**460,-**
TCB-SF56C6BPE	Connection flange (2 × Ø 200 mm) RAV: Size 5 / VRF: Sizes 5 to 18	**160,-**
TCB-SF80C6BPE	Connection flange (3 × Ø 200 mm) RAV: Size 8 / VRF: Sizes 24 to 30	**190,-**
TCB-SF160C6BPE	Connection flange (4 × Ø 200 mm) RAV: Sizes 11 to 16 / VRF: Sizes 36 to 56	**230,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**

* Changing to RAV-GV1601AT8P-E1 during the year.

You will find all the control options from page 104 onwards.

Standard duct unit

- Combined with DI outdoor unit
- Low installation height of just 275 mm
- External static pressure up to 120 Pa, integrated air filter
- Integrated drain pump (850 mm); prepared for external fresh air supply



Digital Inverter – 1-phase – Standard duct unit

INDOOR UNIT OUTDOOR UNIT			RAV-HM561BTP-E RAV-GM562ATP-E	RAV-HM801BTP-E RAV-GM802ATW-E	RAV-HM901BTP-E RAV-GM902ATW-E	RAV-HM1101BTP-E RAV-GM1102ATW-E	RAV-HM1401BTP-E RAV-GM1402ATW-E	RAV-HM1601BTP-E RAV-GM1602ATW-E
Cooling capacity	kW	❄	5,00	6,70	8,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄	1,50 - 5,60	1,90 - 8,00	1,90 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄	0,31/1,83/ 2,05	0,33/2,02/ 2,77	0,33/2,39/ 2,97	0,64/2,60/ 3,21	0,64/4,01/ 4,52	0,64/5,26/ 6,00
Energy efficiency EER	W/W	❄	2,70	3,32	3,35	3,65	3,02	2,66
Energy efficiency SEER		❄	5,80	6,37	6,75	6,40	6,15	5,90
Energy efficiency class		❄	A+	A++	A++	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	5,30	7,70	8,60	11,20	13,00	16,00
Heating range (min.-max.)	kW	☀	1,50 - 6,30	1,360 - 9,00	1,60 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 17,00
Power consumption (min./nom./max.)	kW	☀	0,31/1,62/ 2,47	0,31/2,04/ 2,66	0,31/2,15/ 2,67	0,74/2,91/ 3,42	0,74/3,55/ 4,62	0,74/4,73/ 5,64
Energy efficiency COP	W/W	☀	3,27	3,77	4,00	3,85	3,66	3,38
Energy efficiency SCOP		☀	4,11	4,30	4,30	4,00	3,92	4,05
Energy efficiency class		☀	A+	A+	A+	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A		16	16	16	25	25	32
Set price incl. RBC-AMTU31-E	**€**		**3.240,-**	**4.010,-**	**4.450,-**	**5.180,-**	**5.500,-**	**6.340,-**

INDOOR UNIT			RAV-HM561BTP-E	RAV-HM801BTP-E	RAV-HM901BTP-E	RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h		480/630/ 800	750/930/ 1200	1000/ - / 1700	1260/1650/ 2100	1260/1650/ 2100	1260/1650/ 2100
External static pressure	Pa		30/120	30/120	30/120	50/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	❄	25/29/33	26/30/34	30/33/37	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	☀	25/29/33	26/30/34	30/33/37	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm		275 x 700 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg		23	31	41	41	41	41
Price	**€**		**1.240,-**	**1.410,-**	**1.620,-**	**1.730,-**	**1.790,-**	**1.940,-**

OUTDOOR UNIT			RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Sound pressure level (low/med/high)	dB(A)	❄	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A)	☀	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5	5	5
Pipe length (max.)	m		30	50	50	50	50	50
Height difference (max.)	m		30	30	30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,90	1,90	1,90	2,40	2,40	2,40
Dimensions (HxWxD)	mm		550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		40	47	47	85	85	88
Price	**€**		**1.850,-**	**2.450,-**	**2.680,-**	**3.300,-**	**3.560,-**	**4.250,-**

You will find all the control options from page 104 onwards.

Digital Inverter – 3-phase – Standard duct unit

INDOOR UNIT OUTDOOR UNIT			RAV-HM1101BTP-E RAV-GM1102AT8W-E	RAV-HM1401BTP-E RAV-GM1402AT8W-E	RAV-HM1601BTP-E RAV-GM1602AT8W-E
Cooling capacity	kW	❄	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄	0,68/2,56/3,17	068/3,94/4,48	0,68/5,14/5,90
Energy efficiency EER	W/W	❄	3,71	3,07	2,72
Energy efficiency SEER		❄	6,00	5,87	5,80
Energy efficiency class		❄	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	11,20	13,00	16,00
Heating range (min.-max.)	kW	☀	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	☀	0,78/2,87/3,38	0,78/3,50/4,58	0,78/4,66/6,92
Energy efficiency COP	W/W	☀	3,90	3,71	3,43
Energy efficiency SCOP		☀	3,92	3,84	3,96
Energy efficiency class		☀	A	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E	**€**		**5.660,-**	**6.040,-**	**6.870,-**

INDOOR UNIT			RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h		1260/1650/2100	1260/1650/2100	1260/1650/2100
External static pressure	Pa		50/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	❄	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	☀	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm		275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg		41	41	41
Price	**€**		**1.730,-**	**1.790,-**	**1.940,-**

OUTDOOR UNIT			RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Sound pressure level (low/med/high)	dB(A)	❄	53	56	57
Sound pressure level (low/med/high)	dB(A)	☀	56	56	56
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		50	50	50
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		2,40	2,40	2,40
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		85	85	88
Price	**€**		**3.780,-**	**4.100,-**	**4.780,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AXU31-E	Infrared remote control with external receiver kit for all indoor units	**460,-**
TCB-SF56C6BPE	Connection flange (2 × Ø 200 mm) RAV: Size 5 / VRF: Sizes 5 to 18	**160,-**
TCB-SF80C6BPE	Connection flange (3 × Ø 200 mm) RAV: Size 8 / VRF: Sizes 24 to 30	**190,-**
TCB-SF160C6BPE	Connection flange (4 × Ø 200 mm) RAV: Sizes 11 to 16 / VRF: Sizes 36 to 56	**230,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**

You will find all the control options from page 104 onwards.

Standard duct unit

- Combined with SDI outdoor unit
- Low installation height of just 275 mm
- External static pressure up to 120 Pa, integrated air filter
- Integrated drain pump (850 mm); prepared for external fresh air supply



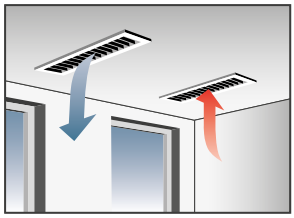
Super Digital Inverter – 1-phase – Standard duct unit

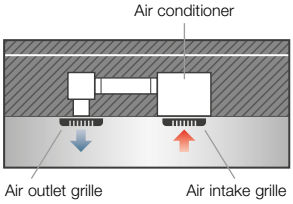
INDOOR UNIT OUTDOOR UNIT			RAV-HM561BTP-E RAV-GP561ATW-E	RAV-HM801BTP-E RAV-GP801ATW-E	RAV-HM1101BTP-E RAV-GP1101AT-E	RAV-HM1401BTP-E RAV-GP1401AT-E1
Cooling capacity	kW	❄	5,00	7,10	10,00	12,50
Cooling range (min.-max.)	kW	❄	1,50 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00
Power consumption (min./nom./max.)	kW	❄	0,31/1,83/2,05	0,25/1,63/3,20	0,65/2,40/3,63	0,65/3,57/3,97
Energy efficiency EER	W/W	❄	2,73	4,36	4,17	3,50
Energy efficiency SEER		❄	5,28	7,86	7,19	6,77
Energy efficiency class		❄	A	A++	A++	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Heating capacity	kW	☀	5,30	8,00	11,20	14,00
Heating range (min.-max.)	kW	☀	1,50 - 6,30	1,30 -11,30	2,60 - 13,00	2,60 - 16,50
Power consumption (min./nom./max.)	kW	☀	0,31/1,62/2,47	0,20/1,85/3,55	0,41/2,73/3,38	0,47/3,63/4,43
Energy efficiency COP	W/W	☀	3,27	4,32	4,10	3,86
Energy efficiency SCOP		☀	4,08	4,85	4,30	4,29
Energy efficiency class		☀	A+	A++	A+	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-27 / +15	-27/ +15	-27 / +15	-27 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A		16	20	25	25
Set price incl. RBC-AMTU31-E	**€**		**3.590,-**	**4.400,-**	**6.180,-**	**6.690,-**

INDOOR UNIT			RAV-HM561BTP-E	RAV-HM801BTP-E	RAV-HM1101BTP-E	RAV-HM1401BTP-E
Airflow	m³/h		480/630/800	750/930/1200	1260/1650/2100	1260/1650/2100
External static pressure	Pa		30/120	30/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	❄	25/29/33	26/30/34	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	☀	25/29/33	26/30/34	33/36/40	33/36/40
Dimensions (HxWxD)	mm		275 x 700 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg		23	31	41	41
Price	**€**		**1.240,-**	**1.410,-**	**1.730,-**	**1.790,-**

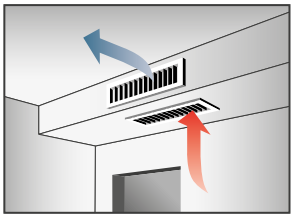
OUTDOOR UNIT			RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Sound pressure level (low/med/high)	dB(A)	❄	46	46	49	50
Sound pressure level (low/med/high)	dB(A)	☀	48	48	50	51
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5
Pipe length (max.)	m		50	50	75	75
Height difference (max.)	m		30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32
Refrigerant charge	kg		1,35	1,30	3,10	3,10
Dimensions (HxWxD)	mm		630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg		45	74	104	104
Price	**€**		**2.200,-**	**2.840,-**	**4.300,-**	**4.750,-**

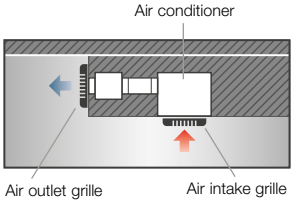
You will find all the control options from page 104 onwards.





In an existing suspended ceiling, the room air is drawn in at the bottom of the air conditioner, where it is conditioned and then blown back into the room via air ducts and a diffuser.





If there is no suspended ceiling available, almost invisible air conditioning can be achieved with a lowered ceiling on just one side of the room.

Super Digital Inverter – 3-phase – Standard duct unit

INDOOR UNIT OUTDOOR UNIT		RAV-HM1101BTP-E RAV-GP1101AT8-E	RAV-HM1401BTP-E RAV-GP1401AT8-E*	RAV-HM1601BTP-E RAV-GP1601AT8-E
Cooling capacity	kW	10,00	12,50	14,00
Cooling range (min.-max.)	kW	2,50 - 12,00	2,60 - 14,00	2,60 - 16,00
Power consumption (min./nom./max.)	kW	0,66/2,58/4,01	0,66/3,81/4,89	0,66/4,49/6,50
Energy efficiency EER	W/W	3,88	3,28	3,12
Energy efficiency SEER		6,10	6,02	5,81
Energy efficiency class		A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	11,20	14,00	16,00
Heating range (min.-max.)	kW	2,40 - 15,60	2,40 - 18,00	2,40 - 19,00
Power consumption (min./nom./max.)	kW	0,53/2,76/4,42	0,53/3,66/5,71	0,53/4,57/6,96
Energy efficiency COP	W/W	4,06	383	3,50
Energy efficiency SCOP		4,19	3,99	3,96
Energy efficiency class		A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	-20/ +15	-20/ +15	-20/ +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
Set price incl. RBC-AMTU31-E	**€**	**6.090,-**	**6.340,-**	**7.070,-**

INDOOR UNIT		RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h	1260/1650/2100	1260/1650/2100	1260/1650/2100
External static pressure	Pa	50/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg	41	41	41
Price	**€**	**1.730,-**	**1.790,-**	**1.940,-**

OUTDOOR UNIT		RAV-GP1101AT8-E	RAV-GP1401AT8-E*	RAV-GP1601AT8-E
Sound pressure level (low/med/high)	dB(A)	49	51	51
Sound pressure level (low/med/high)	dB(A)	50	52	53
Suction gas pipe diameter	mm (inch)	15,9 (¾)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	75	75	75
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,60	2,60	2,60
Dimensions (HxWxD)	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	95	95	95
Price	**€**	**4.210,-**	**4.400,-**	**4.980,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AXU31-E	Infrared remote control with external receiver kit for all indoor units	**460,-**
TCB-SF56C6BPE	Connection flange (2 × Ø 200 mm) RAV: Size 5 / VRF: Sizes 5 to 18	**160,-**
TCB-SF80C6BPE	Connection flange (3 × Ø 200 mm) RAV: Size 8 / VRF: Sizes 24 to 30	**190,-**
TCB-SF160C6BPE	Connection flange (4 × Ø 200 mm) RAV: Sizes 11 to 16 / VRF: Sizes 36 to 56	**230,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**

* Changing to RAV-GP1401AT8-E1 during the year.

You will find all the control options from page 104 onwards.

High-pressure duct unit

- Combined with DI BIG outdoor unit
- For combining with Digital Inverter BIG
- External static pressure adjustable up to 250 Pa



Digital Inverter BIG – 3-phase – High-pressure duct unit

INDOOR UNIT OUTDOOR UNIT			RAV-RM2241DTP-E2 RAV-GM2243AT8P-E	RAV-RM2801DTP-E2 RAV-GM2803AT8P-E
Cooling capacity	kW	❄	19,00	22,50
Cooling range (min.-max.)	kW	❄	4,60 - 22,40	4,60 - 27,00
Power consumption (min./nom./max.)	kW	❄	5,97	8,18
Energy efficiency EER	W/W	❄	3,24	2,82
Energy efficiency SEER		❄	5,82	5,49
Energy efficiency class		❄	-	-
Outdoor temperature operating range (min.-max.)	°C	❄	-20/+46	-20/+46
Heating capacity	kW	☀	22,40	27,00
Heating range (min.-max.)	kW	☀	4,60 - 25,00	4,60 - 31,50
Power consumption (min./nom./max.)	kW	☀	6,91	7,62
Energy efficiency COP	W/W	☀	3,92	3,59
Energy efficiency SCOP		☀	3,78	3,69
Energy efficiency class		☀	-	-
Outdoor temperature operating range (min.-max.)	°C	☀	-27/+15	-27/+15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		-	-
Set price incl. RBC-AMTU31-E	**€**		**11.760,-**	**12.680,-**

INDOOR UNIT			RAV-RM2241DTP-E2	RAV-RM2801DTP-E2
Airflow	m³/h		3800	4800
External static pressure	Pa		50/97/250	50/97/250
Sound pressure level (low/med/high)	dB(A)	❄	-/44/-	-/46/-
Sound pressure level (low/med/high)	dB(A)	☀	-/44/-	-/46/-
Dimensions (HxWxD)	mm		448 x 1400 x 900	448 x 1400 x 900
Weight	kg		97	97
Price	**€**		**4.960,-**	**5.220,-**

OUTDOOR UNIT			RAV-GM2243AT8P-E	RAV-GM2803AT8P-E
Sound pressure level (low/med/high)	dB(A)	❄	58	61
Sound pressure level (low/med/high)	dB(A)	☀	60	63
Suction gas pipe diameter	mm (inch)		28,6 (1 1/8)	28,6 (1 1/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5
Pipe length (max.)	m		100	100
Height difference (max.)	m		30	30
Compressor type			Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32
Refrigerant charge	kg		4,80	4,80
Dimensions (HxWxD)	mm		890 x 1100 x 460	890 x 1100 x 460
Weight	kg		115	115
Price	**€**		**6.650,-**	**7.310,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-AMTU31-E	Standard Wired Remote Control	**150,-**
RBC-AXU31-E	Infrared remote control with external receiver kit for all indoor units	**460,-**
TCB-DP40DPE	Drain pump, RAV: 22 + 28 / VRF: 72 + 96	**440,-**
TCB-LK2801DP-E	Long Life Airfilter kit, for model sizes RAV: 22 + 28 / VRF: 72 + 96	**155,-**
TCB-PCUC2E	Control board for external control, alarms and messages	**200,-**

You will find all the control options from page 104 onwards.

Floor standing unit



- Combined with DI outdoor unit
- Perfect air circulation
- Plug & Play with integrated comfort remote control
- Integrated leak detection system
- Not a stock item – lead time on request
  - Optional accessories: remote control + cover kit

Digital Inverter – 1-phase – Floor standing unit

INDOOR UNIT OUTDOOR UNIT			RAV-HM561FT-E RAV-GM562ATP-E	RAV-HM801FT-E RAV-GM802ATW-E	RAV-HM901FT-E RAV-GM902ATW-E	RAV-HM1101FT-E RAV-GM1102ATW-E	RAV-HM1401FT-E RAV-GM1402ATW-E	RAV-HM1601FT-E RAV-GM1602ATW-E
Cooling capacity	kW	❄	5,00	6,70	8,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄	1,50 - 5,60	1,90 - 8,00	1,90 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄	0,30/1,79/ 2,00	0,37/2,23/ 2,91	0,37/2,42/ 3,02	0,60/2,71/ 3,28	0,60/4,32/ 4,62	0,60/5,632/ 6,19
Energy efficiency EER	W/W	❄	2,79	3,01	3,30	3,50	2,80	2,63
Energy efficiency SEER		❄	5,86	5,53	6,24	6,22	5,53	5,20
Energy efficiency class		❄	A+	A	A++	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	5,30	7,70	8,60	11,20	13,00	16,00
Heating range (min.-max.)	kW	☀	1,50 - 6,30	1,60 - 9,00	1,60 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 17,00
Power consumption (min./nom./max.)	kW	☀	0,22/1,72/ 2,70	0,32/2,48/ 3,17	0,32/2,32/ 3,31	0,70/3,10/ 3,79	0,70/3,95/ 5,03	0,70/5,65/ 6,16
Energy efficiency COP	W/W	☀	3,08	3,11	3,70	3,61	3,29	2,83
Energy efficiency SCOP		☀	4,01	4,00	4,00	3,92	3,90	3,90
Energy efficiency class		☀	A+	A+	A+	A	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A		16	16	16	25	25	32
Set price incl. RBC-AMSU52-E	**€**		**4.785,-**	**5.530,-**	**5.920,-**	**6.675,-**	**7.000,-**	**7.745,-**

INDOOR UNIT			RAV-HM561FT-E	RAV-HM801FT-E	RAV-HM901FT-E	RAV-HM1101FT-E	RAV-HM1401FT-E	RAV-HM1601FT-E
Airflow	m³/h		600/ - / 820	640/ - / 930	820/ - / 1330	1170/ - / 1660	1350/ - / 1760	1350/ - / 1760
Sound pressure level (low/med/high)	dB(A)	❄	38/42/46	41/45/50	37/40/45	41/46/51	45/48/53	45/48/53
Sound pressure level (low/med/high)	dB(A)	☀	38/42/46	41/45/50	37/40/45	41/46/51	45/48/53	45/48/53
Dimensions (HxWxD)	mm		1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
Weight	kg		44	46	59	59	59	59
Price	**€**		**2.730,-**	**2.875,-**	**3.035,-**	**3.170,-**	**3.235,-**	**3.290,-**

OUTDOOR UNIT			RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Sound pressure level (low/med/high)	dB(A)	❄	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A)	☀	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5	5	5
Pipe length (max.)	m		30	50	50	50	50	50
Height difference (max.)	m		30	30	30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,90	1,90	1,90	2,40	2,40	2,40
Dimensions (HxWxD)	mm		550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		40	47	47	85	85	88
Price	**€**		**1.850,-**	**2.450,-**	**2.680,-**	**3.300,-**	**3.560,-**	**4.250,-**

You will find all the control options from page 104 onwards.

Digital Inverter – 3-phase – Floor standing unit

INDOOR UNIT OUTDOOR UNIT			RAV-HM1101FT-E RAV-GM1102AT8W-E	RAV-HM1401FT-E RAV-GM1402AT8W-E	RAV-HM1601FT-E RAV-GM1602AT8W-E
Cooling capacity	kW	❄	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄	0,64/2,67/3,24	0,64/4,24/4,58	0,64/5,22/6,09
Energy efficiency EER	W/W	❄	3,55	2,85	2,68
Energy efficiency SEER		❄	5,88	5,35	5,15
Energy efficiency class		❄	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	11,20	13,00	16,00
Heating range (min.-max.)	kW	☀	3,00 - 15,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	☀	0,74/3,07/3,75	0,74/3,89/4,99	0,74/5,65/7,55
Energy efficiency COP	W/W	☀	3,64	3,34	2,83
Energy efficiency SCOP		☀	3,92	3,90	3,82
Energy efficiency class		☀	A	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		3x 16	3x 16	3x 16
Set price incl. RBC-AMSU52-E	**€**		**7.155,-**	**7.540,-**	**8.275,-**

INDOOR UNIT			RAV-HM1101FT-E	RAV-HM1401FT-E	RAV-HM1601FT-E
Airflow	m³/h		1170/ - /1660	1350/ - /1760	1350/ - /1760
Sound pressure level (low/med/high)	dB(A)	❄	41/46/51	45/48/53	45/48/53
Sound pressure level (low/med/high)	dB(A)	☀	41/46/51	45/48/53	45/48/53
Dimensions (HxWxD)	mm		1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
Weight	kg		59	59	59
Price	**€**		**3.170,-**	**3.235,-**	**3.290,-**

OUTDOOR UNIT			RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Sound pressure level (low/med/high)	dB(A)	❄	53	56	57
Sound pressure level (low/med/high)	dB(A)	☀	56	56	56
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		50	50	50
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		2,40	2,40	2,40
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		85	85	88
Price	**€**		**3.780,-**	**4.100,-**	**4.780,-**

ACCESSORIES	DESCRIPTION	PRICE €
TCB-CKC1F-E	Cover kit to close the remote control slot	**70,-**

You will find all the control options from page 104 onwards.

Floor standing unit



- Combined with SDI outdoor unit
- Perfect air circulation
- Plug & Play with integrated comfort remote control
- Integrated leak detection system
- Not a stock item – lead time on request
  - Optional accessories: remote control + cover kit

Super Digital Inverter – Floor standing unit

			1-phase				3-phase		
INDOOR UNIT OUTDOOR UNIT			**RAV-HM561FT-E RAV-GP561ATW-E**	**RAV-HM801FT-E RAV-GP801ATW-E**	**RAV-HM1101FT-E RAV-GP1101AT-E**	**RAV-HM1401FT-E RAV-GP1401AT-E1**	**RAV-HM1101FT-E RAV-GP1101AT8-E**	**RAV-HM1401FT-E RAV-GP1401AT8-E***	**RAV-HM1601FT-E RAV-GP1601AT8-E**
Cooling capacity	kW	❄	5,00	7,10	10,00	12,30	10,00	12,50	14,00
Cooling range (min.-max.)	kW	❄	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00	2,60 - 12,00	1,60 - 14,00	2,60 - 16,00
Power consumption (min./nom./max.)	kW	❄	0,19/1,42/ 2,00	0,26/2,04/ 3,32	0,60/2,39/ 3,65	0,60/3,78/ 4,07	0,66/2,46/ 4,10	0,66/3,61/ 4,91	0,66/4,39/ 6,50
Energy efficiency EER	W/W	❄	3,51	3,48	4,18	3,25	4,07	3,46	3,19
Energy efficiency SEER		❄	5,87	6,43	6,99	6,49	6,14	6,10	5,88
Energy efficiency class		❄	A+	A++	A++	n/a	A++	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +52	-15 / +52	-15 / +52	-15 / +52	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	☀	5,60	8,00	11,20	13,20	11,20	14,00	16,00
Heating range (min.-max.)	kW	☀	0,90 - 7,00	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50	2,40 - 14,00	2,40 - 18,00	2,40 - 19,00
Power consumption (min./nom./max.)	kW	☀	0,16/1,65/ 2,80	0,20/2,37/ 3,75	0,42/2,76/ 3,85	0,42/4,40/ 4,61	0,53/2,77/ 4,80	0,53/3,81/ 5,95	0,53/4,83/ 6,96
Energy efficiency COP	W/W	☀	3,39	3,38	4,06	3,00	4,04	3,67	3,31
Energy efficiency SCOP		☀	4,21	4,43	4,40	4,38	4,02	4,02	3,98
Energy efficiency class		☀	A+	A+	A+	n/a	A+	n/a	n/a
Outdoor temperature operating range (min.-max.)	°C	☀	-27 / +15	-27/ +15	-27 / +15	-27 / +15	-20/ +15	-20/ +15	-20/ +15
Power supply	V/Ph+N/Hz		220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50
Recommended fusing	A		16	20	25	25	3x 16	3x 16	3x 16
Set price incl. RBC-AMSU52-E	**€**		**5.135,-**	**5.920,-**	**7.675,-**	**8.190,-**	**7.585,-**	**7.840,-**	**8.475,-**

INDOOR UNIT			**RAV-HM561FT-E**	**RAV-HM801FT-E**	**RAV-HM1101FT-E**	**RAV-HM1401FT-E**	**RAV-HM1101FT-E**	**RAV-HM1401FT-E**	**RAV-HM1601FT-E**
Airflow	m³/h		600/ - / 820	640/ - / 930	1170/ - / 1660	1350/ - / 1760	1170/ - / 1660	1350/ - / 1760	1350/ - / 1760
Sound pressure level (low/med/high)	dB(A)	❄	38/42/46	41/45/50	41/46/51	45/48/53	41/46/51	45/48/53	45/48/53
Sound pressure level (low/med/high)	dB(A)	☀	38/42/46	41/45/50	41/46/51	45/48/53	41/46/51	45/48/53	45/48/53
Dimensions (HxWxD)	mm		1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
Weight	kg		44	46	59	59	59	59	59
Price	**€**		**2.730,-**	**2.875,-**	**3.170,-**	**3.235,-**	**3.170,-**	**3.235,-**	**3.290,-**

OUTDOOR UNIT			**RAV-GP561ATW-E**	**RAV-GP801ATW-E**	**RAV-GP1101AT-E**	**RAV-GP1401AT-E1**	**RAV-GP1101AT8-E**	**RAV-GP1401AT8-E***	**RAV-GP1601AT8-E**
Sound pressure level (low/med/high)	dB(A)	❄	46	46	49	50	49	51	51
Sound pressure level (low/med/high)	dB(A)	☀	48	48	50	51	50	52	53
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)	15,9 (¾)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5	5	5	5
Pipe length (max.)	m		50	50	75	75	75	75	75
Height difference (max.)	m		30	30	30	30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		1,35	1,30	3,10	3,10	2,60	2,60	2,60
Dimensions (HxWxD)	mm		630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg		45	74	104	104	95	95	95
Price	**€**		**2.200,-**	**2.840,-**	**4.300,-**	**4.750,-**	**4.210,-**	**4.400,-**	**4.980,-**

ACCESSORIES	**DESCRIPTION**	**PRICE €**
TCB-CKC1F-E	Cover kit to close the remote control slot	**70,-**

* Changing to RAV-GP1401AT8-E1 during the year.

You will find all the control options from page 104 onwards.

Direct expansion kits

INTEGRATION OF 3RD PARTY HEAT EXCHANGERS

The direct expansion (DX) kit allows heat exchangers from other manufacturers to be incorporated into a TOSHIBA system. It is ideal for use with air handling units or air curtains. The wiring is ready to connect. An appropriate valve kit is needed for use.

DX-kit

Integrate 3rd party heat exchangers



The DX-kit is an efficient direct expansion kit consisting of a control cabinet and sensors. It is ideal for use with air handling units and air curtains. The controller can be flexibly configured for exhaust air temperature or 0 – 10 V capacity control.

Compatible with outdoor units from the following product lines:

- Digital Inverter
- Super Digital Inverter
- Digital Inverter BIG
- Digital Inverter BIG single fan

Data:

- Cooling capacity: 3.0 – 27.0 kW
- Heating capacity: 4.5 – 31.5 kW
- Airflow: 450 - 5040 m^3/h

TYPE	Power supply	Dimensions (HxWxD)	Weight	PRICE €
	V/Ph+N/Hz	mm	kg	
TCB-IFDLR01UP-E	220-240/1+N/50	420 x 330 x 122	4,1	**1.180,-**



RAV split solutions for one temperature zone

- Cost-effective multi-solutions for one temperature zone
- Twin, triple, and double twin split combinations with up to four indoor units
- The indoor unit models must be identical for multi solutions (same type and capacity)
- Not for Digital Inverter CLASSIC

Branch assembly kits for multi installations

DIGITAL INVERTER BIG

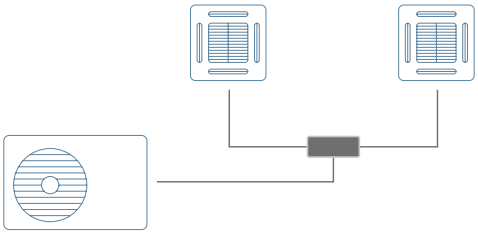
ACCESSORIES	DESCRIPTION	PRICE €
RBC-TWP102-E	Branch for twin kit - 22.40 and 28.00 kW	**315,-**
RBC-TRP100E	Triple kit - DI BIG: 22.40 and 28.00 kW / DI + SDI: 16.00 kW	**430,-**
RBC-DTWP102-E	Branch for double twin kit - 22.40 and 28.00 kW	**435,-**

DIGITAL INVERTER / SUPER DIGITAL INVERTER

ACCESSORIES	DESCRIPTION	PRICE €
RBC-TWP31-E	Branch for twin kit - up to 11.20 kW	**145,-**
RBC-TWP50E2	Branch for twin kit - 14.00 kW	**150,-**
RBC-TRP100E	Triple kit - DI BIG: 22.40 and 28.00 kW / DI + SDI: 16.00 kW	**430,-**

TWIN

Digital / Super Digital Inverter

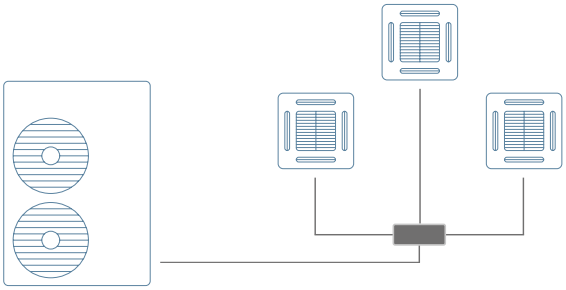


Combination options

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
11.2	5.6 + 5.6	RBC-TWP-31-E
14.0	8.0 + 8.0	RBC-TWP-31-E

TRIPLE

Digital / Super Digital Inverter

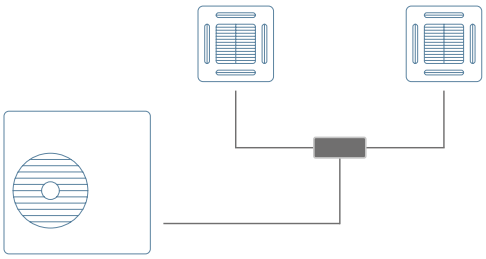


Combination options

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
16	5.6 + 5.6 + 5.6	RBC-TRP100E

TWIN

Digital Inverter BIG single fan

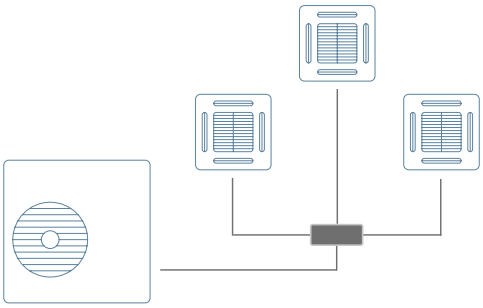


Combination options

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
22.4	11.2 + 11.2	RBC-TWP102-E
28.0	14.0 + 14.0	RBC-TWP102-E

TRIPLE

Digital Inverter BIG single fan

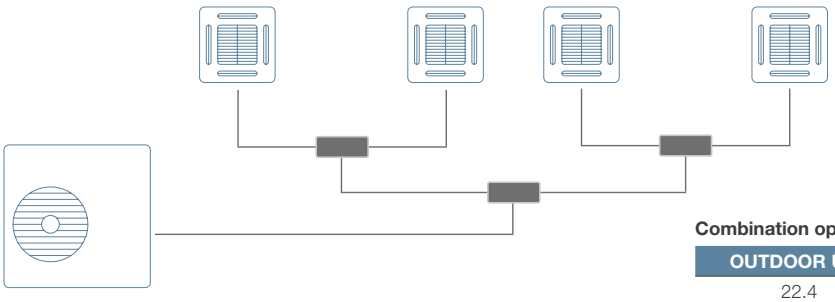


Combination options

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
22.4	8.0 + 8.0 + 8.0	RBC-TRP100E
28.0	8.0 + 8.0 + 8.0	RBC-TRP100E

DOUBLE TWIN

Digital Inverter BIG single fan



Combination options

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
22.4	5.6 + 5.6 + 5.6 + 5.6	RBC-DTWP102-E
28.0	8.0 + 8.0 + 8.0 + 8.0	RBC-DTWP102-E

Excerpts – refer to the appropriate data books for the full combinations, data, and values.

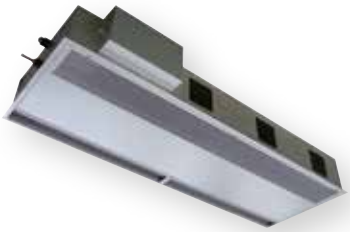
Air curtain

› Heating operation or efficient airlock for entrance areas

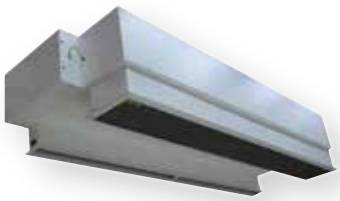
Available upon request



Free-hanging unit



Cassette unit



Built-in unit



Digital Inverter CLASSIC

- Robust CLASSIC Line with compact & lightweight chassis
- Durable and efficient
- Operating range from -15°C to +46°C
- Pipe lengths up to 30 m



Digital Inverter CLASSIC – 1-phase

OUTDOOR UNIT		RAV-GV561ATP-E	RAV-GV801ATP-E	RAV-GV1101ATP-E	RAV-GV1401ATP-E	RAV-GV1601ATP-E*
Cooling capacity	kW ❄	5,00	6,70	9,50	11,50	13,00
Heating capacity	kW ☀	5,30	7,00	10,00	11,90	13,50
Sound pressure level (low/med/high)	dB(A) ❄	46	48	53	53	57
Sound pressure level (low/med/high)	dB(A) ☀	48	51	55	60	59
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,3 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5
Pipe length (max.)	m	30	30	30	30	30
Height difference (max.)	m	20	20	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Recommended fusing	A	16	16	20	25	25
Refrigerant		R32	R32	R32	R32	R32
Refrigerant charge	kg	0,90	1,40	1,70	1,90	2,20
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	710 x 900 x 320	890 x 900 x 320
Weight	kg	36	39	45	57	64
Price	**€**	**1.390,-**	**1.800,-**	**2.300,-**	**2.610,-**	**3.390,-**

* Changing to RAV-GV1601ATP-E1 during the year.

Digital Inverter CLASSIC – 3-phase

OUTDOOR UNIT		RAV-GV1101AT8P-E	RAV-GV1401AT8P-E	RAV-GV1601AT8P-E*
Cooling capacity	kW ❄	9,50	12,10	13,00
Heating capacity	kW ☀	10,00	12,30	13,50
Sound pressure level (low/med/high)	dB(A) ❄	53	53	57
Sound pressure level (low/med/high)	dB(A) ☀	55	60	59
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	30	30	30
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
Refrigerant		R32	R32	R32
Refrigerant charge	kg	1,70	1,90	2,20
Dimensions (HxWxD)	mm	710 x 900 x 320	710 x 900 x 320	890 x 900 x 320
Weight	kg	60	60	63
Price	**€**	**2.660,-**	**2.870,-**	**3.950,-**

* Changing to RAV-GV1601AT8P-E1 during the year.

Digital Inverter

- Compact – durable – efficient
- Easy install features
- Easy commissioning functions
- 3-level silent setting



Digital Inverter – 1-phase

OUTDOOR UNIT			RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Cooling capacity	kW	❄	2,50	3,60	5,00	6,70	8,00	9,50	12,10	14,00
Heating capacity	kW	☀	3,40	4,00	5,30	7,70	8,60	11,20	13,00	16,00
Sound pressure level (low/med/high)	dB(A)	❄	46	49	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A)	☀	47	50	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		2	2	5	5	5	5	5	5
Pipe length (max.)	m		20	20	30	50	50	50	50	50
Height difference (max.)	m		10	10	30	30	30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A		10	10	16	16	16	25	25	32
Refrigerant			R32	R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,60	0,90	0,90	1,30	2,00	2,40	2,40	2,40
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		33	39	40	47	47	85	85	88
Price	**€**		**1.270,-**	**1.550,-**	**1.850,-**	**2.450,-**	**2.680,-**	**3.300,-**	**3.560,-**	**4.250,-**

Digital Inverter – 3-phase

OUTDOOR UNIT			RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Cooling capacity	kW	❄	9,50	12,10	14,00
Heating capacity	kW	☀	11,20	13,00	16,00
Sound pressure level (low/med/high)	dB(A)	❄	53	56	57
Sound pressure level (low/med/high)	dB(A)	☀	56	56	56
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		50	50	50
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		3x 16	3x 16	3x 16
Refrigerant			R32	R32	R32
Refrigerant charge	kg		2,40	2,40	2,40
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		85	85	88
Price	**€**		**3.780,-**	**4.100,-**	**4.780,-**

Super Digital Inverter

- Compact – durable – highly efficient
- Operating range from -27°C to +52°C
- Pipe lengths up to 75 m



Super Digital Inverter – 1-phase

OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Cooling capacity	kW ❄	5,00	7,10	10,00	12,50
Heating capacity	kW ☀	5,60	8,00	11,20	14,00
Sound pressure level (low/med/high)	dB(A) ❄	46	46	49	50
Sound pressure level (low/med/high)	dB(A) ☀	48	48	50	51
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,3 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	3
Pipe length (max.)	m	50	50	75	75
Height difference (max.)	m	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Recommended fusing	A	16	20	25	25
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,90	3,10	3,10
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg	45	74	104	104
Price	**€**	**2.200,-**	**2.840,-**	**4.300,-**	**4.750,-**

Super Digital Inverter – 3-phase

OUTDOOR UNIT		RAV-GP1101AT8-E	RAV-GP1401AT8-E*	RAV-GP1601AT8-E
Cooling capacity	kW ❄	10,00	12,50	14,00
Heating capacity	kW ☀	11,20	14,00	16,00
Sound pressure level (low/med/high)	dB(A) ❄	49	51	51
Sound pressure level (low/med/high)	dB(A) ☀	50	52	53
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	75	75	75
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,60	2,60	2,60
Dimensions (HxWxD)	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	95	95	95
Price	**€**	**4.210,-**	**4.400,-**	**4.980,-**

* Changing to RAV-GP1401AT8-E1 during the year.

Digital Inverter BIG Single Fan

- Robust 3-phase endurance runner
- Compact and powerful
- Operating range from -27°C to +52°C
- Pipe lengths up to 100 m



Digital Inverter BIG single fan – 3-phase

OUTDOOR UNIT		RAV-GM2243AT8P-E	RAV-GM2803AT8P-E
Cooling capacity	kW ❄	19,00	22,50
Heating capacity	kW ☀	22,40	25,00
Sound pressure level (low/med/high)	dB(A) ❄	58	61
Sound pressure level (low/med/high)	dB(A) ☀	60	63
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5
Pipe length (max.)	m	100	100
Height difference (max.)	m	30	30
Compressor type		Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	-	-
Refrigerant		R32	R32
Refrigerant charge	kg	4,80	4,80
Dimensions (HxWxD)	mm	890 x 1100 x 460	890 x 1100 x 460
Weight	kg	115	115
Price	**€**	**6.650,-**	**7.310,-**



Quick overview of outdoor units

TYPE	Pipe length (min.)	Pipe length (max.)	Pre-charged up to	Height difference (max.)	Suction gas pipe diameter	Liquid pipe diameter	Refrigerant charge	Added refrigerant charge
	m	m	m	m	mm (inch)	mm (inch)	kg	g/m
DIGITAL INVERTER CLASSIC 1-phase								
RAV-GV561ATP-E	5	30	20	20	12,7 (½)	6,3 (¼)	0,90	20
RAV-GV801ATP-E	5	30	20	20	15,9 (5/8)	9,5 (3/8)	1,40	35
RAV-GV1101ATP-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	1,70	35
RAV-GV1401ATP-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	1,90	35
RAV-GV1601ATP-E*	5	30	30	30	15,9 (5/8)	9,5 (3/8)	2,20	35
DIGITAL INVERTER CLASSIC 3-phase								
RAV-GV1101AT8P-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	1,70	35
RAV-GV1401AT8P-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	1,90	35
RAV-GV1601AT8P-E*	5	30	30	30	15,9 (5/8)	9,5 (3/8)	2,20	35
DIGITAL INVERTER NEXT 1-phase								
RAV-GM302ATP-E	2	20	15	10	9,5 (3/8)	6,3 (¼)	0,60	20
RAV-GM402ATP-E	2	20	15	10	12,7 (½)	6,3 (¼)	0,90	20
RAV-GM562ATP-E	5	30	20	30	12,7 (½)	6,3 (¼)	0,90	20
RAV-GM802ATW-E	5	50	20	30	15,9 (5/8)	9,5 (3/8)	1,30	35
RAV-GM902ATW-E	5	50	20	30	15,9 (5/8)	9,5 (3/8)	2,00	35
RAV-GM1102ATW-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,40	35
RAV-GM1402ATW-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,40	35
RAV-GM1602ATW-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,40	35
DIGITAL INVERTER NEXT 3-phase								
RAV-GM1102AT8W-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,40	35
RAV-GM1402AT8W-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,40	35
RAV-GM1602AT8W-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,40	35
SUPER DIGITAL INVERTER 1-phase								
RAV-GP561ATW-E	5	50	20	30	12,7 (½)	6,3 (¼)	1,35	20
RAV-GP801ATW-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	1,90	35
RAV-GP1101AT-E	5	75	30	30	15,9 (5/8)	9,5 (3/8)	3,10	35
RAV-GP1401AT-E1	3	75	30	30	15,9 (5/8)	9,5 (3/8)	3,10	35
SUPER DIGITAL INVERTER 3-phase								
RAV-GP1101AT8-E	5	75	30	30	15,9 (5/8)	9,5 (3/8)	2,60	40
RAV-GP1401AT8-E*	5	75	30	30	15,9 (5/8)	9,5 (3/8)	2,60	40
RAV-GP1601AT8-E	5	75	30	30	15,9 (5/8)	9,5 (3/8)	2,60	40
DIGITAL INVERTER BIG Single Fan 3 phase								
RAV-GM2243AT8P-E	5	100	30	30	28,6 (1 1/8)	9,5 (3/8)	4,80	40
RAV-GM2803AT8P-E	5	100	30	30	28,6 (1 1/8)	9,5 (3/8)	4,80	80

* Changing to RAV-GV1601ATP-E1, RAV-GV1601AT8P-E1, and RAV-GP1401AT8-E1 during the year.

Current Consumption + Fusing

TYPE	Current consumption (max.)	Current consumption (nom.)	Power consumption (min./nom./max.)	Power consumption (min./nom./max.)	Recommended fusing	Power supply	Recommended power supply line type	Communication line
	A	A	kW ❄	kW ☀	A	V/Ph+N/Hz		
DIGITAL INVERTER CLASSIC 1-phase								
RAV-GV561ATP-E	15,00	6,80	- /1,60/ -	- /1,40/ -	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GV801ATP-E	15,00	9,45	- /2,30/ -	- /2,33/ -	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GV1101ATP-E	-	13,53	- /3,17/ -	- /3,00/ -	20	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GV1401ATP-E	-	19,80	- /4,70/ -	- /3,90/ -	25	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GV1601ATP-E*	-	23,00	- /5,40/ -	- /4,00/ -	25	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
DIGITAL INVERTER CLASSIC 3-phase								
RAV-GV1101AT8P-E	-	-	- /3,06/ -	- /2,94/ -	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GV1401AT8P-E	-	-	- /4,90/ -	- /4,10/ -	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GV1601AT8P-E*	-	-	- /5,40/ -	- /4,00/ -	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
DIGITAL INVERTER NEXT 1-phase								
RAV-GM302ATP-E	7,90	2,7	0,18/0,59/0,82	0,17/0,76/1,40	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAV-GM402ATP-E	9,20	4,4	0,18/0,90/2,00	0,14/0,95/1,70	10	220-240/1+N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAV-GM562ATP-E	15,00	8,5	0,26/1,56/1,86	0,26/1,36/2,08	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GM802ATW-E	8,57	8,57	0,37/2,23/2,91	0,32/2,48/3,17	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GM902ATW-E	9,84	9,84	0,37/2,42/3,02	0,32/2,32/3,31	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GM1102ATW-E	22,50	13,8	0,60/2,71/3,28	0,70/3,10/3,79	25	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
RAV-GM1402ATW-E	23,00	20,5	0,60/4,32/4,62	0,70/3,95/5,03	25	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
RAV-GM1602ATW-E	29,20	21,64	0,60/5,632/6,19	0,70/5,65/6,16	32	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
DIGITAL INVERTER NEXT 3-phase								
RAV-GM1102AT8W-E	3x 11,60	3x 4,6	0,64/2,67/3,24	0,74/3,07/3,75	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GM1402AT8W-E	3x 13,40	3x 6,80	0,64/4,24/4,58	0,74/3,89/4,99	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GM1602AT8W-E	3x 14,60	3x 7,31	0,64/5,22/6,09	0,74/5,65/7,55	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
SUPER DIGITAL INVERTER 1-phase								
RAV-GP561ATW-E	13,10	7,1	0,19/1,22/1,97	0,16/1,30/2,76	16	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GP801ATW-E	20,80	7,6	0,26/2,04/3,32	0,20/2,37/3,75	20	220-240/1+N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GP1101AT-E	22,80	8,3	0,56/1,90/2,80	0,41/2,18/2,98	25	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
RAV-GP1401AT-E1	22,80	13,3	0,59/2,91/3,40	0,41/3,04/4,18	25	220-240/1+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
SUPER DIGITAL INVERTER 3-phase								
RAV-GP1101AT8-E	3x 16,40	3x 4,70	0,66/2,32/3,60	0,53/2,41/4,30	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GP1401AT8-E*	3x 16,40	3x 6,50	0,66/3,42/3,60	0,53/3,41/5,50	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GP1601AT8-E	3x 16,40	3x 7,50	0,66/4,34/5,70	0,53/4,28/6,51	3x 16	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
DIGITAL INVERTER BIG Single Fan 3 phase								
RAV-GM2243AT8P-E	-	-	5,97	6,91	-	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GM2803AT8P-E	-	-	8,18	7,62	-	380-415/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5

* Changing to RAV-GV1601ATP-E1, RAV-GV1601AT8P-E1, and RAV-GP1401AT8-E1 during the year.

Sound Power Level / Sound Pressure

TYPE	Sound power level	Sound power level	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Sound pressure level (night operation, @ 1m)
	dB(A) ❄	dB(A) ☀	dB(A) ❄	dB(A) ☀	dB(A) ❄
DIGITAL INVERTER CLASSIC 1-phase					
RAV-GV561ATP-E	63	65	46	48	-
RAV-GV801ATP-E	65	68	48	51	-
RAV-GV1101ATP-E	70	72	53	55	-
RAV-GV1401ATP-E	70	77	53	60	-
RAV-GV1601ATP-E*	74	76	57	59	-
DIGITAL INVERTER CLASSIC 3-phase					
RAV-GV1101AT8P-E	70	72	53	55	-
RAV-GV1401AT8P-E	70	77	53	60	-
RAV-GV1601AT8P-E*	74	76	57	59	-
DIGITAL INVERTER NEXT 1-phase					
RAV-GM302ATP-E	61	62	46	47	43/44
RAV-GM402ATP-E	64	65	49	50	46/47
RAV-GM562ATP-E	63	65	46	48	41/43
RAV-GM802ATW-E	68	71	50	52	-
RAV-GM902ATW-E	68	71	52	55	44
RAV-GM1102ATW-E	70	73	53	56	-
RAV-GM1402ATW-E	73	74	56	56	-
RAV-GM1602ATW-E	74	74	57	56	-
DIGITAL INVERTER NEXT 3-phase					
RAV-GM1102AT8W-E	70	73	53	56	-
RAV-GM1402AT8W-E	73	74	56	56	-
RAV-GM1602AT8W-E	74	74	57	56	-
SUPER DIGITAL INVERTER 1-phase					
RAV-GP561ATW-E	63	65	46	48	41/43
RAV-GP801ATW-E	63	65	46	48	41/43
RAV-GP1101AT-E	66	67	49	50	44/45
RAV-GP1401AT-E1	67	68	50	51	-
SUPER DIGITAL INVERTER 3-phase					
RAV-GP1101AT8-E	66	67	49	50	45
RAV-GP1401AT8-E*	68	69	51	52	45
RAV-GP1601AT8-E	68	70	51	53	45
DIGITAL INVERTER BIG Single Fan 3 phase					
RAV-GM2243AT8P-E	75	77	58	60	-
RAV-GM2803AT8P-E	78	80	61	63	-

* Changing to RAV-GV1601ATP-E1, RAV-GV1601AT8P-E1, and RAV-GP1401AT8-E1 during the year.

Sound pressure night operation: with noise reduction module, cable set, DIP switch, or remote control.
See external control options.

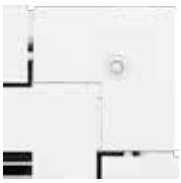
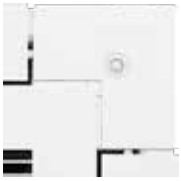
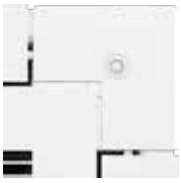


Local wired remote controls

	TYPE / DESCRIPTION	PRICE €
	**RBC-AS41E** Simplified wired remote control • To control all main functions of an indoor unit, or a group of up to 8 indoor units • Compatible with all indoor units that have an A/B remote control bus • DN codes cannot be set	**150,-**
	**RBC-AMTU31-E** Standard Wired Remote Control • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Compatible with all RAV-/VRF-indoor units that have an A/B remote control bus • Compatible with RAS 1-way FLAT cassette und 60x60 SLIM cassette S4MUVG-E (no groups) • 168 hour On/Off timer • DN codes can be set	**150,-**
	**RBC-AMS41E** Wired remote control with integrated weekly timer • To control all the functions of an indoor unit, or a group of up to 8 indoor units • Compatible with all indoor units that have an A/B remote control bus • Weekly timer integrated, 8 events/day, 6 parameters/event can be programmed • DN codes can be set	**160,-**
	**RBC-ASCU32Y-E** Compact wired remote control with sensor buttons • Slimline version of standard wired remote control • Convenient operation via five sensor buttons • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Compatible with all RAV-/VRF-indoor units that have an A/B remote control bus • Compatible with RAS 1-way FLAT cassette und 60x60 SLIM cassette S4MUVG-E (no groups) • Off timer • Child lock • Ventilation control screen for HRV heat exchangers • DN codes can be set	**100,-**
	**RBC-AMSU52-E** Wired comfort remote control PLUS • Design & function update for the wired comfort remote control • For controlling all the functions of an indoor unit or a group of up to 16 indoor units • Compatible with all RAV-/VRF-indoor units that have an A/B remote control bus • Compatible with RAS 1-way FLAT cassette und 60x60 SLIM cassette S4MUVG-E (no groups) • DN codes can be set • Comfort control for server room functions • Ventilation control screen for HRV heat exchangers	**205,-**
	**RBC-AWSU52-E** Wired comfort remote control PLUS BT • Design & function update for the wired comfort remote control • With BLUETOOTH support for smartphones • For controlling all the functions of an indoor unit or a group of up to 16 indoor units • Compatible with all RAV-/VRF-indoor units that have an A/B remote control bus • Compatible with RAS 1-way FLAT cassette und 60x60 SLIM cassette S4MUVG-E (no groups) • DN codes can be set • Comfort control for server room functions • Ventilation control screen for HRV heat exchangers	**225,-**
	**RBC-MTSC1** Local touch lite remote control • To control all the functions of an indoor unit, or a group of up to 8 indoor units • Compatible with all indoor units that have an A/B remote control bus • Controlled via 4.5\\\" color touch display • Personalized graphics for screen & logo via upload (480x272) • DN codes can be set • Not a stock item - lead time on request	**485,-**
	**TCB-TC41U-E** Remote Temperature Sensor • Compatible with all indoor units that have an A/B remote control bus • When exact temperature measurement is not possible using the sensor in the indoor unit or in the wired remote control. • Takes priority over the unit and remote control sensor	**135,-**

Local infrared remote controls

	TYPE / DESCRIPTION	PRICE €
	**RBC-AXU31-E** Infrared remote control with external receiver kit for all indoor units • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	**460,-**
	**RBC-AXU31C-E** Infrared remote control + receiver kit for installation in ceiling unit • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	**355,-**
	**RBC-AXU31UW-E** Infrared remote control + receiver kit for installation in 2-way cassette • To control all the functions of an indoor unit, or a group of up to 16 indoor units. • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	**375,-**
	**RBC-AX33UYP-E** Infrared remote control + receiver kit for installation in 1-way cassette • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	**80,-**
	**RBC-AXU31UMP-E** Infrared remote control + receiver kit WHITE for installation in 60x60 slim cassette • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	**170,-**
	**RBC-AXU41U-E** Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette	**315,-**
	**RBC-AXU33UP-E** Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, pure white	**215,-**
	RBC-AXU33UPB-E Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, BLACK	**235,-**
	**RBC-AXU31U-E** Infrared remote control + receiver kit for installation in 4-way standard cassette • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	**325,-**

	TYPE / DESCRIPTION	PRICE €
	**TCB-SIR41UMP-E** Occupancy sensor kit WHITE for installation in 60x60 slim cassette • Automatic motion detection in room • If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standby mode • Requires RBC-AMSU52-E wired remote control • Required for every cassette in the group in the case of group control	**120,-**
	**TCB-SIR41U-E** Occupancy sensor kit for installation in smart cassette • Automatic motion detection in room • If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standby mode • Requires RBC-AMSU52-E wired remote control • Required for every cassette in the group in the case of group control	**130,-**
	**TCB-SIR33UP-E** Occupancy sensor kit for installation in FLAT Panel	**125,-**

Mobile / APP / KNX® control options

	TYPE / DESCRIPTION	PRICE €
	**TO-RC-KNX-1i** Module for controlling all the functions of an indoor unit via the KNX® Bus. • Compatible with all indoor units that have an A/B remote control bus • KNX® bus system required	**580,-**
	**BMS-IWF0010UCP-E** WiFi 1:1 interface for mobile control via smartphone or tablet • WiFi 1:1 interface for mobile control via smartphone or tablet • Compatible with all RAV-/VRF-indoor units that have an A/B remote control bus • Compatible with RAS 1-way FLAT cassette und 60x60 SLIM cassette S4MUVG-E (no groups) • Controls all main functions of an indoor unit or a group of up to 16 indoor units • Energy monitoring (for RAS 4-/1-way cassette, RAV DI-Classic, DI, DI-BIG, SDI 1-Ph/230V) • Read out of error codes possible • Internet/intranet access required • Free app for iOS (from 9.0) or Android (from 5.0)	**180,-**

External control options

	TYPE / DESCRIPTION	PRICE €
	**TCB-IFCB5-PE** External on/off PCB, window contact module • Potential-free contact for on/off and window contact input. • Remote ON/OFF function	80,-
	TCB-PX100-PE Casing for outdoor installation of window contact module for high-wall units	95,-
	TCB-PX30MUE Casing for indoor installation for 4-way standard cassette	135,-
	TCB-PX40MUME Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette	135,-
	**TCB-PCUC2E** Control board for external control, alarms and messages • Connection to CN521 • 3 analog inputs • 3 potential-free digital inputs/outputs • Input and output functions configurable via rotary switch	200,-
	TCB-PX30MUE Casing for indoor installation for 4-way standard cassette	135,-
	TCB-PX40MUME Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette	135,-
	**TCB-IFCB-4E2** Operating, error signal, remote On/Off module • Operating and error signal output • Can be connected to the master unit of a group to handle the I/O control and error messages of up to 16 indoor units • For connecting to a CN61 • Potential-free contact	475,-
	**RBC-FDP3-PE** Analog Interface • Compatible with all indoor units that have an A/B remote control bus • Controls all main functions via 0-10V signals or fixed resistors • Operating and error signal output • Modbus connection possible	700,-
	**TO-RC-MBS-1** Modbus Interface • Compatible with all indoor units that have an A/B remote control bus • Control of all main functions • Facilitates the addressing of up to 63 interfaces in an RS485 network to control multi-zone systems • Read out of all error codes possible	620,-
	**TO-RC-BAC-1** BACnet® 1:1 interface • Compatible with all indoor units that have an A/B remote control bus • Control of all main functions • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Not a stock item - lead time on request	780,-

External control options

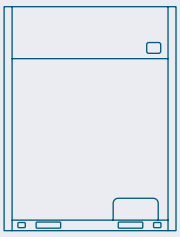
	TYPE / DESCRIPTION	PRICE €
	**TCB-PCOS1E2** Noise reduction module • Compatible with R32 outdoor units DI CLASSIC, DI NEXT (562 to 1602), SDI 1-phase • Input for noise reduction (night operation) • Input for max. capacity control 0/50/75 % • Output for compressor operating signal	**330,-**
	**TCB-KBOS4E** Noise Reduction Cable Set • Compatible with R32 outdoor units DI-BIG & SDI, 3-phase • Input for noise reduction (night operation) • Input for max. capacity control 0/50/75 % • Output for compressor operating signal	**50,-**
	**TCB-PCNT30TLE2** TCC / TU2C link network adapter • For integrating RAV in VRF control systems • Supports the interfacing of network units such as central or BMS controllers to RAV systems • For indoor units • Already integrated in all high-wall units	**165,-**
	TCB-PX30MUE Casing for indoor installation for 4-way standard cassette	**135,-**
	TCB-PX40MUME Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette	**135,-**
	**TCB-ACREDU2-E** Redundancy Box • Redundancy switchover unit for two indoor units (or groups) in the event of a fault • Operating hours-dependent switchover for two indoor units • Temperature-dependent activation of second system • Connection to CN61 of indoor units • Plug & Play, temperature sensor included • LAN port, monitoring via web browser possible.	**2.050,-**
	**TCB-KBCN32VEE** CN32 - DO: Control of an external fan	**6,-**
	**TCB-KBCN600PE** CN60 - DO: Operating signal cooling, heating, fan, defrost, thermo On	**11,-**
	**TCB-KBCN61HAE** CN61 - DI/DO: HA terminal: On/Off, enable/block, operating performance, alarm	**11,-**
	**TCB-KBCN700AE** CN70 - DI: external alarm input	**6,-**
	**TCB-KBCN73DEE** CN73 - DI: external thermo Off input	**6,-**
	**TCB-KBCN80EXE** CN80 - DI: external alarm input	**6,-**



PLAN FOR EXCELLENCE.
COOL EXCELLENTLY.

OVERVIEW OF VRF OUTDOOR UNITS

- Integration of heating, cooling, hot water preparation & fresh air supply
- Systems for heating or cooling, and for heating & cooling at the same time
- Capacities up to 335 kW for cooling and heating
- Up to 128 indoor units can be connected
- External heat exchanger can be integrated
- Convenient control options for all needs



SMMSu

Cooling capacity (kW): 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 56.0 | 61.5 | 67.0

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MiNi SMMS R32

Cooling capacity (kW): 12.1 | 14.0 | 15.5

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MiNi SMMS SINGLE FAN

Cooling capacity (kW): 12.1 | 14.0

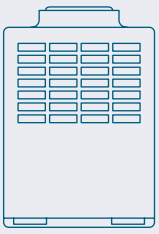
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MiNi SMMSe

Cooling capacity (kW): 12.1 | 14.0 | 15.5 | 22.4 | 28.0

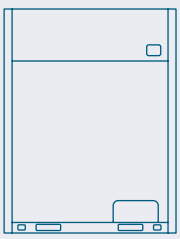
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SHRMe

Cooling capacity (kW): 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 56.0

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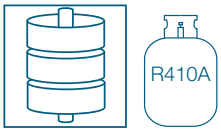
SHRMa

Cooling capacity: 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 56.0 | 61.5 | 67.0

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SMMSu outdoor units

- 2-pipe outdoor units for up to 128 indoor units
- Latest generation – universally combinable
- With new defrost technology and high-speed system bus
- Maximum efficiency, operational reliability, and service-friendliness
- Leading-edge flexibility in terms of pipework & control options
- SEER efficiency values up to 7.73 – SCOP efficiency values up to 4.79
- Controls locally hard-wired or infrared, central and/or via BMS
- World's first triple rotary compressor

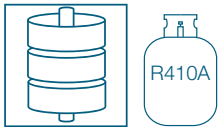


SMMSu
SUPER MODULAR MULTI SYSTEM



OUTDOOR UNIT		MMY-MUP0801HT8P-E	MMY-MUP1001HT8P-E	MMY-MUP1201HT8P-E	MMY-MUP1401HT8P-E
Capacity code	HP	8	10	12	14
Cooling capacity	kW ❄	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW ❄	5,64	8,36	10,34	14,55
Energy efficiency SEER	❄	7,44	7,73	7,32	7,05
Running current	A ❄	9,15	13,4	16,0	22,6
Heating capacity	kW ☀	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW ☀	5,28	7,20	7,77	10,00
Energy efficiency SCOP	☀	4,50	4,78	4,75	4,60
Running current	A ☀	8,56	11,5	12,1	15,5
Airflow	m³/h	9900	10500	11700	11880
External static pressure	Pa	80	80	80	80
Sound pressure level (low/med/high)	dB(A) ❄	53	55	58	58
Sound pressure level (low/med/high)	dB(A) ☀	56	58	62	62
Sound power level	dB(A) ❄	75	77	79	79
Sound power level	dB(A) ☀	76	77	81	82
Compressor type		1x Twin-Rotary	1x Twin-Rotary	1x Twin-Rotary	1x Twin-Rotary
Liquid pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	12,7 (½)	15,9 (5/8)
Suction gas pipe diameter	mm (inch)	19,1 (¾)	22,2 (7/8)	28,6 (1 1/8)	28,6 (1 1/8)
Outdoor temperature operating range (min.-max.)	°C ❄	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Outdoor temperature operating range (min.-max.)	°C ☀	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 20	3x 25	3x 32	3x 32
Pipe length (max.)	m	500	500	500	500
Height difference (max.)	m	110	110	110	110
Refrigerant		R410A	R410A	R410A	R410A
Refrigerant charge	kg	6,00	6,00	6,00	6,00
Dimensions (HxWxD)	mm	1690 x 990 x 780	1690 x 990 x 780	1690 x 990 x 780	1690 x 990 x 780
Weight	kg	228	228	228	228
Price	**€**	**12.860,-**	**13.440,-**	**14.680,-**	**17.610,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBM-FGUS1P-E	Fin protection kit for SMMSu and SHRMa outdoor units - 8 to 14 HP chassis	**310,-**





OUTDOOR UNIT			MMY-MUP1601HT8P-E	MMY-MUP1801HT8P-E	MMY-MUP2001HT8P-E	MMY-MUP2201HT8P-E	MMY-MUP2401HT8P-E1
Capacity code	HP		16	18	20	22	24
Cooling capacity	kW	❄	45,00	50,40	56,00	61,50	67,00
Power consumption (min./nom./max.)	kW	❄	14,06	15,90	18,01	20,43	24,19
Energy efficiency SEER		❄	7,71	7,68	7,62	7,23	6,87
Running current	A	❄	21,6	24,4	27,7	31,4	37,1
Heating capacity	kW	☀	45,00	50,40	56,00	61,50	64,50
Power consumption (min./nom./max.)	kW	☀	11,94	12,54	14,93	16,18	18,98
Energy efficiency SCOP		☀	4,79	4,75	4,43	4,44	4,17
Running current	A	☀	18,3	19,3	22,9	24,8	29,1
Airflow	m³/h		15300	16800	15900	16500	16500
External static pressure	Pa		80	80	80	80	80
Sound pressure level (low/med/high)	dB(A)	❄	60	61	63	63	63
Sound pressure level (low/med/high)	dB(A)	☀	63	67	67	67	67
Sound power level	dB(A)	❄	83	84	86	86	86
Sound power level	dB(A)	☀	86	89	90	90	90
Compressor type			1x Triple-Rotary	1x Triple-Rotary	1x Triple-Rotary	2x Twin-Rotary	2x Twin-Rotary
Liquid pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	19,1 (¾)	19,1 (¾)
Suction gas pipe diameter	mm (inch)		28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)	34,9 (1 3/8)
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +52	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5
Power supply	V/Ph+N/Hz		380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50
Recommended fusing	A		3x 40	3x 40	3x 40	3x 63	3x 63
Pipe length (max.)	m		500	500	500	500	500
Height difference (max.)	m		110	110	110	110	110
Refrigerant			R410A	R410A	R410A	R410A	R410A
Refrigerant charge	kg		9,00	9,00	9,00	9,00	9,00
Dimensions (HxWxD)	mm		1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780
Weight	kg		312	312	334	356	356
Price	**€**		**18.880,-**	**20.350,-**	**21.810,-**	**23.260,-**	**25.240,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBM-FGUM1P-E	Fin protection kit for SMMSu and SHRMa outdoor units - 16 to 24 HP chassis	**350,-**

SMMSu combination tables



OUTDOOR UNIT			MMY-MUP0801HT8P-E	MMY-MUP1001HT8P-E	MMY-MUP1201HT8P-E	MMY-MUP1401HT8P-E
Capacity code	HP		8	10	12	14
Combined units			-	-	-	-
Cooling capacity	kW	❄	22,40	28,00	33,50	40,00
Heating capacity	kW	☀	22,40	28,00	33,50	40,00
Connectable indoor units (max.)	Pce.		18	22	27	31



OUTDOOR UNIT			MMY-MUP1601HT8P-E	MMY-MUP1801HT8P-E	MMY-MUP2001HT8P-E	MMY-MUP2201HT8P-E	MMY-MUP2401HT8P-E1
Capacity code	HP		16	18	20	22	24
Combined units			-	-	-	-	-
Cooling capacity	kW	❄	45,00	50,40	56,00	61,50	67,00
Heating capacity	kW	☀	45,00	50,40	56,00	61,50	64,50
Connectable indoor units (max.)	Pce.		36	40	45	49	54





OUTDOOR UNIT			MMY-UP2611HT8P-E	MMY-UP2811HT8P-E	MMY-UP3011HT8P-E	MMY-UP3211HT8P-E	MMY-UP3411HT8P-E	MMY-UP3611HT8P-E	MMY-UP3811HT8P-E
Capacity code	HP		26	28	30	32	34	36	38
Combined units			14 + 12	14 + 14	18 + 12	20 + 12	20 + 14	24 + 12	24 + 14
Cooling capacity	kW	❄	73,50	80,00	83,90	89,50	96,00	100,50	107,00
Heating capacity	kW	☀	73,50	80,00	83,90	89,50	96,00	100,50	107,00
Connectable indoor units (max.)	Pce.		58	63	64	65	66	67	68





OUTDOOR UNIT			MMY-UP4011HT8P-E	MMY-UP4211HT8P-E	MMY-UP4411HT8P-E	MMY-UP4611HT8P-E	MMY-UP4811HT8P-E	MMY-UP5011HT8P-E	MMY-UP5211HT8P-E
Capacity code	HP		40	42	44	46	48	50	52
Combined units			20 + 20	24 + 18	24 + 20	24 + 22	24 + 24	24 + 14 + 12	24 + 14 + 14
Cooling capacity	kW	❄	112,00	117,40	123,00	128,50	134,00	140,50	147,00
Heating capacity	kW	☀	112,00	117,40	123,00	128,50	134,00	140,50	147,00
Connectable indoor units (max.)	Pce.		69	70	71	72	73	74	75



OUTDOOR UNIT		MMY-UP5411HT8P-E	MMY-UP5611HT8P-E	MMY-UP5811HT8P-E	MMY-UP6011HT8P-E	MMY-UP6211HT8P-E	MMY-UP6411HT8P-E
Capacity code	HP	54	56	58	60	62	64
Combined units		20 + 20 + 14	24 + 20 + 12	24 + 20 + 14	24 + 24 + 12	24 + 24 + 14	24 + 20 + 20
Cooling capacity	kW ❄	152,00	156,50	163,00	167,50	174,00	179,00
Heating capacity	kW ☀	152,00	156,50	163,00	167,50	174,00	179,00
Connectable indoor units (max.)	Pce.	76	77	78	79	80	81





OUTDOOR UNIT		MMY-UP6611HT8P-E	MMY-UP6811HT8P-E	MMY-UP7011HT8P-E	MMY-UP7211HT8P-E	MMY-UP7411HT8P-E	MMY-UP7611HT8P-E
Capacity code	HP	66	68	70	72	74	76
Combined units		24 + 22 + 20	24 + 24 + 20	24 + 24 + 22	24 + 24 + 24	24 + 24 + 14 + 12	24 + 24 + 14 + 14
Cooling capacity	kW ❄	184,50	190,00	195,50	201,00	207,50	214,00
Heating capacity	kW ☀	184,50	190,00	195,50	201,00	207,50	214,00
Connectable indoor units (max.)	Pce.	82	83	84	85	86	87



OUTDOOR UNIT		MMY-UP7811HT8P-E	MMY-UP8011HT8P-E	MMY-UP8211HT8P-E	MMY-UP8411HT8P-E	MMY-UP8611HT8P-E	MMY-UP8811HT8P-E
Capacity code	HP	78	80	82	84	86	88
Combined units		24 + 20 + 20 + 14	24 + 24 + 20 + 12	24 + 24 + 20 + 14	24 + 24 + 24 + 12	24 + 24 + 24 + 14	24 + 24 + 20 + 20
Cooling capacity	kW ❄	219,00	223,50	230,00	234,50	241,00	246,00
Heating capacity	kW ☀	219,00	223,50	230,00	234,50	241,00	246,00
Connectable indoor units (max.)	Pce.	88	90	92	94	96	98





OUTDOOR UNIT		MMY-UP9011HT8P-E	MMY-UP9211HT8P-E	MMY-UP9411HT8P-E	MMY-UP9611HT8P-E	MMY-UP9811HT8P-E	MMY-UP10011HT8P-E
Capacity code	HP	90	92	94	96	98	100
Combined units		24 + 24 + 22 + 20	24 + 24 + 24 + 20	24 + 24 + 24 + 22	24 + 24 + 24 + 24	24+24+24+14+12	24+24+24+14+14
Cooling capacity	kW ❄	251,50	257,00	262,50	268,00	274,50	281,00
Heating capacity	kW ☀	251,50	257,00	262,50	268,00	274,50	281,00
Connectable indoor units (max.)	Pce.	100	102	104	106	108	110

SMMSu combination tables



OUTDOOR UNIT		MMY-UP10211HT8P-E	MMY-UP10411HT8P-E	MMY-UP10611HT8P-E	MMY-UP10811HT8P-E	MMY-UP11011HT8P-E
Capacity code	HP	102	104	106	108	110
Combined units		24 + 24 + 20 + 20 +14	24 + 24 + 24 + 20 + 12	24 + 24 + 24 + 20 + 14	24 + 24 + 24 + 24 + 12	24 + 24 + 24 + 24 + 14
Cooling capacity	kW ❄	286,00	290,50	297,00	301,50	308,00
Heating capacity	kW ☀	286,00	290,50	297,00	301,50	308,00
Connectable indoor units (max.)	Pce.	112	114	116	118	120



OUTDOOR UNIT		MMY-UP11211HT8P-E	MMY-UP11411HT8P-E	MMY-UP11611HT8P-E	MMY-UP11811HT8P-E	MMY-UP12011HT8P-E
Capacity code	HP	112	114	116	118	120
Combined units		24 + 24 + 24 + 20 + 20	24 + 24 + 24 + 22 + 20	24 + 24 + 24 + 24 + 20	24 + 24 + 24 + 24 + 22	24 + 24 + 24 + 24 + 24
Cooling capacity	kW ❄	313,00	318,50	324,00	329,50	335,00
Heating capacity	kW ☀	313,00	318,50	324,00	329,50	335,00
Connectable indoor units (max.)	Pce.	122	124	126	128	128



SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP2611HT8P-E	MMY-UP2811HT8P-E	MMY-UP3011HT8P-E	MMY-UP3211HT8P-E
Capacity code	HP	26	28	30	32
Cooling capacity	kW ❄	73,50	80,00	83,90	89,50
Power consumption (min./nom./max.)	kW ❄	24,89	29,10	26,24	28,35
Energy efficiency SEER	❄	7,17	7,05	7,52	7,50
Heating capacity	kW ☀	73,50	80,00	83,90	89,50
Power consumption (min./nom./max.)	kW ☀	17,77	20,00	20,31	22,70
Energy efficiency SCOP	☀	4,67	4,60	4,75	4,55
Airflow	m³/h	11800 + 11700	2 x 11800	15900 + 11880	16500 + 11700
Liquid pipe diameter	mm (inch)	19,1 (¾)	19,1 (¾)	19,1 (¾)	19,1 (¾)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Sound pressure level (low/med/high)	dB(A) ❄	61,5	64,2	63,0	64,5
Sound pressure level (low/med/high)	dB(A) ☀	65,5	65,5	68,5	68,5
Sound power level	dB(A) ❄	82,5	82,5	85,5	87,0
Sound power level	dB(A) ☀	85	85	90,0	91,0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2 x 228	2 x 228	334 + 228	356 + 228
Price	**€**	**32.290,-**	**35.220,-**	**35.030,-**	**36.490,-**

OUTDOOR UNIT		MMY-UP3411HT8P-E	MMY-UP3611HT8P-E	MMY-UP3811HT8P-E	MMY-UP4011HT8P-E
Capacity code	HP	34	36	38	40
Cooling capacity	kW ❄	96,00	100,50	107,00	112,00
Power consumption (min./nom./max.)	kW ❄	32,56	34,53	38,74	36,02
Energy efficiency SEER	❄	7,38	7,01	6,93	7,62
Heating capacity	kW ☀	96,00	100,50	107,00	112,00
Power consumption (min./nom./max.)	kW ☀	24,93	26,75	28,98	29,86
Energy efficiency SCOP	☀	4,50	4,38	4,33	4,43
Airflow	m³/h	15900 + 11880	16500 + 11700	16500 + 11880	2 x 15900
Liquid pipe diameter	mm (inch)	19,1 (¾)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Sound pressure level (low/med/high)	dB(A) ❄	64.5	64.5	64.5	66.5
Sound pressure level (low/med/high)	dB(A) ☀	68.5	68.5	68.5	70.5
Sound power level	dB(A) ❄	87.0	87.0	87.0	89.5
Sound power level	dB(A) ☀	91.0	91.0	91.0	93.5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	334 + 228	356 + 228	356 + 228	334 + 334
Price	**€**	**39.420,-**	**39.920,-**	**42.850,-**	**43.620,-**

SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP4211HT8P-E	MMY-UP4411HT8P-E	MMY-UP4611HT8P-E	MMY-UP4811HT8P-E
Capacity code	HP	42	44	46	48
Cooling capacity	kW ❄	117,40	123,00	128,50	134,00
Power consumption (min./nom./max.)	kW ❄	40,09	42,20	44,62	48,38
Energy efficiency SEER	❄	7,22	7,21	7,04	6,87
Heating capacity	kW ☀	117,40	123,00	128,50	134,00
Power consumption (min./nom./max.)	kW ☀	31,52	33,91	35,16	37,96
Energy efficiency SCOP	☀	4,43	4,30	4,31	4,17
Airflow	m³/h	16500 + 16800	16500 + 15900	2 x 16500	2 x 16500
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Sound pressure level (low/med/high)	dB(A) ❄	65.5	88.5	89.5	66.5
Sound pressure level (low/med/high)	dB(A) ☀	70.5	70.5	70.5	70.5
Sound power level	dB(A) ❄	88.5	88.5	88.5	89.5
Sound power level	dB(A) ☀	93.0	93.0	93.0	93.5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	356 + 312	356 + 334	356 + 356	356 + 356
Price	**€**	**45.590,-**	**47.050,-**	**48.500,-**	**50.480,-**

OUTDOOR UNIT		MMY-UP5011HT8P-E	MMY-UP5211HT8P-E	MMY-UP5411HT8P-E	MMY-UP5611HT8P-E
Capacity code	HP	50	52	54	56
Cooling capacity	kW ❄	140,50	147,00	152,00	156,50
Power consumption (min./nom./max.)	kW ❄	49,08	53,29	50,57	52,54
Energy efficiency SEER	❄	7,02	6,96	7,49	7,23
Heating capacity	kW ☀	140,50	147,00	152,00	156,50
Power consumption (min./nom./max.)	kW ☀	36,75	38,98	39,86	41,68
Energy efficiency SCOP	☀	4,44	4,41	4,47	4,41
Airflow	m³/h	16500 + 11880 + 11700	16500 + 2x 11880	2x 15900 + 11880	16500 + 15900 + 11700
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Sound pressure level (low/med/high)	dB(A) ❄	66.5	65.5	67.0	67.0
Sound pressure level (low/med/high)	dB(A) ☀	70.5	69.5	71.0	71.0
Sound power level	dB(A) ❄	89.5	87.5	89.5	89.5
Sound power level	dB(A) ☀	93.5	91.5	93.5	93.5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	356 + 2x 228	356 + 2x 228	2x 334 + 228	356 + 334 + 228
Price	**€**	**57.530,-**	**60.460,-**	**61.230,-**	**61.730,-**

SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP5811HT8P-E	MMY-UP6011HT8P-E	MMY-UP6211HT8P-E	MMY-UP6411HT8P-E
Capacity code	HP	58	60	62	64
Cooling capacity	kW ❄	163,00	167,50	174,00	179,00
Power consumption (min./nom./max.)	kW ❄	56,75	58,72	62,93	60,21
Energy efficiency SEER	❄	7,19	6,95	6,29	7,34
Heating capacity	kW ☀	163,00	167,50	174,00	179,00
Power consumption (min./nom./max.)	kW ☀	43,91	45,73	47,96	48,84
Energy efficiency SCOP	☀	4,37	4,30	4,27	4,34
Airflow	m³/h	16500 + 15900 + 11700	2x 16500 + 11700	2x 16500 + 11880	16500 + 2x 15900
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	44,5 (1 3/4)	44,5 (1 3/4)
Sound pressure level (low/med/high)	dB(A) ❄	67.0	67.0	67.0	67.0
Sound pressure level (low/med/high)	dB(A) ☀	71.0	71.0	71.0	71.0
Sound power level	dB(A) ❄	89.5	89.5	89.5	89.5
Sound power level	dB(A) ☀	93.5	93.5	93.5	93.5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	356 + 334 + 228	2x 356 + 228	2x 356 + 228	356 + 2x 334
Price	**€**	**64.660,-**	**65.160,-**	**68.090,-**	**68.860,-**

OUTDOOR UNIT		MMY-UP6611HT8P-E	MMY-UP6811HT8P-E	MMY-UP7011HT8P-E	MMY-UP7211HT8P-E
Capacity code	HP	66	68	70	72
Cooling capacity	kW ❄	184,50	190,00	195,50	201,00
Power consumption (min./nom./max.)	kW ❄	62,63	66,39	68,81	72,57
Energy efficiency SEER	❄	7,21	7,09	6,98	6,87
Heating capacity	kW ☀	184,50	190,00	195,50	201,00
Power consumption (min./nom./max.)	kW ☀	50,09	52,89	54,14	56,94
Energy efficiency SCOP	☀	4,35	4,26	4,26	4,17
Airflow	m³/h	2x 16500 + 15900	2x 16500 + 15900	3x 165000	3x 165000
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	44,5 (1 3/4)	44,5 (1 3/4)	44,5 (1 3/4)	44,5 (1 3/4)
Sound pressure level (low/med/high)	dB(A) ❄	68.0	68.0	68.0	68.0
Sound pressure level (low/med/high)	dB(A) ☀	72.0	72.0	72.0	72.0
Sound power level	dB(A) ❄	91.0	91.0	91.0	91.0
Sound power level	dB(A) ☀	95.0	95.0	95.0	95.0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2x 356 + 334	2x 356 + 334	3x 356	3x 356
Price	**€**	**70.310,-**	**72.290,-**	**73.740,-**	**75.720,-**

SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP7411HT8P-E	MMY-UP7611HT8P-E	MMY-UP7811HT8P-E	MMY-UP8011HT8P-E
Capacity code	HP	74	76	78	80
Cooling capacity	kW ❄	207,50	214,00	219,00	223,50
Power consumption (min./nom./max.)	kW ❄	73,27	77,48	74,76	76,73
Energy efficiency SEER	❄	6,97	6,93	7,30	7,14
Heating capacity	kW ☀	207,50	214,00	219,00	223,50
Power consumption (min./nom./max.)	kW ☀	55,73	57,96	58,84	60,66
Energy efficiency SCOP	☀	4,36	4,33	4,39	4,34
Airflow	m³/h	2x 16500 + 11880 + 11700	2x 16500 + 2x 11880	16500 + 2x15900 + 11880	2x 16500 + 15900 + 11700
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	44,5 (1 3/4)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Sound pressure level (low/med/high)	dB(A) ❄	68.0	67.5	68.5	68.5
Sound pressure level (low/med/high)	dB(A) ☀	72.0	71.5	72.5	72.5
Sound power level	dB(A) ❄	91.0	90.0	91.5	91.5
Sound power level	dB(A) ☀	95.0	94.0	95.0	95.0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2x 356 + 2x 228	2x 356 + 2x 228	356 + 2x 334 + 228	2x 356 + 334 + 228
Price	**€**	**82.770,-**	**85.700,-**	**86.470,-**	**86.970,-**

OUTDOOR UNIT		MMY-UP8211HT8P-E	MMY-UP8411HT8P-E	MMY-UP8611HT8P-E	MMY-UP8811HT8P-E
Capacity code	HP	82	84	86	88
Cooling capacity	kW ❄	230,00	234,50	241,00	246,00
Power consumption (min./nom./max.)	kW ❄	80,94	82,91	87,12	84,40
Energy efficiency SEER	❄	7,10	6,95	6,91	7,21
Heating capacity	kW ☀	230,00	234,50	241,00	246,00
Power consumption (min./nom./max.)	kW ☀	62,89	64,71	66,94	67,82
Energy efficiency SCOP	☀	4,32	4,26	4,25	4,30
Airflow	m³/h	2x 16500 + 15900 + 11880	3x 16500 + 11700	3x 16500 + 11880	2x 16500 + 2x 15900
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Sound pressure level (low/med/high)	dB(A) ❄	68.5	68.5	68.5	68.5
Sound pressure level (low/med/high)	dB(A) ☀	72.5	72.5	72.5	72.5
Sound power level	dB(A) ❄	91.5	91.5	91.5	91.5
Sound power level	dB(A) ☀	95.0	95.0	95.0	95.0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2x 356 + 334 + 228	3x 356 + 228	3x 356 + 228	2x 356 + 2x 334
Price	**€**	**89.900,-**	**90.400,-**	**93.330,-**	**94.100,-**

SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP9011HT8P-E	MMY-UP9211HT8P-E	MMY-UP9411HT8P-E	MMY-UP9611HT8P-E
Capacity code	HP	90	92	94	96
Cooling capacity	kW ❄	251,50	257,00	262,50	268,00
Power consumption (min./nom./max.)	kW ❄	86,82	90,58	93,00	96,76
Energy efficiency SEER	❄	7,12	7,03	6,95	6,87
Heating capacity	kW ☀	251,50	257,00	262,50	268,00
Power consumption (min./nom./max.)	kW ☀	69,07	71,87	73,12	75,92
Energy efficiency SCOP	☀	4,30	4,24	4,24	4,17
Airflow	m³/h	3x 16500 + 15900	3x 16500 + 15900	4x 16500	4x 16500
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Sound pressure level (low/med/high)	dB(A) ❄	69.5	69.5	69.5	69.5
Sound pressure level (low/med/high)	dB(A) ☀	73.5	73.5	73.5	73.5
Sound power level	dB(A) ❄	92.5	92.5	92.5	92.5
Sound power level	dB(A) ☀	96.5	96.5	96.5	96.5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	3x 356 + 334	3x 356 + 334	4x 356	4x 356
Price	**€**	**95.550,-**	**97.530,-**	**98.980,-**	**100.960,-**

OUTDOOR UNIT		MMY-UP9811HT8P-E	MMY-UP10011HT8P-E	MMY-UP10211HT8P-E	MMY-UP10411HT8P-E
Capacity code	HP	98	100	102	104
Cooling capacity	kW ❄	274,50	281,00	286,00	290,50
Power consumption (min./nom./max.)	kW ❄	97,46	101,67	98,98	100,92
Energy efficiency SEER	❄	6,95	6,94	7,20	7,08
Heating capacity	kW ☀	274,50	281,00	286,00	290,50
Power consumption (min./nom./max.)	kW ☀	74,71	76,94	77,82	79,64
Energy efficiency SCOP	☀	4,31	4,30	4,34	4,30
Airflow	m³/h	3x 16500 + 11880 + 11700	3x 16500 + 2x 11880	2x 16500 + 2x 15900 + 11880	3x 16500 + 15900 + 11700
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Sound pressure level (low/med/high)	dB(A) ❄	69.5	69.0	69.5	69.5
Sound pressure level (low/med/high)	dB(A) ☀	73.5	73.0	73.0	73.0
Sound power level	dB(A) ❄	92.5	91.5	91.5	91.5
Sound power level	dB(A) ☀	96.5	95.5	95.5	95.5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	3x 356 + 2x 228	3x 356 + 2x 228	2x 356 + 2x 334 + 228	3x 356 + 334 +228
Price	**€**	**108.010,-**	**110.940,-**	**111.710,-**	**112.210,-**

SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP10611HT8P-E	MMY-UP10811HT8P-E	MMY-UP11011HT8P-E	MMY-UP11211HT8P-E
Capacity code	HP	106	108	110	112
Cooling capacity	kW ❄	297,00	301,50	308,00	313,00
Power consumption (min./nom./max.)	kW ❄	105,13	107,10	111,31	108,59
Energy efficiency SEER	❄	7,04	6,93	6,90	7,13
Heating capacity	kW ☀	297,00	301,50	308,00	313,00
Power consumption (min./nom./max.)	kW ☀	81,87	83,69	85,92	86,80
Energy efficiency SCOP	☀	4,29	4,24	4,23	4,28
Airflow	m³/h	3x 16500 + 15900 + 11880	4x 16500 + 11700	4x 16500 + 11880	3x 16500 + 2x 15900
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Sound pressure level (low/med/high)	dB(A) ❄	69.5	69.5	69.5	69.5
Sound pressure level (low/med/high)	dB(A) ☀	73.0	73.0	73.0	73.0
Sound power level	dB(A) ❄	91.5	91.5	91.5	91.5
Sound power level	dB(A) ☀	95.5	95.5	95.5	95.5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	3x 356 + 334 +228	4x 356 + 228	4x 356 + 228	3x 356 + 2x 334
Price	**€**	**115.140,-**	**115.640,-**	**118.570,-**	**119.340,-**

OUTDOOR UNIT		MMY-UP11411HT8P-E	MMY-UP11611HT8P-E	MMY-UP11811HT8P-E	MMY-UP12011HT8P-E
Capacity code	HP	114	116	118	120
Cooling capacity	kW ❄	318,50	324,00	329,50	335,00
Power consumption (min./nom./max.)	kW ❄	111,01	114,77	117,19	120,95
Energy efficiency SEER	❄	7,07	7,00	6,93	6,87
Heating capacity	kW ☀	318,50	324,00	329,50	335,00
Power consumption (min./nom./max.)	kW ☀	88,05	90,85	92,10	94,90
Energy efficiency SCOP	☀	4,28	4,22	4,23	4,17
Airflow	m³/h	4x 16500 + 15900	4x 16500 + 15900	5x 16500	5x 16500
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Sound pressure level (low/med/high)	dB(A) ❄	70.0	70.0	70.0	70.0
Sound pressure level (low/med/high)	dB(A) ☀	74.0	74.0	74.0	74.0
Sound power level	dB(A) ❄	93.0	93.0	93.0	93.0
Sound power level	dB(A) ☀	97.0	97.0	97.0	97.0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	4x 356 + 334	4x 356 + 334	5x 356	5x 356
Price	**€**	**120.790,-**	**122.770,-**	**124.220,-**	**126.200,-**

MiNi SMMS R32 outdoor units

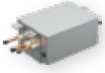
- Ultra-compact 2-pipe outdoor unit for up to 13 indoor units
- Optimum protection of the environment: made in Europe with low GWP refrigerant
- Quiet: 3-stage night operation to reduce noise
- Comprehensive and simple safety concept
- SEER efficiency values up to 9.98 – SCOP efficiency values up to 5.21
- Controls locally hard-wired or infrared, central and/or via BMS





OUTDOOR UNIT			MCY-MUG0401HSW-E	MCY-MUG0501HSW-E	MCY-MUG0601HSW-E
Cooling capacity	kW	❄	12,10	14,00	15,50
Power consumption (min./nom./max.)	kW	❄	2,92	3,73	4,29
Energy efficiency EER	W/W	❄	4,14	3,75	3,61
Energy efficiency SEER		❄	9,98	9,21	8,80
Running current	A	❄	13,1	16,3	18,6
Heating capacity	kW	☀	12,10	14,00	15,50
Power consumption (min./nom./max.)	kW	☀	2,38	2,95	3,36
Energy efficiency COP	W/W	☀	5,08	4,75	4,61
Energy efficiency SCOP		☀	5,21	4,93	4,80
Running current	A	☀	10,9	13,2	14,8
Airflow	m³/h		4560	4740	4740
Outdoor temperature operating range (min.-max.)	°C	❄	-5 / +46	-5 / +46	-5 / +46
Outdoor temperature operating range (min.-max.)	°C	☀	-20 / +15	-20 / +15	-20 / +15
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Sound pressure level (low/med/high)	dB(A)	❄	52	53	54
Sound pressure level (low/med/high)	dB(A)	☀	54	55	56
Suction gas pipe diameter	mm (inch)		15,8 (5/8)	15,8 (5/8)	15,8 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (max.)	m		300	300	300
Height difference (max.)	m		40/50	40/50	40/50
Connectable indoor units (max.)	Pce.		8	10	13
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		2,40	2,40	2,40
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		100	100	100
Price	**€**		**6.425,-**	**6.570,-**	**7.170,-**

ACCESSORIES	DESCRIPTION	PRICE €
TCB-LD1UPE	Leak detection sensor - MiNi SMMS R32	**400,-**
TCB-BT1UPE	Battery kit for shut-off valve and flow box - SHRMa / MiNi SMMS R32	**380,-**
RBM-SV1121HUPE	Shut-off valve kit - SHRMa / MiNi SMMS R32	**1.110,-**
RBM-SV1801HUPE	Shut-off valve kit - SHRMa / MiNi SMMS R32 4,0 up to ≤ 6,4 HP	**1.230,-**

	ITEM NUMBER	DESCRIPTION
	Leak detection sensor TCB-LD1UPE	› Stand-alone › Power supply via the indoor unit › 10 year service life for sensor
	Battery TCB-BT1UPE	› Guarantees the shut-off function even in a power blackout › 5-year service life › For installation in the flow box or shut-off box
	Shut-off box RBM-SV_HUPE	› For isolating leaking indoor units from the main refrigerant circuit › Only required in 2-pipe operation since all flow boxes contain shut-off valves.

MiNi SMMS single fan outdoor units

- Ultra-compact 2-pipe outdoor unit for up to 10 indoor units
- SEER efficiency values up to 8.08 – SCOP efficiency values up to 5.36
- Controls locally hard-wired or infrared, central and/or via BMS





OUTDOOR UNIT		MCY-MHP0406HT-E	MCY-MHP0506HT-E1
Cooling capacity	kW ❄	12,10	14,00
Power consumption (min./nom./max.)	kW ❄	3,24	3,94
Energy efficiency EER	W/W ❄	3,73	3,23
Energy efficiency SEER	❄	8,08	7,77
Running current	A ❄	13,8	17,9
Heating capacity	kW ☀	12,50	16,00
Power consumption (min./nom./max.)	kW ☀	2,83	3,86
Energy efficiency COP	W/W ☀	4,42	4,00
Energy efficiency SCOP	☀	3,83	3,88
Running current	A ☀	12,80	17,50
Airflow	m^3/h	4020	4260
Outdoor temperature operating range (min.-max.)	°C ❄	-5 / +46	-5 / +46
Outdoor temperature operating range (min.-max.)	°C ☀	-20 / +15	-20 / +15
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50
Sound pressure level (low/med/high)	dB(A) ❄	54	54
Sound pressure level (low/med/high)	dB(A) ☀	57	58
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Pipe length (max.)	m	90	90
Height difference (max.)	m	15/15	15/15
Connectable indoor units (max.)	Pce.	8	10
Compressor type		1x Twin-Rotary	1x Twin-Rotary
Refrigerant		R410A	R410A
Refrigerant charge	kg	3,30	3,30
Dimensions (HxWxD)	mm	910 x 990 x 390	910 x 990 x 390
Weight	kg	100	100
Price	**€**	**5.280,-**	**5.380,-**

MiNi SMMSe outdoor units

- Compact 2-pipe outdoor unit for up to 13 indoor units
- SEER efficiency values up to 9.68 – SCOP efficiency values up to 7.19
- Controls locally hard-wired or infrared, central and/or via BMS





MiNi SMMSe – 3-phase

OUTDOOR UNIT			MCY-MHP0404HS8-E	MCY-MHP0504HS8-E	MCY-MHP0604HS8-E	MCY-MHP0806HS8-E	MCY-MHP1006HS8-E
Cooling capacity	kW	❄	12,10	14,00	15,50	22,40	28,00
Power consumption (min./nom./max.)	kW	❄	2,82	3,47	4,25	6.67	9,34
Energy efficiency EER	W/W	❄	4,29	4,03	3,65	3,36	3,00
Energy efficiency SEER		❄	-	-	-	8,09	7,40
Running current	A	❄	4,50	5,40	6,70	10,6	14,5
Heating capacity	kW	☀	12,50	16,00	18,00	22,40	28,00
Power consumption (min./nom./max.)	kW	☀	2,57	3,72	4,27	5,20	7,00
Energy efficiency COP	W/W	☀	4,86	4,40	4,22	4,31	4,00
Energy efficiency SCOP		☀	4,19	4,25	4,38	4,50	4,38
Running current	A	☀	4,20	5,80	6,60	8,2	10,9
Airflow	m³/h		5660	5820	6050	8460	8820
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Outdoor temperature operating range (min.-max.)	°C	☀	-20 / +15,5	-20 / +15,5	-20 / +15,5	-20 / +15	-20 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50
Sound pressure level (low/med/high)	dB(A)	❄	49	50	51	58	59
Sound pressure level (low/med/high)	dB(A)	☀	52	53	54	59	60
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	19,1 (¾)	19,1 (¾)	22,2 (7/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (max.)	m		180	180	180	300	300
Height difference (max.)	m		20/30	20/30	20/30	30	30
Connectable indoor units (max.)	Pce.		8	10	13	12	16
Compressor type			1x Twin Rotary	1x Twin Rotary	1x Twin Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R410A	R410A	R410A	R410A	R410A
Refrigerant charge	kg		6,40	6,40	6,40	4,40	4,40
Dimensions (HxWxD)	mm		1235 x 990 x 390	1235 x 990 x 390	1235 x 990 x 390	1740 x 990 x 390	1740 x 990 x 390
Weight	kg		125	125	125	147	147
Price	**€**		**6.170,-**	**6.310,-**	**6.900,-**	**9.810,-**	**10.060,-**

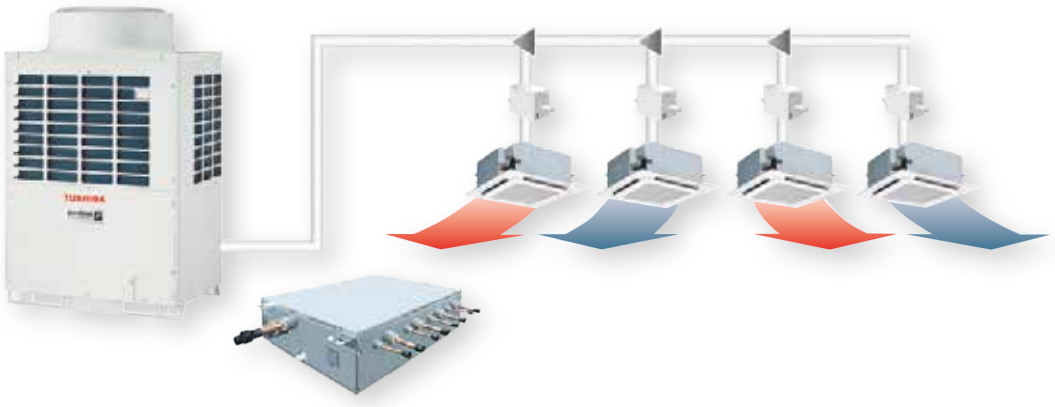
SHRMe outdoor units

- 3-pipe heat recovery outdoor unit for up to 64 indoor units
- SEER efficiency values up to 6.07 – SCOP efficiency values up to 5.27
- Controls locally hard-wired or infrared, central and/or via BMS
- Not a stock item – lead time on request





OUTDOOR UNIT			MMY-MAP0806FT8P-E	MMY-MAP1006FT8P-E	MMY-MAP1206FT8P-E	MMY-MAP1406FT8P-E
Capacity code	HP		8	10	12	14
Cooling capacity	kW	❄	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW	❄	5,96	7,98	9,77	12,74
Partial load efficiency @ 80%/60%/40%	W/W	❄	5,0 - 6,6 - 7,4	4,7 - 6,3 - 7,2	4,4 - 5,5 - 6,8	4,0 - 6,4 - 6,3
Energy efficiency SEER		❄	6,07	6,03	5,94	5,61
Running current	A	❄	9,44	12,49	15,46	19,92
Heating capacity	kW	☀	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW	☀	5,40	7,05	8,70	10,50
Partial load efficiency @ 80%/60%/40%	W/W	☀	5,1 - 5,8 - 5,9	4,9 - 5,5 - 5,6	4,6 - 5,2 - 5,5	4,7 - 5,3 - 5,4
Energy efficiency SCOP		☀	3,64	3,53	3,71	3,57
Running current	A	☀	8,57	11,06	13,80	16,47
Airflow	m^3/h		9700	9700	12200	12200
External static pressure	Pa		60	50	50	40
Sound pressure level (low/med/high)	dB(A)	❄	59	59	60	62
Sound pressure level (low/med/high)	dB(A)	☀	61	61	62	64
Sound power level	dB(A)	❄	80,0	80,0	80,0	81,0
Sound power level	dB(A)	☀	82,0	82,0	82,0	83,0
Compressor type			2x Twin-Rotary	2x Twin-Rotary	2x Twin-Rotary	2x Twin-Rotary
Liquid pipe diameter	mm (inch)		12,7 (½)	12,7 (½)	12,7 (½)	12,7 (½)
Suction gas pipe diameter	mm (inch)		22,2 (7/8)	22,2 (7/8)	28,6 (1 1/8)	28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)		19,1 (¾)	19,1 (¾)	19,1 (¾)	22,2 (7/8)
Oil equalization pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25	-25 / +25	-25 / +25
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		3x 25	3x 25	3x 32	3x 40
Pipe length (max.)	m		300	300	300	300
Height difference (max.)	m		90	90	90	90
Refrigerant			R410A	R410A	R410A	R410A
Refrigerant charge	kg		11,00	11,00	11,00	11,00
Dimensions (HxWxD)	mm		1830 x 990 x 780	1830 x 990 x 780	1830 x 1210 x 780	1830 x 1210 x 780
Weight	kg		263	263	316	316
Price	**€**		**13.880,-**	**15.220,-**	**20.650,-**	**21.730,-**



SHRMe outdoor units

OUTDOOR UNIT		MMY-MAP1606FT8P-E	MMY-MAP1806FT8P-E	MMY-MAP2006FT8P-E
Capacity code	HP	16	18	20
Cooling capacity	kW ❄	45,00	50,40	56,00
Power consumption (min./nom./max.)	kW ❄	13,93	16,00	18,60
Partial load efficiency @ 80%/60%/40%	W/W ❄	4,2 - 5,5 - 7,0	4,3 - 6,0 - 7,3	3,7 - 4,6 - 5,7
Energy efficiency SEER	❄	5,72	5,89	5,64
Running current	A ❄	21,81	25,10	29,18
Heating capacity	kW ☀	45,00	50,40	56,00
Power consumption (min./nom./max.)	kW ☀	12,20	13,73	15,91
Partial load efficiency @ 80%/60%/40%	W/W ☀	4,4 - 5,1 - 5,3	4,3 - 4,8 - 5,2	4,1 - 4,6 - 5,0
Energy efficiency SCOP	☀	3,50	3,69	3,59
Running current	A ☀	19,14	21,49	24,68
Airflow	m³/h	17300	17300	17900
External static pressure	Pa	40	40	40
Sound pressure level (low/med/high)	dB(A) ❄	61	61	61
Sound pressure level (low/med/high)	dB(A) ☀	62	62	62
Sound power level	dB(A) ❄	83,0	83,0	83,0
Sound power level	dB(A) ☀	84,0	84,0	84,0
Compressor type		2x Twin-Rotary	2x Twin-Rotary	2x Twin-Rotary
Liquid pipe diameter	mm (inch)	19,1 (¾)	19,1 (¾)	19,1 (¾)
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Outdoor temperature operating range (min.-max.)	°C ❄	-15 / +46	-15 / +46	-15 / +46
Outdoor temperature operating range (min.-max.)	°C ☀	-25 / +25	-25 / +25	-25 / +25
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 40	3x 50	3x 50
Pipe length (max.)	m	300	300	300
Height difference (max.)	m	90	90	90
Refrigerant		R410A	R410A	R410A
Refrigerant charge	kg	11,00	11,00	11,00
Dimensions (HxWxD)	mm	1830 x 1600 x 780	1830 x 1600 x 780	1830 x 1600 x 780
Weight	kg	377	377	377
Price	**€**	**23.610,-**	**25.350,-**	**26.560,-**

Refrigerant flow boxes - single port - series 3 (standard functions)

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
RBM-Y1123FE	1	1,7 - 11,2	5	190 × 250 × 160	5	**1.035,-**
RBM-Y1803FE	1	11,2 - 18,0	10	190 × 250 × 160	5	**1.065,-**
RBM-Y2803FE	1	18,0 - 28,0	10	200 × 377 × 200	8	**1.795,-**

Refrigerant flow boxes - single port - series 4 with integrated subcooler

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
RBM-Y1124FE	1	1,7 - 11,2	5	180 × 425 × 300	12	**1.785,-**
RBM-Y1804FE	1	11,2 - 18,0	10	180 × 425 × 300	12	**1.920,-**
RBM-Y2804FE	1	18,0 - 28,0	10	180 × 495 × 350	17	**3.160,-**

Refrigerant flow boxes - multi-port - with integrated subcooler

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
RBM-Y1801F4PE	4	1,7 - 18,0	10	215 × 730 × 567	38	**4.380,-**
RBM-Y1801F6PE	6	1,7 - 18,0	10	215 × 1050 × 567	53	**6.510,-**

SHRMe combination tables





OUTDOOR UNIT		MMY-MAP0806FT8P-E	MMY-MAP1006FT8P-E	MMY-MAP1206FT8P-E	MMY-MAP1406FT8P-E	MMY-MAP1606FT8P-E	MMY-MAP1806FT8P-E	MMY-MAP2006FT8P-E
Capacity code	HP	8	10	12	14	16	18	20
Combined units		-	-	-	-	-	-	-
Cooling capacity	kW ❄	22,40	28,00	33,50	40,00	45,00	50,40	56,00
Heating capacity	kW ☀	22,40	28,00	33,50	40,00	45,00	50,40	56,00
Connectable indoor units (max.)	Pce.	18	22	27	31	36	40	41





OUTDOOR UNIT		MMY-AP2216FT8P-E	MMY-AP2416FT8P-E	MMY-AP2616FT8P-E	MMY-AP2816FT8P-E	MMY-AP3016FT8P-E	MMY-AP3216FT8P-E
Capacity code	HP	22	24	26	28	30	32
Combined units		12 + 10	14 + 10	14 + 12	14 + 14	16 + 14	18 + 14
Cooling capacity	kW ❄	61,50	68,00	73,50	80,00	85,00	90,40
Heating capacity	kW ☀	61,50	68,00	73,50	80,00	85,00	90,40
Connectable indoor units (max.)	Pce.	49	54	58	63	64	64




OUTDOOR UNIT		MMY-AP3416FT8P-E	MMY-AP3616FT8P-E	MMY-AP3816FT8P-E	MMY-AP4016FT8P-E	MMY-AP4216FT8P-E
Capacity code	HP	34	36	38	40	42
Combined units		18 + 16	18 + 18	20 + 18	20 + 20	14 + 14 + 14
Cooling capacity	kW ❄	95,40	100,80	106,40	112,00	120,00
Heating capacity	kW ☀	95,40	100,80	106,40	112,00	120,00
Connectable indoor units (max.)	Pce.	64	64	64	64	64





OUTDOOR UNIT		MMY-AP4416FT8P-E	MMY-AP4616FT8P-E	MMY-AP4816FT8P-E	MMY-AP5016FT8P-E	MMY-AP5216FT8P-E	MMY-AP5416FT8P-E
Capacity code	HP	44	46	48	50	52	54
Combined units		16 + 14 + 14	18 + 14 + 14	18 + 16 + 14	18 + 18 + 14	18 + 18 + 16	18 + 18 + 18
Cooling capacity	kW ❄	125,00	130,40	135,40	140,80	145,80	151,20
Heating capacity	kW ☀	125,00	130,40	135,40	140,80	145,80	151,20
Connectable indoor units (max.)	Pce.	64	64	64	64	64	64

SHRMe OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-AP2216FT8P-E	MMY-AP2416FT8P-E	MMY-AP2616FT8P-E
Capacity code	HP	22	24	26
Combined units		12 + 10	14 + 10	14 + 12
Cooling capacity	kW ❄	61,50	68,00	73,50
Power consumption (min./nom./max.)	kW ❄	17,71	20,66	22,45
Partial load efficiency @ 80%/60%/40%	W/W ❄	4,4 - 5,7 - 7,5	4,2 - 5,3 - 7,0	4,2 - 5,3 - 6,5
Energy efficiency SEER	❄	5,99	5,81	5,77
Heating capacity	kW ☀	61,50	68,00	73,50
Power consumption (min./nom./max.)	kW ☀	15,75	17,55	19,20
Partial load efficiency @ 80%/60%/40%	W/W ☀	4,7 - 5,3 - 5,6	4,7 - 5,4 - 5,5	4,6 - 5,3 - 5,5
Energy efficiency SCOP	☀	3,63	3,56	3,63
Airflow	m³/h	12200+9700	12200+9700	2x 12200
Liquid pipe diameter	mm (inch)	19,1 (¾)	19,1 (¾)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Hot gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) ❄	63,0	64,0	64,5
Sound pressure level (low/med/high)	dB(A) ☀	65,0	66,0	66,5
Sound power level	dB(A) ❄	83,5	84,0	84,0
Sound power level	dB(A) ☀	85,5	86,0	86,0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	316+263	316+263	2x 316
Price	**€**	**35.870,-**	**36.950,-**	**42.380,-**

OUTDOOR UNIT		MMY-AP2816FT8P-E	MMY-AP3016FT8P-E	MMY-AP3216FT8P-E
Capacity code	HP	28	30	32
Combined units		14 + 14	16 + 14	18 + 14
Cooling capacity	kW ❄	80,00	85,00	90,40
Power consumption (min./nom./max.)	kW ❄	25,40	26,60	27,80
Partial load efficiency @ 80%/60%/40%	W/W ❄	4,0 - 5,1 - 6,3	4,1 - 5,3 - 6,7	4,0 - 5,2 - 6,5
Energy efficiency SEER	❄	5,61	5,67	5,77
Heating capacity	kW ☀	80,00	85,00	90,40
Power consumption (min./nom./max.)	kW ☀	21,00	22,70	24,40
Partial load efficiency @ 80%/60%/40%	W/W ☀	4,7 - 5,3 - 5,4	4,5 - 5,2 - 5,4	4,4 - 5,0 - 5,3
Energy efficiency SCOP	☀	3,57	3,54	3,58
Airflow	m³/h	2x 12200	17300+12200	17300+12200
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Hot gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) ❄	66,5	65,0	65,0
Sound pressure level (low/med/high)	dB(A) ☀	67,5	66,5	66,5
Sound power level	dB(A) ❄	84,5	85,5	85,5
Sound power level	dB(A) ☀	86,5	87,0	87,0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2x 316	377+316	377+316
Price	**€**	**43.460,-**	**45.340,-**	**47.080,-**

SHRMe OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-AP3416FT8P-E	MMY-AP3616FT8P-E	MMY-AP3816FT8P-E
Capacity code	HP	34	36	38
Combined units		18 + 16	18 + 18	20 + 18
Cooling capacity	kW ❄	95,40	100,80	106,40
Power consumption (min./nom./max.)	kW ❄	29,90	32,00	34,60
Partial load efficiency @ 80%/60%/40%	W/W ❄	4,1 - 5,4 - 6,9	4,4 - 5,6 - 7,3	3,9 - 4,9 - 6,1
Energy efficiency SEER	❄	5,81	5,89	5,76
Heating capacity	kW ☀	95,40	100,80	106,40
Power consumption (min./nom./max.)	kW ☀	25,90	27,40	29,60
Partial load efficiency @ 80%/60%/40%	W/W ☀	4,3 - 4,9 - 5,2	4,3 - 4,8 - 5,2	4,2 - 4,7 - 5,1
Energy efficiency SCOP	☀	3,55	3,59	3,59
Airflow	m³/h	2x 17300	2x 17300	17900 + 17300
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	41,3 (1 5/8)	41,3 (1 5/8)
Hot gas pipe diameter	mm (inch)	28,6 (1 1/8)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) ❄	64,5	64,5	64,5
Sound pressure level (low/med/high)	dB(A) ☀	65,5	65,5	65,5
Sound power level	dB(A) ❄	86,5	86,4	86,5
Sound power level	dB(A) ☀	87,5	87,5	87,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2x 377	2x 377	2x 377
Price	**€**	**48.960,-**	**50.700,-**	**51.910,-**

OUTDOOR UNIT		MMY-AP4016FT8P-E	MMY-AP4216FT8P-E	MMY-AP4416FT8P-E
Capacity code	HP	40	42	44
Combined units		20 + 20	14 + 14 + 14	16 + 14 + 14
Cooling capacity	kW ❄	112,00	120,00	125,00
Power consumption (min./nom./max.)	kW ❄	37,20	38,10	39,30
Partial load efficiency @ 80%/60%/40%	W/W ❄	3,7 - 4,6 - 5,7	4,0 - 5,1 - 6,3	4,1 - 5,2 - 6,5
Energy efficiency SEER	❄	5,64	5,61	5,65
Heating capacity	kW ☀	112,00	120,00	125,00
Power consumption (min./nom./max.)	kW ☀	31,80	31,50	33,20
Partial load efficiency @ 80%/60%/40%	W/W ☀	4,1 - 4,6 - 5,0	4,7 - 5,3 - 5,4	4,6 - 5,2 - 5,4
Energy efficiency SCOP	☀	3,59	3,57	3,55
Airflow	m³/h	2x 17900	3x 12200	17300 + 12200 + 12200
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Hot gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) ❄	64,5	67,0	66,5
Sound pressure level (low/med/high)	dB(A) ☀	65,5	69,0	68,5
Sound power level	dB(A) ❄	86,5	86,0	87,0
Sound power level	dB(A) ☀	87,5	88,0	88,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	2x 377	3x 316	377+316+316
Price	**€**	**53.120,-**	**65.190,-**	**67.070,-**

OUTDOOR UNIT		MMY-AP4616FT8P-E	MMY-AP4816FT8P-E	MMY-AP5016FT8P-E
Capacity code	HP	46	48	50
Combined units		18 + 14 + 14	18 + 16 + 14	18 + 18 + 14
Cooling capacity	kW ❄	130,40	135,40	140,80
Power consumption (min./nom./max.)	kW ❄	41,40	41,70	43,80
Partial load efficiency @ 80%/60%/40%	W/W ❄	4,0 - 5,1 - 6,5	4,1 - 5,3 - 6,7	4,0 - 5,2 - 6,6
Energy efficiency SEER	❄	5,72	5,77	5,83
Heating capacity	kW ☀	130,40	135,40	140,80
Power consumption (min./nom./max.)	kW ☀	34,70	36,60	38,10
Partial load efficiency @ 80%/60%/40%	W/W ☀	4,5 - 5,1 - 5,3	4,4 - 5,0 - 5,3	4,4 - 4,9 - 5,2
Energy efficiency SCOP	☀	3,58	3,56	3,59
Airflow	m³/h	17300 + 12200 + 12200	17300 + 17300 + 12200	17300 + 17300 + 12200
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Hot gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) ❄	66,5	66,5	66,5
Sound pressure level (low/med/high)	dB(A) ☀	68,5	68,0	68,0
Sound power level	dB(A) ❄	87,0	87,5	87,5
Sound power level	dB(A) ☀	88,5	88,5	88,5
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Weight	kg	377+316+316	377+377+316	377+377+316
Price	**€**	**68.810,-**	**70.690,-**	**72.430,-**

OUTDOOR UNIT		MMY-AP5216FT8P-E	MMY-AP5416FT8P-E
Capacity code	HP	52	54
Combined units		18 + 18 + 16	18 + 18 + 18
Cooling capacity	kW ❄	145,80	151,20
Power consumption (min./nom./max.)	kW ❄	45,90	48,00
Partial load efficiency @ 80%/60%/40%	W/W ❄	4,1 - 5,4 - 6,8	4,4 - 5,7 - 7,2
Energy efficiency SEER	❄	5,84	5,89
Heating capacity	kW ☀	145,80	151,20
Power consumption (min./nom./max.)	kW ☀	39,60	41,10
Partial load efficiency @ 80%/60%/40%	W/W ☀	4,3 - 4,9 - 5,2	4,3 - 4,8 - 5,2
Energy efficiency SCOP	☀	3,56	3,59
Airflow	m³/h	3x 17300	3x 17300
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)
Hot gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) ❄	66,0	66,0
Sound pressure level (low/med/high)	dB(A) ☀	67,0	67,0
Sound power level	dB(A) ❄	88,0	88,0
Sound power level	dB(A) ☀	89,0	89,0
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50
Weight	kg	3x 377	3x 377
Price	**€**	**74.310,-**	**76.050,-**

TOSHIBA R32 concept



RBM-Y_1FUxPE
PMV flow boxes with shut-off function for SHRMa 3-pipe operation



RBM-SV_1HUPE
PMV box with shut-off function for SHRMa 2-pipe operation



TCB-LD3UPE
Refrigerant leak detector



TCB-LDA1UPE
Leak detector interface for extended control in the event of a leak



TCB-BT1UPE
Battery kit to maintain the shut-off function in the event of a power failure

› The TOSHIBA safety concept was certified by an independent certification body in accordance with the IEC60335-2-40 (Ed.6) standard.

Typical system configuration examples

3-pipe system for large rooms

› 12 lines possible with just one flow box

In the event of a leak:
› Audible & visual alarm on the affected leak detector
› Error code on remote controls
› Pump-out function is activated



2-pipe system for small individual rooms

› Shut-off box for 1 to 10 units per line

In the event of a leak:
› Audible & visual alarm on the affected leak detector
› Error code on remote controls
› Pump-down function is activated
› Selective isolation of the affected area

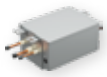


Simple, individually applicable safety concept for each building configuration.



Flow boxes & accessories

	Item number	Description	Ports	Max. indoor units
	RBM-Y1121FUPE	Flow box Single-port	1	5
	RBM-Y1801FUPE		1	10
	RBM-Y2801FUPE		1	10
	RBM-Y1801FU4PE	Flow box Multi-port	4	40
	RBM-Y1801FU8PE		8	80
	RBM-Y1801FU12PE		12	120

	Item number	Description
	Shut-off box RBM-SV_HUPE	› For isolating leaking indoor units from the refrigerant circuit › Only required in 2-pipe operation
	Leak detector TCB-LD3UPE	› For leak detection › Audible & visual alarm in accordance with IEC60335-2-40
	Leak detector interface TCB-LDA1UPE	› For use with leak detector, flow boxes, shut-off valve kits, PMV kits
	Battery TCB-BT1UPE	› Guarantees the shut-off function even in a power blackout › For installation in the flow box or shut-off box

100% reliable planning due to simple system design with the SELECTION TOOL software

Refrigerant flow boxes - single-port

	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
RBM-Y1121FUPE	1	< 11,4	6	206 x 385 x 282	11	**1.860,-**
RBM-Y1801FUPE	1	11,4 - 18,2	10	206 x 385 x 282	11	**2.020,-**
RBM-Y2801FUPE	1	18,2 - 28,5	16	206 x 385 x 282	11	**3.310,-**

Refrigerant flow boxes - multi-port

	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
RBM-Y1801FU4PE	4	< 73,0	4 x 10	293 x 338 x 468	22	**4.650,-**
RBM-Y1801FU8PE	8	< 109,4	8 x 10	293 x 578 x 468	36	**6.880,-**
RBM-Y1801FU12PE	12	< 109,4	12 x 10	293 x 818 x 468	50	**10.420,-**

Shut-off valve kit

	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
RBM-SV1121HUPE	1	< 11,4	6	206 x 385 x 282	10	**1.110,-**
RBM-SV1801HUPE	1	11,4 - 18,2	10	206 x 385 x 282	10	**1.230,-**
RBM-SV6701HUPE	1	18,2 - 68,4/92,3	16	216 x 385 x 282	12	**2.220,-**

ACCESSORIES	DESCRIPTION	PRICE €
TCB-LD3UPE	Leak detection sensor - SHRMa / MiNi SMMS R32	**400,-**
TCB-LDA1UPE	Leak Detector Interface - for use with SHRMa and TCB-LD3UPE	**445,-**
TCB-BT1UPE	Battery kit for shut-off valve and flow box - SHRMa / MiNi SMMS R32	**380,-**

SHRMa outdoor units

- Stand-alone outdoor units up to 24 HP (67 kW)
- Can be used for R32 refrigerant in 2-pipe or 3-pipe operation
- Comprehensive and simple safety concept
- SEER efficiency values up to 8.9 – SCOP efficiency values up to 4.6
- Controls locally hard-wired or infrared, central and/or via BMS
- Not a stock item – lead time on request



OUTDOOR UNIT			MMY-SUG0801MT8P-E	MMY-SUG1001MT8P-E	MMY-SUG1201MT8P-E	MMY-SUG1401MT8P-E
Capacity code	HP		8	10	12	14
Cooling capacity	kW	❄	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW	❄	5,13	6,83	8,88	12,00
Partial load efficiency @ 80%/60%/40%	W/W	❄	-	-	-	-
Energy efficiency SEER		❄	8,90	8,69	8,23	8,08
Running current	A	❄	9,14	11,50	14,20	18,90
Heating capacity	kW	☀	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW	☀	4,96	6,22	7,64	10,30
Partial load efficiency @ 80%/60%/40%	W/W	☀	-	-	-	-
Energy efficiency SCOP		☀	4,44	4,67	4,62	4,30
Running current	A	☀	8,95	10,60	12,50	16,30
Airflow	m³/h		9900	10500	11700	11880
External static pressure	Pa		80	80	80	80
Sound pressure level (low/med/high)	dB(A)	❄	53	55	58	58
Sound pressure level (low/med/high)	dB(A)	☀	56	58	62	63
Sound power level	dB(A)	❄	74	75	79	79
Sound power level	dB(A)	☀	77	78	82	84
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Liquid pipe diameter	mm (inch)		12,7 (½)	12,7 (½)	12,7 (½)	12,7 (½)
Suction gas pipe diameter	mm (inch)		19,1 (¾)	22,2 (7/8)	22,2 (7/8)	28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)		15,9 (5/8)	19,1 (¾)	19,1 (¾)	22,2 (7/8)
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +50	-15 / +50	-15 / +50	-15 / +50
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		3x 20	3x 32	3x 32	3x 32
Pipe length (max.)	m		190	190	190	190
Height difference (max.)	m		40/90	40/90	40/90	40/90
Refrigerant			R32	R32	R32	R32
Refrigerant charge	kg		6,00	6,00	6,00	6,00
Dimensions (HxWxD)	mm		1690 x 990 x 780	1690 x 990 x 780	1690 x 990 x 780	1690 x 990 x 780
Weight	kg		232	232	232	232
Price	**€**		**15.360,-**	**17.190,-**	**24.000,-**	**24.480,-**

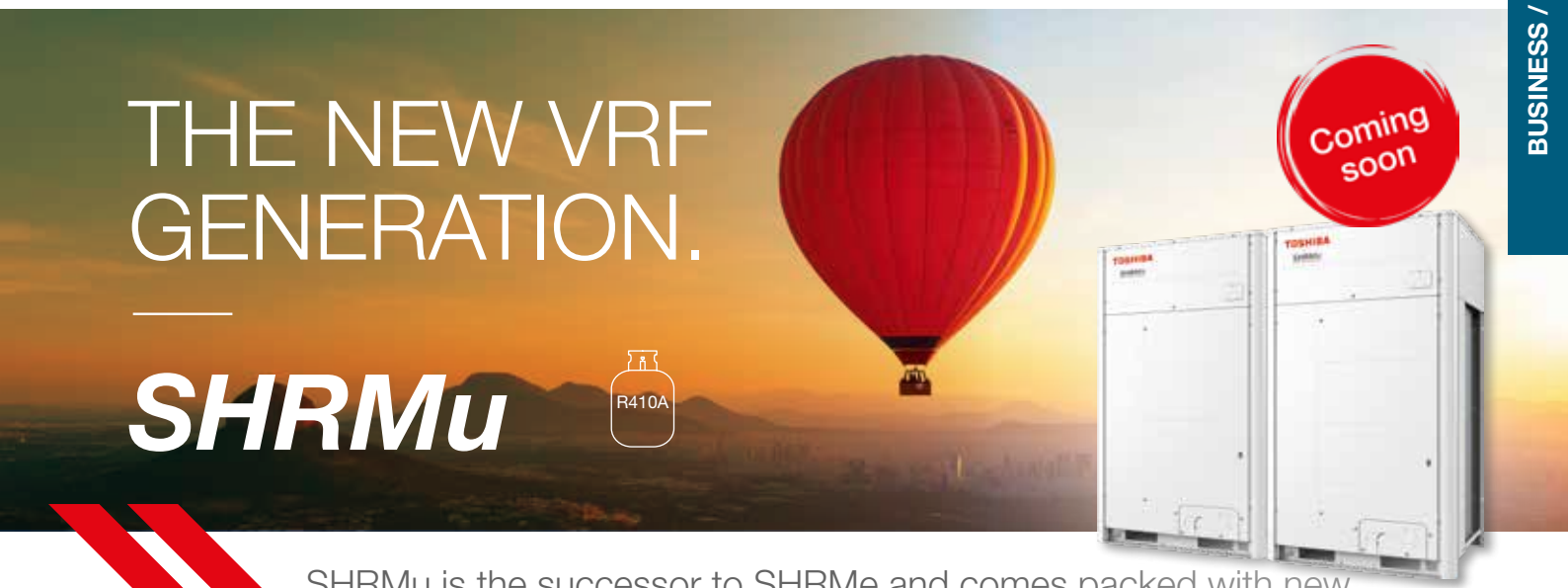
ACCESSORIES	DESCRIPTION	PRICE €
RBM-FGUS1P-E	Fin protection kit for SMMSu and SHRMa outdoor units - 8 to 14 HP chassis	**310,-**



SHRMa outdoor units

OUTDOOR UNIT		MMY-SUG1601MT8P-E	MMY-SUG1801MT8P-E	MMY-SUG2001MT8P-E	MMY-SUG2201MT8P-E	MMY-SUG2401MT8P-E
Capacity code	HP	16	18	20	22	24
Cooling capacity	kW ❄	45,00	50,40	56,00	61,50	67,00
Power consumption (min./nom./max.)	kW ❄	12,20	14,80	15,50	18,20	24,30
Partial load efficiency @ 80%/60%/40%	W/W ❄	-	-	-	-	-
Energy efficiency SEER	❄	8,64	8,32	8,29	7,88	6,66
Running current	A ❄	21,10	24,80	25,40	29,20	38,10
Heating capacity	kW ☀	45,00	50,40	56,00	61,50	67,00
Power consumption (min./nom./max.)	kW ☀	11,10	14,00	14,30	16,10	19,50
Partial load efficiency @ 80%/60%/40%	W/W ☀	-	-	-	-	-
Energy efficiency SCOP	☀	4,65	4,49	4,29	4,26	4,04
Running current	A ☀	19,90	23,80	23,60	26,10	30,90
Airflow	m³/h	15300	16800	15900	16500	16800
External static pressure	Pa	80	80	80	80	80
Sound pressure level (low/med/high)	dB(A) ❄	60	61	63	64	64
Sound pressure level (low/med/high)	dB(A) ☀	64	67	67	67	69
Sound power level	dB(A) ❄	83	84	85	86	86
Sound power level	dB(A) ☀	87	89	89	90	91
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Liquid pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Outdoor temperature operating range (min.-max.)	°C ❄	-15 / +50	-15 / +50	-15 / +50	-15 / +50	-15 / +50
Outdoor temperature operating range (min.-max.)	°C ☀	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5
Power supply	V/Ph+N/Hz	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50
Recommended fusing	A	3x 40	3x 40	3x 50	3x 63	3x 63
Pipe length (max.)	m	190	190	190	190	190
Height difference (max.)	m	40/90	40/90	40/90	40/90	40/90
Refrigerant		R32	R32	R32	R32	R32
Refrigerant charge	kg	9,00	9,00	9,00	9,00	9,00
Dimensions (HxWxD)	mm	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780
Weight	kg	329	329	361	361	361
Price	**€**	**26.790,-**	**28.320,-**	**30.530,-**	**32.450,-**	**34.850,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBM-FGUM1P-E	Fin protection kit for SMMSu and SHRMa outdoor units - 16 to 24 HP chassis	**350,-**



SHRMu is the successor to SHRMe and comes packed with new technologies, proven core strengths, and an array of enhancements.

Current Consumption + Fusing

TYPE	Running current (max.)	Running current (nom.)	Power consumption (min./nom./max.)	Power consumption (min./nom./max.)	Recommended fusing	Power supply	Recommended power supply line type	Communication line
	A	A	kW ❄	kW ☀	A	V/Ph+N/Hz		
SMMSu								
MMY-MUP0801HT8P-E	17	9,20 / 8,60	5,64	5,28	3x 20	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MMY-MUP1001HT8P-E	23	13,40 / 11,50	8,36	7,20	3x 25	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MMY-MUP1201HT8P-E	27	16,00 / 12,10	10,34	7,77	3x 32	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MUP1401HT8P-E	31	22,60 / 15,50	14,55	10,00	3x 32	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MUP1601HT8P-E	34	21,60 / 18,30	14,06	11,94	3x 40	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MUP1801HT8P-E	38	24,40 / 19,30	15,90	12,54	3x 40	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MUP2001HT8P-E	40	27,70 / 22,90	18,01	14,93	3x 40	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MUP2201HT8P-E	57	31,40 / 24,80	20,43	16,18	3x 63	380-415/3+N/50	H07RN-F 5G10,0	YSLCY 2x1,5
MMY-MUP2401HT8P-E1	60	37,10 / 29,10	24,19	18,98	3x 63	380-415/3+N/50	H07RN-F 5G10,0	YSLCY 2x1,5
MiNi SMMS R32								
MCY-MUG0401HSW-E	-	-	2,92	2,38	25	220-240/1+N/50	H07RN-F 3G4,0	YSLCY 2x1,5
MCY-MUG0501HSW-E	-	-	3,73	2,95	32	220-240/1+N/50	H07RN-F 3G4,0	YSLCY 2x1,5
MCY-MUG0601HSW-E	-	-	4,29	3,36	32	220-240/1+N/50	H07RN-F 3G4,0	YSLCY 2x1,5
MiNi SMMS Single Fan								
MCY-MHP0406HT-E	26,5	13,80 / 12,80	3,24	2,83	32	220-240/1+N/50	H07RN-F 3G2,5	YSLCY 2x1,5
MCY-MHP0506HT-E1	28,0	17,90 / 17,50	3,94	3,86	32	220-240/1+N/50	H07RN-F 3G4,0	YSLCY 2x1,5
MiNi SMMSe 3-phase								
MCY-MHP0404HS8-E	12,5	4,50 / 4,20	2,82	2,57	3x 16	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MCY-MHP0504HS8-E	12,5	5,40 / 5,80	3,47	3,72	3x 16	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MCY-MHP0604HS8-E	12,5	6,70 / 6,60	4,25	4,27	3x 16	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MCY-MHP0806HS8-E	-	10,60 / 8,20	6.67	5,20	3x 20	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MCY-MHP1006HS8-E	-	14,50 / 10,90	9,34	7,00	3x 20	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
SHRMe								
MMY-MAP0806FT8P-E	21,5	9,44 / 8,57	5,96	5,40	3x 25	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MMY-MAP1006FT8P-E	26,1	12,49 / 11,06	7,98	7,05	3x 25	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MAP1206FT8P-E	31,0	15,46 / 13,80	9,77	8,70	3x 32	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MAP1406FT8P-E	35,8	19,92 / 16,47	12,74	10,50	3x 40	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MAP1606FT8P-E	40,7	21,81 / 19,14	13,93	12,20	3x 40	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MAP1806FT8P-E	44,9	25,10 / 21,49	16,00	13,73	3x 50	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MAP2006FT8P-E	49,3	29,18 / 24,68	18,60	15,91	3x 50	380-415/3+N/50	H07RN-F 5G10,0	YSLCY 2x1,5
SHRMa								
MMY-SUG0801MT8P-E	-	-	5,13	4,96	3x 20	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MMY-SUG1001MT8P-E	-	-	6,83	6,22	3x 32	380-415/3+N/50	H07RN-F 5G2,5	YSLCY 2x1,5
MMY-SUG1201MT8P-E	-	-	8,88	7,64	3x 32	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-SUG1401MT8P-E	-	-	12,00	10,30	3x 32	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-SUG1601MT8P-E	-	-	12,20	11,10	3x 40	380-415/3+N/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-SUG1801MT8P-E	-	-	14,80	14,00	3x 40	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-SUG2001MT8P-E	-	-	15,50	14,30	3x 50	380-415/3+N/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-SUG2201MT8P-E	-	-	18,20	16,10	3x 63	380-415/3+N/50	H07RN-F 5G10,0	YSLCY 2x1,5
MMY-SUG2401MT8P-E	-	-	24,30	19,50	3x 63	380-415/3+N/50	H07RN-F 5G10,0	YSLCY 2x1,5

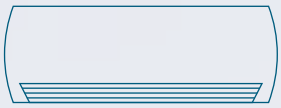
Sound Power Level / Sound Pressure

TYPE	Sound power level	Sound power level	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Sound pressure level (night operation, @ 1m)
	dB(A) ❄	dB(A) ☀	dB(A) ❄	dB(A) ☀	dB(A) ❄
SMMSu					
MMY-MUP0801HT8P-E	75	76	53	56	50
MMY-MUP1001HT8P-E	77	77	55	58	50
MMY-MUP1201HT8P-E	79	81	58	62	50
MMY-MUP1401HT8P-E	79	82	58	62	53
MMY-MUP1601HT8P-E	83	86	60	63	53
MMY-MUP1801HT8P-E	84	89	61	67	54
MMY-MUP2001HT8P-E	86	90	63	67	54
MMY-MUP2201HT8P-E	86	90	63	67	54
MMY-MUP2401HT8P-E1	86	90	63	67	54
MiNi SMMS R32					
MCY-MUG0401HSW-E	69	71	52	54	50/47/44
MCY-MUG0501HSW-E	70	72	53	55	50/47/44
MCY-MUG0601HSW-E	71	73	54	56	50/47/44
MiNi SMMS Single Fan					
MCY-MHP0406HT-E	73,0	74,0	54	57	50 / 50
MCY-MHP0506HT-E1	73,0	73,0	54	58	50 / 50
MiNi SMMSe 3-phase					
MCY-MHP0404HS8-E	66,0	67,0	49	52	46 / 48
MCY-MHP0504HS8-E	68,0	69,0	50	53	46 / 48
MCY-MHP0604HS8-E	68,0	70,0	51	54	47 / 49
MCY-MHP0806HS8-E	75	75	58	59	50 / 50
MCY-MHP1006HS8-E	77	77	59	60	50 / 50
SHRMe					
MMY-MAP0806FT8P-E	80,0	82,0	59	61	50 / 50
MMY-MAP1006FT8P-E	80,0	82,0	59	61	50 / 50
MMY-MAP1206FT8P-E	80,0	82,0	60	62	53 / 53
MMY-MAP1406FT8P-E	81,0	83,0	62	64	53 / 53
MMY-MAP1606FT8P-E	83,0	84,0	61	62	54 / 54
MMY-MAP1806FT8P-E	83,0	84,0	61	62	54 / 54
MMY-MAP2006FT8P-E	83,0	84,0	61	62	54 / 54
SHRMa					
MMY-SUG0801MT8P-E	74	77	53	56	-
MMY-SUG1001MT8P-E	75	78	55	58	-
MMY-SUG1201MT8P-E	79	82	58	62	-
MMY-SUG1401MT8P-E	79	84	58	63	-
MMY-SUG1601MT8P-E	83	87	60	64	-
MMY-SUG1801MT8P-E	84	89	61	67	-
MMY-SUG2001MT8P-E	85	89	63	67	-
MMY-SUG2201MT8P-E	86	90	64	67	-
MMY-SUG2401MT8P-E	86	91	64	69	-

Sound pressure for night operation: with noise reduction module, see external control options.

OVERVIEW OF VRF INDOOR UNITS

HIGH-WALL UNITS



HAORI HIGH-WALL UNIT
Cooling capacity (kW): 2.2 | 2.8 | 3.6 | 4.5 | 5.6 — Page 140

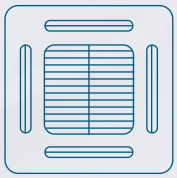
HIGH-WALL UNIT
Cooling capacity (kW): 0.9 | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 | 9.0 | 10.0 — Page 142

CEILING UNITS



CEILING UNIT
Cooling capacity (kW): 4.5 | 5.6 | 7.1 | 8.0 | 11.2 | 14.0 | 16.0 — Page 146

CASSETTE UNITS



60x60 SLIM CASSETTE
Cooling capacity (kW): 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 — Page 147

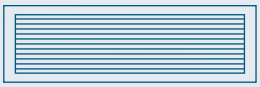
4-WAY STANDARD CASSETTE
Cooling capacity (kW): 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 16.0 — Page 148

4-WAY SMART CASSETTE
Cooling capacity (kW): 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 16.0 — Page 150

2-WAY CASSETTE
Cooling capacity (kW): 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 16.0 — Page 152

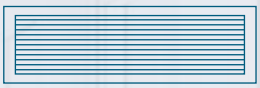
1-WAY FLAT CASSETTE
Cooling capacity (kW): 0.9 | 1.7 | 2.2 | 2.8 | 3.6 — Page 154

DUCT UNITS



STANDARD DUCT UNIT
Cooling capacity (kW): 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 16.0 — Page 156

SSD SUPER-SLIM DUCT UNIT
Cooling capacity (kW): 0.9 | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 — Page 158



HIGH-PRESSURE DUCT UNIT
Cooling capacity (kW): 5.6 | 7.1 | 8.0 | 11.2 | 14.0 | 16.0 | 22.4 | 28.0 — Page 160

FRESH-AIR DUCT UNIT SMMSu
Cooling capacity (kW): 14.0 | 22.4 | 28.0 — Page 162

FLOOR STANDING UNITS



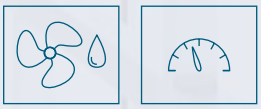
CONSOLE
Cooling capacity (kW): 2.2 | 2.8 | 3.6 | 4.5 | 5.6 — Page 164

CHASSIS
Cooling capacity (kW): 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 — Page 165

FLOOR STANDING UNIT
Cooling capacity (kW): 4.5 | 5.6 | 7.1 | 8.0 | 11.2 | 14.0 | 16.0 — Page 166

SPECIAL SOLUTIONS

DIRECT EXPANSION KIT
Cooling capacity (kW): up to 56.0
For all SMMSu — Page 168



AIR HANDLING SYSTEMS WITH HEAT RECOVERY
Heating capacity (kW): 4.1 | 6.5 | 8.2
For MiNi SMMSe 4, 5, 6 HP, SMMSu, SHRMe — Page 170

HOT WATER MODULE MT (2&3-PIPE)
Cooling capacity (kW): 8.0 | 16.0
For SMMSu, SHRMe — Page 177

HOT WATER MODULE HT (3-PIPE)
Cooling capacity (kW): 14.0
For SHRMe — Page 178

HAORI high-wall unit

- DESIGN Line with innovative textile cover
- Dust filter, ozone air purifier, and ultra pure filter
- Perfect for noise-sensitive applications
- Must ALWAYS be installed in conjunction with the PMV kit.
- Not a stock item – lead time on request

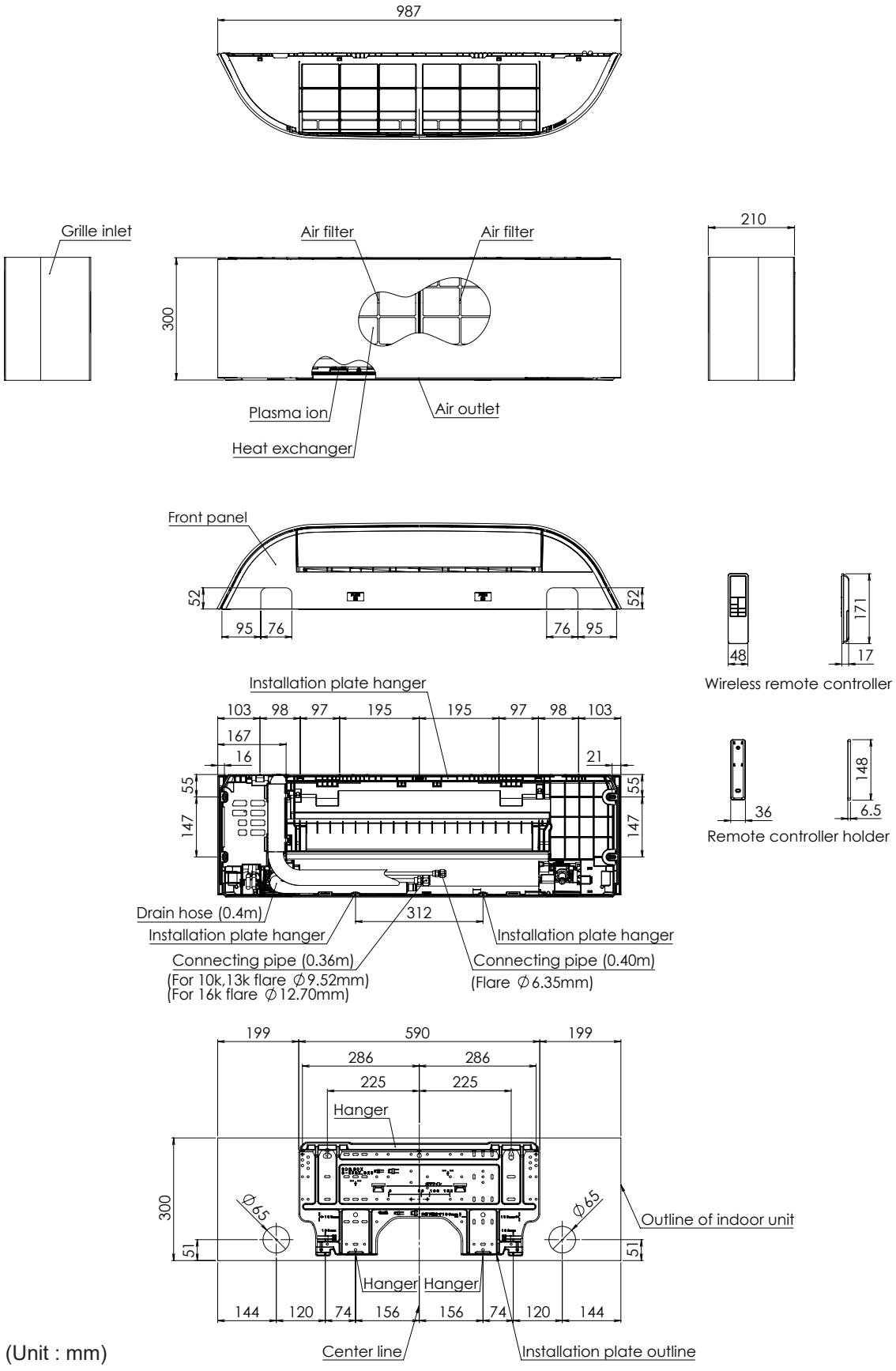


INDOOR UNIT		MMK-UP0071DHPL-E	MMK-UP0091DHPL-E	MMK-UP0121DHPL-E	MMK-UP0151DHPL-E	MMK-UP0181DHPL-E
Cooling capacity	kW ❄	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW ☀	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	300/385/480	300/395/510	300/410/540	380/480/580	420/600/730
Sound pressure level (low/med/high)	dB(A) ❄	25/28/30/33/35	25/28/31/34/36	25/28/32/35/37	30/33/35/38/40	32/36/39/42/45
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP16	VP16	VP16	VP16	VP16
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,018	0,019	0,021	0,025	0,032
Dimensions (HxWxD)	mm	300 x 987 x 210	300 x 987 x 210	300 x 987 x 210	300 x 987 x 210	300 x 987 x 210
Weight	kg	11	11	11	11	11
Price	**€**	**1.100,-**	**1.120,-**	**1.140,-**	**1.280,-**	**1.310,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
RB-RXS34-E	Design infrared remote control, black, with magnetic holder	✔	
RBM-PMV0361UP-E	PMV kit for indoor units, up to size 12		**270,-**
RBM-PMV0901UP-E	PMV kit for indoor units, size 15 or larger		**280,-**
RB-I4101-E	Fabric cover Dark Gray enclosed	✔	
RB-I4102-E	Fabric cover Light Gray enclosed	✔	
RB-I4103-E	Fabric cover Bluish Gray		**125,-**
RB-I4104-E	Fabric cover Gray Beige		**125,-**
RB-I4105-E	Fabric cover Dark Brown		**125,-**
RB-I4106-E	Fabric cover Emerald Blue		**125,-**
818F0023	Active carbon-catechin filter strips		**30,-**
818F0036	IAQ filter strips		**50,-**
818F0050	Ultra-pure 2.5 filter strips	✔	
818F0072	Ultra-Fresh filter strips		**35,-**

You will find all the control options from page 183 onwards.

HAORI HIGH-WALL UNIT



(Unit : mm)

High-wall unit

- Compact allrounder for all uses
- Whisper-quiet 5-speed fan – up to 25 dB(A)



INDOOR UNIT		MMK-UP0031HP-E	MMK-UP0051HP-E	MMK-UP0071HP-E	MMK-UP0091HP-E	MMK-UP0121HP-E	MMK-UP0151HP-E
Cooling capacity	kW ❄	0,90	1,70	2,20	2,80	3,60	4,50
Heating capacity	kW ☀	1,30	1,90	2,50	3,20	4,00	5,00
Airflow	m³/h	270/370/455	270/370/455	270/385/480	270/395/510	270/410/540	550/690/840
Sound pressure level (low/med/high)	dB(A) ❄	25/29/33	25/29/33	25/30/35	25/31/36	25/32/37	32/36/40
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)
Condensate pipe diameter	mm	VP16	VP16	VP16	VP16	VP16	VP16
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,013	0,013	0,015	0,016	0,017	0,028
Dimensions (HxWxD)	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250
Weight	kg	11	11,0	11,0	11,0	11,0	16,0
Price	**€**	**990,-**	**1.020,-**	**1.050,-**	**1.060,-**	**1.070,-**	**1.180,-**

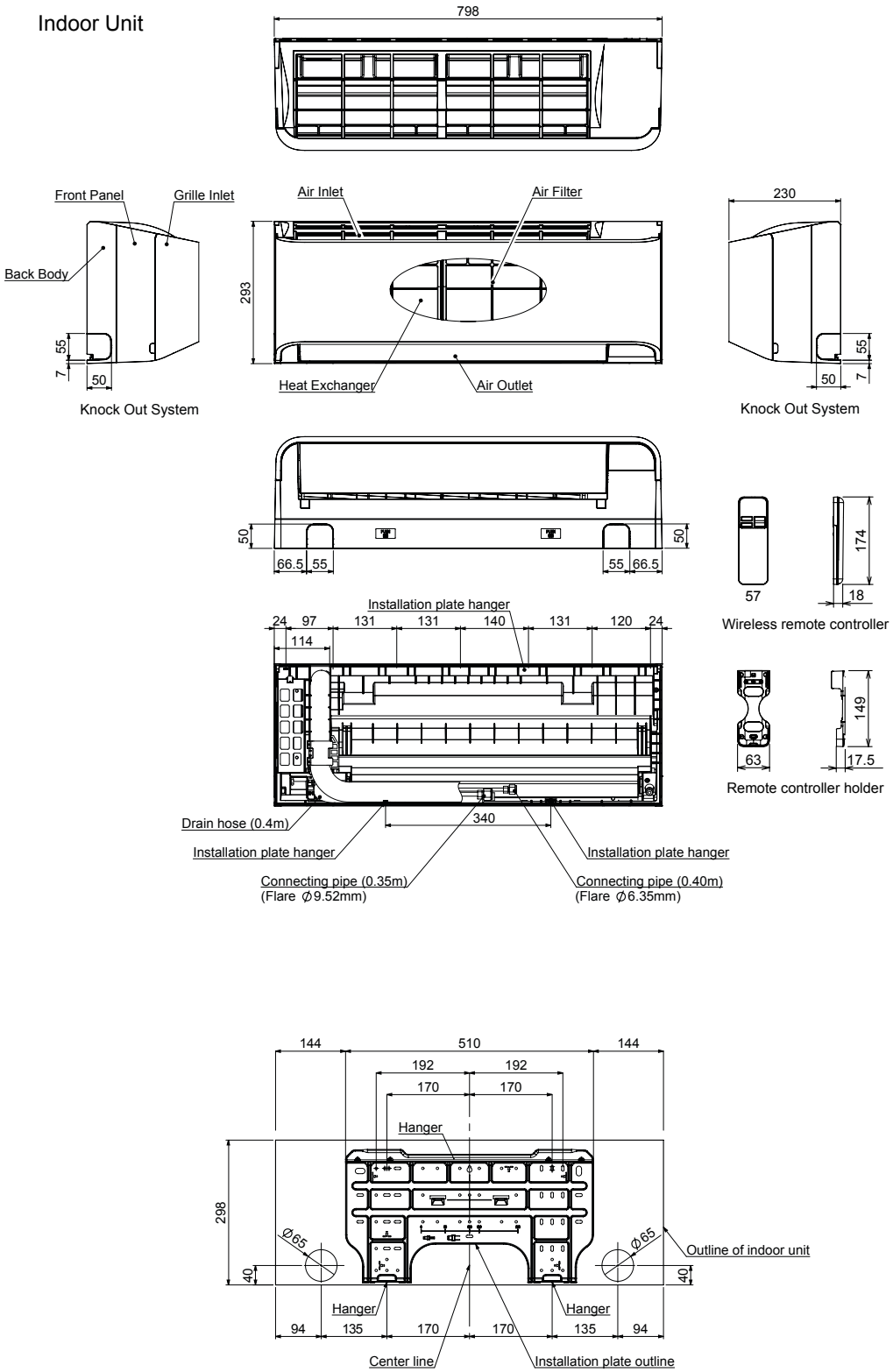
INDOOR UNIT		MMK-UP0181HP-E	MMK-UP0241HP-E	MMK-UP0271HP-E	MMK-UP0301HP-E	MMK-UP0361HP-E
Cooling capacity	kW ❄	5,60	7,10	8,00	9,00	10,00
Heating capacity	kW ☀	6,30	8,00	9,00	10,00	11,20
Airflow	m³/h	550/720/900	600/900/1200	800/1000/1200	1100/1300/1500	1250/1350/1650
Sound pressure level (low/med/high)	dB(A) ❄	32/37/41	33/39/45	39/41/45	41/44/48	43/45/50
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,8 (5/8)	15,8 (5/8)	15,8 (5/8)
Condensate pipe diameter	mm	VP16	VP16	16	16	16
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,032	0,050	0,034	0,054	0,066
Dimensions (HxWxD)	mm	320 x 1050 x 250	320 x 1050 x 250	350 x 1200 x 280	350 x 1200 x 280	350 x 1200 x 280
Weight	kg	16,0	16,0	21	21	21
Price	**€**	**1.210,-**	**1.220,-**	**1.450,-**	**1.520,-**	**1.600,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	
818F0036	IAQ filter strips		**50,-**
818F0023	Active carbon-catechin filter strips		**30,-**
818F0072	Ultra-Fresh filter strips		**35,-**

You will find all the control options from page 183 onwards.

HIGH-WALL UNIT

Indoor Unit



High-wall unit with external PMV kit



- Especially for noise-sensitive applications
- Must ALWAYS be installed in conjunction with the PMV kit.
- Not a stock item – lead time on request

INDOOR UNIT		MMK-UP0031HPL-E	MMK-UP0051HPL-E	MMK-UP0071HPL-E	MMK-UP0091HPL-E
Cooling capacity	kW ❄	0,90	1,70	2,20	2,80
Heating capacity	kW ☀	1,30	1,90	2,50	3,20
Airflow	m³/h	270/370/455	270/370/455	270/385/480	270/395/510
Sound pressure level (low/med/high)	dB(A) ❄	25/29/33	25/29/33	25/30/35	25/31/36
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Condensate pipe diameter	mm	VP16	VP16	VP16	VP16
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,013	0,013	0,015	0,016
Dimensions (HxWxD)	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
Weight	kg	11	11,0	11,0	11,0
Price	**€**	**860,-**	**900,-**	**920,-**	**940,-**

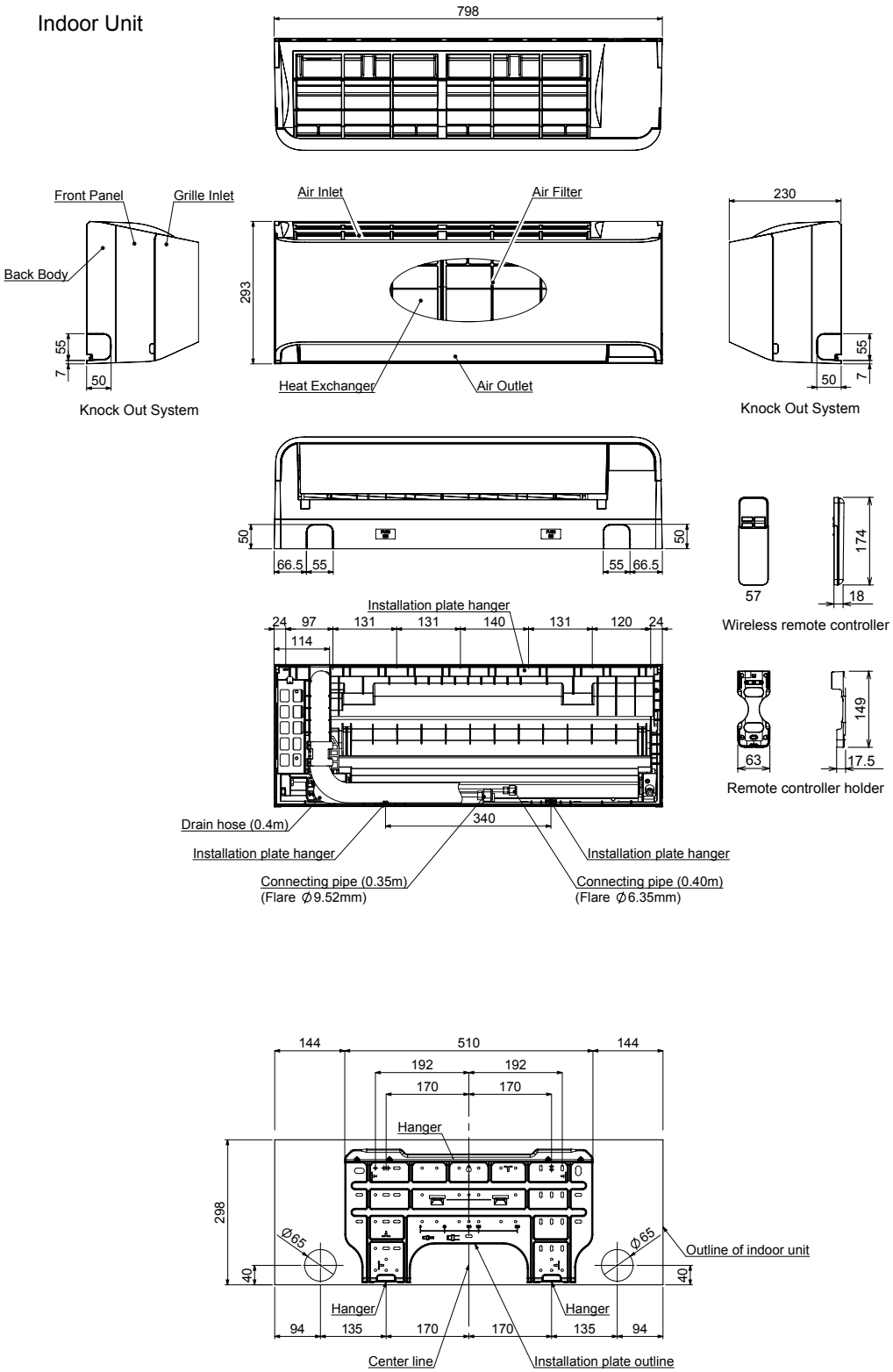
INDOOR UNIT		MMK-UP0121HPL-E	MMK-UP0151HPL-E	MMK-UP0181HPL-E	MMK-UP0241HPL-E
Cooling capacity	kW ❄	3,60	4,50	5,60	7,10
Heating capacity	kW ☀	4,00	5,00	6,30	8,00
Airflow	m³/h	270/410/540	550/690/840	550/720/900	600/900/1200
Sound pressure level (low/med/high)	dB(A) ❄	25/32/37	32/36/40	32/37/41	33/39/45
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Condensate pipe diameter	mm	VP16	VP16	VP16	VP16
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,017	0,028	0,032	0,050
Dimensions (HxWxD)	mm	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250	320 x 1050 x 250
Weight	kg	11,0	16,0	16,0	16,0
Price	**€**	**950,-**	**1.060,-**	**1.080,-**	**1.100,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	
RBM-PMV0361U-E	PMV kit for indoor units, sizes 5 to 14 (SMMSu)		**315,-**
RBM-PMV0901U-E	PMV kit for indoor units, sizes 15 to 27 (SMMSu)		**360,-**
818F0036	IAQ filter strips		**50,-**
818F0023	Active carbon-catechin filter strips		**30,-**
818F0072	Ultra-Fresh filter strips		**35,-**

You will find all the control options from page 183 onwards.

HIGH-WALL UNIT

Indoor Unit



Ceiling unit

- Attractive design for optimum air distribution
- Optional PCB for external control, alarms, and messages
- Large air throw distances

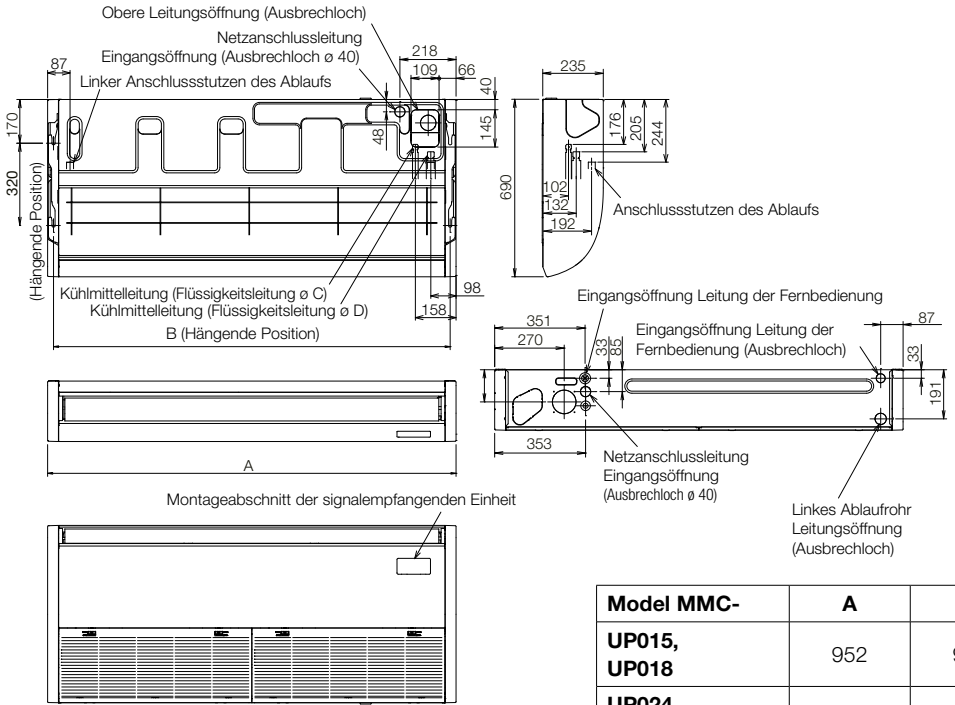


INDOOR UNIT		MMC-UP0151HP-E	MMC-UP0181HP-E	MMC-UP0241HP-E	MMC-UP0271HP-E	MMC-UP0361HP-E	MMC-UP0481HP-E	MMC-UP0561HP-E
Cooling capacity	kW ❄	4,50	5,60	7,10	8,00	11,20	14,00	16,00
Heating capacity	kW ☀	5,00	6,30	8,00	9,00	12,50	16,00	18,00
Airflow	m³/h	540/690/840	540/720/960	750/1020/1440	750/1020/1440	1020/1350/1860	1200/1530/1860	1260/1650/2040
Sound pressure level (low/med/high)	dB(A) ❄	28/34/36	28/35/37	29/36/41	29/36/41	32/38/44	35/41/44	36/42/46
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,033	0,034	0,067	0,067	0,083	0,083	0,111
Dimensions (HxWxD)	mm	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg	24	24	30	30	39	39	39
Price	**€**	**1.700,-**	**1.780,-**	**1.880,-**	**2.020,-**	**2.220,-**	**2.480,-**	**2.600,-**

ACCESSORIES	DESCRIPTION	PRICE €
TCB-DP31CE	Drain pump, discharge head 600 mm, measured from lower edge of unit	**440,-**
TCB-PCUC2E	Control board for external control, alarms and messages	**200,-**
TCB-KP14CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 4 + 5 / VRF: Sizes 15 + 18	**120,-**
TCB-KP24CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 8 + 16 / VRF: Sizes 24 to 56	**150,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**

You will find all the control options from page 183 onwards.

CEILING UNIT



Model MMC-	A	B	C	D
UP015, UP018	952	906	Ø 6.4	Ø 12.7
UP024, UP027	1269	1223	Ø 9.5	Ø 15.9
UP036 to UP056	1586	1540		

60x60 slim cassette



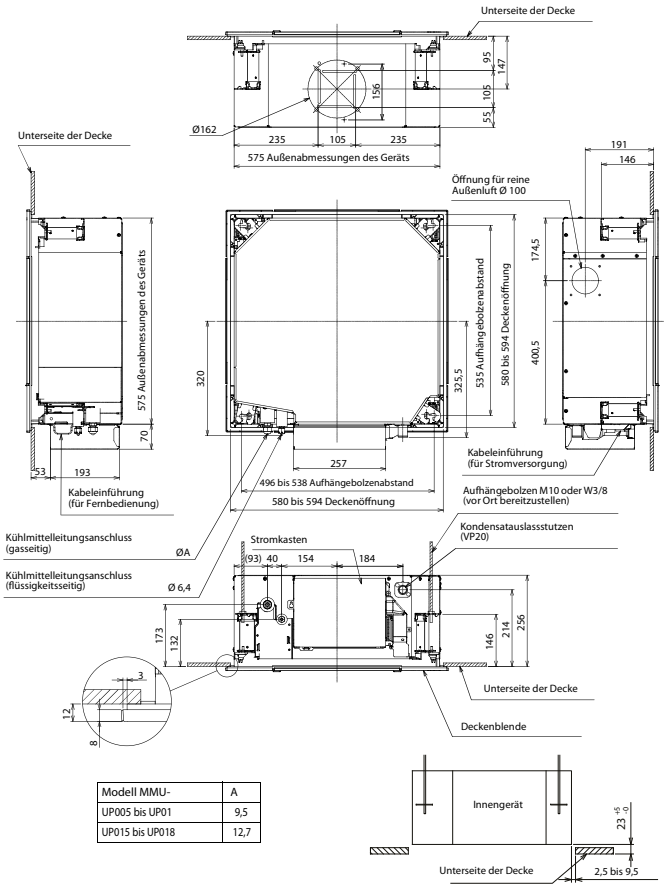
- 360° air distribution in the Euro-grid – compact & quiet, with high airflow
- Update of the classic with optional BLACK or WHITE design panel
- Enhanced energy savings via presence sensor option (for WHITE panel)
- Integrated drain pump (850 mm); prepared for external fresh air supply
  - Accessories required: remote control + panel

INDOOR UNIT		MMU-UP0051MHP-E	MMU-UP0071MHP-E	MMU-UP0091MHP-E	MMU-UP0121MHP-E	MMU-UP0151MHP-E	MMU-UP0181MHP-E
Cooling capacity	kW ❄	1,70	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW ☀	1,90	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	365/430	378/552	378/570	402/594	468/660	522/840
Sound pressure level (low/med/high)	dB(A) ❄	29/30/32	29/33/37	29/33/38	30/34/38	31/35/40	34/39/47
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,016	0,023	0,025	0,027	0,030	0,052
Dimensions (HxWxD)	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
Weight	kg	15,0+2,5	15,0+2,5	15,0+2,5	15,0+2,5	15,0+2,5	15,0+2,5
Panel dimensions (HxWxD)	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
Panel weight	kg	2,5	2,5	2,5	2,5	2,5	2,5
Price	**€**	**1.350,-**	**1.400,-**	**1.520,-**	**1.580,-**	**1.660,-**	**1.720,-**

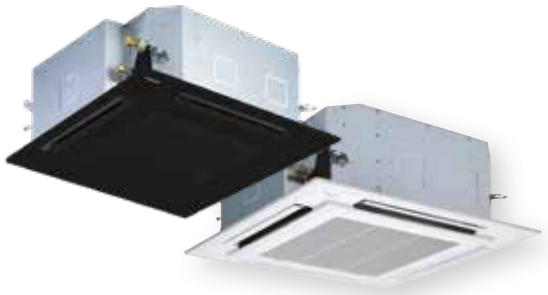
ACCESSORIES	DESCRIPTION	PRICE €
RBC-UM21P-E	Panel WHITE for 60x60 slim cassette	**410,-**
RBC-UM21PB-E	Panel BLACK for 60x60 slim cassette	**430,-**
RBC-AXU31UMP-E	Infrared remote control + receiver kit WHITE for installation in 60x60 slim cassette	**170,-**
RBC-AXU31UMPB-E	Infrared remote control + receiver kit BLACK for installation in 60x60 slim cassette	**190,-**
TCB-SIR41UMP-E	Occupancy sensor kit WHITE for installation in 60x60 slim cassette	**120,-**

You will find all the control options from page 183 onwards.

60x60 SLIM CASSETTE



4-way standard cassette



- 360° air distribution or direct air flow
- Individually adjustable, draft-free air distribution
- Integrated drain pump (850 mm); prepared for external fresh air supply
  - Accessories required: remote control + panel

INDOOR UNIT		MMU-UP0091HP-E	MMU-UP0121HP-E	MMU-UP0151HP-E	MMU-UP0181HP-E	MMU-UP0241HP-E
Cooling capacity	kW ❄	2,80	3,60	4,50	5,60	7,10
Heating capacity	kW ☀	3,20	4,00	5,00	6,30	8,00
Airflow	m³/h	680/730/800	680/730/800	790/830/930	800/920/1250	800/920/1290
Sound pressure level (low/med/high)	dB(A) ❄	27/29/30	30/29/27	27/29/31	27/29/32	28/31/35
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,021	0,021	0,023	0,026	0,036
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840
Weight	kg	18	18	20	20	20
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4	4	4	4	4
Price	**€**	**1.520,-**	**1.560,-**	**1.630,-**	**1.680,-**	**1.750,-**

INDOOR UNIT		MMU-UP0271HP-E	MMU-UP0301HP-E	MMU-UP0361HP-E	MMU-UP0481HP-E	MMU-UP0561HP-E
Cooling capacity	kW ❄	8,00	9,00	11,20	14,00	16,00
Heating capacity	kW ☀	9,00	10,00	12,50	16,00	18,00
Airflow	m³/h	800/920/1290	850/1100/1320	1070/1430/1970	1130/1430/2130	1230/1520/2130
Sound pressure level (low/med/high)	dB(A) ❄	28/31/35	38/33/30	32/38/43	33/38/46	33/40/46
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,036	0,043	0,088	0,112	0,112
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	20	25	25	25
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4	4	4	4	4
Price	**€**	**1.850,-**	**1.950,-**	**2.280,-**	**2.520,-**	**2.620,-**

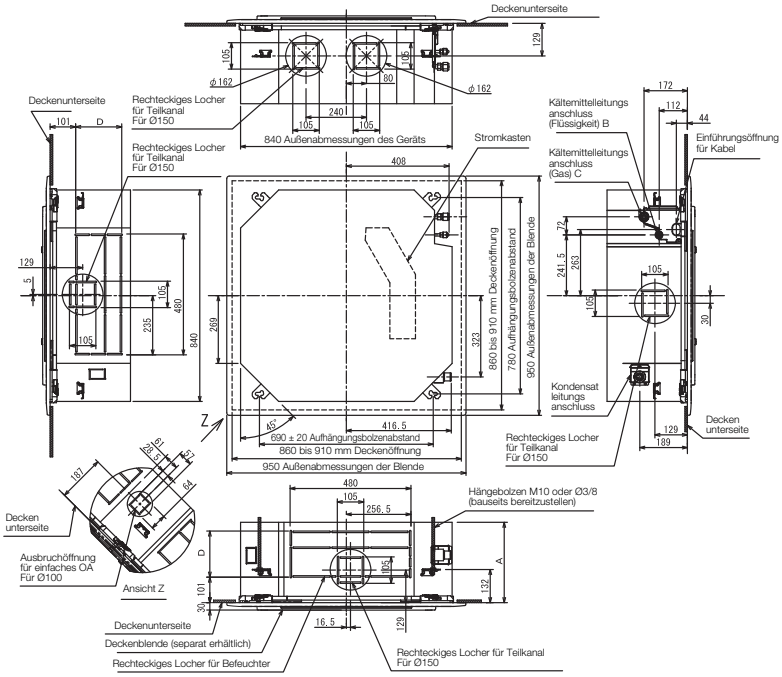
ACCESSORIES	DESCRIPTION	PRICE €
RBC-U32PGP-E	Panel for wide airflow	**360,-**
RBC-U33P-E	FLAT Panel - pure white, for 4-way standard cassette	**360,-**
RBC-AXU33UP-E	Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, pure white	**215,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**
TCB-PLFC1UPE	PM 2.5 Filterset (before dustfilter), compatible to RBC-U32PGP-E, RBC-U33PB-E	**20,-**
TCB-SIR33UP-E	Occupancy sensor kit for installation in FLAT Panel	**125,-**
TCB-EAPC1UHP-E	PURE Plasmafilter kit for installation in FLAT Panel 4-way standard cassette	**1.490,-**
TCB-EABC1UHP-E	PURE plasma filter kit SIMPLIFIED for installation in FLAT panel 4-way standard cassette	**800,-**

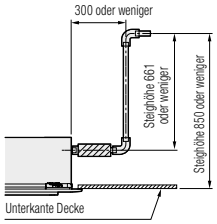
BLACK

RBC-U33PB-E	FLAT panel - BLACK, for 4-way standard cassette	**380,-**
RBC-AXU33UPB-E	Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, BLACK	**235,-**

You will find all the control options from page 183 onwards.

4-WAY STANDARD CASSETTE

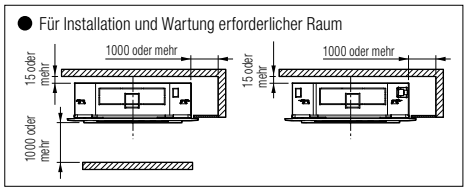




Dimension Ablauf-Steigrohr

(mm)

Modell MMU-	A	B	C	D	Modell MMU-	A	B	C	D
UP/AP009 bis UP/AP012	256	Ø6,4	Ø9,5	120	UP/AP024 bis UP/AP030	256	Ø9,5	Ø15,9	120
UP/AP015 bis UP/AP018	256	Ø6,4	Ø12,7	120	UP/AP036 bis UP/AP056	319	Ø9,5	Ø15,9	183



(Einheit: mm)

* Abbildung zeigt Paneel RBC-U31PGP(W)-E

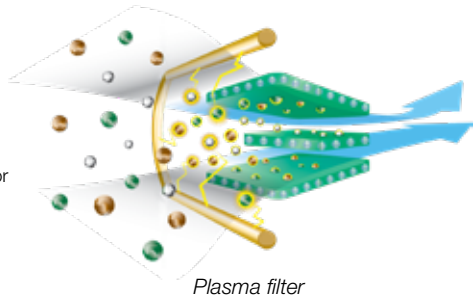


Panel RBC-U32PGP-E(W)-E for SMMSu

The special shape of the fins guarantees perfect air distribution in a 360° radius around the unit.

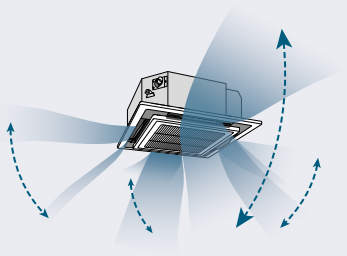


Panel RBC-U33P-E (white) / RBC-U33PB-E (black)
Flat design panel with optional plasma filter and presence sensor

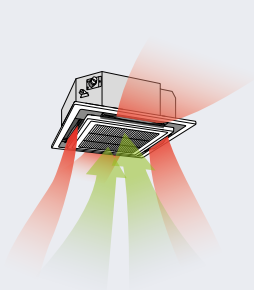


Plasma filter

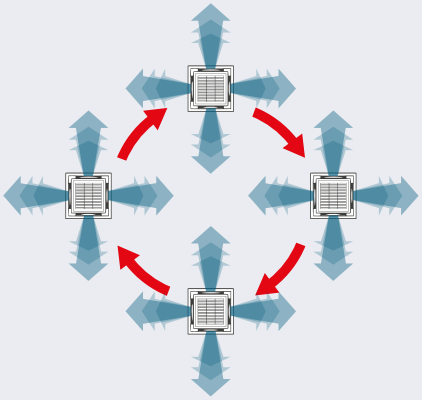
1) Standard oscillation



2) Diametrically opposed oscillation



3) All-round alternating oscillation



4-way SMART cassette



- 4-way high-efficiency design for large capacities
- Enhanced energy savings via presence sensor option
- Integrated drain pump (850 mm); prepared for external fresh air supply
- Not a stock item – lead time on request
  - Accessories required: remote control + panel

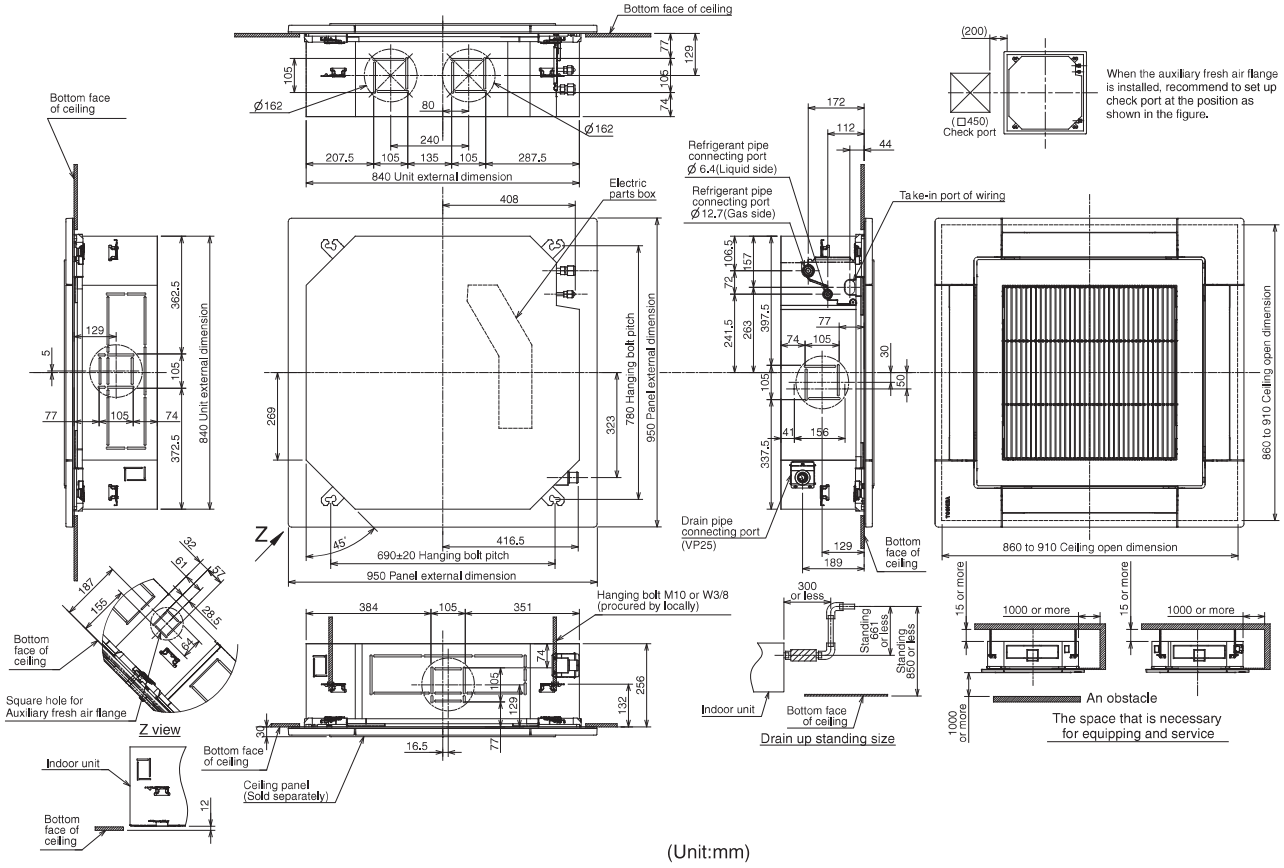
INDOOR UNIT		MMU-UP0091H-E	MMU-UP0121H-E	MMU-UP0151H-E	MMU-UP0181H-E	MMU-UP0241H-E
Cooling capacity	kW ❄	2,80	3,60	4,50	5,60	7,10
Heating capacity	kW ☀	3,20	4,00	5,00	6,30	8,00
Airflow	m³/h	708/738/ 768/792/ 846	708/738/ 768/792/ 846	800/860/ 920/960/ 1060	940/1040/ 1100/1160/ 1260	1120/1210/ 1300/1440/ 1580
Sound pressure level (low/med/high)	dB(A) ❄	26/28/30	26/28/30	28/30/32	31/33/36	35/37/41
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Condensate pipe diameter	mm	25	25	25	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW ❄	0,02	0,02	0,018	0,026	0,042
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	18	18	25	25	25
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	5,0	5,0	5,0	5,0	5,0
Price	**€**	**2.015,-**	**2.205,-**	**2.465,-**	**2.625,-**	**2.730,-**

INDOOR UNIT		MMU-UP0271H-E	MMU-UP0301H-E	MMU-UP0361H-E	MMU-UP0481H-E	MMU-UP0561H-E
Cooling capacity	kW ❄	8,00	9,00	11,20	14,00	16,00
Heating capacity	kW ☀	9,00	10,00	12,50	16,00	18,00
Airflow	m³/h	1250/1320/ 1380/1590/ 1770	1400/1450/ 1520/1770/ 1940	1260/1356/ 1596/1848/ 2184	1368/1470/ 1740/1998/ 2262	1404/1512/ 1782/2034/ 2262
Sound pressure level (low/med/high)	dB(A) ❄	35/37/42	37/39/44	32/38/45	33/39/46	35/40/46
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	25	25	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW ❄	0,054	0,068	0,125	0,135	0,137
Dimensions (HxWxD)	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	25	25	25	25	25
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	5,0	5,0	5,0	5,0	5,0
Price	**€**	**2.775,-**	**2.855,-**	**2.960,-**	**3.120,-**	**3.365,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-U41PG(W)-E	Panel for smart cassette	**430,-**
RBC-AXU41U-E	Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette	**315,-**
TCB-SIR41U-E	Occupancy sensor kit for installation in smart cassette	**130,-**
TCB-GFC1603UE	Fresh air filter	**290,-**
TCB-SP1603UE	Spacer frame for lowering the panel by 70 mm	**230,-**
TCB-BC1603UE	Air discharge direction kit for blocking of up to three discharge sides	**75,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**

You will find all the control options from page 183 onwards.

4-WAY SMART CASSETTE



(Unit:mm)

2-way cassette



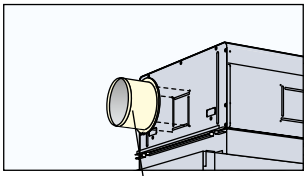
- Draft-free air distribution, directed to 2 sides
- Integrated drain pump (850 mm); prepared for external fresh air supply
  - Accessories required: remote control + panel

INDOOR UNIT		MMU-UP0071WH-E	MMU-UP0091WH-E	MMU-UP0121WH-E	MMU-UP0151WH-E	MMU-UP0181WH-E
Cooling capacity	kW ❄	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW ☀	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	450/498/558	450/498/558	450/498/558	450/534/600	618/750/900
Sound pressure level (low/med/high)	dB(A) ❄	30/32/34	30/32/34	30/32/34	30/33/35	30/33/35
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,029	0,029	0,029	0,03	0,044
Dimensions (HxWxD)	mm	295 x 815 x 570	295 x 815 x 570	295 x 815 x 570	295 x 815 x 570	345 x 1180 x 570
Weight	kg	19	19	19	19	26
Panel dimensions (HxWxD)	mm	20 x 1050 x 680	20 x 1050 x 680	20 x 1050 x 680	20 x 1050 x 680	20 x 1415 x 680
Panel weight	kg	10	10	10	10	14
Price	**€**	**1.870,-**	**1.960,-**	**2.000,-**	**2.065,-**	**2.115,-**

INDOOR UNIT		MMU-UP0241WH-E	MMU-UP0271WH-E	MMU-UP0301WH-E	MMU-UP0361WH-E	MMU-UP0481WH-E	MMU-UP0561WH-E
Cooling capacity	kW ❄	7,10	8,00	9,00	11,20	14,00	16,00
Heating capacity	kW ☀	8,00	9,00	10,00	12,50	16,00	18,00
Airflow	m³/h	738/840/1050	738/840/1050	780/900/1260	1182/1434/1740	1230/1482/1800	1320/1578/2040
Sound pressure level (low/med/high)	dB(A) ❄	33/35/38	33/35/38	34/37/40	36/39/42	37/40/43	39/42/46
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,054	0,054	0,064	0,073	0,088	0,117
Dimensions (HxWxD)	mm	345 x 1180 x 570	345 x 1180 x 570	345 x 1180 x 570	345 x 1600 x 570	345 x 1600 x 570	345 x 1600 x 570
Weight	kg	26	26	26	36	36	36
Panel dimensions (HxWxD)	mm	20 x 1415 x 680	20 x 1415 x 680	20 x 1415 x 680	20 x 1835 x 680	20 x 1835 x 680	20 x 1835 x 680
Panel weight	kg	14	14	14	14	14	14
Price	**€**	**2.260,-**	**2.340,-**	**2.505,-**	**3.040,-**	**3.315,-**	**3.665,-**

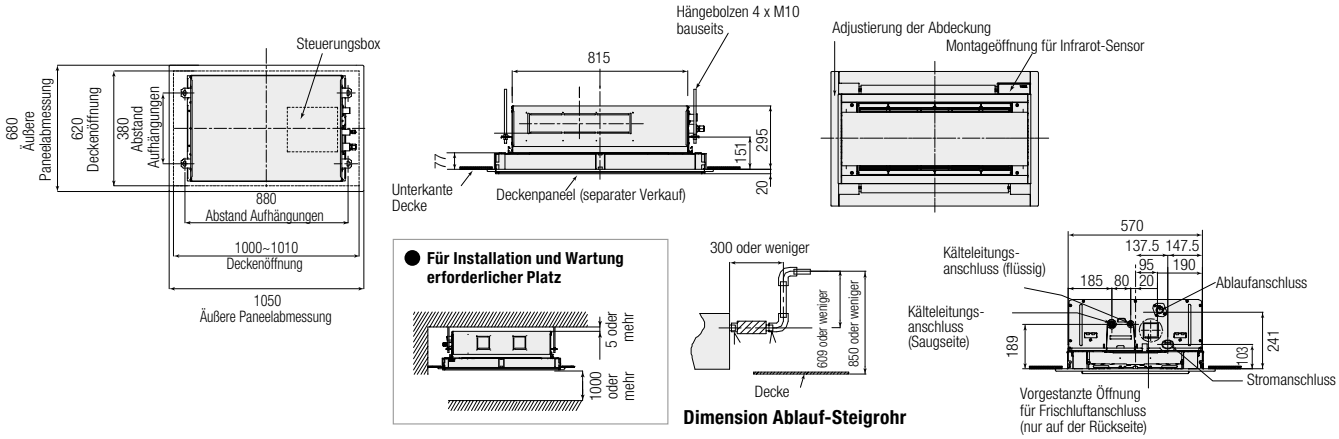
ACCESSORIES	DESCRIPTION	PRICE €
RBC-UW283PG(W)-E	Panel for sizes 7 to 15	**560,-**
RBC-UW803PG(W)-E	Panel for sizes 18 to 30	**745,-**
RBC-UW1403PG(W)-E	Panel for sizes 36 to 56	**860,-**
RBC-AXU31UW-E	Infrared remote control + receiver kit for installation in 2-way cassette	**375,-**
TCB-FF151US-E	Spigot flange for fresh air connection Ø 150 mm	**80,-**

You will find all the control options from page 183 onwards.

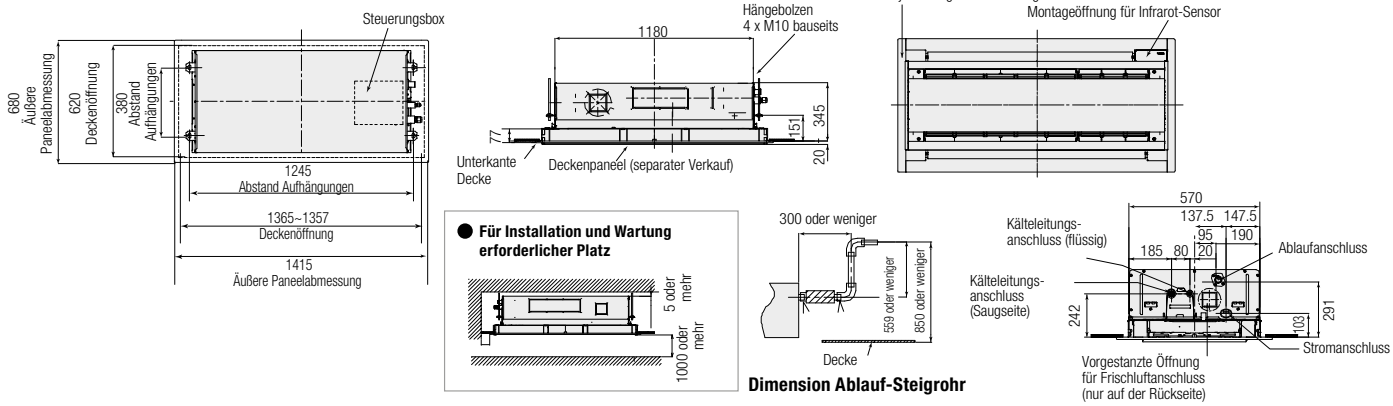


Auxiliary fresh air flange
TCB-FF151US-E

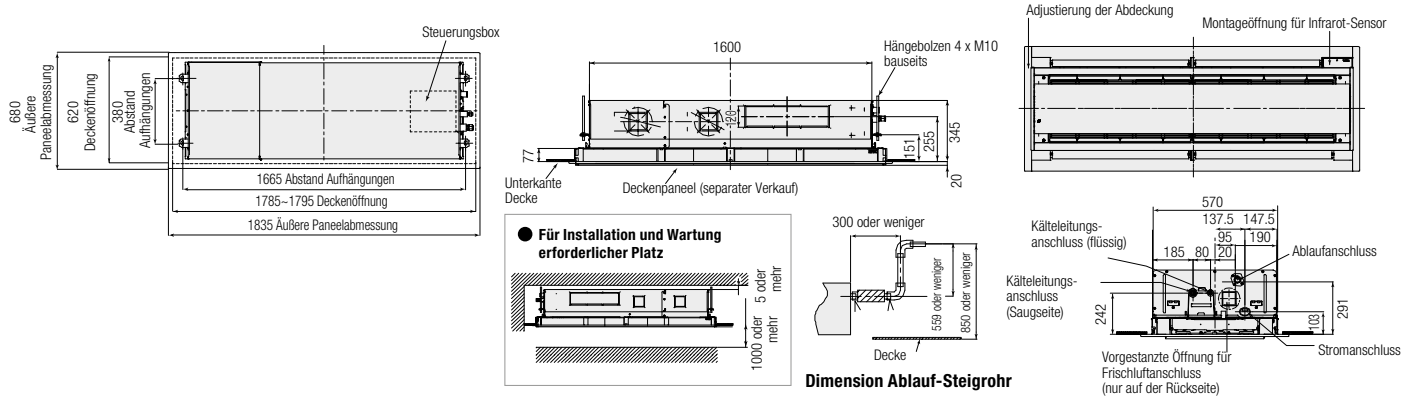
MMU-UP0071WH-E to MMU-UP0151WH-E



MMU-UP0181WH-E to MMU-UP0301WH-E



MMU-UP0361WH-E to MMU-UP0561WH-E



(Einheit: mm)

1-way flat cassette



- Draft-free air distribution, directed to 1 side
- Ultra-flat 30 mm design panel with presence sensor option
- Optional plasma filter with ionizer
- Minimal installation height of just 150 mm
- Integrated drain pump
  - Accessories required: remote control + panel

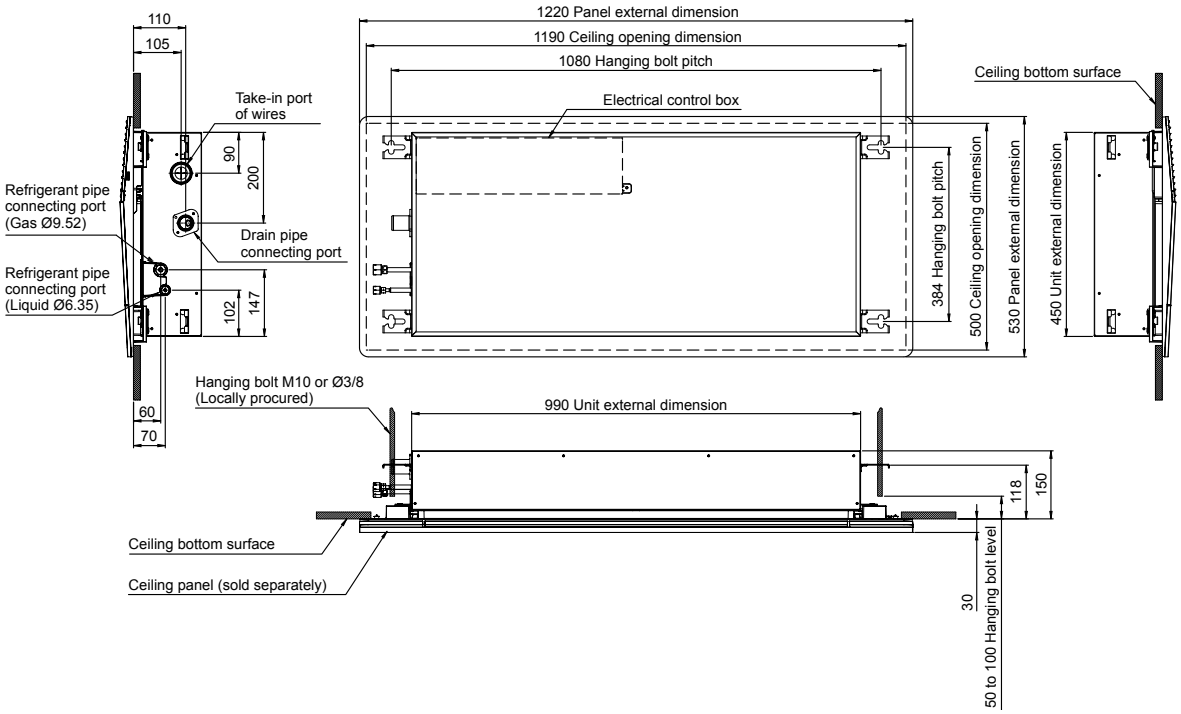
INDOOR UNIT		MMU-UP0031YHP-E	MMU-UP0051YHP-E	MMU-UP0071YHP-E	MMU-UP0091YHP-E	MMU-UP0121YHP-E
Cooling capacity	kW ❄	0,90	1,70	2,20	2,80	3,60
Heating capacity	kW ☀	1,30	1,90	2,50	3,20	4,00
Airflow	m³/h	270/370/480	270/370/480	270/390/500	290/410/520	290/420/540
Sound pressure level (low/med/high)	dB(A) ❄	25/33/37	25/33/37	25/34/38	26/35/39	26/36/40
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,015	0,015	0,017	0,018	0,018
Dimensions (HxWxD)	mm	150 x 990 x 450	150 x 990 x 450	150 x 990 x 450	150 x 990 x 450	150 x 990 x 450
Weight	kg	14+4	14+4	14+4	14+4	14+4
Panel dimensions (HxWxD)	mm	30 x 1220 x 530	30 x 1220 x 530	30 x 1220 x 530	30 x 1220 x 530	30 x 1220 x 530
Panel weight	kg	4	4	4	4	4
Price	**€**	**1.960,-**	**1.990,-**	**2.010,-**	**2.030,-**	**2.060,-**

INDOOR UNIT		MMU-UP0151YHP-E	MMU-UP0181YHP-E	MMU-UP0241YHP-E	MMU-UP0271YHP-E
Cooling capacity	kW ❄	4,50	5,60	7,10	8,00
Heating capacity	kW ☀	5,00	6,30	8,00	9,00
Airflow	m³/h	500/630/700	500/650/800	600/760/940	720/860/1000
Sound pressure level (low/med/high)	dB(A) ❄	33/36/39	33/37/40	37/42/46	41/44/47
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,8 (5/8)	15,8 (5/8)
Condensate pipe diameter	mm	25	25	25	25
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,025	0,027	0,042	0,05
Dimensions (HxWxD)	mm	150 x 1180 x 450	150 x 1180 x 450	150 x 1180 x 450	150 x 1180 x 450
Weight	kg	15	15	16	16
Panel dimensions (HxWxD)	mm	30 x 1410 x 530	30 x 1410 x 530	30 x 1410 x 530	30 x 1410 x 530
Panel weight	kg	5	5	5	5
Price	**€**	**2.110,-**	**2.380,-**	**2.530,-**	**2.630,-**

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UY32P-E	Panel for small chassis (990 mm)	**555,-**
RBC-UY42P-E	Panel for big chassis (1180 mm)	**580,-**
RBC-AX33UYP-E	Infrared remote control + receiver kit for installation in 1-way cassette	**80,-**
TCB-EAPC1UYHP-E	PURE Plasmafilter Kit for 1-way FLAT cassette	**300,-**
TCB-SIR41UYP-E	Occupancy sensor kit for installation in 1-way FLAT cassette	**120,-**

You will find all the control options from page 183 onwards.

1-WAY FLAT CASSETTE





Standard duct unit

- Low installation height of just 275 mm
- External static pressure up to 120 Pa, integrated air filter
- Integrated drain pump (850 mm); prepared for external fresh air supply



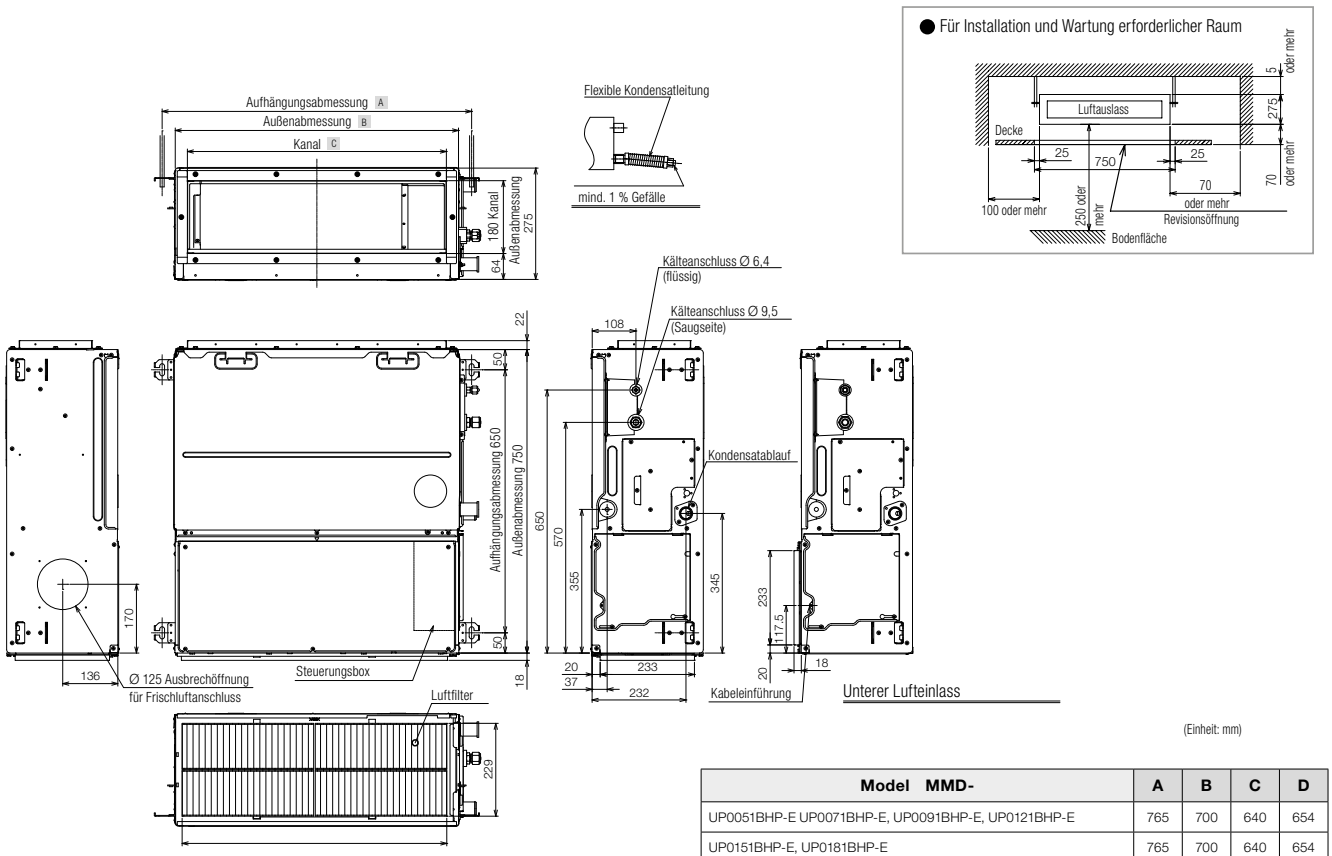
INDOOR UNIT		MMD-UP0051BHP-E	MMD-UP0071BHP-E	MMD-UP0091BHP-E	MMD-UP0121BHP-E	MMD-UP0151BHP-E	MMD-UP0181BHP-E
Cooling capacity	kW ❄	1,70	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW ☀	1,90	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	360/450/ 540	360/450/ 540	390/480/ 570	390/480/ 570	540/660/ 920	540/660/ 920
Sound pressure level (low/med/high)	dB(A) ❄	29/26/23	23/26/29	23/26/30	23/26/30	25/29/33	25/29/33
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW ❄	0,055	0,038	0,043	0,043	0,062	0,062
External static pressure	Pa	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120
Dimensions (HxWxD)	mm	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750
Weight	kg	23	23	23	23	23	23
Price	**€**	**1.430,-**	**1.450,-**	**1.460,-**	**1.490,-**	**1.540,-**	**1.580,-**

INDOOR UNIT		MMD-UP0241BHP-E	MMD-UP0271BHP-E	MMD-UP0301BHP-E	MMD-UP0361BHP-E	MMD-UP0481BHP-E	MMD-UP0561BHP-E
Cooling capacity	kW ❄	7,10	8,00	9,00	11,20	14,00	16,00
Heating capacity	kW ☀	8,00	9,00	10,00	12,50	16,00	18,00
Airflow	m³/h	870/1090/ 1320	870/1090/ 1320	960/1200/ 1450	1380/1620/ 1920	1500/1920/ 2350	1500/1920/ 2350
Sound pressure level (low/med/high)	dB(A) ❄	27/31/36	27/31/36	27/31/36	33/36/40	33/36/40	33/36/40
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50	220-240/1+N/ 50
Power consumption (min./nom./max.)	kW ❄	0,077	0,077	0,094	0,172	0,198	0,198
External static pressure	Pa	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120
Dimensions (HxWxD)	mm	275 x 1000 x 750	275 x 1000 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg	30	30	30	40	40	40
Price	**€**	**1.770,-**	**1.840,-**	**2.010,-**	**2.190,-**	**2.360,-**	**2.600,-**

ACCESSORIES	DESCRIPTION	PRICE €
TCB-SF56C6BPE	Connection flange (2 × Ø 200 mm) RAV: Size 5 / VRF: Sizes 5 to 18	**160,-**
TCB-SF80C6BPE	Connection flange (3 × Ø 200 mm) RAV: Size 8 / VRF: Sizes 24 to 30	**190,-**
TCB-SF160C6BPE	Connection flange (4 × Ø 200 mm) RAV: Sizes 11 to 16 / VRF: Sizes 36 to 56	**230,-**
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**

You will find all the control options from page 183 onwards.

STANDARD DUCT UNIT

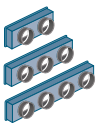


(Einheit: mm)

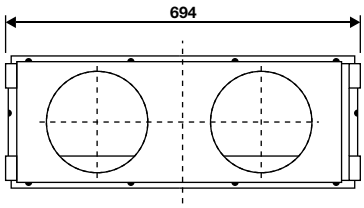
Model MMD-	A	B	C	D
UP0051BHP-E UP0071BHP-E, UP0091BHP-E, UP0121BHP-E	765	700	640	654
UP0151BHP-E, UP0181BHP-E	765	700	640	654
UP0241BHP-E, UP0271BHP-E, UP0301BHP-E	1065	1000	940	935.5
UP0361BHP-E, UP0481BHP-E, UP0561BHP-E	1465	1400	1340	1349

The following connection flanges are available for standard duct units:

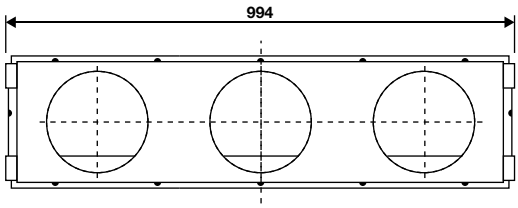
Flange	Compatible with
TCB-SF56C6BPE	MMD-UP0051/0071/0091/0121/0151/0181BHP-E
TCB-SF80C6BPE	MMD-UP0241/0271/0301BHP-E
TCB-SF160C6BPE	MMD-UP0361/0481/0561BHP-E



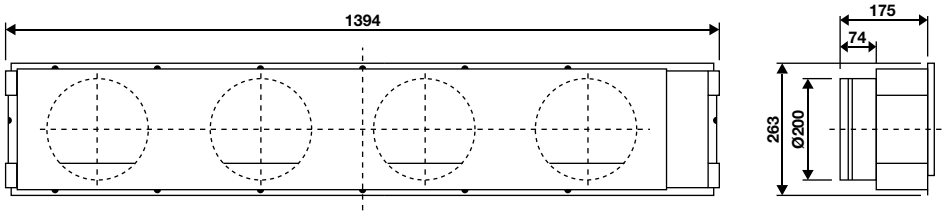
Äußere Dimensionen:



TCB-SF56C6BPE



TCB-SF80C6BPE



(Einheit: mm)

TCB-SF160C6BPE

SSD super-slim duct unit

- Minimal installation height of just 210 mm
- Lightweight and quiet, with compact dimensions
- Integrated air filter & drain pump (350 mm)



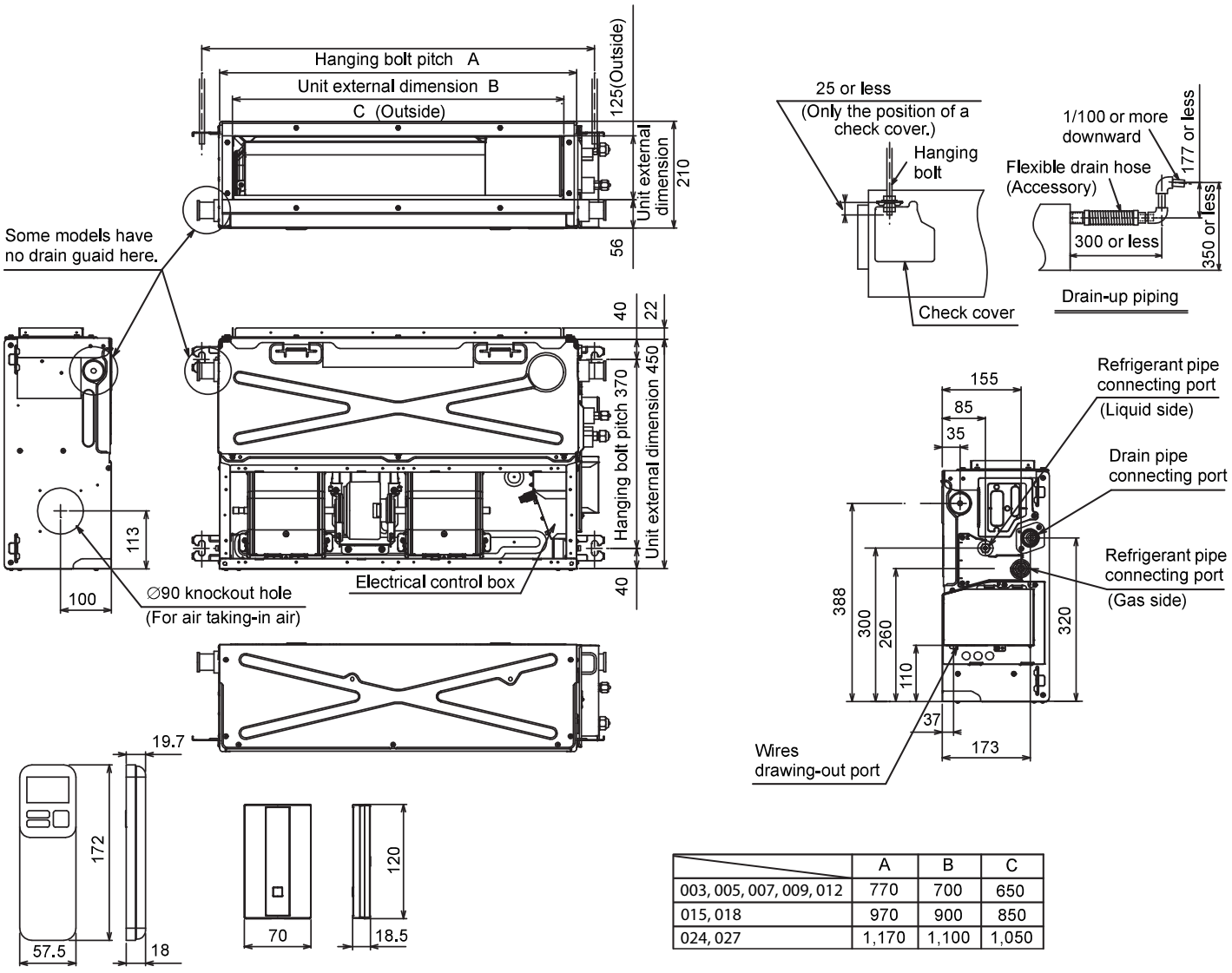
INDOOR UNIT		MMD-UP0031SPHY-E	MMD-UP0051SPHY-E	MMD-UP0071SPHY-E	MMD-UP0091SPHY-E	MMD-UP0121SPHY-E
Cooling capacity	kW ❄	0,90	1,70	2,20	2,80	3,60
Heating capacity	kW ☀	1,00	1,90	2,50	3,20	4,00
Airflow	m³/h	410/380/360	450/410/380	540/470/400	570/500/430	600/520/440
Sound pressure level (low/med/high)	dB(A) ❄	25/26/27/28/29	26/27/28/29/30	26/28/29/30/31	26/28/29/31/32	27/29/30/32/33
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,018	0,02	0,026	0,029	0,031
External static pressure	Pa	10/20/30/40/50	10/20/30/40/50	10/20/30/40/50	10/20/30/40/50	10/20/30/40/50
Dimensions (HxWxD)	mm	210 x 700 x 450	210 x 700 x 450	210 x 700 x 450	210 x 700 x 450	210 x 700 x 450
Weight	kg	16	16	16	16	16
Price	**€**	**1.110,-**	**1.130,-**	**1.170,-**	**1.185,-**	**1.240,-**

INDOOR UNIT		MMD-UP0151SPHY-E	MMD-UP0181SPHY-E	MMD-UP0241SPHY-E	MMD-UP0271SPHY-E
Cooling capacity	kW ❄	4,50	5,60	7,10	8,00
Heating capacity	kW ☀	5,00	6,30	8,00	9,00
Airflow	m³/h	690/640/550	780/750/660	1080/950/860	1140/980/910
Sound pressure level (low/med/high)	dB(A) ❄	28/29/30/31/33	29/31/32/33/34	30/32/33/35/36	32/33/34/36/37
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,035	0,044	0,067	0,072
External static pressure	Pa	10/20/30/40/50	10/20/30/40/50	10/20/30/40/50	10/20/30/40/50
Dimensions (HxWxD)	mm	210 x 900 x 450	210 x 900 x 450	210 x 1100 x 450	210 x 1100 x 450
Weight	kg	18	18	21	21
Price	**€**	**1.300,-**	**1.380,-**	**1.480,-**	**1.590,-**

ACCESSORIES	DESCRIPTION	PRICE €
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	**80,-**
	**TCB-TDL0141SDY-E** Stylish louver unit for SSD Superflat Duct Unit. The three-dimensional air distribution ensures draft-free comfort. For sizes 5 to 12.	**215,-**
	TCB-TDL0181SDY-E Stylish louver unit for SSD Superflat Duct Unit. The three-dimensional air distribution ensures draft-free comfort. For sizes 15 and 18.	**250,-**
	TCB-TDL0271SDY-E Stylish louver unit for SSD Superflat Duct Unit. The three-dimensional air distribution ensures draft-free comfort. For sizes 24 and 27.	**275,-**

You will find all the control options from page 183 onwards.

SSD SUPER-SLIM DUCT UNIT



	A	B	C
003, 005, 007, 009, 012	770	700	650
015, 018	970	900	850
024, 027	1,170	1,100	1,050

High-pressure duct unit

- Greatest airflow with most compact structure
- External static pressure adjustable up to 250 Pa
- Integrated drain pump (850 mm, up to size 56)



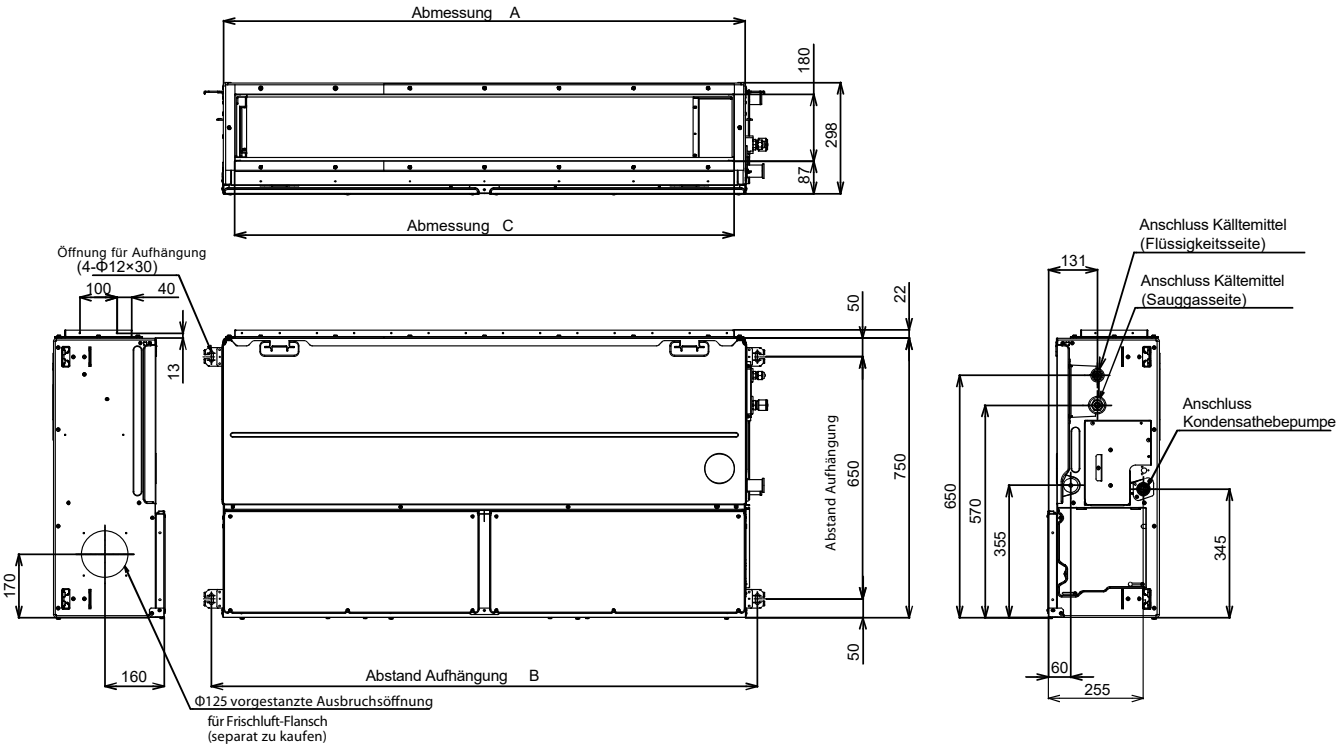
INDOOR UNIT		MMD-UP0181HP-E	MMD-UP0241HP-E	MMD-UP0271HP-E	MMD-UP0361HP-E
Cooling capacity	kW ❄	5,60	7,10	8,00	11,20
Heating capacity	kW ☀	6,30	8,00	9,00	12,50
Airflow	m³/h	900/990/1100	960/1050/1200	1200/1350/1500	1340/1560/1920
Sound pressure level (low/med/high)	dB(A) ❄	31/33/37	31/34/38	38/41/43	34/37/41
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,125	0,140	0,190	0,230
External static pressure	Pa	50/75/100/125/150/175/200	50/75/100/125/150/175/200	50/75/100/125/150/175/200	50/75/100/125/150/175/200
Dimensions (HxWxD)	mm	298 x 1000 x 750	298 x 1000 x 750	298 x 1000 x 750	298 x 1400 x 750
Weight	kg	34	34	34	43
Price	**€**	**2.350,-**	**2.570,-**	**2.670,-**	**2.790,-**

INDOOR UNIT		MMD-UP0481HP-E	MMD-UP0561HP-E	MMD-UP0721HP-E1	MMD-UP0961HP-E1
Cooling capacity	kW ❄	14,00	16,00	22,40	28,00
Heating capacity	kW ☀	16,00	18,00	25,00	31,50
Airflow	m³/h	1695/1980/2340	1920/2340/2760	2500/3200/3800	3500/4200/4800
Sound pressure level (low/med/high)	dB(A) ❄	38/41/44	41/44/46	36/40/44	38/42/46
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	22,2 (7/8)	22,0 (7/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,300	0,400	0,540	0,790
External static pressure	Pa	50/75/100/125/150/175/200	50/75/100/125/150/175/200	50/83/117/150/183/217/250	50/83/117/150/183/217/250
Dimensions (HxWxD)	mm	298 x 1400 x 750	298 x 1400 x 750	448 x 1400 x 900	448 x 1400 x 900
Weight	kg	43	43	97	97
Price	**€**	**2.920,-**	**3.140,-**	**6.390,-**	**6.670,-**

ACCESSORIES	DESCRIPTION	PRICE €
TCB-DP40DPE	Drain pump, RAV: 22 + 28 / VRF: 72 + 96	**440,-**
TCB-LK801D-E	Long Life Airfilter kit, for model sizes 18, 24 + 27	**75,-**
TCB-LK1401D-E	Long Life Airfilter kit, for model sizes 36, 48 + 56	**105,-**
TCB-LK2801DP-E	Long Life Airfilter kit, for model sizes RAV: 22 + 28 / VRF: 72 + 96	**155,-**

You will find all the control options from page 183 onwards.

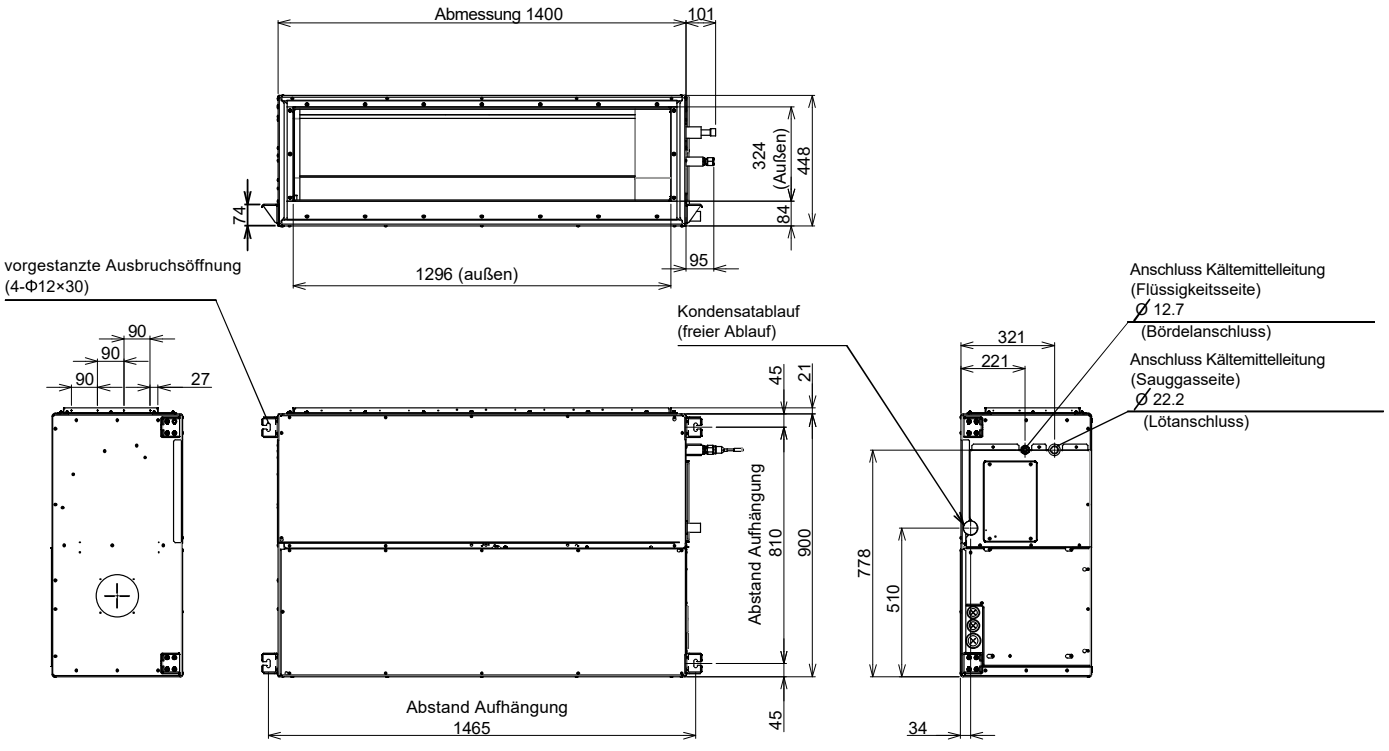
HIGH-PRESSURE DUCT UNITS MMD-UP0181HP-E to MMD-UP0561HP-E



Abmessungen

	A	B	C	D
UP018~027 Type	1000	1065	940	500
UP036~056 Type	1400	1465	1340	700

HIGH-PRESSURE DUCT UNITS MMD-UP0721HP-E to MMD-UP0961HP-E1



Fresh-air duct unit



- Compact and lightweight chassis
- Line-up to 40 kW
- Intake air temperature from -10 to +46°C
- Not a stock item – lead time on request

INDOOR UNIT		MMD-UP0481HFP-E	MMD-UP0721HFP-E1	MMD-UP0961HFP-E1	MMD-UP1121HFP-E1	MMD-UP1281HFP-E1
Cooling capacity	kW ❄	14,00	22,40	28,00	33,50	40,00
Heating capacity	kW ☀	8,90	13,90	17,40	20,80	25,20
Airflow	m³/h	760/930/1080	1200/1440/1680	1470/1800/2100	1770/2130/2520	2130/2580/3060
Sound pressure level (low/med/high)	dB(A) ❄	31/32/35/37/38	33/35/36/37/38	33/35/36/38/39	34/36/37/39/40	35/37/38/40/42
Liquid pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)	15,9 (5/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	22,2 (7/8)	22,2 (7/8)	28,6 (1 1/8)	28,6 (1 1/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,11	0,16	0,20	0,250	0,330
External static pressure	Pa	50/75/100/125/150/175/200	50/75/100/125/150/175/200	50/75/100/125/150/175/200	50/75/100/125/150/175/200	50/75/100/125/150/175/200
Dimensions (HxWxD)	mm	327 x 1430 x 750	477 x 1430 x 900	477 x 1430 x 900	477 x 1430 x 900	477 x 1430 x 900
Weight	kg	44	99	99	99	99
Price	**€**	**3.600,-**	**7.260,-**	**7.630,-**	**8.160,-**	**8.750,-**

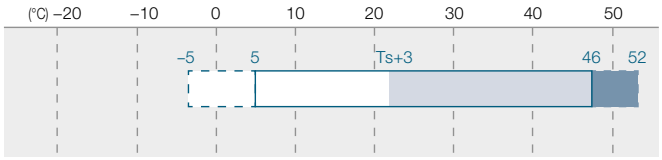
ACCESSORIES	DESCRIPTION	PRICE €
TCB-DP40DFP-E	Drain pump	**440,-**

You will find all the control options from page 183 onwards.

Nominal conditions:

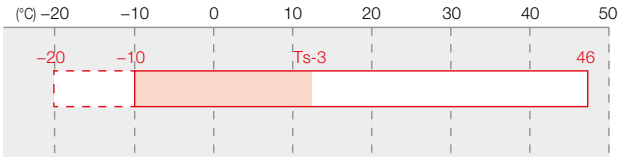
Cooling: Outdoor air temperature 33°C DB / 28°C WB, set temperature 18°C
Heating: Outdoor air temperature 0°C DB / -2.9°C WB, set temperature 25°C
Refrigerant piping: Length 7.5 m / Height 0 m

COOLING MODE



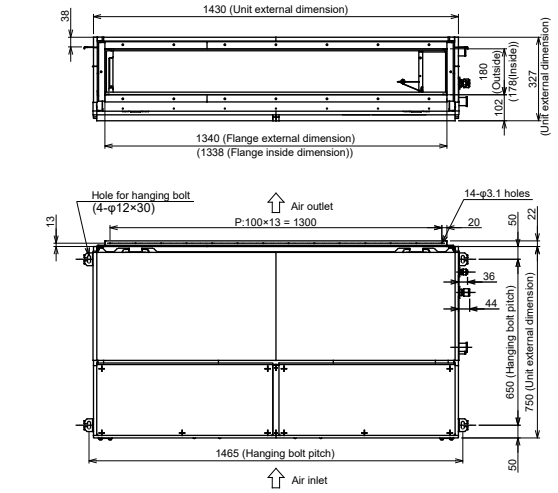
Requires pre-treatment of suction air to be 5°C or higher by the external heater.
Operatable but the adequate cooling performance will not be obtained.

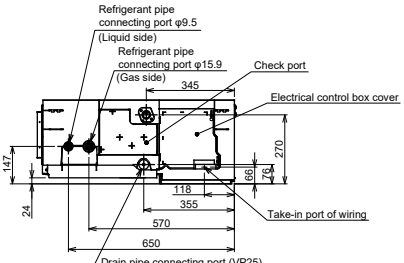
HEATING MODE

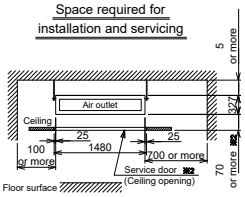


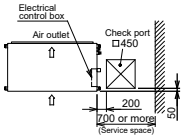
Requires pre-treatment of suction air to be -10°C or higher by the external heater.

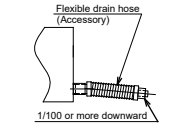
FRESH-AIR DUCT UNIT SMMSu
MMD-UP0481HFP-E



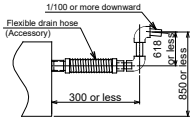




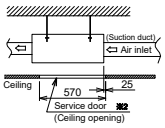




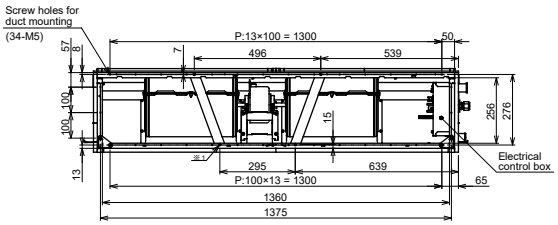
At the time of natural drainage



Drain-up piping
When attached the drain pump kit

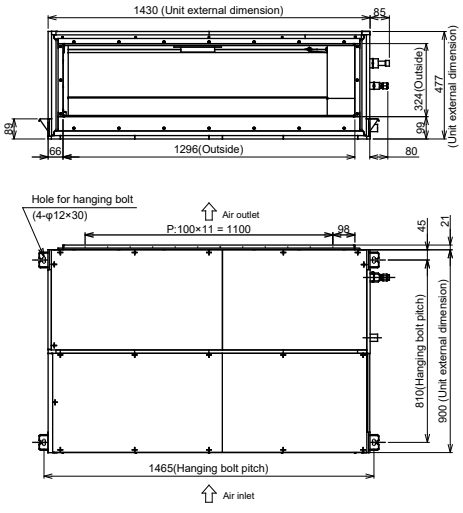


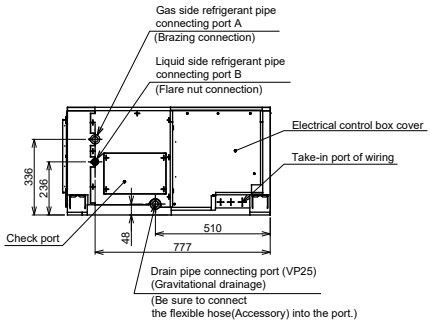
※2) If there are enough space under the unit (more than 1000mm) the service door (Ceiling opening) is not necessary.



※1) When attached the duct at air inlet, make holes in the duct and do not interfere in it. The screw head (4 places) is convex.

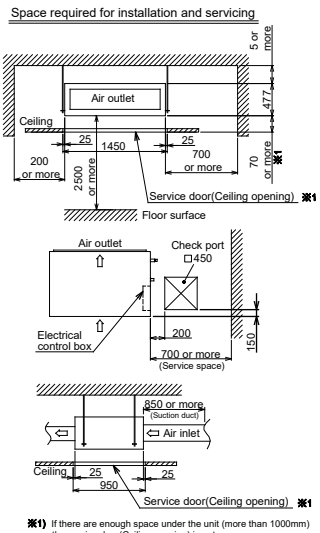
FRESH-AIR DUCT UNIT SMMSu
MMD-UP0721HFP-E1 / MMD-UP0961HFP-E1 / MMD-UP1121HFP-E1 / MMD-UP1281HFP-E1



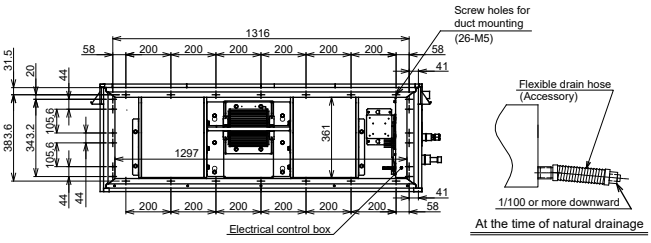


Connecting pipe size

Model	Pipe size		Remarks
0721 0961	A(Gas)	φ22.2	
	B(Liquid)	φ12.7	
1121	A(Gas)	φ28.6	Use the SOCKET(Accessory)
	B(Liquid)	φ12.7	
1281	A(Gas)	φ28.6	Use the SOCKET(Accessory)
	B(Liquid)	φ15.9	Use the LIQUID JOINT PIPE(Accessory)



※1) If there are enough space under the unit (more than 1000mm) the service door(Ceiling opening) is not necessary.



At the time of natural drainage

Console



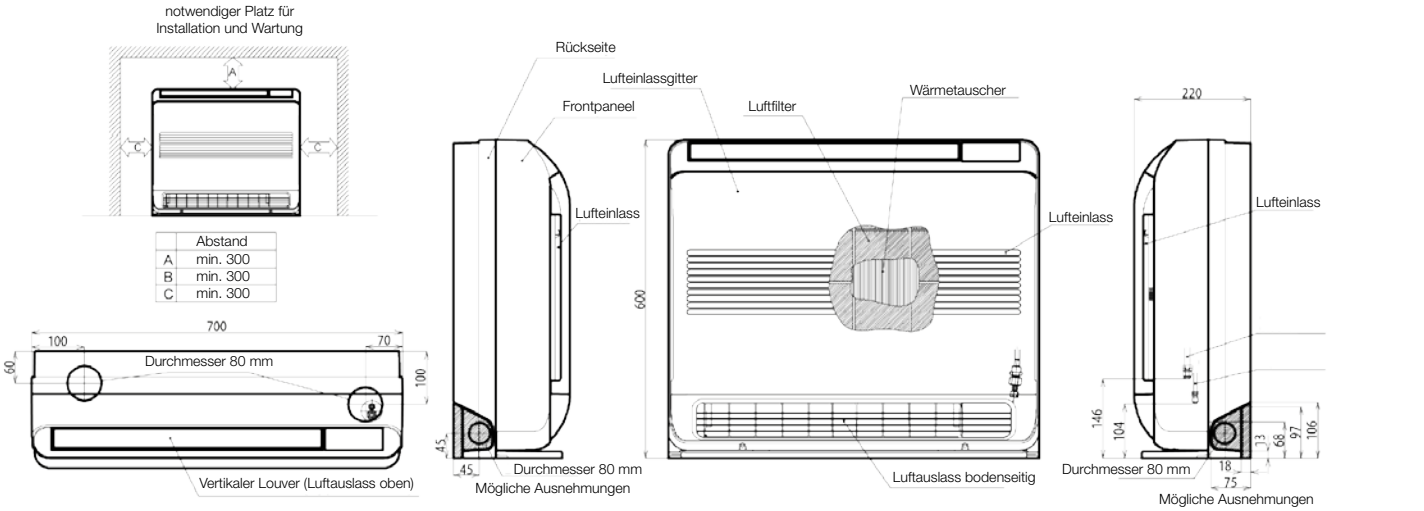
- BI-Flow console with air outlet on two sides & floor heating effect
- Very quiet running due to radial fan

INDOOR UNIT		MML-UP0071NHP-E	MML-UP0091NHP-E	MML-UP0121NHP-E	MML-UP0151NHP-E	MML-UP0181NHP-E
Cooling capacity	kW ❄	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW ☀	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	282/366/510	282/366/510	324/804/552	384/468/624	426/528/726
Sound pressure level (low/med/high)	dB(A) ❄	26/32/38	26/32/38	29/34/40	31/37/43	34/40/47
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP16	VP16	VP16	VP16	VP16
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,021	0,021	0,025	0,034	0,052
Dimensions (HxWxD)	mm	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
Weight	kg	17	17	17	17	17
Price	**€**	**1.460,-**	**1.550,-**	**1.650,-**	**1.750,-**	**1.830,-**

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✔	

You will find all the control options from page 183 onwards.

CONSOLE



(Einheit: mm)

Chassis

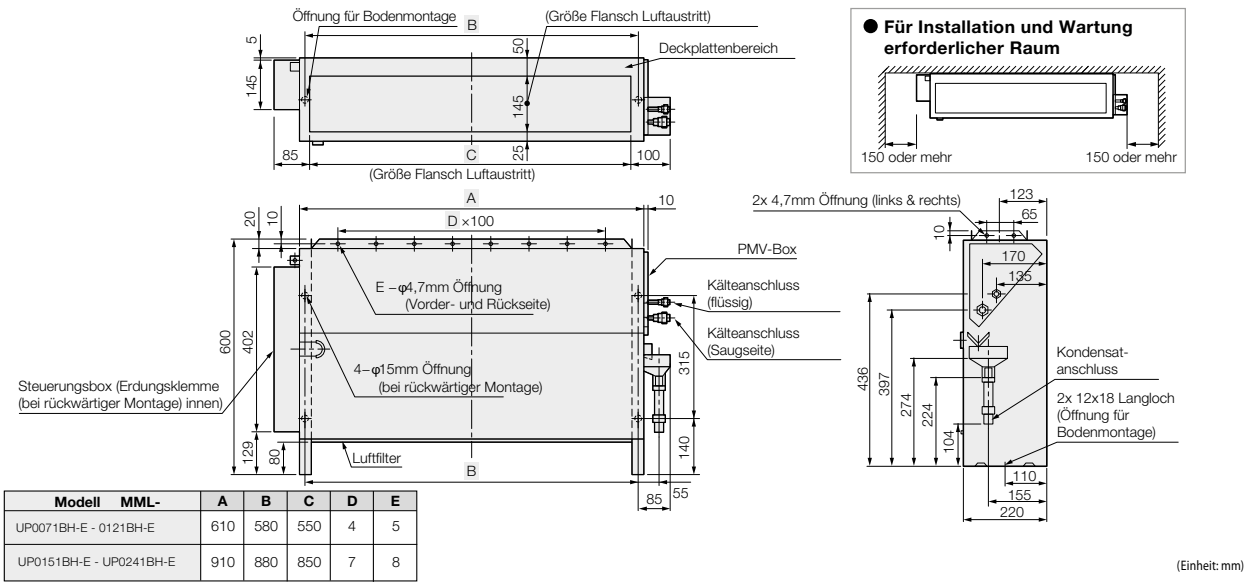
- Console unit for custom paneling
- Completely hidden so does not affect the interior



INDOOR UNIT		MML-UP0071BH-E	MML-UP0091BH-E	MML-UP0121BH-E	MML-UP0151BH-E	MML-UP0181BH-E	MML-UP0241BH-E
Cooling capacity	kW ❄	2,20	2,80	3,60	4,50	5,60	7,10
Heating capacity	kW ☀	2,50	3,20	4,00	5,00	6,30	8,00
Airflow	m³/h	300/400/460	300/400/460	300/400/460	460/600/740	490/600/740	640/790/950
Sound pressure level (low/med/high)	dB(A) ❄	32/34/36	32/34/36	32/34/36	32/34/36	32/34/36	33/37/42
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Condensate pipe diameter	mm	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,056	0,056	0,056	0,090	0,090	0,095
Dimensions (HxWxD)	mm	600 x 745 x 220	600 x 745 x 220	600 x 745 x 220	600 x 1045 x 220	600 x 1045 x 220	600 x 1045 x 220
Weight	kg	21	21	21	29	29	29
Price	**€**	**1.980,-**	**2.000,-**	**2.065,-**	**2.105,-**	**2.125,-**	**2.185,-**

You will find all the control options from page 183 onwards.

CHASSIS

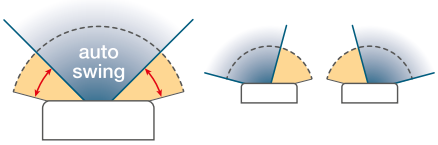


Modell MML-	A	B	C	D	E
UP0071BH-E - 0121BH-E	610	580	550	4	5
UP0151BH-E - UP0241BH-E	910	880	850	7	8

(Einheit: mm)

Floor standing unit

- Air outlet can be directed forward or up
- Optional PCB for external control, alarms, and messages
- Recess with cover for standard remote control
- Not a stock item – lead time on request



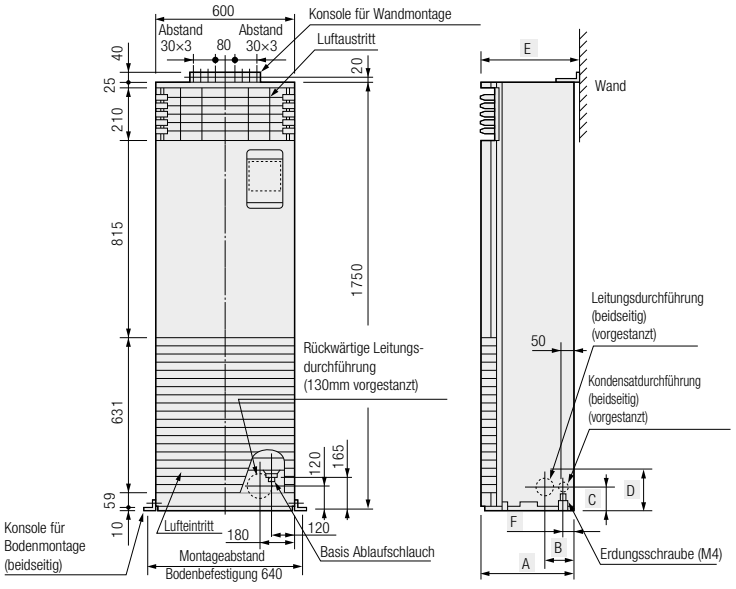


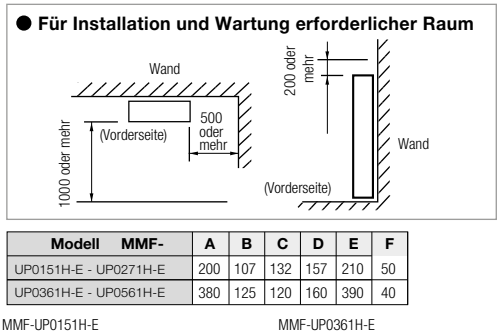
INDOOR UNIT		MMF-UP0151H-E	MMF-UP0181H-E	MMF-UP0241H-E	MMF-UP0271H-E	MMF-UP0361H-E	MMF-UP0481H-E	MMF-UP0561H-E
Cooling capacity	kW ❄	4,50	5,60	7,10	8,00	11,20	14,00	16,00
Heating capacity	kW ☀	5,00	6,30	8,00	9,00	12,50	16,00	18,00
Airflow	m³/h	660/780/900	660/780/900	840/990/1200	840/990/1200	1380/1620/1920	1560/1730/2160	1560/1730/2160
Sound pressure level (low/med/high)	dB(A) ❄	37/42/46	37/42/46	39/45/49	39/45/49	41/46/51	44/49/54	44/49/54
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Power consumption (min./nom./max.)	kW ❄	0,055	0,055	0,089	0,089	0,135	0,160	0,160
Dimensions (HxWxD)	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
Weight	kg	46	46	47	47	62	62	62
Price	**€**	**2.895,-**	**2.940,-**	**3.065,-**	**3.080,-**	**3.315,-**	**3.335,-**	**3.365,-**

ACCESSORIES	DESCRIPTION	PRICE €
TCB-CKC1F-E	Cover kit to close the remote control slot	**70,-**

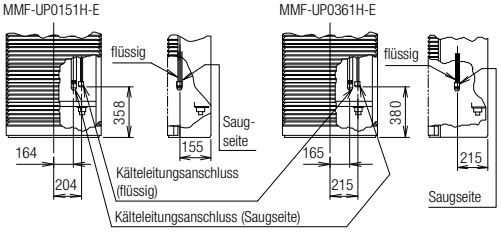
You will find all the control options from page 183 onwards.

FLOOR STANDING UNIT



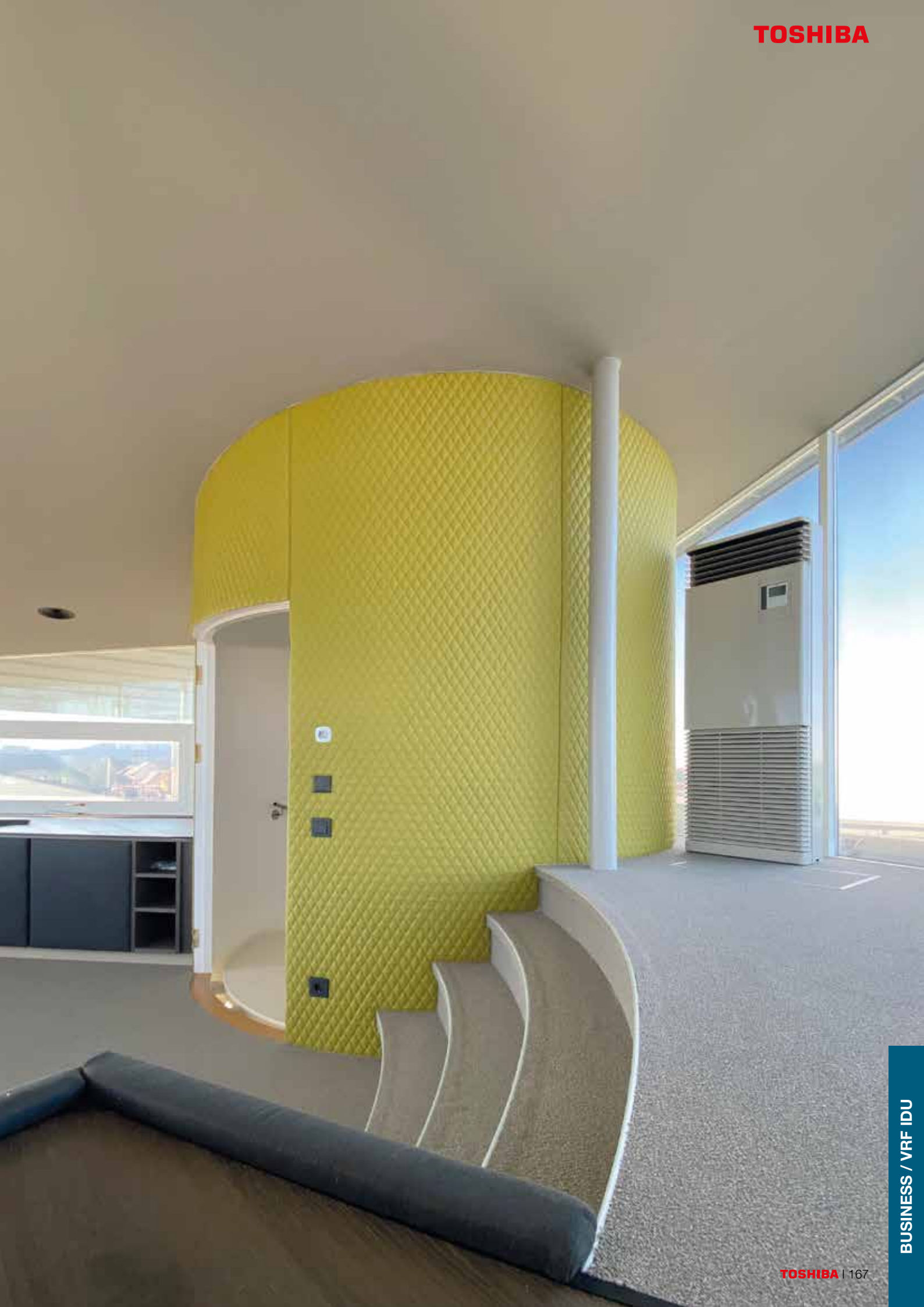


Modell MMF-	A	B	C	D	E	F
UP0151H-E - UP0271H-E	200	107	132	157	210	50
UP0361H-E - UP0561H-E	380	125	120	160	390	40



Führung Kälteleitungen

(Einheit: mm)



DX-kit

- Up to 56 kW cooling/heating capacity with a single valve kit
- A single controller can be configured for all control options:
  - Regulating the exhaust air or room temperature
  - Supply air control
  - 0 – 10 V capacity control



- Direct expansion kit consisting of control cabinet, PMV kit and all the necessary sensors
- For use together with air handling units and air curtains
- All temperature sensors with 7.5 m length
- Wired remote control needed for commissioning (not included)
- Observe the refrigerant volume for 3rd party heat exchangers shown in the data book.
- For combination with SMMSu, SHRMe outdoor units / Cannot be combined with Mini SMMSe!

Combination table for SMMSu

Type of control	Supply air, exhaust air, or 0 – 10 V capacity control												Supply air or exhaust air control								
PMV control	Single							Twin					Double twin					Triple			
Number of CONTROLLERS	1							1					2					3			
Number of VALVE KITS	1							2					4 (2 x 2)					6 (3 x 2)			
Register version	1 cycle							1 cycle					2 cycles					4 cycles			
Total achievable capacity (kW)	22.40	28.00	33.50	40.00	45.00	50.40	56.00	67.00	80.00	89.50	100.50	112.00	134.00	156.50	179.00	201.00	223.50	234.50	268.00	301.50	335.00
Total achievable capacity (HP)	8	10	12	14	16	18	20	24	28	32	36	40	48	56	64	72	80	84	96	108	120

ACCESSORIES	DESCRIPTION	PRICE €
TCB-IFDMX01UP-E	Controller (without relays)	**840,-**
TCB-IFDMR01UP-E	Controller (with relays)	**1.200,-**
RBM-A101UPVA-E	Valve kit 8 to 12 HP (22.4 to 33.5 kW)	**600,-**
RBM-A201UPVA-E	Valve kit 14 to 20 HP (40.0 to 56.0 kW)	**600,-**
TCB-IFDES1001P-E	Optional temperature sensor, 10 m cable length	**170,-**


TOSHIBA
SHRM
TOSHIBA
SHRM

HRV air-to-air heat exchangers with heat recovery



- Air-to-air cross-flow heat exchanger for stand-alone operation
- New chassis in four sizes
- DC fan motor
- Wide operating temperature range
- Enthalpy exchange efficiency of up to 88%
- Conforms to the ENTR LOT 6, Tier 2 requirements
- An optional CO_2/PM sensor adapts the fan speed to suit the room air quality status
- Integrated standard air filter
- Optional high-performance air filter
- Ventilation control screen with RBC-AMSU52-E / AWSU52-E remote control
- Display with information about the room air quality, temperatures, and humidity
- Convenient control of all air handling functions
- The DC motor provides flexible management of the air volume and automatic stable adaptation of the air volume.
- An electric damper on the fresh air inlet and a wind-proof non-return flap on the exhaust air side prevent outdoor air from entering when the unit is switched off.

Versatile air handling options when integrated into SMMSu systems:

- Operation with delay: Operation of the HRV air handling unit is delayed in 10-minute increments for 10 to 60 minutes.
- 24-hour ventilation: The HRV air handling unit works continuously, even if the air conditioning system is switched off.
- Night time heat dissipation: Removes hot air from the room in bypass mode and reduces the cooling load in the morning.
- Automatic ventilation mode: The ventilation mode is automatically switched according to the operating status of the air conditioning system and the information from room and outdoor air temperature sensors in the unit (cooling, heating, drying, fan, or temperature setting).

- Not a stock item – lead time on request

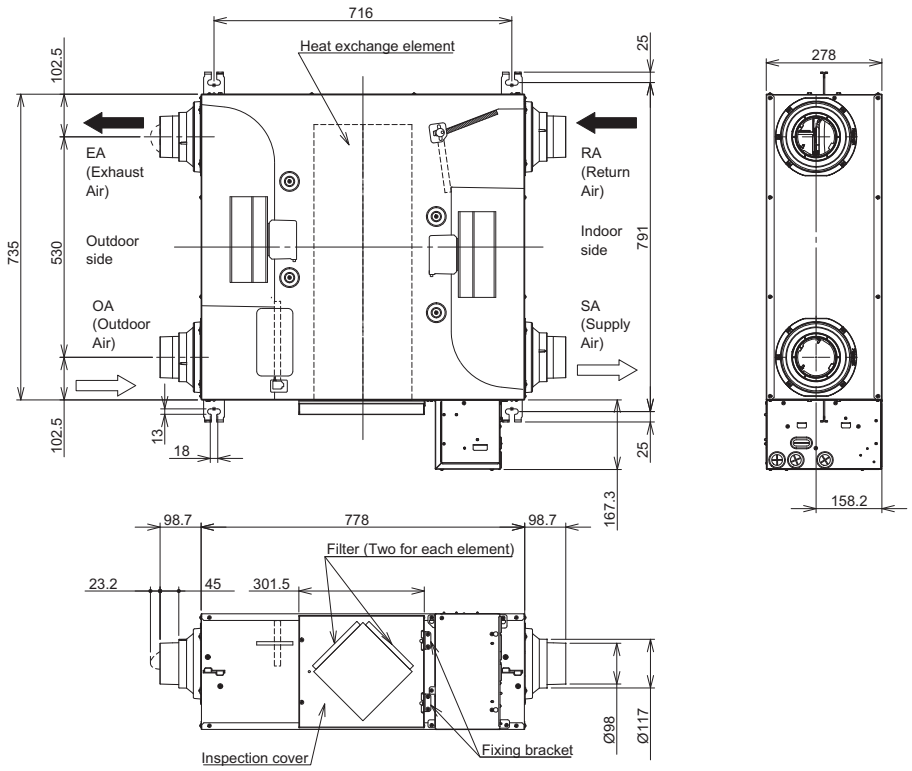
INDOOR UNIT		VN-U00151SY-E	VN-U00251SY-E	VN-U00351SY-E	VN-U00501SY-E	VN-U00651SY-E	VN-U00801SY-E	VN-U01001SY-E
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Heat exchanger mode power consumption (min./nom./max.)	W	28/35/43/56	29/39/57/75	39/59/92/152	51/60/105/174	55/96/176/306	62/114/196/328	74/151/291/541
Airflow (min./nom./max.)	m³/h	73/95/120/150	100/145/210/250	140/210/280/350	260/300/400/500	260/390/520/650	320/480/640/800	400/600/800/1000
External static pressure	Pa	26/43/60/90	06/30/53/75	26/57/100/160	39/45/80/125	29/58/100/150	28/53/92/145	30/60/110/170
Sound pressure level (low/med/high)	dB(A) ❄	20/22/25/28	20/24/27/28	21/26/31/36	25/27/31/36	24/30/35/39	23/30/35/39	24/33/38/41
Sound pressure level (low/med/high)	dB(A) ☀	20/22/25/28	20/24/27/28	21/26/31/36	25/27/31/36	24/30/35/39	23/30/35/39	24/33/38/41
Temperature exchange efficiency (min./nom./max.)	%	83,0/83,5/84,5/85,0	80,0/80,5/82,0/84,0	81,0/81,5/84,0/87,0	79,0/79,5/80,0/80,5	77,0/77,5/78,0/79,0	78,0/79,0/84,0/91,0	78,0/78,5/80,0/87,0
Enthalpy exchange efficiency (min./nom./max.)	☀	76,0/80,0/81,0/82,0	75,0/76,0/78,0/81,0	73,0/76,0/80,0/84,0	73,0/76,0/80,0/84,0	70,0/72,0/74,0/76,0	73,0/74,0/80,0/88,0	72,0/73,0/75,0/83,0
Enthalpy exchange efficiency (min./nom./max.)	% ❄	66,0/73,0/75,0/77,0	65,0/68,0/71,0/75,0	64,0/67,0/71,0/76,0	64,0/66,0/68,0/69,0	60,0/62,0/66,0/69,0	64,0/67,0/73,0/81,0	62,0/63,0/68,0/77,0
Dimensions (HxWxD)	mm	778 x 735 x 278	778 x 735 x 278	880 x 880 x 305	920 x 1020 x 337	920 x 1020 x 337	1130 x 1230 x 386	1130 x 1230 x 386
Air connections diameter	mm	100	150	150	200	200	250	250
Weight	kg	29	29	40	47	47	63	63
Price	**€**	**1.950,-**	**2.000,-**	**2.350,-**	**2.750,-**	**3.100,-**	**3.800,-**	**4.150,-**

ACCESSORIES	DESCRIPTION		PRICE €
TCB-SFMCA1V-E	Multifunctional air quality sensor for CO2 and PM2.5 particle concentration		**960,-**
TCB-PSFC551VSY-E	High performance filter (ePM1 55%) for model size 015/025	Not a stock item – lead time on request	**90,-**
TCB-PSFC551VMY-E	High performance filter (ePM1 55%) for model size 035	Not a stock item – lead time on request	**105,-**
TCB-PSFC551VLY-E	High performance filter (ePM1 55%) for model size 050/065	Not a stock item – lead time on request	**140,-**
TCB-PSFC551VXY-E	High performance filter (ePM1 55%) for model size 080/100	Not a stock item – lead time on request	**170,-**
TCB-KBCN610V-E	CN610 - DO: cold air detection		**12,-**
TCB-KBCN704V-E	CN704 - DO: supply fan ON, external damper, alarm, bypass mode		**18,-**
TCB-KBCN705V-E	CN705 - DI: remote controller prohibition, ventilation fan speed, ventilation mode, ON/OFF linked		**110,-**
TCB-KBCN706V-E	CN706 - DI: ON/OFF, ON/OFF linked		**12,-**

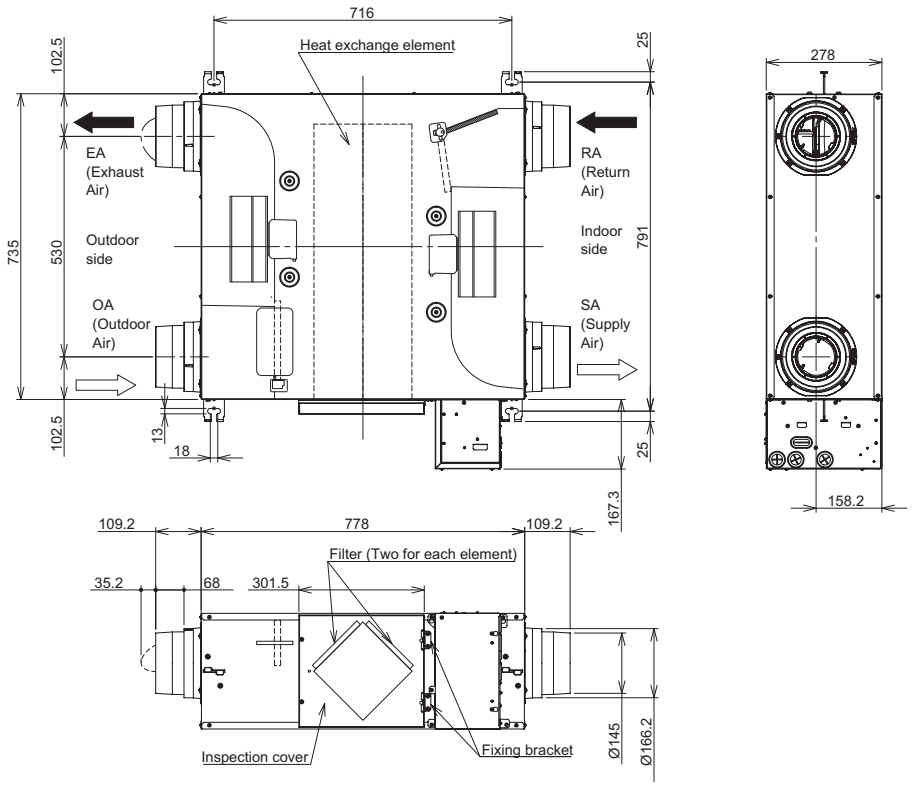
You will find all the control options from page 183 onwards.

HRV AIR-TO-AIR HEAT EXCHANGERS WITH HEAT RECOVERY

VN-U00151SY-E

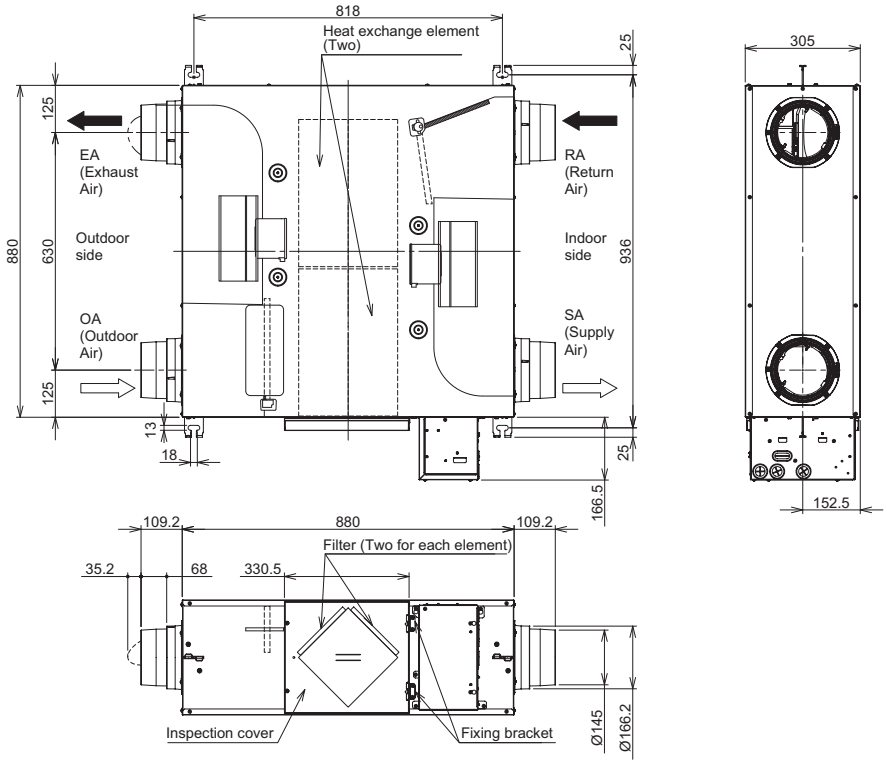


VN-U00251SY-E

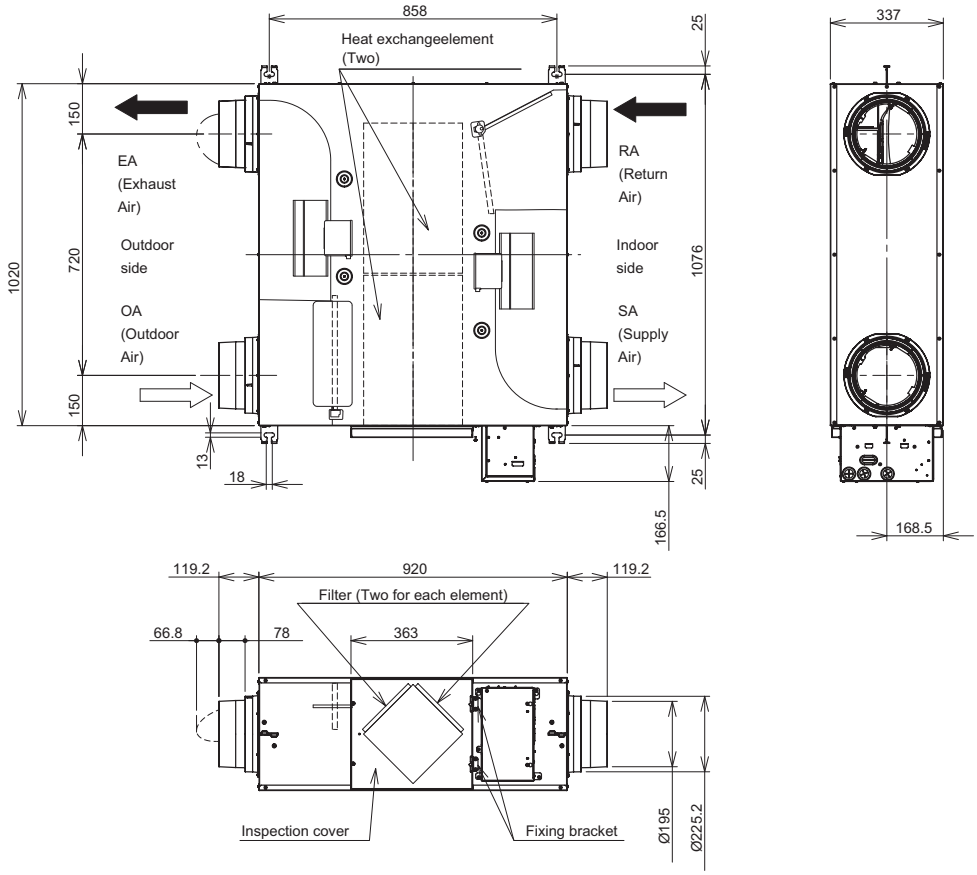


HRV AIR-TO-AIR HEAT EXCHANGERS WITH HEAT RECOVERY

VN-U00351SY-E

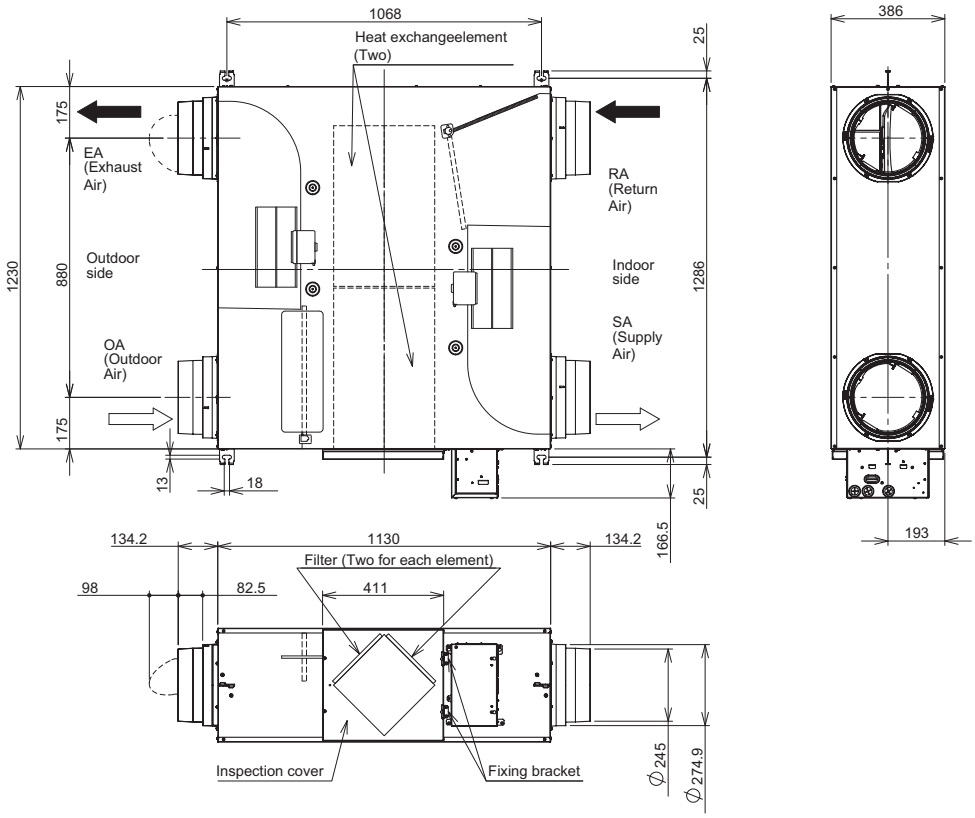


VN-U00501SY-E, VN-U00651SY-E



HRV AIR-TO-AIR HEAT EXCHANGERS WITH HEAT RECOVERY

VN-U00801SY-E, VN-U01001SY-E





Air-to-air heat exchangers with DX coil

NEW

- Air-to-air cross-flow heat exchanger with DX-coil for heating + cooling
- Up to 75% energy recovery
- Not a stock item – lead time on request



INDOOR UNIT		MMD-UPV0501HY-E	MMD-UPV0801HY-E	MMD-UPV1001HY-E
Cooling capacity	kW ❄	4,10	6,56	8,25
Heating capacity	kW ☀	5,53	8,61	10,92
Power supply	V/Ph+N/Hz	220-240/1+N/50	220-240/1+N/50	220-240/1+N/50
Temperature exchange efficiency (min./nom./max.)	%	78/74,5/74/74	86,5/75/72,5/72,5	82/71/70,5/70,5
Enthalpy exchange efficiency (min./nom./max.)	% ❄	70/65/64/64	79/68/64/64	75/63/62/62
Enthalpy exchange efficiency (min./nom./max.)	☀	77/73,5/73/73	86/75/73/73	81/73/72/72
Heat exchanger mode power consumption (min./nom./max.)	W	--/5,53/--	--/8,61/--	--/10,92/--
Running current	A ☀	0,94	1,22	2,11
Running current	A ❄	0,94	1,22	2,11
Airflow (min./nom./max.)	m³/h	-	-	-
External static pressure	Pa	35/125/170/220	27/75/130/220	30/115/160/185
Airflow limit	m³/h	600	960	1140
Sound pressure level (low/med/high)	dB(A) ☀	24/34/37/39	23/34,5/39,5/43	25,5/40,5/42,5/43
Sound pressure level (low/med/high)	dB(A) ❄	24/34/37/39	23/34,5/39,5/43	25,5/40,5/42,5/43
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Dimensions (HxWxD)	mm	1360 x 1020 x 386	1593 x 1230 x 386	1593 x 1230 x 386
Air connections diameter	mm	200	250	250
Weight	kg	66	85	85
Price	**€**	**5.830,-**	**7.000,-**	**8.160,-**

ACCESSORIES	DESCRIPTION	PRICE €
NRC-01HE	Wired remote control	**160,-**
TCB-DP31HEXE	Drain pump for all ventilation systems	**925,-**
NRB-1HE	Adapter for digital switching functions: On/Off, bypass, low/high (not for M1000HE1, M1500HE1, M2000HE1 & SMMSu)	**160,-**

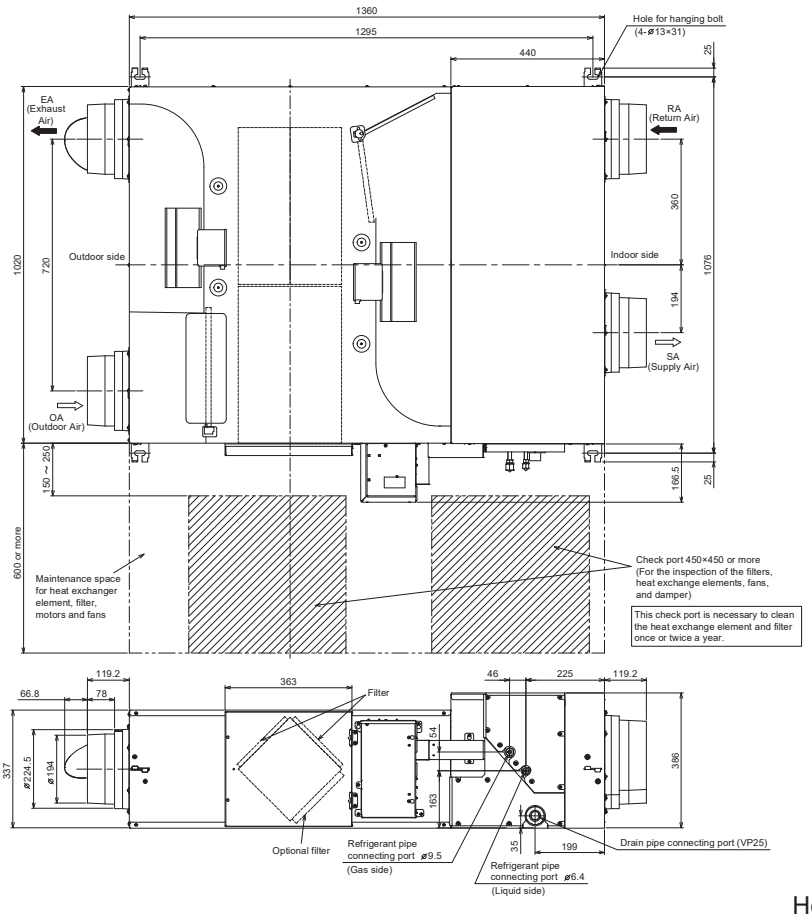
You will find all the control options from page 183 onwards.

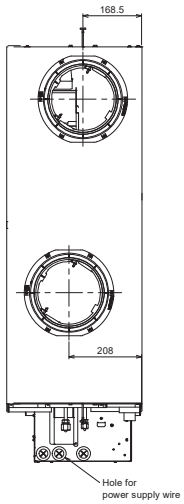
Filter efficiency grade: 82%
Outdoor temperature: -15°C ~ 43°C, 80% relative humidity or below
Unit ambient temperature: -10°C ~ +40°C, 80% relative humidity or below
Exhaust air temperature: +5°C ~ +40°C, 80% relative humidity or below

If the temperature of the outdoor air drops below -10°C, the unit switches to "Cold Operation" mode (interruption of the outdoor air supply / bypass mode).
The unit cannot be used below -15°C.
The fan for the air supply stops; the fan for exhaust air can also be programmed to stop.

AIR-TO-AIR HEAT EXCHANGERS WITH DX COIL MMD-UPV0501HY-E

Unit: mm

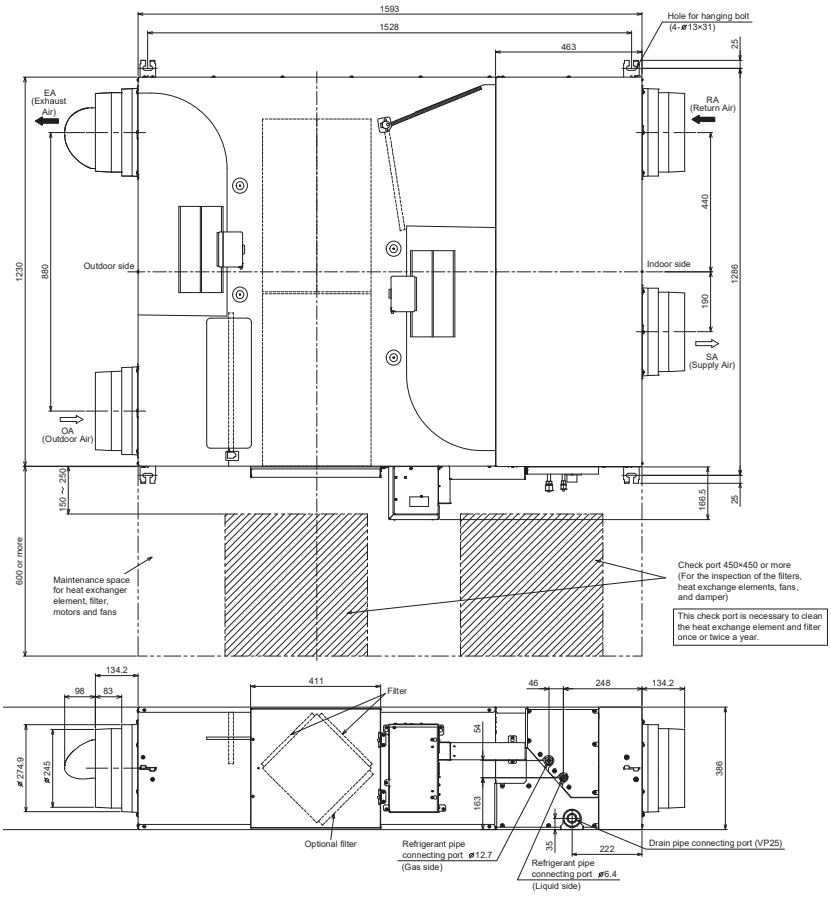


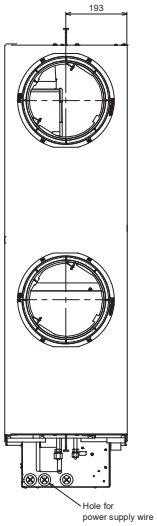


Weight: 66 kg
Heat exchange element: 2

MMD-UPV0801HY-E AND MMD-UPV1001HY-E

Unit: mm





Weight: 85 kg
Heat exchange element: 2

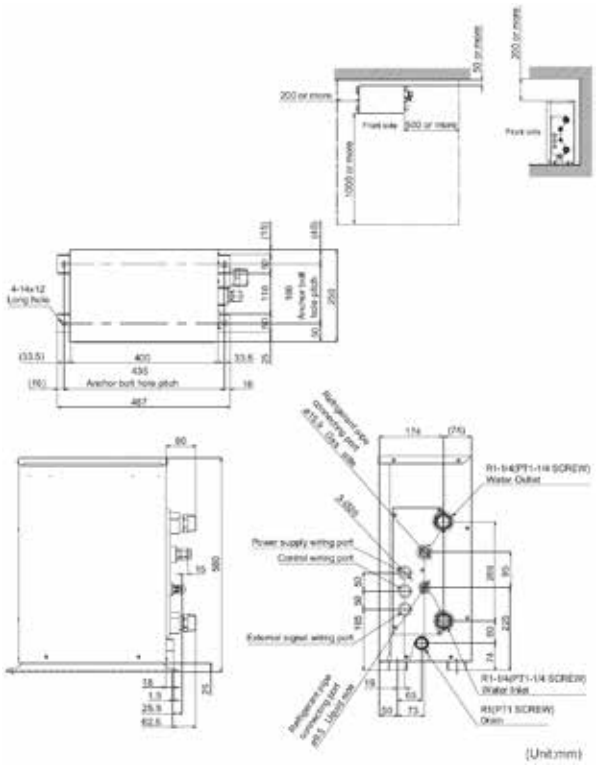
Hot water module MT (2&3-pipe)



- Efficient preparation of hot water for room heating + domestic hot water
- Hot water preparation up to +50°C.

INDOOR UNIT			MMW-UP0271LQ-E	MMW-UP0561LQ-E
Heating capacity	kW	☀	8,00	16,00
Power consumption (min./nom./max.)	kW	☀	0,014	0,014
Running current	A	☀	0,08	0,08
Sound pressure level (low/med/high)	dB(A)	☀	25,0	27,0
Water flow rate (standard)	m³/h		1,37	2,75
Water flow rate (min.)	m³/h		1,17	2,33
Pressure loss (standard water flow rate)	bar		0,40	0,44
Operating range, indoor, DB (min.-max.)	°C		+5 / +32	+5 / +32
SMMS-e operating range, outdoor, DB (min.-max.)	°C		-25 / +21	-25 / +21
SMMS-e operating range, outdoor, WB (min.-max.)	°C		-25 / +19	-25 / +19
SHRM-e operating range, outdoor, DB (min.-max.)	°C		-25 / +40	-25 / +40
SHRM-e operating range, outdoor, WB (min.-max.)	°C		-25 / +28	-25 / +28
Water inlet operating range (min.-max.)	°C		+15 / +45	+15 / +45
Water outlet operating range (min.-max.)	°C		+25 / +50	+25 / +50
Water connection	Inch		1 ¼	1 ¼
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm		VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz		220-240/1+N/50	220-240/1+N/50
Dimensions (HxWxD)	mm		580 x 400 x 250	580 x 400 x 250
Weight	kg		17,80	20,30
Price	**€**		**4.390,-**	**4.515,-**

Nominal conditions: Incoming heat exchanger temperature 30°C, outlet temperature 35°C, outdoor temperature 7°C DB / 6°C WB

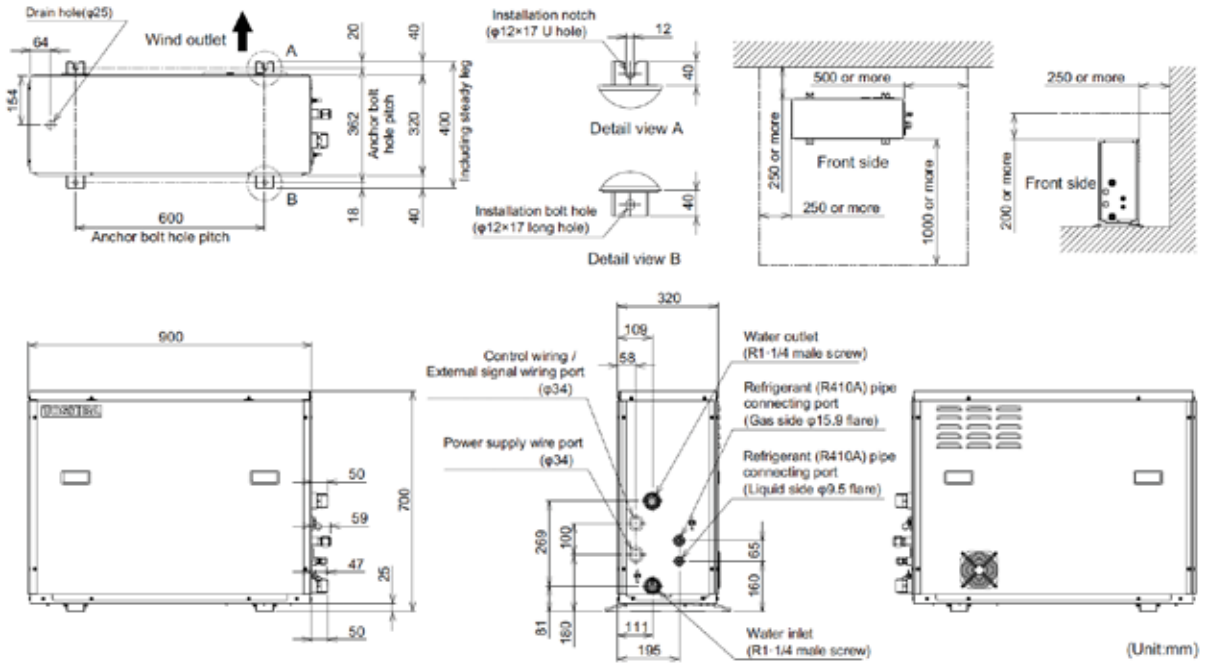


Hot water module HT (3-pipe)

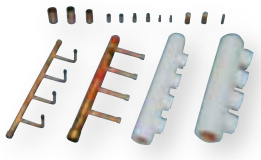
- Efficient preparation of hot water for room heating + domestic hot water
- Hot water preparation up to +82°C via cascade
- Compatible with SHRMe outdoor units
- Not a stock item – lead time on request



INDOOR UNIT		MMW-AP0481CHQ-E
Heating capacity	kW ☀	14,00
Power consumption (min./nom./max.)	kW ☀	- / - / 4,15
Sound pressure level (low/med/high)	dB(A) ☀	44,0
Water flow rate (standard)	m³/h	2,40
Water flow rate (min.)	m³/h	2,00
Pressure loss (standard water flow rate)	bar	0,15
SHRM-e operating range, outdoor, DB (min.-max.)	°C	-25 / +40
SHRM-e operating range, outdoor, WB (min.-max.)	°C	-25 / +28
Water outlet operating range (min.-max.)	°C	+50 / +82
Water connection	Inch	1 ¼
Liquid pipe diameter	mm (inch)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)
Condensate pipe diameter	mm	15
Running current (max.)	A	17,50
Power supply	V/Ph+N/Hz	220-240/1+N/50
Recommended fusing	A	20
Cascade refrigerant		R134a
Cascade charge	kg	2,1
Dimensions (HxWxD)	mm	700 x 900 x 320
Weight	kg	100
Price	**€**	**10.635,-**



SMMSu / MiNi SMMSe (2-pipe system) branches



Y-branch (two per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
RBM-BY55E	Y-branch for indoor units (2-pipe system)	< 18	< 6,4	**130,-**
RBM-BY105E	Y-branch for indoor units (2-pipe system)	18 - < 56	6,4 - < 20,2	**145,-**
RBM-BY205E	Y-branch for indoor units (2-pipe system)	56 - < 70,5	20,2 - < 25,2	**250,-**
RBM-BY305E	Y-branch for indoor units (2-pipe system)	≥ 70,5	≥ 25,2	**315,-**
RBM-BY405E	Y-branch for indoor units (2-pipe system) (SMMSu)	≥ 170	≥ 61,2	**475,-**

4/8-branch (two per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
RBM-HY1043E	4-way branch for indoor units (2-pipe system)	< 40	< 14,2	**300,-**
RBM-HY2043E	4-way branch for indoor units (2-pipe system)	40 - < 70,5	14,2 - < 25,2	**320,-**
RBM-HY1083E	8-way branch for indoor units (2-pipe system)	< 40	< 14,2	**475,-**
RBM-HY2083E	8-way branch for indoor units (2-pipe system)	40 - < 70,5	14,2 - < 25,2	**555,-**

Connection kit (three per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
RBM-BT14E	Y-connection kit for outdoor units (2-pipe system)	< 73	< 26	**400,-**
RBM-BT24E	Y-connection kit for outdoor units (2-pipe system)	> 73	> 26	**455,-**
RBM-BT34E	Y-connection kit for outdoor units (2-pipe system) (SMMSu)	≥ 128,5	≥ 46	**715,-**

SHRMe / SHRMa (3-pipe system) branches



Y-branch (three per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
RBM-BY55FE	Y-branch for indoor units (3-pipe system)	< 18	< 6,4	**180,-**
RBM-BY105FE	Y-branch for indoor units (3-pipe system)	18 - < 40	6,4 - < 14,2	**205,-**
RBM-BY205FE	Y-branch for indoor units (3-pipe system)	40 - < 70,5	14,2 - < 25,2	**290,-**
RBM-BY305FE	Y-branch for indoor units (3-pipe system)	≥ 70,5	≥ 25,2	**395,-**

4/8-branch (three per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
RBM-HY1043FE	4-way branch for indoor units (3-pipe system)	< 40	< 14,2	**555,-**
RBM-HY2043FE	4-way branch for indoor units (3-pipe system)	40 - < 70,5	14,2 - < 25,2	**590,-**
RBM-HY1083FE	8-way branch for indoor units (3-pipe system)	< 40	< 14,2	**740,-**
RBM-HY2083FE	8-way branch for indoor units (3-pipe system)	40 - < 70,5	14,2 - < 25,2	**800,-**

Connection kit (four per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
RBM-BT14FE	Y-connection kit for outdoor units (3-pipe system)	< 73	< 26	**400,-**
RBM-BT24FE	Y-connection kit for outdoor units (3-pipe system)	> 73	> 26	**475,-**

Wiring / electrical installation

GENERAL

- Connection of the power supply in accordance with the specifications of the local energy supplier.
- Connection of the power supply to the indoor unit and wiring for the indoor and outdoor units are described in the indoor unit installation manuals.
- Never apply voltage across U1/U2, U3/U4, U5/U6!
- Run electrical cables so that they do not touch any hot parts.
- After connecting the distributor box, remove the flap and fix the cables with cable ties.
- During the evacuation stage, do not supply power to the indoor unit.

SUMMARY OF THE ELECTRICAL INSTALLATION WORK

EXTERNAL POWER CONNECTION

- Carry out the electrical installation work in accordance with the applicable standards.

INTERNAL POWER CONNECTION

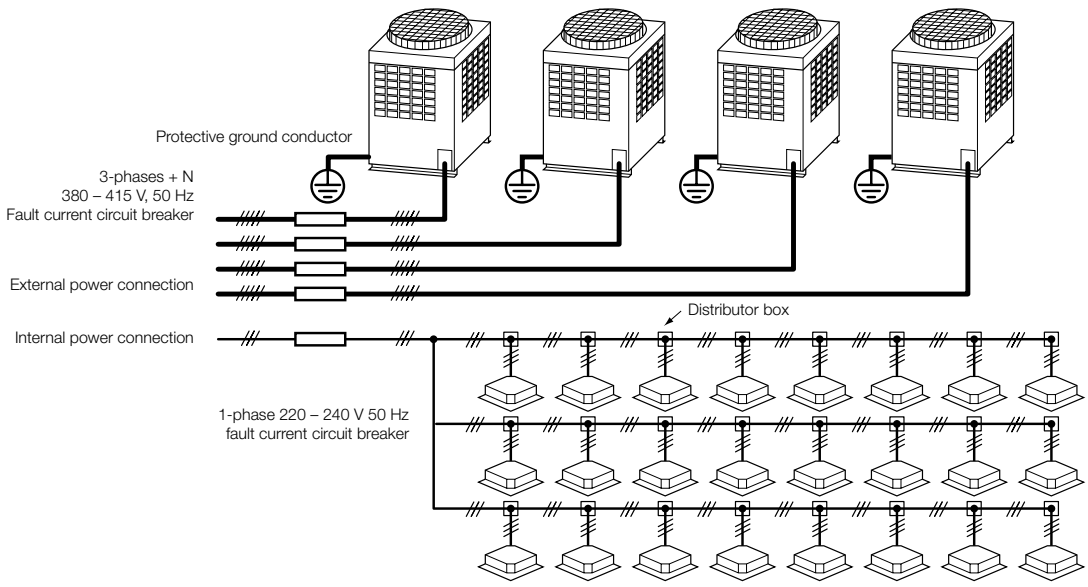
- Design the electrical installation based on the total current of the indoor units.
- The wire cross-section is determined by the length.

CONTROL CABLES

- Control cables:
  - Between outdoor and indoor units
  - Between indoor unit and remote control, central control unit, building management system
- Wire cross-sections depend on the length

POWER SUPPLY LINES

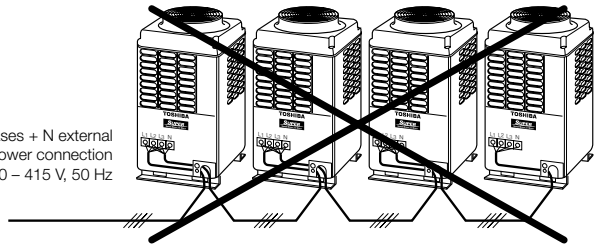
- Wiring must conform to local and national regulations.
- Design wiring for an indoor unit according to the number of indoor units connected downstream of it.



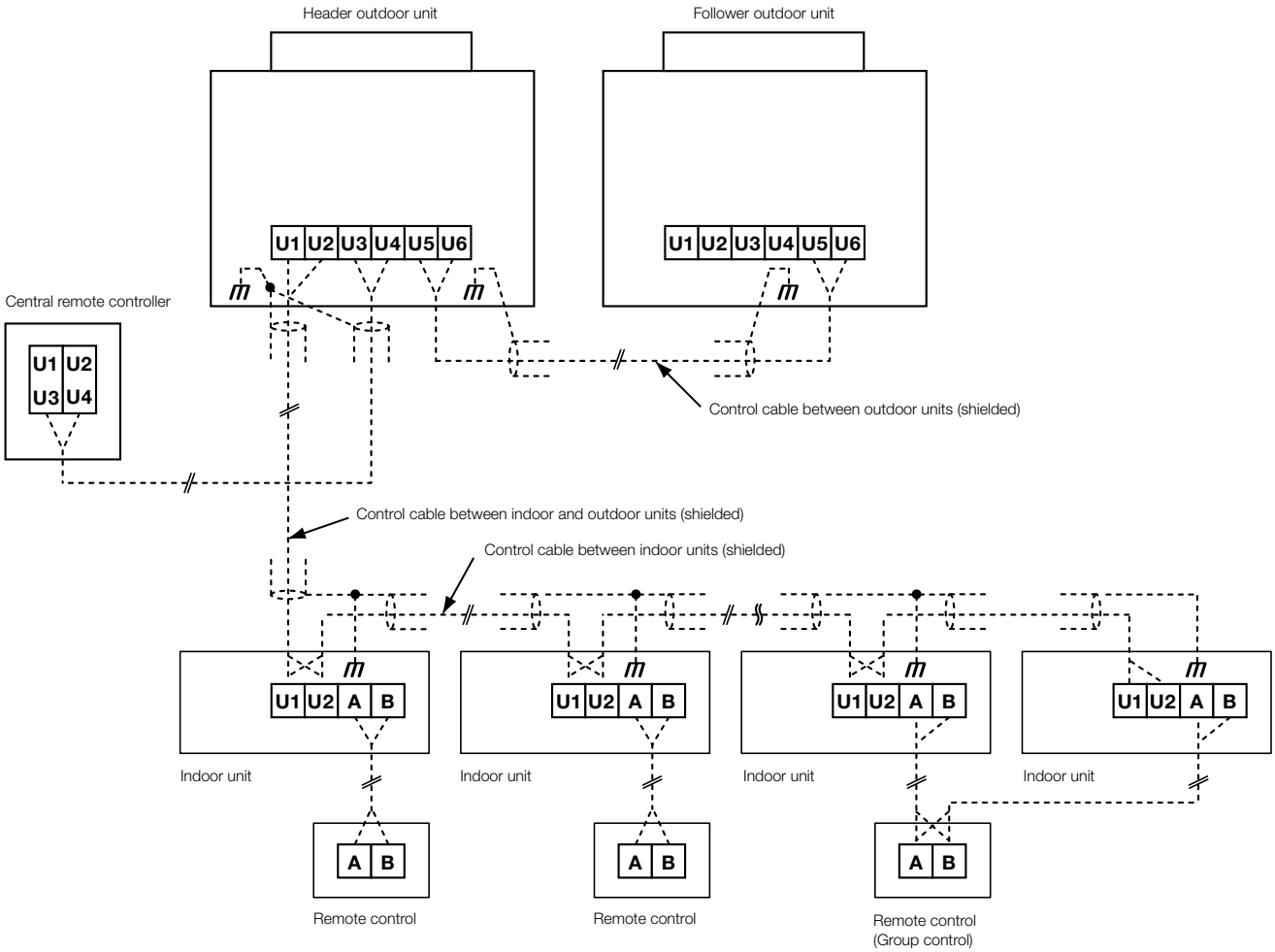
Designations of the bus connections correspond to SMMSe.
For SMMSu systems:
Outdoor unit -> indoor units: U1, U2 becomes Uv
Central remote controller U3, U4 becomes Uh
Outdoor unit -> outdoor unit: U5, U6 becomes Uc

POWER SUPPLY TO OUTDOOR UNIT

- Define the power connection and fusing of each outdoor unit according to the following specification:
  Cables in compliance with design 60245 IEC 6
- When connecting multiple outdoor units, run separate electrical cables from distributor box (L1, L2, L3, N) for each unit.

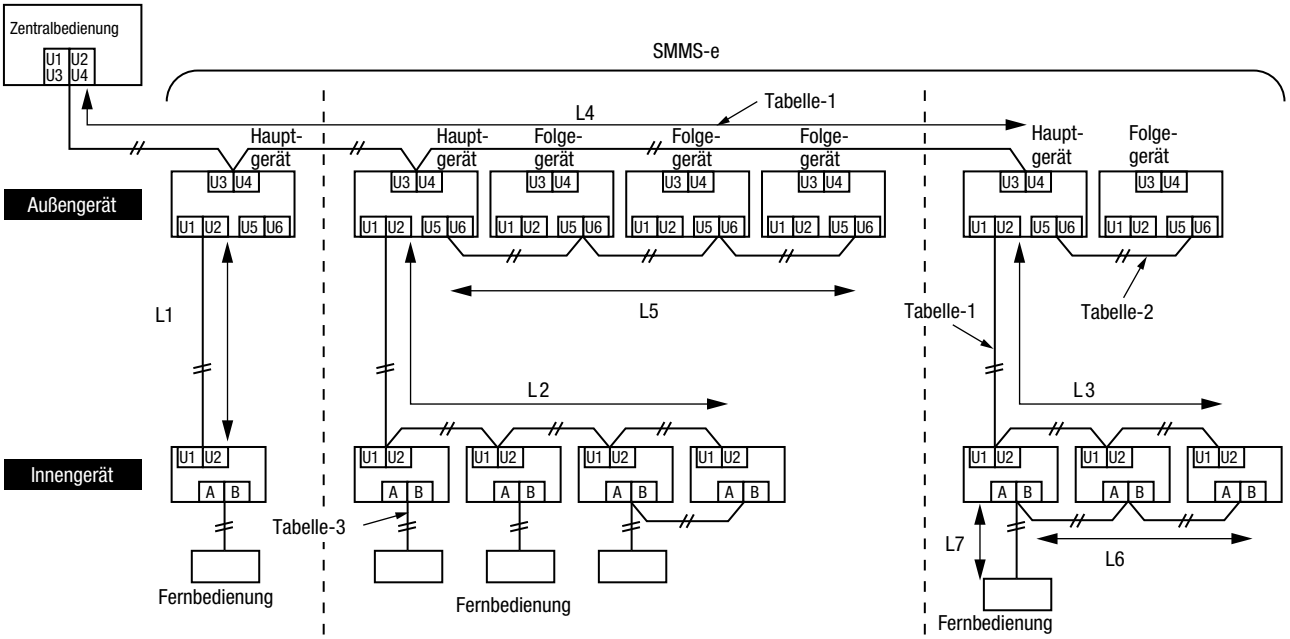


BUS LINE DESIGN



Designations of the bus connections correspond to SMMSe.
For SMMSu systems:
Outdoor unit -> indoor units: U1, U2 becomes Uv
Central remote controller U3, U4 becomes Uh
Outdoor unit -> outdoor unit: U5, U6 becomes Uc

RESTRICTION OF THE COMMUNICATIONS WIRING



Control cable between indoor and outdoor units (L1, L2, L3) Central control cable (L4)	
Wiring	2-pole line, no polarity
Type	Shielded, flexible
Size / length	1.25 mm²: up to 1000 m / 2.0 mm²: up to 2000 m (*1)

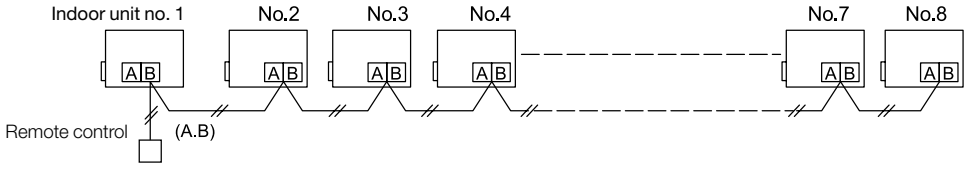
Control cable between outdoor units (L5)	
Wiring	2-pole line, no polarity
Type	Shielded, flexible
Size / length	1.25 mm² to 2.0 mm² / up to 100 m (L5)

Note (*1): Total length of all control cables for all refrigerant circuits
(L1 + L2 + L3 + L4)

Remote control cable (L6, L7)	
Cable	2-pole
Dimensions	0.5 mm² to 2.0 mm²
Size / length	› Up to 500 m (L6 + L7)
	› Up to 400 m for a wireless remote control for group control.
	› Up to 200 m total length for control cables between indoor units (L6).

GROUP CONTROL BY REMOTE CONTROL

› Group control of several indoor units (8 units) with a wired remote control



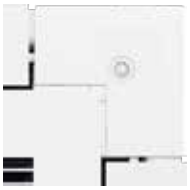
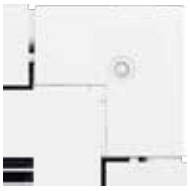
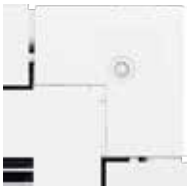
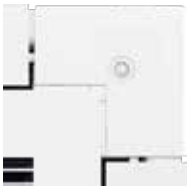
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Central remote controller U3, U4 becomes Uh
Outdoor unit -> outdoor unit: U5, U6 becomes Uc

Local wired remote controls

	TYPE / DESCRIPTION	PRICE €
	**RBC-AS41E** Simplified wired remote control • To control all main functions of an indoor unit, or a group of up to 8 indoor units • Compatible with all indoor units that have an A/B remote control bus • DN codes cannot be set	150,-
	**RBC-AMTU31-E** Standard Wired Remote Control • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Compatible with all RAV-/VRF-indoor units that have an A/B remote control bus • Compatible with RAS 1-way FLAT cassette und 60x60 SLIM cassette S4MUVG-E (no groups) • 168 hour On/Off timer • DN codes can be set	150,-
	**RBC-AMS41E** Wired remote control with integrated weekly timer • To control all the functions of an indoor unit, or a group of up to 8 indoor units • Compatible with all indoor units that have an A/B remote control bus • Weekly timer integrated, 8 events/day, 6 parameters/event can be programmed • DN codes can be set	160,-
	**RBC-ASCU32Y-E** Compact wired remote control with sensor buttons • Slimline version of standard wired remote control • Convenient operation via five sensor buttons • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Compatible with all RAV-/VRF-indoor units that have an A/B remote control bus • Compatible with RAS 1-way FLAT cassette und 60x60 SLIM cassette S4MUVG-E (no groups) • Off timer • Child lock • Ventilation control screen for HRV heat exchangers • DN codes can be set	100,-
	**RBC-AMSU52-E** Wired comfort remote control PLUS • Design & function update for the wired comfort remote control • For controlling all the functions of an indoor unit or a group of up to 16 indoor units • Compatible with all RAV-/VRF-indoor units that have an A/B remote control bus • Compatible with RAS 1-way FLAT cassette und 60x60 SLIM cassette S4MUVG-E (no groups) • DN codes can be set • Comfort control for server room functions • Ventilation control screen for HRV heat exchangers	205,-
	**RBC-AWSU52-E** Wired comfort remote control PLUS BT • Design & function update for the wired comfort remote control • With BLUETOOTH support for smartphones • For controlling all the functions of an indoor unit or a group of up to 16 indoor units • Compatible with all RAV-/VRF-indoor units that have an A/B remote control bus • Compatible with RAS 1-way FLAT cassette und 60x60 SLIM cassette S4MUVG-E (no groups) • DN codes can be set • Comfort control for server room functions • Ventilation control screen for HRV heat exchangers	225,-
	**RBC-MTSC1** Local touch lite remote control • To control all the functions of an indoor unit, or a group of up to 8 indoor units • Compatible with all indoor units that have an A/B remote control bus • Controlled via 4.5\\\" color touch display • Personalized graphics for screen & logo via upload (480x272) • DN codes can be set • Not a stock item - lead time on request	485,-
	**TCB-TC41U-E** Remote Temperature Sensor • Compatible with all indoor units that have an A/B remote control bus • When exact temperature measurement is not possible using the sensor in the indoor unit or in the wired remote control. • Takes priority over the unit and remote control sensor	135,-

Local infrared remote controls

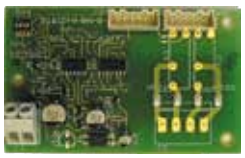
	TYPE / DESCRIPTION	PRICE €
	**RBC-AXU31-E** Infrared remote control with external receiver kit for all indoor units • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	**460,-**
	**RBC-AXU31C-E** Infrared remote control + receiver kit for installation in ceiling unit • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	**355,-**
	**RBC-AXU31UW-E** Infrared remote control + receiver kit for installation in 2-way cassette • To control all the functions of an indoor unit, or a group of up to 16 indoor units. • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	**375,-**
	**RBC-AX33UYP-E** Infrared remote control + receiver kit for installation in 1-way cassette • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	**80,-**
	**RBC-AXU31UMP-E** Infrared remote control + receiver kit WHITE for installation in 60x60 slim cassette • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	**170,-**
	RBC-AXU31UMPB-E Infrared remote control + receiver kit BLACK for installation in 60x60 slim cassette	**190,-**
	**RBC-AXU41U-E** Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette	**315,-**
	RBC-AXU33UP-E Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, pure white	**215,-**
	RBC-AXU33UPB-E Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette, BLACK	**235,-**

	TYPE / DESCRIPTION	PRICE €
	**RBC-AXU31U-E** Infrared remote control + receiver kit for installation in 4-way standard cassette • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Function range same as RBC-AMTU31-E, but wireless. • DN codes cannot be set	**325,-**
	**TCB-SIR41UMP-E** Occupancy sensor kit WHITE for installation in 60x60 slim cassette • Automatic motion detection in room • If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standdby mode • Requires RBC-AMSU52-E wired remote control • Required for every cassette in the group in the case of group control	**120,-**
	**TCB-SIR41U-E** Occupancy sensor kit for installation in smart cassette • Automatic motion detection in room • If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standdby mode • Requires RBC-AMSU52-E wired remote control • Required for every cassette in the group in the case of group control	**130,-**
	**TCB-SIR33UP-E** Occupancy sensor kit for installation in FLAT Panel	**125,-**
	**TCB-SIR41UYP-E** Occupancy sensor kit for installation in 1-way FLAT cassette • Automatic motion detection in room • If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standdby mode • Requires RBC-AMS55E-ES wired remote control • Required for every cassette in the group in the case of group control	**120,-**

Mobile / APP / KNX® control options

	TYPE / DESCRIPTION	PRICE €
	**TO-RC-KNX-1i** Module for controlling all the functions of an indoor unit via the KNX® Bus. • Compatible with all indoor units that have an A/B remote control bus • KNX® bus system required	**580,-**
	**BMS-IWF0010UCP-E** WiFi 1:1 interface for mobile control via smartphone or tablet • WiFi 1:1 interface for mobile control via smartphone or tablet • Compatible with all RAV-/VRF-indoor units that have an A/B remote control bus • Compatible with RAS 1-way FLAT cassette und 60x60 SLIM cassette S4MUVG-E (no groups) • Controls all main functions of an indoor unit or a group of up to 16 indoor units • Energy monitoring (for RAS 4-/1-way cassette, RAV DI-Classic, DI, DI-BIG, SDI 1-Ph/230V) • Read out of error codes possible • Internet/intranet access required • Free app for iOS (from 9.0) or Android (from 5.0)	**180,-**

Local control options

	TYPE / DESCRIPTION	PRICE €
	**TCB-IFCB5-PE** External on/off PCB, window contact module • Potential-free contact for on/off and window contact input. • Remote ON/OFF function	**80,-**
	TCB-PX100-PE Casing for outdoor installation of window contact module for high-wall units	**95,-**
	TCB-PX30MUE Casing for indoor installation for 4-way standard cassette	**135,-**
	TCB-PX40MUME Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette	**135,-**
	**TCB-PCUC2E** Control board for external control, alarms and messages • Connection to CN521 • 3 analog inputs • 3 potential-free digital inputs/outputs • Input and output functions configurable via rotary switch	**200,-**
	TCB-PX30MUE Casing for indoor installation for 4-way standard cassette	**135,-**
	TCB-PX40MUME Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette	**135,-**
	**TCB-IFCB-4E2** Operating, error signal, remote On/Off module • Operating and error signal output • Can be connected to the master unit of a group to handle the I/O control and error messages of up to 16 indoor units • For connecting to a CN61 • Potential-free contact	**475,-**
	**RBC-FDP3-PE** Analog Interface • Compatible with all indoor units that have an A/B remote control bus • Controls all main functions via 0-10V signals or fixed resistors • Operating and error signal output • Modbus connection possible	**700,-**
	**TO-RC-MBS-1** Modbus Interface • Compatible with all indoor units that have an A/B remote control bus • Control of all main functions • Facilitates the addressing of up to 63 interfaces in an RS485 network to control multi-zone systems • Read out of all error codes possible	**620,-**
	**TO-RC-BAC-1** BACnet® 1:1 interface • Compatible with all indoor units that have an A/B remote control bus • Control of all main functions • To control all the functions of an indoor unit, or a group of up to 16 indoor units • Not a stock item - lead time on request	**780,-**

Central control options

	TYPE / DESCRIPTION	PRICE €
	**TCB-SC640U-E** Central remote control • To control up to 64 indoor units. • Control of all device functions • Weekly timer • Uses central addresses	**1.465,-**
	**BMS-CT2560U-E** Smart Manager TOUCH with energy billing • Controlled via 7" color touch screen • Controls up to 256 (128) indoor units • Function range same as Smart Manager • Direct connection of up to 8 pulse counters without energy monitoring relay interface° • Uses central addresses • Commissioning with "Setting File Creation" software	**5.730,-**
	**BMS-IFWH5E** Energy monitoring relay interface // OPTIONAL accessories - touch screen controller • Required for use of the energy monitoring and billing functions • A maximum of 8 locally provided pulse counters can be connected to each interface • Power meter requirement: max. 10 pulses per kWh	**960,-**
	**BMS-IFDD03E** Digital In/Out relay interface // OPTIONAL accessories - touch screen controller • Expansion with 8 inputs and 4 outputs • Not a stock item - lead time on request	**1.035,-**
	**BMS-CT5121E** Touch screen controller with energy billing • Controls up to 512 indoor units • Controlled via 12.1" multi-touch screen, resolution 1024x768 • Additional control and energy-saving functions • Operation using locally provided Windows PC possible; max. 2 users at same time • Requires a TCS Net relay interface (BMS-IFLSV4E) for each TCC Link line • Energy monitoring and billing; requires energy monitoring relay interface (BMS-IFWH5E), • locally provided pulse counter, Windows PC with Excel • Not a stock item - lead time on request	**7.545,-**
	**BMS-IFLSV4E** TCS Net relay interface / REQUIRED accessories - touch screen controller • Interface between RS485 and TCC Link protocol • Connection of up to 64 indoor units/groups per interface • Up to 12 interfaces can be connected	**1.410,-**



BMS systems

	TYPE / DESCRIPTION	PRICE €
	**BMS-IFMB1280U-E** Modbus® Interface TU2C-Link • Controls up to 128 indoor units • To connect the TU2C-Link network to a locally provided Modbus® building management system • Requires locally provided Modbus master (max. 10 interfaces/master)	**2.745,-**
	**TO-AC-KNX-16** Module for controlling all the functions of up to 16 indoor units via the KNX® bus. • Connection via TCC link • KNX® bus system required • Not a stock item - lead time on request	**4.290,-**
	**TO-AC-KNX-64** Module for controlling all the functions of up to 64 indoor units via the KNX® bus. • Connection via TCC link • KNX® bus system required • Not a stock item - lead time on request	**8.290,-**
	**TCB-IFLN642TLE** LonWorks® Interface • Controls up to 64 indoor units • To connect the TCC Link network to a locally provided LonWorks® building control system • Requires a LonWorks® network card to enable control from a PC	**2.245,-**
	**BMS-IFBN1281U-E** Big BACnet® Interface TU2C-Link • Controls up to 128 indoor units • To connect the TU2C Link network to a locally provided BACnet® building control system • TCS Net relay interface not required	**2.630,-**
	**TCB-IFCB640TLE** Analog interface • Controls up to 64 indoor units • For connection to TCC link network • Controls all main functions via 0-10V signals or fixed resistors • Inputs: 8 analog, 2 digital • Outputs: 5 analog, 5 digital	**2.975,-**
	**Cool Master** Central controller for up to 32 indoor units • Controls up to 32 indoor units • For connection to TOSHIBA network • Interfaces via RS232, RS485, Ethernet • Small touch screen user interface • Control via smartphone, tablet, or PC possible • Not a stock item - lead time on request	**3.900,-**
	Cool Master Pro Central controller for up to 256 indoor units • Controls up to 256 indoor units • For connection to TOSHIBA network • Interfaces via RS232, RS485, Ethernet • Small touch screen user interface • Control via smartphone, tablet, or PC possible • Not a stock item - lead time on request	**7.000,-**

External control options

	TYPE / DESCRIPTION	PRICE €
	**TCB-ACREDU2-E** Redundancy Box • Redundancy switchover unit for two indoor units (or groups) in the event of a fault • Operating hours-dependent switchover for two indoor units • Temperature-dependent activation of second system • Connection to CN61 of indoor units • Plug & Play, temperature sensor included • LAN port, monitoring via web browser possible.	**2.050,-**
	**TCB-PCMO4E** Multifunction module (outdoor unit) 4 functions using 2 potential-free contact inputs; 1 function per module • Fan control during snowfall • External master On/Off • Night mode (noise reduction) • Operating mode priority heating/cooling	**130,-**
	**TCB-PCDM4E** Current limiting/load shedding module (outdoor unit) 2 functions using 2 potential-free contact inputs • External On/Off • Power reduction 100%, 85%, 75%, 60%, 0% (stop)	**170,-**
	**TCB-PCIN4E** Output module (outdoor unit) 4 functions using 3 potential-free contact outputs • Operating signal • Error notification • Operating time compressors 1 and 2 • Output power in 8 stages (0 – over 95%)	**190,-**
	**TCB-PSMT1E** Multi Tenant Kit • Not a stock item - lead time on request	**380,-**
	**TCB-KBCN32VEE** CN32 - DO: Control of an external fan	**6,-**
	**TCB-KBCN600PE** CN60 - DO: Operating signal cooling, heating, fan, defrost, thermo On	**11,-**
	**TCB-KBCN61HAE** CN61 - DI/DO: HA terminal: On/Off, enable/block, operating performance, alarm	**11,-**
	**TCB-KBCN700AE** CN70 - DI: external alarm input	**6,-**
	**TCB-KBCN73DEE** CN73 - DI: external thermo Off input	**6,-**
	**TCB-KBCN80EXE** CN80 - DI: external alarm input	**6,-**

External control options

	TYPE / DESCRIPTION	PRICE €
	**Leak Detection & Isolation system (R410A)** 2-stage leak detection system for a room: 1. Leak detection with visual acoustic alarms, compliant with EN378 / 2. As 1., but with additional isolation of the affected indoor unit	
	TCB-LD1 Control unit (R410A)	**400,-**
	**TCB-LDS1** Leak detection sensor, plastic (R410A) • Connection via CN80 and CN61 on the indoor unit pcb • Indoor units without CN80 require the option pcb TCB-PCUC2E	**980,-**
	**TCB-LDS2** Leak detection sensor, steel (R410A) • Connection via CN80 and CN61 on the indoor unit pcb • Indoor units without CN80 require the option pcb TCB-PCUC2E	**1.015,-**
	TCB-LDSBB1 Casing, plastic for drywall (R410A)	**13,-**
	TCB-LDSBB2 Casing, metal for wall (R410A)	**13,-**
	TCB-AW17861 Isolation valve 12.7 mm (R410A)	**695,-**
	TCB-AW17862 Isolation valve 15.9 mm (R410A)	**695,-**
	**Leak Detection & Pump Back System (R410A)** Leak detection system with refrigerant pump back function for all VRF systems of the e-series. Uses information from external room and internal system sensors. Compliant with EN378. 2 or 3 isolation valves to shut off the main lines.	
	TCB-LD2 Control unit	**4.090,-**
	**TCB-PCMO4E.** DI additional PCB	**130,-**
	TCB-PCIN4E. DO additional PCB	**190,-**
	TCB-LDS1 Leak detection sensor, plastic (R410A) • Connection via CN80 and CN61 on the indoor unit pcb • Indoor units without CN80 require the option pcb TCB-PCUC2E	**980,-**
	**TCB-LDS2** Leak detection sensor, steel (R410A) • Connection via CN80 and CN61 on the indoor unit pcb • Indoor units without CN80 require the option pcb TCB-PCUC2E	**1.015,-**
	TCB-LDSBB1 Casing, plastic for drywall (R410A)	**13,-**
	TCB-LDSBB2 Casing, metal for wall (R410A)	**13,-**
	TCB-AW17861 Isolation valve 12.7 mm (R410A)	**695,-**
	TCB-AW17862 Isolation valve 15.9 mm (R410A)	**695,-**
	TCB-AW17863 Isolation valve 19.0 mm (R410A)	**770,-**
	TCB-AW17864 Isolation valve 22.2 mm (R410A)	**820,-**
	TCB-AW17865 Isolation valve 28.6 mm (R410A)	**1.140,-**
	TCB-AW17866 Isolation valve 34.9 mm (R410A)	**1.220,-**
	TCB-AW17867 Isolation valve 41.3 mm (R410A)	**1.350,-**

* Leak detection accessories: not a stock item. Lead time on request.

TOSHIBA service program

- Computer software for service engineers
- Displays and records unit data: unit ON / OFF, cooling or heating mode, PMV degree of opening, temperature values, pressure values, compressor ON / OFF, error codes
- Consisting of: adapter box, with cable to the unit, cable to the computer, and CD-ROM

TYPE	ADDITIONAL INFORMATION	PRICE IN €
TCB-DK01SS-E	Dyna Doctor hardware for RAS, ESTIA, RAV and VRF	**1.950,-**
TCB-SS1UU-E	Service link adapter SMMSu	**2.765,-**

Software for the Dyna Doc can be downloaded free of charge:
www.toshiba-aircondition.com

- Partner Login
  - Downloads
    - Software
      - Dyna Doctor

Legend to the units' features



R32 refrigerant



R410A refrigerant



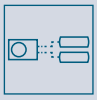
R32 or R410A refrigerant (bi-ref)



WiFi ready,
module not included!



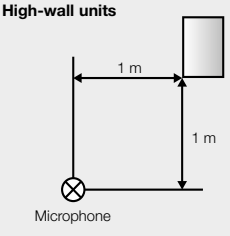
Single-split configuration



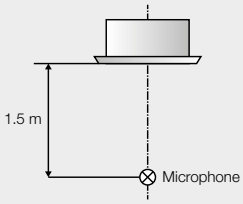
Multi-split configuration

Test set-up for determining the sound pressure level

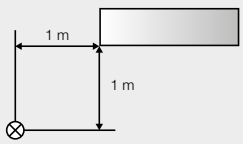
High-wall units



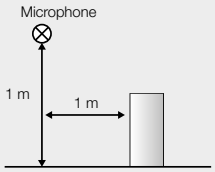
4-way cassettes



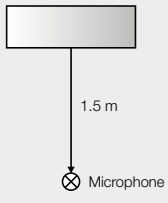
Ceiling units



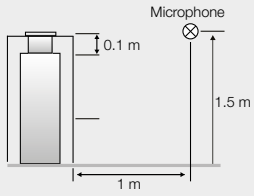
Consoles



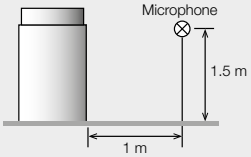
Duct units



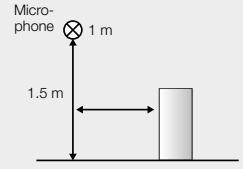
Chassis



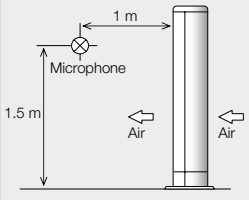
Outdoor units SMMSu, SHRMe, SHRMa



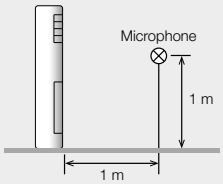
RAS, RAV, ESTIA outdoor unit



MiNi SMMSe outdoor unit



Floor standing units



Measuring conditions for TOSHIBA air conditioners & heat pumps

Cooling

Outdoor temperature: +35°C dry bulb temperature
Indoor temperature: +27°C dry bulb temperature / +19°C wet bulb temperature
Humidity: 50 – 55% r.H. (relative humidity)

Heating

Outdoor temperature: +7°C dry bulb temperature / +6°C wet bulb temperature
Indoor temperature: +20°C dry bulb temperature

Refrigerant piping

Performance data for RAV and ESTIA for 7,5 m cable length and 0 m height difference between indoor and outdoor unit. For VRF standard indoor units for 5,0 m main pipe, 2,5 m branch pipe, 0 m height difference

Technical data, performance data and operating limits

The minimum, nominal, and maximum values may be specified with intermediate stages if available. If only one value is specified without special identification, the value applies to nominal conditions.

Sound pressure level

For split systems measured according to „Messanordnung zur Ermittlung des Schalldruckpegels“ on page 217.

Energy efficiency and energy efficiency values

All energy efficiency values & data are documented in detail at www.toshiba-aircondition.com. Here you will also find a link to the Ecodesign website http://ecodesign.toshiba-airconditioning.eu. This contains all the legally required information & data concerning Lot10, Lot21, Lot1, Lot2, Lot11 and Lot6 products.
In systems with different combination options, the energy efficiency values will depend on the combination. Efficiency values for RAS multi outdoor units are measured for a specified combination that is specified in the associated service manual.

Fusing and power supply line

Catalog values are recommended values. The dimensioning is the responsibility of the electrical installation company carrying out the work and must be done in accordance with the regional regulations.

Seasonal performance factor

The SPF values specified for ESTIA products correspond to the preliminary calculation described in VDI 4650, at a standard outdoor temperature of -12°C, heating limit temperature of +15°C, supply water temperature of +30°C, ΔT = 10 K

VRF outdoor units

Operating range, outdoor temperature when set up in a position protected against the wind and with minimum system load of 50% height difference (max.): indoor units higher / lower

Hot water modules

Heating capacities under nominal conditions;
MT Mid Temperature: Temperature at water inlet +30°C, water outlet +35°C.
HT High Temperature: Temperature at water inlet +60°C, water outlet +65°C.

Performance data for ESTIA products

Split

Heating capacity and power consumption at nominal compressor operating speed; power consumption without water pump. Measured in accordance with EN 14511.
0 m height difference between outdoor unit and hydrobox / All-in-one.

Glossary

Heat pump	A **heat pump** is a system that generates useful heat from the ambient temperature (roughly 75%) and operating energy (roughly 25%).
Inverter technology	**Inverter technology** means the load-adaptive speed control of compressor(s) and optionally the fan motor(s) of an outdoor unit.
Energy efficiency	The **energy efficiency** is the direct comparison between the electrical energy used and the heating capacity/cooling capacity obtained.
Seasonal energy efficiency	See the definition of "Energy efficiency" viewed over one year.
Full load	**Full load** is an operating status at which a machine can yield the greatest possible power output.
Part load	**Part load** is the operating status that is achieved by speed adaption on the basis of the capacity demand required for the room.
Compressor	A **compressor** is a component that is needed to compress the refrigerant.
PWM, PAM	The voltage converted by the "inverter" can drive the compressor in two ways. Either **pulse width modulation** (high efficiency / PWM) is used for very efficient operation in the part load range, or **pulse height modulation** (high power / PAM) is applied to ensure that the set temperature is quickly reached.
Sound power level	The **sound power level** is an acoustic variable that arises at the actual sound source. It is expressed in dB(A).
Sound pressure	The **sound pressure** is the result of the sound power level in relation to the distance from the sound source. It is measured in dB(A).
Nominal capacity	The unit capacity at a specified operating point.
Maximum capacity	The maximum unit capacity at a specified operating point.
Fusing	This interrupts an electrical current circuit when the electrical current exceeds a defined current intensity over a specified time, or a short-circuit or a ground fault occurs at the electrical consumer.
Refrigerant	The refrigerant is a technical gas that acts as a medium for transporting cold and thermal energy within the system. Common refrigerants are currently R410A and R32. R32 has a lower global warming potential (GWP*), greater energy efficiency, and requires smaller charges.
GWP	Stands for Global Warming Potential and designates the climate warming potential of the refrigerant in relation to carbon dioxide (CO_2). The GWP of carbon dioxide was defined as 1 as the basis for the calculation. For the R410A refrigerant, the GWP is 2,088, while for R32 it is just 675.
CO_2 equivalent	It has been mandatory to show the CO_2 equivalent on all outdoor units since 1 January 2017. This is the mathematical product of the GWP and the total refrigerant charge of a system. The CO_2 equivalent is expressed in tons.





CHILLER & HEATPUMP UNIVERSAL SMART X

The new R32 dimension in cooling & heating

THE 8 SMART FEATURES

Even at first glance, the new UNIVERSAL SMART X from TOSHIBA really looks the part. With its compact, modular form and eye-catching X design, it fits into any installation location. To save space, up to 128 modules may be arranged in series to provide a total cooling capacity of up to 25,600 kW. The modular structure and perfect part load characteristics mean that the system can achieve this enormous capacity in a theoretically infinite number of increments from 5% of an individual unit up to the maximum capacity.

The 8 smart features show how the intelligent system design leads to considerable savings in terms of space required and energy resources, while offering perfect reliability.







Twin-rotary compressor: Infinitely variable from 5 – 100%

Energy efficient control in the part load range up to 5% thanks to the proven TOSHIBA twin rotary compressor

150 kW – 25.6 MW capacity range with modular scalability

Heating and cooling output of up to 25,600 kW by combining modules.

Operational reliability due to modular structure

The 4-in-1-module concept translates to maximum reliability and redundancy

Space-saving X design

The distinct X design optimizes air flow and takes up less installation space than conventional systems

High efficiency factor

Lower investment and operating costs due to reduction of the electrical power supply.

Broad operating range

The USX reliably delivers heating and cooling all year round – even under extreme usage conditions

Prompt availability all year-round from stock in Vienna

Standardized unit configuration ensures year-round availability from the warehouse in Vienna

WiFi connection

Simple system monitoring via mobile app

Our stock models

200 KW COOLING ONLY – BRINE, 3.7 KW PUMP

Type RUAGP561C3R8E stock model

ITEM NUMBER	DESIGNATION			ADD-ONS		
RUAGP561C3R8E	TOSHIBA USX chiller	200 kW / 70 HP	Brine model	Cooling only	Basic EER	Integrated pump 3.7 kW
Controller (optional, one required)						
RBP-MC003SSRE	Module controller			without Modbus		
RBP-MC003SSRDE	Module controller			with Modbus		

Most suitable for

- Industry
- Process cooling
- Air handling units
- Hospitals

200 KW COOLING ONLY – WATER / BRINE, 2.2 KW PUMP

Type RUAGP561C28E stock model

ITEM NUMBER	DESIGNATION			ADD-ONS		
RUAGP561C28E.	TOSHIBA USX chiller	200 kW / 70 HP	Water / brine model	Cooling only	Basic EER	Integrated pump 2.2 kW
Controller (optional, one required)						
RBP-MC003SSE	Module controller			without Modbus		
RBP-MC003SSDE	Module controller			with Modbus		

Most suitable for

- Air handling units
- Office buildings
- Hotels
- Hospitals
- Technical servers
- Technical cooling
- Shopping centers & malls

200 KW HEAT PUMP, BASIC HEATING – WATER / BRINE, 2.2 KW PUMP

Type RUAGP561H28E stock model

ITEM NUMBER	DESIGNATION			ADD-ONS			
RUAGP561H28E.	TOSHIBA USX chiller	200 kW / 70 HP	Water / brine model	Heating & cooling	Basic EER	Basic heating	Integrated pump 2.2 kW
Controller (optional, one required)							
RBP-MC003SSE	Module controller			without Modbus			
RBP-MC003SSDE	Module controller			with Modbus			

Most suitable for

- Air handling units
- Offices
- Hotels
- Hospitals
- Shopping centers & malls

180 KW HEAT PUMP, HiHEATING – WATER / BRINE, 2.2 KW PUMP

Type RUAGP511F28E stock model

ITEM NUMBER	DESIGNATION			ADD-ONS			
RUAGP511F28E.	TOSHIBA USX chiller	180 kW / 60 HP	Water / brine model	Heating & cooling	Basic EER	HiHeating	Integrated pump 2.2 kW
Controller (optional, one required)							
RBP-MC003SSFE	Module controller			without Modbus			
RBP-MC003SSFDE	Module controller			with Modbus			

Most suitable for

- Air handling units
- Offices
- Hotels
- Hospitals
- Shopping centers & malls



ACCESSORIES REQUIRED

ITEM NUMBER	DESIGNATION	ADD-ONS
RBP-MC003SSE	TOSHIBA USX chiller, module controller (MC)	For basic heating, water, water / brine model
RBP-MC003SSDE	TOSHIBA USX chiller, module controller (MC)	For basic heating, water, water / brine model, including Modbus interface
RBP-MC003SSRE	TOSHIBA USX chiller, module controller (MC)	For basic heating, brine model
RBP-MC003SSRDE	TOSHIBA USX chiller, module controller (MC)	For basic heating, brine model, including Modbus interface
RBP-MC003SSFE	TOSHIBA USX chiller, module controller (MC)	For HiHeating, water, water / brine model
RBP-MC003SSFDE	TOSHIBA USX chiller, module controller (MC)	For HiHeating, water, water / brine model, including Modbus interface

OPTIONS

ITEM NUMBER	DESIGNATION	ADD-ONS
RBP-GC004TP-E	Group controller (GC)	For combinations of up to 8 groups of 16 combined modules
RBP-RC001-E	Group controller COMPACT (GCC)	Compact central controller for module/group combinations
RBP-BT923TYS-E	Connection fitting kit	For connecting 2 modules to the upper frame
RBP-RTHS-E	External sensor	Additional LWT temperature sensor
RBP-SDCD-E	SD card for Flash Monitor	WiFi card for using the Flash Monitor app on an Android tablet
RBP-FL030E-E	Flange kit for hood and net installation	For installing weatherproofing equipment
RBP-BG901S-E	Fin guard kit	Fin guard for the 4 air heat exchangers in a module
RBP-CPB	Basic corrosion protection	
RBP-CPH	Heavy corrosion protection	
RBP-ACOMM	Support for commissioning the system	
RBP-HMS	Heat machine specification	Heating only model
RBP-SSWSCV	Stainless steel water strainer & check valve	Water strainer and check valve made from stainless steel
RBP-SSWP	Special pump specification	Water pump made from stainless steel



Please contact your TOSHIBA specialist partner for further information.





LIST OF IMAGES

We would like to take this opportunity to express our gratitude for the support and reference images provided. They give potential customers a realistic impression of our products and help us to strengthen the TOSHIBA brand.

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TOSHIBA



HOME

Your home – Your climate.

2 – 10 kW

TOSHIBA's innovative air conditioning systems were specially developed to ensure your wellbeing in your home, and its progressive technology offers comfort 365 days a year. Quiet operation, air filtering, and purification are just some of the benefits for greater comfort in your home. An air conditioning system is also the perfect heating solution, especially at season changes.

ESTIA

The Air-to-Water heat pump
The warmth of the future.

4 – 14 kW

High quality and efficiency in a space-saving format. The ESTIA air-to-water heat pump is extremely effective and is ideal for heating, hot water preparation, and cooling in your home.

Heating with heat from the air – environmentally friendly, cost-effective, and efficient.



Expertise in every sector –
air conditioning systems and heat pumps for cooling and heating

LIGHT BUSINESS

2.5 – 22.5 kW

The performance you need. The comfort you expect.

With its versatility, the RAV single-room solutions are perfect for 24-hour continuous operation to maintain a precisely defined room climate – from small server rooms to large stores. Up to four indoor units can be combined for optimum air distribution and set to heat or cool the room as desired, so they can be operated all year round.





BUSINESS

Plan for excellence. Cool excellently.

12.1 – 335 kW

Multi-room solutions comprise air conditioning systems for complex installations in large structures such as office buildings, shopping malls, or hotels. Huge system flexibility with piping lengths of 1200 m and up to 128 indoor units leave no wishes unmet. The system also allows independent cooling and heating at the same time in different rooms or areas of buildings.

CHILLERS

Cooling & heating in the big leagues.

150 kW – 25.6 MW

TOSHIBA's USX chillers represent a new dimension in cooling and heating generation.

If the capacity required exceeds the technical and financial limits of direct evaporation systems, then water-based systems are used.



TOSHIBA

We advise you personally

YOUR CERTIFIED TOSHIBA AIR CONDITIONING PARTNER

TOSHIBA air conditioning partner:

Get quality and expertise with TOSHIBA air conditioning systems and heat pumps.

In addition to premium products, you'll benefit from a full range of consulting, planning, installation, and maintenance services from highly qualified air conditioning system specialists. Count on an optimum climate from the experts!

Flexibility for every application

TOSHIBA offers solutions for every requirement, from your home and business to industrial applications. Contact your TOSHIBA air conditioning partner or visit our website to find out more.





For more information: Visit our website!

You will find further information about TOSHIBA air conditioning systems and heat pumps as well as our sales partners on our website: **www.toshiba-aircondition.com**

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