

# Operating instructions for the system user


# TOSHIBA

Heat pump control unit with 7 inch colour touchscreen


## BI-BLOC R290




### For your safety

 Please follow these safety instructions closely to prevent accidents and material losses.

### Safety instructions explained

 **Danger**  
This symbol warns against the risk of injury.


 **Please note**  
This symbol warns against the risk of material losses and environmental pollution.

**Note**  
*Details identified by the word "Note" contain additional information.*

The outdoor unit contains easily flammable refrigerant from safety group A3 according to ISO 817 and ANSI/ASHRAE Standard 34.

### Target group

These operating instructions are intended for system users.  
This appliance can also be operated by children aged 8 and older, as well as by individuals with reduced physical, sensory or mental faculties or those lacking in experience and knowledge, provided such individuals are supervised or have been instructed in the safe use of this appliance as well as in any risks arising from it.


 **Please note**  
Supervise children in the proximity of the appliance.

- Never permit children to play with the appliance.
- Unsupervised children are not permitted to carry out cleaning or user maintenance.

### Safety instructions for working on the system

The outdoor unit contains the flammable refrigerant R290 (propane). If there is a leak, the escaping refrigerant may form a flammable or explosive atmosphere in the ambient air. A safety zone is defined in the immediate vicinity of the outdoor unit, in which special rules apply.  
Illustration of the safety zone: See chapter "Safety zone".

#### Standing and working in the safety zone

 **Danger**  
Risk of explosion: Escaping refrigerant may form a flammable or explosive atmosphere in the ambient air.  
Prevent fire and explosion in the safety zone by taking the following measures:

**For your safety** (cont.)

- Keep ignition sources away, e.g. naked flames, hot surfaces, electrical devices not free of ignition sources, mobile devices with integrated batteries (e.g. mobile phones, fitness watches, etc.).
- Do not use flammable materials, e.g. sprays or other flammable gases.
- Do not remove, block or bypass any safety equipment.
- Do not make any changes to the outdoor unit:
  - Do not modify, strain or damage the inlet/outlet pipes and electrical connections/cables.
  - Do not change the surroundings.
  - Do not remove any components or seals.
- Do not remove any casings.
- Do not modify or remove any attached parts or installed accessories.
- Do not open or tighten any pipe connections.
- Work on the refrigerant circuit of the outdoor unit may only be carried out by authorised contractors. These contractors must be trained in accordance with EN 378 Part 4 or IEC 60335-2-40, Section HH. The certificate of competence from an industry-accredited body is required.

**Danger**

Hot surfaces can cause burns.

- Do not open the appliance.
- Do not touch the hot surfaces of uninsulated pipes and fittings.

**Connection of the system**

- The appliances may be connected and commissioned only by authorised contractors.
- Observe the specified electrical connection requirements.
- Modifications to the existing installation may only be carried out by authorised specialists.

**Danger**

Incorrectly executed work on the system can lead to life threatening accidents.

Work on electrical equipment may only be carried out by a qualified electrician.

**Auxiliary components, spare and wearing parts****Please note**


Components that were not tested with the system may cause system damage, or may affect its functions. Have all installation or replacement work carried out exclusively by qualified contractors.


**Working on the system**

- Perform all adjustments and work on the system only as specified in these operating instructions. Other work on the system may only be carried out by authorised contractors, e.g. maintenance, service and repairs.
- Do not open the appliances.

## Safety instructions for operating the system


Protect the system against third party influence, damage and environmental influences.

 **Danger**  
The sharp edges of the heat exchanger (evaporator) fins can cause cut injuries.  
Do not touch the fins on the back of the outdoor unit.


 **Danger**  
The hot or cold fins of the heat exchanger (evaporator) can cause burns or frostbite.  
Do not touch the fins on the back of the outdoor unit.

### What to do if refrigerant escapes from the outdoor unit


A low pressure fault may indicate escaping refrigerant.

 **Danger**  
Escaping refrigerant can lead to fire and explosions that result in very serious injuries or death. There is a risk of asphyxiation if it is breathed in.  
If there is a suspicion of escaping refrigerant, note the following:


- Ensure very good ventilation especially in the floor area of the outdoor unit.
- Do not smoke! Prevent naked flames and sparks. Do not switch lights or electrical appliances on or off.
- Evacuate anyone who is in the danger zone.
- Initiate first-aid measures.
- Notify an authorised contractor.
- From a safe position, switch off the power supply to all system components.

 **Danger**  
Direct contact with liquid and gaseous refrigerant can cause serious damage to health, e.g. frostbite and/or burns. There is a risk of asphyxiation if it is breathed in.

- Prevent direct contact with liquid and gaseous refrigerant.
- Initiate first-aid measures.

 **Danger**  
Breathing in refrigerant may cause suffocation.  
Do not inhale refrigerant.

### If there is a fire

 **Danger**  
Fire presents a risk of burns and explosion.

- From a safe position, switch off the power supply to all system components.
- Inform the fire brigade.
- Initiate first-aid measures.
- Only attempt to extinguish the fire if there is no risk of injury. Use a tested fire extinguisher rated for class ABC fires.

**For your safety** (cont.)**What to do if the outdoor unit ices up****Please note**

- A build-up of ice in the condensate pan and in the fan area of the outdoor unit can cause damage to the equipment.
  - If ice forms, notify a contractor.
  - Do not use mechanical items/aids for the removal of ice.
  - If ice regularly builds up on the outdoor unit (e.g. in areas where frost and heavy fog occur frequently), have a contractor install a fan ring heater (accessories) that is suitable for refrigerant R290 and/or an electric ribbon heater in the condensate pan (accessories or factory-fitted).

**Conditions for positioning the indoor unit****Danger**





Easily flammable liquids and materials (e.g. naphtha/petrol, solvents, cleaning agents, paints or paper) can cause deflagration and fire. Do not store or use such materials in the installation room or in the immediate vicinity of the indoor unit.

**Please note**

Incorrect ambient conditions can result in system damage and can put safe operation at risk. Maintain the permissible ambient temperatures as detailed in these operating instructions.

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### Safety zone

Your outdoor unit contains easily flammable refrigerant from safety group A3 according to ISO 817 and ANSI/ASHRAE Standard 34.

Therefore a safety zone is defined in the immediate vicinity of the outdoor unit, in which special requirements apply.

#### Note

*The requirements for the safety zone must be complied with completely.*

#### The following conditions must not be present or occur within the safety zone:

- Openings:
  - Building openings, e.g. windows, doors, light wells, flat roof windows
  - Outdoor air and exhaust air apertures from ventilation and air conditioning systems
  - Pump shafts, inlets to waste water systems, downpipes and waste water shafts, etc.
  - Other slopes, troughs, depressions, shafts
- Property boundaries, neighbouring properties, footpaths and driveways
- Electrical house supply connections
- Electrical systems, sockets, lamps, light switches
- Snowfall from roofs

#### Requirements if other heat pumps are installed in the vicinity:

- Only outdoor units of the same type and with the same refrigerant from safety group A3, as set out in ISO 817 and ANSI/ASHRAE Standard 34, may be installed within the safety zone. The total safety zone results from the overlap of all safety zones.
- The following heat pumps must be sited outside the safety zone:
  - Heat pumps of a different type
  - Heat pumps with different refrigerant
  - Heat pumps from another manufacturer

#### It is essential to prevent the presence of any ignition sources in the safety zone, for example:

- Naked flames or burner gauze assemblies
- Tools that generate sparks
- Electrical devices not free of ignition sources, mobile devices with integrated batteries
- Objects with temperatures above 360 °C

#### Note

*The particular safety zone is dependent on the surroundings of the outdoor unit.*

- The safety zones shown in the following are for the floorstanding installation of an outdoor unit with 2 fans.
  - These safety zones also apply to outdoor units with 1 fan.
  - These safety zones also apply to wall and roof installation.
- In the case of wall installation, the requirements listed above also apply to the area **below** the outdoor unit, down to the ground.
- If openings in the safety zone cannot be avoided, the following measures are required:
  - It must only be possible to open the openings with a tool. Leave the closed openings closed.
  - Or
  - A permanent, gas-tight barrier, e.g. a wall or partition, must be in place between the outdoor unit and any openings. Leave this barrier in place.See the note on the floor area of the safety zone.

#### Floor area of safety zone

*If necessary, it is possible to deviate from the dimensions of 1000 mm to the side and 1800 mm to the front. For this, observe the following:*

- There **must** be a safety zone to the front and side.
- The floor area of the safety zone **must** be observed.

#### Freestanding positioning of the outdoor unit

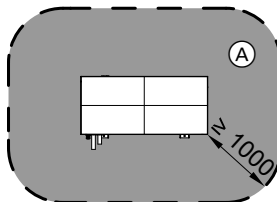


Fig. 1

Ⓐ Safety zone

**Safety zone (cont.)**

**Siting the outdoor unit in front of an external wall**

**Floorstanding outdoor unit**

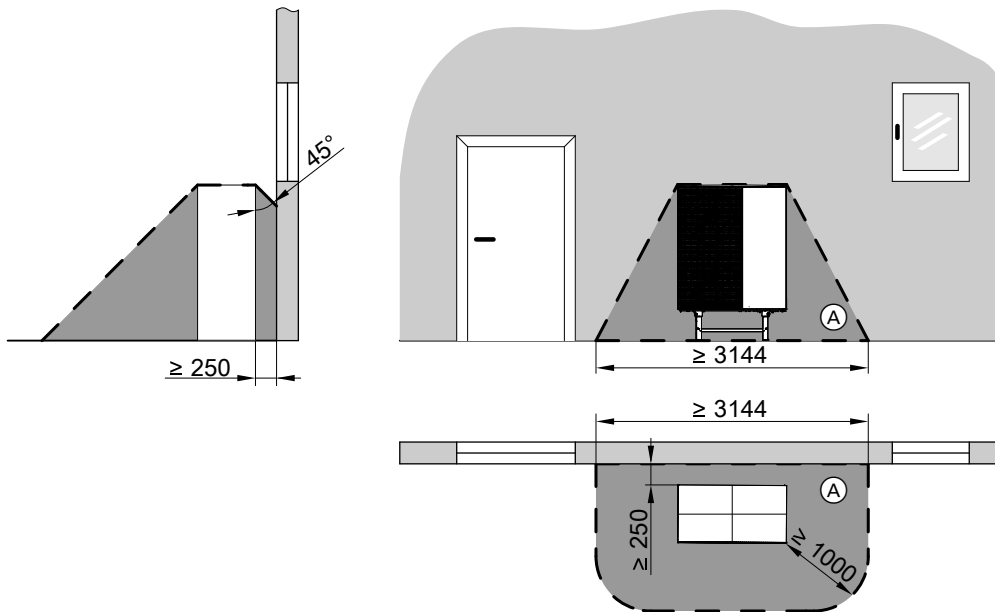


Fig. 2

Ⓐ Safety zone

**Wall mounted outdoor unit**

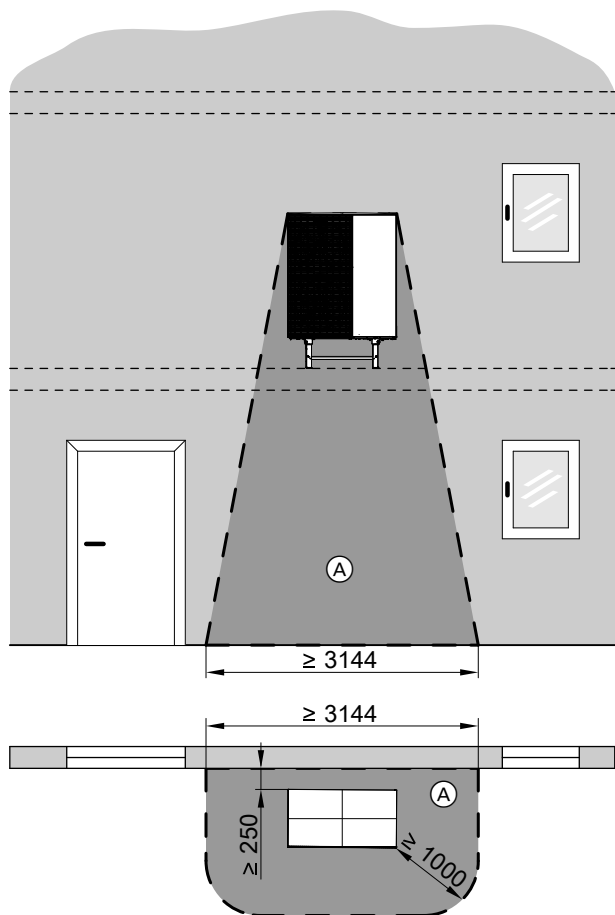


Fig. 3

Ⓐ Safety zone

**Corner arrangement of the outdoor unit, right**

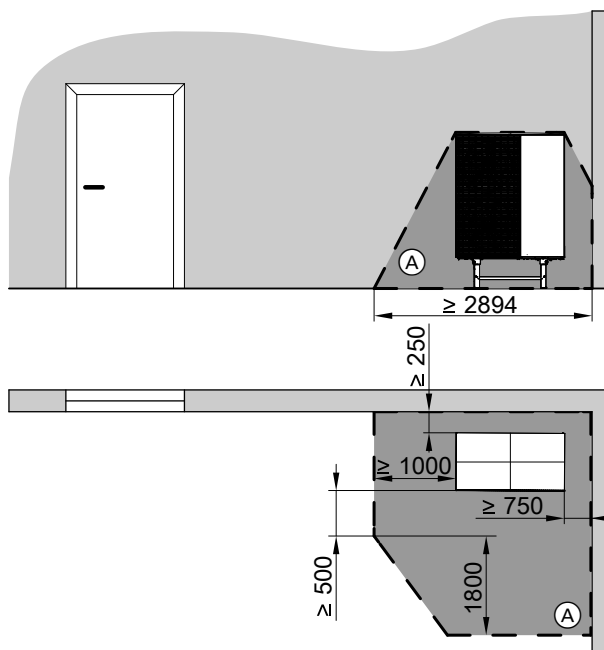


Fig. 4

Ⓐ Safety zone

**Corner arrangement of the outdoor unit, left**

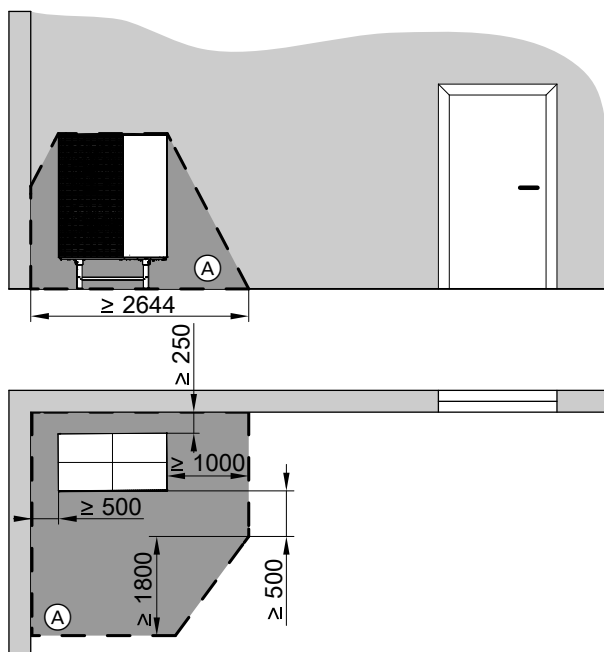


Fig. 5

Ⓐ Safety zone

## Liability

No liability is accepted for loss of profit, unattained savings, or other direct or indirect consequential losses resulting from use of the WiFi interface integrated into the system or the corresponding internet services. No liability is accepted for losses resulting from inappropriate use.

Liability is limited to typical damage arising if a fundamental contractual obligation is violated through slight negligence, the fulfilment of which is essential for proper execution of the contract.











The limitation of liability shall not apply if the damage was caused deliberately or through gross negligence, or if mandatory liability applies due to product liability legislation.

The General Terms and Conditions of the manufacturer apply.






The relevant data protection regulations and terms of use apply to the use of apps from the manufacturer. The manufacturer accepts no liability for push notifications and email services, which are provided by network operators. The terms and conditions of the respective network operators therefore apply.

## Symbols

### Symbols in these instructions

Symbol	Meaning
	Reference to other document containing further information
	Step in a diagram: The numbers correspond to the order in which the steps are carried out.
	Warning of personal injury
	Warning of material losses and environmental pollution
	Live electrical area
	Pay particular attention.
	<ul style="list-style-type: none"> <li>▪ Component must audibly click into place.</li> <li>or</li> <li>▪ Acoustic signal</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Fit new component.</li> <li>or</li> <li>▪ In conjunction with a tool: Clean the surface.</li> </ul>
	Dispose of component correctly.
	Dispose of component at a suitable collection point. Do <b>not</b> dispose of component in domestic waste.

### Symbols on the heat pump

Symbol	Meaning
	Warning of flammable materials (ISO 7010 - W021)
	Observe the operating manual (ISO 7000 - 0790)
	Observe the instructions for use/operating instructions (ISO 7000 - 1641)
	Service indicator: Refer to the operating manual (ISO 7000 - 1659)
	Warning of hot surface (ISO 7010 - W017)

## Terminology

To provide you with a better understanding of the functions of your control unit, some terminology is explained. This information can be found in chapter "Terminology" in the Appendix.

## Intended use

The appliance is only intended to be installed and operated in sealed unvented heating systems that comply with EN 12828, with due attention paid to the associated installation, service and operating instructions.

Depending on the version, the appliance can only be used for the following purposes:

- Central heating
- Central cooling
- DHW heating

The range of functions can be extended with additional components and accessories.

Intended use presupposes that a fixed installation in conjunction with permissible, system-specific components has been carried out.

Commercial or industrial usage for a purpose other than central heating/cooling or DHW heating shall be deemed inappropriate.

Incorrect usage or operation of the appliance (e.g. the appliance being opened by the system user) is prohibited and will result in an exclusion of liability. Incorrect usage also occurs if the components in the heating system are modified from their intended function.

### Note

*The appliance is intended exclusively for domestic or semi-domestic use, i.e. even users who have not had any instruction are able to operate the appliance safely.*

## Product information

### Design and function

#### Design

Your air source heat pump consists of an indoor unit and an outdoor unit.

The indoor unit, including the heat pump control unit, is inside the building and transfers the heat to the heating system.

The outdoor unit is installed outside the building or fitted to the outside of the building. Heat is obtained from the ambient air in the outdoor unit.

The indoor and outdoor units are connected to each other hydraulically and electrically.

#### Heat generation

The fan in the outdoor unit draws ambient air in through a heat exchanger (evaporator). In the evaporator, the thermal energy from this ambient air is transferred to the refrigerant circuit.

In the refrigerant circuit, the temperatures required for room heating and DHW heating are generated.

The heat generated is transported to your heating system via the indoor unit.

#### Room cooling

To provide room cooling, the refrigerant circuit of the heat pump operates in reverse mode. Heat is extracted from your rooms and transferred to the ambient air via the evaporator.

#### Energy supply

The refrigerant circuit is driven electrically via a compressor. Compared with the thermal energy extracted from the air, this compressor requires only a small amount of electrical power. This power is often provided at a favourable tariff by your power supply utility. Depending on the tariff conditions and the mains connection, your power supply utility may temporarily interrupt the power supply to the heat pump (power-OFF) or reduce the output of the heat pump, e.g. in the event of high grid utilisation. During the power-OFF time, another heat source takes over the heat supply to the building.

#### Additional heat sources

An instantaneous heating water heater is integrated into the indoor unit of your heat pump at the factory as an additional heat source.

The conditions under which the instantaneous heating water heater is switched on will depend on the operating conditions of your system. Efficient operation of the heat pump always takes priority here.

#### Emergency mode

If there is a fault in the refrigerant circuit, you can switch on emergency mode.

In emergency mode, room heating and DHW heating are provided by another heat source.

Room cooling is switched off.

#### Heat pump control unit

The heat pump control unit is integrated into the indoor unit and controls all functions of your system. The control unit is operated via a 7 inch colour touchscreen. Alternatively, you can operate your system on your mobile device via the app.

Communication modules for the following functions are integrated into the heat pump control unit:

- Connection to a WiFi router, e.g. for remote control via the internet with the app
- Direct WiFi connection to a mobile device ("Access point")

- Data transmission via mobile phone network
- Connection of wireless accessories, e.g. remote control

#### Type plate

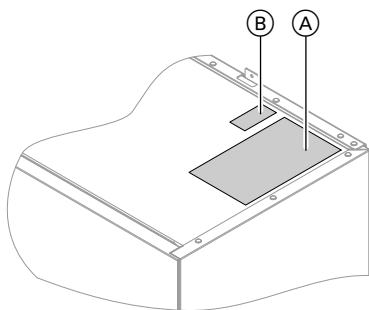


Fig. 6

- Ⓐ Type plate
- Ⓑ QR code for appliance registration  
Alternatively, the QR code is located on the type plate.

The **QR code with designation "i"** contains the access data for the registration and product information portal.

Using this QR code, the 16-digit serial number, for example, can be read out.

#### Heating system

Depending on the design of your system, the heat pump can heat or cool your rooms and heat your DHW.

Your heating contractor will have installed the system components required for your building according to which of these functions you will be using.

Depending on your heat pump type, up to two heating/cooling circuits may be directly connected to the indoor unit for room heating and/or room cooling.

If your system has a separate buffer cylinder, your heating/cooling circuits will be connected to this cylinder and will be heated and cooled through it. In such a system configuration, up to 4 heating/cooling circuits may be connected.

The heat pump supplies direct heat/cooling only to the buffer cylinder. Due to the large volume of the buffer cylinder, your heat pump will run less frequently, but the runtimes will be longer. This offers greater efficiency and protects your heat pump.

#### Note

*In systems with a separate buffer cylinder, it is **not** possible to heat one heating/cooling circuit for room heating while simultaneously cooling another heating/cooling circuit for room cooling.*

The hot water taps in your house may be supplied via a DHW cylinder. A DHW cylinder is integrated in floor-standing indoor units.

If the indoor unit of your heat pump is mounted on the wall, your contractor may have installed a separate DHW cylinder or a heating water buffer cylinder with integral DHW heating. The heating water buffer cylinder with integral DHW heating allows room heating and DHW heating, but not room cooling.

**Product information** (cont.)**Permissible ambient temperatures in the installation room****Please note**

The appliance may develop faults if it is operated outside the specified temperature ranges. Ensure that the specified temperature range is maintained in the installation room.

To prevent malfunctions, ensure the ambient temperature is between 0 °C and +35 °C.

**Outside temperature limits**

Air/water heat pumps utilise outdoor air as the heat source. Operation is only efficient within specified outdoor temperature limits:

- **Room heating**  
-20 to +40 °C
- **Room cooling**  
+15 to +45 °C

If the temperature rises above the upper limit or falls below the lower limit, the outdoor unit is shut down. You will see a message about this on the heat pump control unit and in the app.

To cover the heat demand for room heating and DHW heating even outside the specified temperature range, the heat pump control unit switches on the instantaneous heating water heater automatically. Once the outside temperature is back within the temperature limits, the heat pump is automatically ready for operation again.

**Safety zone**

Your outdoor unit contains easily flammable refrigerant in safety group A3 according to ISO 817 and ANSI/ASHRAE Standard 34.

A safety zone is defined in the immediate vicinity of the outdoor unit. Within this safety zone, special requirements apply: See page 10.

**Low power radio**

Low power radio is a wireless connection for data transfer, e.g. via a remote control unit.

Your contractor can connect your heat generator to accessories via low power radio.

**Licence information**

This product contains third party software including software of "third party components". You are authorised to use this third party software subject to compliance with the relevant licensing terms.

To check licensing information, see page 46.

**Commissioning**

Your heating contractor must carry out the commissioning and matching of the control unit to local and structural conditions and must also provide training in how to operate the system.

**Note**

*These operating instructions also describe functions that are only available on some heating system configurations or only with accessories. These functions are not specifically identified.*

*For questions relating to the scope of and accessories for your heat pump and your heating system, contact your contractor.*

### Your system is preset at the factory

Your heat pump is preset at the factory and is therefore ready for operation:

#### Room heating/room cooling

- From **06:00 to 22:00**, your home will be heated to 20 °C "**Room set temperature**" (standard room temperature).
- If a separate buffer cylinder is installed, this buffer cylinder will be heated.

#### DHW heating

- DHW is heated to "**Set DHW temperature**" 50 °C every day from **05:30 to 22:00**.
- A DHW circulation pump, if fitted, is similarly switched on every day from **05:30 to 22:00**.
- If required, the instantaneous heating water heater built into the indoor unit can be switched to DHW heating.

#### Frost protection

- Frost protection is ensured for your heat pump, DHW cylinder and any separate buffer cylinder that may be installed.

##### Note

*At outside temperatures below -20 °C and in the case of a fault in the heat pump, only the instantaneous heating water heater built into the indoor unit is switched on to provide frost protection for the system.*

#### Wintertime/summertime changeover

- This changeover is automatic.

#### Date and time

- The date and time were set by your contractor.

You can change the settings at any time to suit your individual requirements.

#### Power failure

*All settings are retained if there is a power failure.*

### Energy saving tips

#### Saving energy when using room heating

- Do not overheat your home. Every degree of room temperature reduction saves up to 6 % on your heating bills.  
Do not set your standard room temperature ("**Room set temperature**") to above 20 °C: See page 30.
- Heat your home to the reduced room temperature at night or during regular absences (not applicable to underfloor heating). For this, adjust the settings in the time program for room heating ("**Time program**"): See page 31.
- Adjust the heating curves so that your home is heated with your individual preferred temperature all year round: See page 32.
- To switch off functions that are not required (e.g. room heating in summer), set the operating program to "**Standby mode**" for the relevant heating circuits: See page 30.
- If you are going away, set the "**Holiday program**": See page 34.  
During the period that you are away, the room temperature will be reduced and DHW heating switched off.

#### Saving energy on DHW heating

- At night or during regular absences, heat the DHW to a lower temperature. To do so, adjust the time program for DHW heating: See page 36.
- Switch on DHW circulation only for those times in which you regularly use hot water. For this, adjust the time program for the DHW circulation pump: See page 36.


#### Utilising excess power (Smart Grid)

Utilise surplus power from the power supply utility for your system.

To use this function, please contact your heating contractor.

## Tips for greater comfort

### More comfort in your home

- Set your individual preferred temperature: See page 30.
- Adjust the time program for your heating/cooling circuits so that your individual preferred temperature is automatically reached when you are present: See page 31.
- Adjust the heating curve so that your home is heated with your individual preferred temperature all year round: See page 32.
- If you need a longer heating/cooling phase in the short term, select the **"Extend time phase once"** function: See page 32.  
Example:  
Late in the evening, the reduced room temperature is set by the time program. Your guests stay longer.
- If you are spending more time than usual in your home, select the **"Holidays at home"**  function: See page.  
Example:  
You are on holiday at home all day or your children have school holidays.

### Sufficient DHW heating for your needs

- Adjust the time program for DHW heating so that there is always sufficient hot water in accordance with your habitual routines: See page 36.  
Example:  
You need more DHW in the morning than in the day-time.
- Adjust the time program for the DHW circulation pump so that DHW is available immediately from the taps during periods when hot water is drawn more frequently: See page 36.
- If you need your DHW temperature to be higher for a short while, select "One-off DHW heating outside the time program": See page 37.

## Quieter operation

Reduce the noise level of your air source heat pump, at night for instance.

To do so, adjust the time program for quieter operation: See page 39.

### Operating principles

All your system settings can be made via the programming unit, remote control units or other room temperature control devices and the Home Climate app.

#### Touchscreen operation

The programming unit is equipped with a 7 inch colour touchscreen. To input settings and check information, tap the on-screen buttons.

#### Operation via remote control units or room temperature control devices



Separate operating instructions

#### Operation via Home Climate app

The Home Climate app allows you to operate your system via a mobile device, e.g. smartphone.

Available functions depend on the system equipment, e.g. with/without components for individual room control.

Check the following system requirements for operation with the Home Climate app:

- WiFi connection from router for control with internet access
- Smartphone or tablet with operating system:
  - iOS
  - Android

### Screen displays

#### Standby display

If the controls have not been operated for some time, the display initially switches to the **standby display**.

After a few minutes, the illumination is switched off.

#### Default displays

The default displays provide access to the most important settings and checks.

Use ◀▶ to choose between the following default displays:

- Room climate
- DHW

- Energy cockpit
- Favourites
- System overview


For further information on the default displays: See page 27 onwards.

#### Home screen

After switching on the control unit, the home screen is shown.

In the delivered condition, the **"Indoor environment"** default display is shown as the home screen. You can specify a different default display for the home screen: See page 42.

Call up the home screen as follows:

- Standby display active:
  - Tap anywhere on the screen.
- From the **"Main menu"**:
  - Tap .

#### Note

*You can prevent operation of the home screen: See page 40.*

*If you do so, you will not be able to make adjustments on either the home screen or the main menu.*

**"Panel locked"** is displayed.

## Buttons and symbols

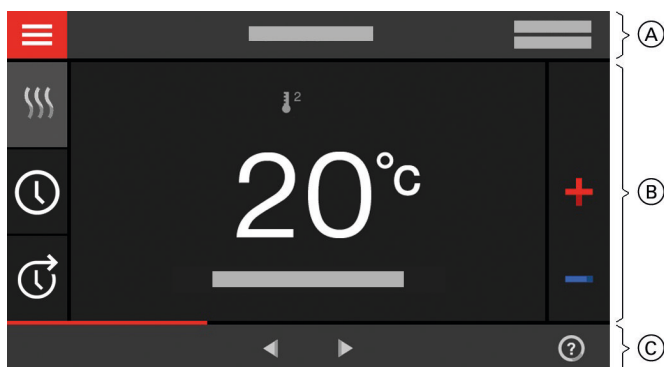


Fig. 7

- (A) Menu bar
- (B) Function area
- (C) Navigation area

### Buttons and symbols in menu bar (A)

Calls up the "Main menu".  
**"Heating circuit ..." or "Heating/cooling circuit ..."**  
 You can select the heating circuit or heating/cooling circuit.

**Note**  
*This selection is available only if your system has more than one heating circuit or heating/cooling circuit.*

**System data:**

- Date
- Time

**Interfaces:**

- No data transfer
- No WiFi connection
- Establishing a connection
- Communication error
- WiFi connection is enabled: Very low reception quality
- WiFi connection is enabled: Low reception quality
- WiFi connection is enabled: Medium reception quality
- WiFi connection is enabled: High reception quality

### Buttons and symbols in function area (B)

For buttons on the default displays: See page 27 onwards.

**Note**  
*These symbols are not always displayed, but appear subject to the system version and the operating status.*

**Symbols**

- Frost protection is active.
- Setting/changing a time program
- Extend time phase once
- Room heating with reduced room temperature
- Room heating with normal room temperature
- Room heating with comfort room temperature
- Room cooling with reduced room temperature
- Room cooling with standard room temperature
- Room cooling with comfort room temperature
- Holiday program is switched on.

- Holidays at home is switched on.
- Room cooling is active.
- Room heating is active.












- Operating program for room heating, room cooling, DHW heating: See page 23.
- Standby mode for each of the heating/cooling circuits
- Heating
- Cooling
- DHW heating



**Reports:** See page 49.

- "Status"
- "Warnings"
- "Information"
- "Faults"

## Buttons and symbols (cont.)

### Buttons and symbols in navigation area

-  Takes you back to the home screen.
-  Takes you one step back in the menu.  
Or  
Terminates an adjustment in progress.
-  WiFi is switched off: See page 43.  
**Note**  
*When WiFi is on, the symbol  is displayed in menu bar . The symbol  in navigation area  disappears.*
-  Confirms a change.
-  Makes changes in the menu.
-  Calls up the help text.
-  Calls up messages.





-  Calls up the required period for the energy balance.  
For further information: See page 28.
-  Scrolls through the menu.  
Or  
Switches to other display areas, e.g. to the **"System overview"**.

**Note**  
*If **"DEMO"** is displayed in the navigation area, room heating/cooling, DHW heating and frost protection are all **switched off**.*













## Overview of the "Main menu"

In the **"Main menu"**, you can check and adjust **all** of the settings for the control unit's range of functions.

Call up the **"Main menu"** as follows:

- If the screensaver is active:  
Tap anywhere on the screen and then tap .
- From the home screen:  
Tap .
- From anywhere in the menu:  
Tap  and then .

### Menus available in the "Main menu"

-  **"Switch on/off"**  
Switch the heat pump off and on: See page 50.
-  **"Buffer mode"**  
Switch the separate buffer cylinder to **"Heating mode"** or **"Cooling mode"**: See page 31.
-  **"Indoor environment"**  
For more room heating/room cooling settings, e.g. set temperature values  
For further information: See page 30.
-  **"DHW"**  
For DHW heating settings, e.g. **"DHW temperature set value"**  
For further information: See page 36.
-  **"Settings"**  
For example the  display setting  
For further information: See page 40.
-  **"Information"**  
For checking operating data  
For further information: See page 46.
-  **"Holiday program"**  
Energy saving function **"Holiday program"**  
For further information: See page 34.
-  **"Holidays at home"**  
**"Holidays at home"** function  
For further information: See page 33.
-  **"Message lists"**  
Calls up all pending messages  
For further information on messages: See page 48 onwards.
-  **"Service"**  
For contractors **only**
-  **"Advanced"**  
For the processing of further settings from the function range of the heat pump control unit, e.g. emergency mode  
For further information: See page 39.  
You can find the menu overview on page 57.

## Operating program

### Operating programs for room heating, room cooling and DHW heating

The operating programs for room heating, room cooling and DHW heating can be set separately.

Symbol	Operating program	Function
<b>Room heating/room cooling</b>		
☰	"Heating"	The rooms of the selected heating/cooling circuit are heated in accordance with the specified room temperature or flow temperature and the time program: See chapter "Room heating/room cooling".  <b>Note</b> <i>For systems with a separate buffer cylinder, "Buffer mode" must be set to "Heating mode": See chapter "Setting room heating/room cooling with a buffer cylinder". The setting affects all heating/cooling circuits.</i>
✱	"Cooling"	The rooms of the selected heating/cooling circuit are cooled in accordance with the specified room temperature or flow temperature and the time program: See chapter "Room heating/room cooling".  <b>Note</b> <ul style="list-style-type: none"> <li>▪ For systems with a separate buffer cylinder, "Buffer mode" must be set to "Cooling mode": See chapter "Setting room heating/room cooling with a buffer cylinder". The setting affects all heating/cooling circuits.</li> <li>▪ Room cooling is not possible for systems with a heating water buffer cylinder with integral DHW heating.</li> </ul>
☰*	"Heating/cooling"	The rooms of the heating/cooling circuit are heated/cooled as specified for the room temperature and time program: See chapter "Room heating/room cooling".
⏻	"Standby mode"	<ul style="list-style-type: none"> <li>▪ No room heating/room cooling</li> <li>▪ Frost protection for the heat pump is enabled.</li> </ul>
<b>DHW heating</b>		
↶	"DHW" "ON"	DHW is heated in accordance with the specified DHW temperature and time program: See chapter "DHW heating".
↷	"DHW" "OFF"	<ul style="list-style-type: none"> <li>▪ No DHW heating</li> <li>▪ Frost protection for the DHW cylinder is enabled.</li> </ul>

#### Selecting operating programs centrally

You can select the operating programs for the individual heating/cooling circuits and for DHW heating separately from one another.

Tap the following buttons:

1. ☰

2. ⏻ "Switch on/off"

3.
  - If you wish to select the operating program for a heating/cooling circuit:  
Tap ↵ for "Heating", "Cooling", "Heating/cooling" or "Standby mode".
  - If you wish to select the operating program for DHW heating:  
Tap ↵ for "ON" or "OFF".
  - If you wish to switch the entire system on or off:  
Tap ↵ for "ON" or "OFF".  
See chapter "Switching on and off".

### Operating program (cont.)

#### Selecting operating programs using the default display

- For heating/cooling circuit operating programs: See page 30.
- For DHW heating operating programs: See page 36.

#### Special operating programs and functions

##### ■ "Screed drying"

This function is enabled by your contractor. Your screed is dried in line with a set time program (temperature/time profile) suitable for the relevant building materials. Your settings for central heating have no effect on the duration of screed drying (max. 32 days). DHW heating is switched off. The "**Screed drying**" function can be changed or switched off by your contractor.

##### ■ "External hook-up"

The operating program set at the control unit was changed over by an external device, e.g. an EM-EA1 extension (DIO electronics module). The operating program cannot be changed via the programming unit while the external hook-up is enabled.

- "Holidays at home": See page 33.
- "Holiday program": See page 34.
- "Low-noise mode": See page 39.
- "Emergency mode": See page 39.

##### ■ External room temperature demand

Only available if your contractor has connected and enabled a room thermostat in your heating/cooling circuit:

You use this room thermostat to switch the room heating or room cooling on and off.

When the room heating/room cooling is switched off, the heating circuit pump is switched off. In this case, your heating/cooling circuit has **no** frost protection.

##### ■ External operating program changeover between heating/cooling: See page 31.

Your contractor has installed an external switch that you can use to switch between heating and cooling mode.

#### **Note**

*Some of the special operating programs and functions are displayed alternately with the room temperature or the flow temperature of the heat pump.*

*In the main menu, you can call up the set operating program under "**Information**": See page 46.*

#### Procedure for setting a time program

The following explains how to input the settings for a time program. The specifics of the individual time programs can be found in the relevant chapters.

You can set up a time program for the following functions:

- Room heating/room cooling: See page 30.
- DHW heating: See page 36.

- DHW circulation pump: See page 36.
- Quieter operation: See page 39.

#### Time programs and time phases

In the time programs you determine what your heat pump does at what time. For this, divide the day into sections. These are called **time phases**. Inside and outside these time phases, the system behaves in various different ways – see the following table.

**Procedure for setting a time program (cont.)**

You can set up a time program for the following functions:

Function	Within the time phase	Outside the time phase
Room heating	Your rooms are heated with standard room temperature or comfort room temperature.	Your rooms are heated with reduced room temperature.
Room cooling	Your rooms are cooled with standard room temperature or comfort room temperature.	Your rooms are cooled to the reduced room temperature.
DHW heating	DHW heating is switched on. The water in the DHW cylinder is heated to the set DHW temperature.	DHW heating is switched off.
DHW circulation pump	The DHW circulation pump is enabled for operation.	The DHW circulation pump is switched off.
Quieter operation	The speed of the fan and the compressor is limited.	The maximum speed of the fan and the compressor is enabled.

- The time programs can be set **individually** to be the same, or different, for every day of the week.
- In the main menu, you can check the time programs under ⓘ **"Information"**: See page onwards.

**Setting time phases**

The procedure is explained using the example of room heating for heating/cooling circuit 1.

You can set up to 4 time phases in each **"Time program"**.

For each time phase, you define the start point **"Start"** and the end point **"End"**.

**Example:**

**"Time program"** for the weekday **"Monday"** for heating/cooling circuit 1

- Time phase 1:  
06:45 to 12:00 with standard room temperature
- Time phase 2:  
15:00 to 20:00 with comfort room temperature

In between these time phases the system heats to a reduced temperature.

Tap the following buttons:

1. **"Heating/cooling circuit 1"** ▾ in the menu bar
2. ⓘ
3. **"Mo"**
4. ✎
5. ⤴ ⤵ for the **"Start"** and **"End"** of time phase 1.  
The bar in the time diagram is adjusted.

6. ⤴ **"Normal"** to select standard room temperature.
7. + to add time phase 2.
8. ⤴ ⤵ for the **"Start"** and **"End"** of time phase 2.

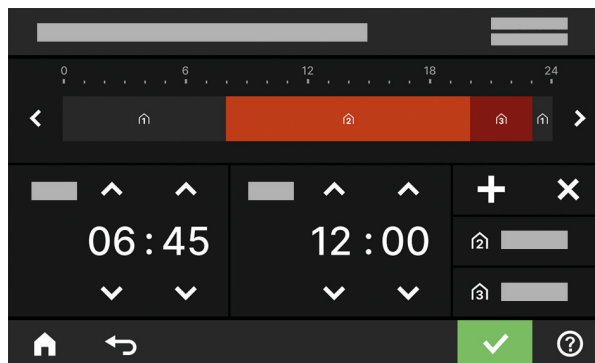


Fig. 8

The bars in the time diagram are adjusted.

9. ⤴ **"Comfort"** to select comfort room temperature.
10. ✓ to confirm
11. 🏠 to quit the **"Time program"**.

**Copying the time program to other days of the week**

The procedure is explained using the example of room heating for heating/cooling circuit 1.

**Example:**

You want to copy the **"Monday"** **"Time program"** over to **"Thursday"** and **"Friday"**.

## Procedure for setting a time program (cont.)

Tap the following buttons:

1. "Heating/cooling circuit 1" ✓ in the menu bar
2. ⌚
3. "Mo"
4. 🏠
5. "Th", "Fr"
6. ✓ to confirm
7. 🏠 to quit the time program.

### Changing time phases

The procedure is explained using the example of room heating for heating/cooling circuit 1.

#### Example:

For "Monday" you want to change the start point "Start" for time phase 2 to 19:00.

Tap the following buttons:

1. "Heating/cooling circuit 1" ✓ in the menu bar
2. ⌚
3. "Mo"
4. ✎
5. > for time phase 2
6. ✓ for the start point of time phase 2. The bar in the time diagram is adjusted.
7. ■ ⌚ "Standard" for standard room temperature or ■ ⌚ "Comfort" for comfort room temperature
8. ✓ to confirm
9. 🏠 to quit the time program.

### Deleting time phases

The procedure is explained using the example of room heating for heating/cooling circuit 1.

#### Example:

For Monday you want to delete time phase 2.

Tap the following buttons:

1. "Heating/cooling circuit 1" ✓ in the menu bar
2. ⌚
3. "Mo" to select the required day
4. ✎
5. > for time phase 2
6. ✕ to delete the time phase.
7. ✓ to confirm
8. 🏠 to quit the time program.

## Default display "Indoor environment"

In the **"Indoor environment"** default display you can carry out the room heating and room cooling settings and checks you use most frequently:

- + Raises the room temperature value.
- Lowers the room temperature value.
- ⋮ Sets the **"Heating"** operating program for a heating/cooling circuit.
- \* Sets the **"Cooling"** operating program for a heating/cooling circuit.

- ⋮\* Sets the **"Heating/cooling"** operating program for a heating/cooling circuit.
- ↻ Switches the **"Extend time phase once"** function on or off.
- 🕒 Calls up the **"Time program"** for room heating/room cooling.

The displayed temperature is the set room temperature for the current time phase, e.g. 20 °C.

## "DHW" default display

In the **"DHW"** default display you can carry out the DHW settings and checks you use most frequently:

- + Raises the DHW temperature value.
- Lowers the DHW temperature value.

- 🔌 Sets the **"DHW"** to **"ON"**.
- 🔌 Sets the **"DHW"** to **"OFF"**.
- 🕒 Calls up the **"Time program"** for DHW heating.
- 🏠 Switches one-off DHW heating on or off.

## "Energy cockpit" default display

The **"Energy cockpit"** provides you with clear information on the energy state of your heat pump. The various components present in the system are shown as graphics. Some information on the components is also provided on the default display. For more information, tap on the currently displayed component. What buttons and symbols are available depends on the system version.

If you call up the energy cockpit for the first time, a notification appears.

- Confirm the notification with ✓. The Energy cockpit is displayed. The notification is not shown again when the energy cockpit is subsequently called up.
- With **"Cancel"** the notification is closed. The Energy cockpit is displayed. The notification will be shown again next time the energy cockpit is called up.

- Ⓒ Heat pump flow temperature
- Ⓓ DHW cylinder
- Ⓔ Heating of the DHW cylinder by the heat pump is enabled.
- Ⓕ Heat pump  
Check the heat pump operating data.  
For additional information: See chapter "Checking the heat pump operating data".
- Ⓖ Energy statement  
Check the power consumption of the compressor and electrical booster heater.  
For additional information: See chapter "Checking the energy statement".

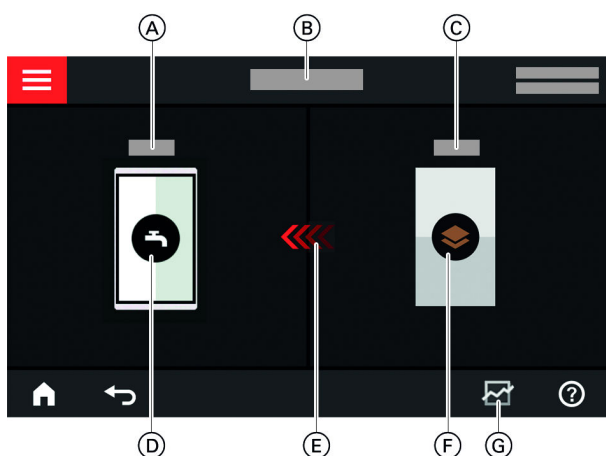


Fig. 9

- Ⓐ DHW temperature
- Ⓑ Energy cockpit

## Default displays

### "Energy cockpit" default display (cont.)

#### Checking the heat pump operating data

In the energy cockpit default display you can find the operating data for the heat pump.

Tap the following buttons:

1.  for the "Energy cockpit" default display

2. 

3.  for the required check

You can call up the following operating data:

- SPF of the system: SPF = **S**easonal **P**erformance **F**actor
  - Thermal energy generated
  - Energy consumption
- SPF for room heating
  - Thermal energy generated
  - Energy consumption
- SEER for room cooling: SEER = **S**easonal **E**nergy **E**fficiency **R**atio
  - Thermal energy generated
  - Energy consumption
- SPF for DHW heating
  - Thermal energy generated
  - Energy consumption

- Power consumption of refrigerant circuit
  - Power consumption this month
  - Power consumption last month
  - Power consumption this year
  - Power consumption last year
- Power consumption of electric booster heater (instantaneous heating water heater)
  - Power consumption this month
  - Power consumption last month
  - Power consumption this year
  - Power consumption last year

#### Note

*The consumption figures displayed are not based on metering instruments but instead are computed values. The calculation takes into account the system components present and user behaviour, e.g. operating time and utilisation level.*

*Depending on system-specific parameters (e.g. installation altitude), differences may arise between the displayed (computed) and actual consumption values. Due to seasonal climate conditions and other factors, further discrepancies are possible. The value display serves to visualise any consumption increases or decreases in relation to specific comparative periods. The use of the displayed consumption values as a basis for invoicing is not permitted.*

#### Calling up the energy balance


In the energy balance, you can display the power consumption of your heat pump or the built-in instantaneous heating water heater for a required period.

Tap the following buttons:

1.  for the "Energy cockpit" default display

2. 

3. Selection:
- Power consumption of refrigerant circuit
  - Power consumption of electric booster heater (instantaneous heating water heater)

4. Required period :

- Current month
- Last month
- Current year
- Last year

### "Favourites" default display

In the "Favourites" default display you can call up your own preferred menus. You can add a maximum of 12 menus to Favourites. You can change the selection at any time.

#### Labelling menus as favourites

Tap the following buttons:

1.  for the "Favourites" default display

2.  The list of menus available for selection is shown.

**"Favourites" default display** (cont.)

3.  for all preferred menus  
The selection is indicated by .
4.  to confirm

**"System overview" default display**

Subject to your system equipment and the settings that have been made, you can check the following current system data on the **"System overview"** default display:

- System pressure
- Heat pump flow temperature
- Outside temperature
- Heating/cooling circuit flow temperature
- DHW temperature
- Status of the internet connection
- Service, heating contractor contact details
- Open source licences

**Tap the following buttons:**

1. ◀▶ for the **"System overview"** default display
2. **Checking other information:**  
 ▶ for further system data  
 Or  
 ⓘ to call up the **"Information"** menu.

**Note**

*Detailed options for checking the individual system data can be found in chapter "Menu overview".*

## Room heating/room cooling

### Selecting a heating/cooling circuit



The heating/cooling of all rooms can be distributed amongst several heating/cooling circuits, e.g. a heating/cooling circuit for your apartment, and a heating/cooling circuit for your office.

In the menu bar, the following designations are used at the factory: **"Heating/cooling circuit 1"**, **"Heating/cooling circuit 2"**, etc. You can alter these designations: See chapter "Naming heating/cooling circuits".

- If your system has several heating/cooling circuits, in **"Room climate"** in the default display, first select the heating/cooling circuit for all room heating/room cooling settings that you want to change.
- If there is only one heating/cooling circuit, this selection option is not available.

Select the explanation of the procedure using the example of heating/cooling circuit 2.

**Tap the following buttons:**

1.  for the **"Room climate"** default display
2. **"Heating/cooling circuit 1"**  in the menu bar
3. Select **"heating/cooling circuit 2"**.

### Setting the room temperature for a heating/cooling circuit

The standard room temperature is the temperature at which you feel comfortable. Your home is always heated or cooled to this temperature when a time phase with the temperature level **"Standard"** is active in the time program.

Set the time program for room heating/room cooling: See page 31.

**Factory settings:**

#### Room heating

- Standard room temperature: 20 °C
- Reduced room temperature: 18 °C
- Comfort room temperature: 22 °C

#### Room cooling



- Standard room temperature: 25 °C
- Reduced room temperature: 27 °C
- Comfort room temperature: 23 °C


#### Note


- *Temperatures for room cooling cannot be set lower than temperatures for room heating.*
- *Temperatures for room heating cannot be set higher than temperatures for room cooling.*


### Setting temperature levels for room heating/room cooling

**Tap the following buttons:**

1.  for the default display **"Indoor environment"**
2.  for the required heating/cooling circuit

3.  for the required value of the relevant temperature level:



-  **"Reduced"**
-  **"Standard"**
-  **"Comfort"**





4.  to confirm


### Switching room heating/room cooling on or off (operating program)

For information on the operating programs: See page 23.

**Tap the following buttons:**

1.  for the default display **"Room climate"**
2.  for the required heating/cooling circuit

3. Select the required operating program:
  -  Switches the room heating on.
  -  Switches the room cooling on.
  -  Switches on room heating/room cooling.
  -  Switches standby mode on. Room heating and room cooling are switched off.

4.  to confirm

## Time program room heating/room cooling

In the time programs for room heating and room cooling you set the time phrases during which your home is heated or cooled and to what temperature.

### Setting the time program

Factory setting: **One** time phase from 06:00 to 22:00 h for every day of the week with the **"Standard"** temperature level.

Adjust the time program for room heating or room cooling.

The procedure is explained using the example of room heating for heating/cooling circuit

#### Tap the following buttons:

1. ◀▶ for the default display **"Indoor environment"**
2. ✓ for the required heating/cooling circuit
3. ⌚
4. Required day of the week

5. ✎

6. Depending on the required change:
  - ^✓ for changing the beginning and end of the selected time phase
  - +
  - ✕ for a new time phase to delete a time phase
  - ◀▶ to select the time phase if more than one time phase is set.

#### Note

*When adjusting the setting, bear in mind that your system requires some time to heat the rooms to the required temperature.*

To continue: See page 24.

## Selecting room heating/room cooling with buffer cylinder

### Only for systems with separate buffer cylinder

Your heating/cooling circuits can be either heated or cooled via the separate heating/cooling water buffer cylinder.

To heat your rooms, you must set the heating/cooling water buffer cylinder to room heating; to cool your rooms, you must set it to room cooling.

#### Note

- *As the buffer cylinder supplies all heating/cooling circuits, this setting affects all heating/cooling circuits. It is therefore not possible to heat via one heating/cooling circuit and cool via another heating/cooling circuit at the same time.*
- *DHW heating takes place as required, regardless of this setting.*
- *Cooling is not possible for systems with a heating water buffer cylinder with integral DHW heating.*

### External switch for operating program changeover between heating/cooling

*If your contractor has connected an external switch, you can use this switch to toggle between heating and cooling mode.*

### Selecting room heating for separate heating water/coolant buffer cylinder

1. ≡
2. 🏠 "Buffer mode"
3. ≡ "Heating mode"

### Selecting room cooling for separate heating water/coolant buffer cylinder

1. ≡
2. 🏠 "Buffer mode"
3. ❄️ "Cooling mode"

### Setting the heating curve

So that your rooms are heated optimally at all outside temperatures, you can adjust Heating curve **"Slope"** and **"Level"**. This enables you to influence the flow temperature of the heat pump.

Factory settings depend on your system

#### Example:

Heating curve with a Slope of "1.4" and a Level of "0"

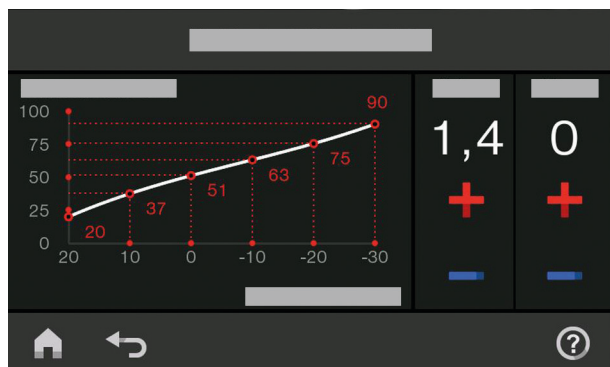


Fig. 10

The procedure is explained using the example of heating/cooling circuit 1.

#### Tap the following buttons:

1. ☰
2. 🏠 "Room climate"
3. Required heating/cooling circuit, e.g. ① "Heating/cooling circuit 1"
4. ↩ "Heating curve"
5. + - for the required value for "Slope" and "Level" respectively  
The diagram indicated shows the change in the "Heating curve" clearly.
6. ✓ to confirm

#### Tips for setting the "Heating curve"

Room temperature behaviour	Remedy
The home is too cold during the winter.	Set the <b>"Slope"</b> to the next level up.
The home is too warm during the winter.	Set the <b>"Slope"</b> to the next level down.
The home is too cold during the spring/autumn and winter.	Set the <b>"Level"</b> to a higher value.
The home is too warm during the spring/autumn and winter.	Set the <b>"Level"</b> to a lower level.
The home is too cold during the spring/autumn but warm enough during the winter.	Set the <b>"Slope"</b> to the next level down and <b>"Level"</b> to a higher value.
The home is too warm during the spring/autumn but warm enough during the winter.	Set the <b>"Slope"</b> to the next level up and <b>"Level"</b> to a lower value.

### Temporarily adjusting the room temperature

If you wish to adjust the room temperature temporarily, select the ⌚ **"Extend time phase once"** function. This function is **independent** of the time program for room heating/room cooling.

- The rooms will be heated/cooled with the temperature of the last active time phase for standard room temperature or comfort room temperature.
- If your contractor has not made alternative adjustments, DHW is heated to the selected DHW temperature **first**, before room heating/room cooling commences.
- The DHW circulation pump is switched on (if installed).

## Temporarily adjusting the room temperature (cont.)

### Switching on "Extend time phase once"

Tap the following buttons:

1. ✓ for the required heating/cooling circuit
2. ↻ The temperature of the last active time phase for standard room temperature or comfort room temperature will be set.

### Switching off "Extend time phase once"


The function ends automatically when switching to the next time phase for standard room temperature or comfort room temperature.

2. ↻


To terminate "Extend time phase once" early, tap the following on-screen buttons:

1. ✓ for the required heating/cooling circuit

## Adjusting the room temperature for longer periods at home

If you are continuously at home for one or more days but do not want to change the time program, select the function **"Holidays at home"** , e.g. on public holidays or when the children are on school holidays.

- DHW heating is active.
- The **"Holidays at home"** function starts and ends according to the set times for the start date and end date.

The function **"Holidays at home"**  has the following effect:

- The room temperature during the periods between the set time phases is raised to the set value of the first time phase of the day: From reduced room temperature to standard room temperature or comfort room temperature
- If no time phase is active before 00:00, your rooms are heated/cooled to the reduced room temperature until the next time phase is enabled.

#### Note

- As long as the **"Holidays at home"** function is switched on, the default display shows **"Holidays at home"** and the set start date and end date.
- If **"Detached house"** was selected by your contractor during commissioning, the function is adopted for all heating/cooling circuits.

#### Example:

For Monday and Tuesday, 2 time phases are set respectively.

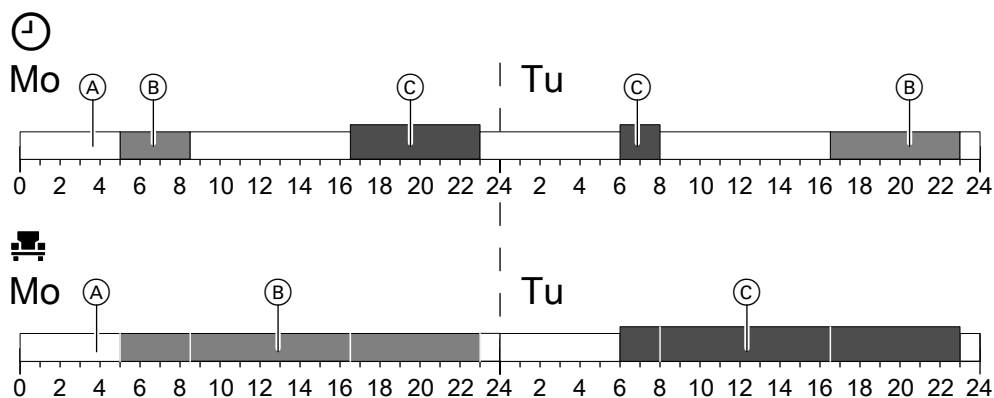



Fig. 11




- ⌚ Temperature level according to the set time program
-  Temperature level if "Holidays at home" is switched on.




- (A) Reduced room temperature
- (B) Standard room temperature
- (C) Comfort room temperature

## Adjusting the room temperature for longer... (cont.)

### Switching on "Holidays at home"

Tap the following buttons:



1. 
2.  "Holidays at home"
3. If necessary,  for the required heating/cooling circuit

4.   for "Start" and "End"
5.  to confirm


### Switching off "Holidays at home"

Tap the following buttons:





1. 
2.  "Holidays at home"

3. If necessary,  for the required heating/cooling circuit
4. 

## Saving energy during long periods of absence

To save energy during long periods of absence, set the "Holiday program" .

The holiday program has the following effects:

- **Room heating:**
  - For heating/cooling circuits in the  "Heating" operating program:  
The rooms are heated to the set reduced room temperature.
  - For heating/cooling circuits in the  "Standby mode" operating program:  
No room heating: Frost protection for the heat pump and DHW cylinder is active.
- **Room cooling:**
  - For heating/cooling circuits in the  "Cooling" operating program:  
The rooms are cooled to the set reduced room temperature.
  - For heating/cooling circuits in the  "Standby mode" operating program:  
No room cooling




- **DHW heating:**
  - No DHW heating: Frost protection for the DHW cylinder is active.
  - The holiday program starts at 00:00 on the first day of your holiday and ends at 23:59 on the final day.




#### Note

- As long as the "Holiday program" function is switched on, the selected first and last day of the holiday are shown in the "Heating/cooling circuit" and "Holiday program" default display.
- If "Detached house" was selected by your contractor during commissioning, the holiday program is switched on for all heating/cooling circuits.
- If "Apartment building" was selected by your contractor during commissioning, DHW heating will only be switched off if all heating/cooling circuits are set to the "Holiday program".

### Switching on the "Holiday program"





Tap the following buttons:

1. 
2.  "Holiday program"
3. If necessary,  for the required heating/cooling circuit

4.   for "First holiday" and "Last holiday"
5.  to confirm

**Saving energy during long periods of absence** (cont.)**Switching off the "Holiday program" **

Tap the following buttons:

1. 
2.  "Holiday program"
3. If necessary,  for the required heating/cooling circuit
4. 

## DHW heating

### DHW temperature

#### DHW heating

Your DHW is always heated to the required temperature according to a set time program.




Set the time program for DHW heating: See chapter "Time program for DHW heating".

Factory setting: 50 °C

#### Note

For reasons of hygiene, the DHW temperature should not be set below 50 °C.

#### Tap the following buttons:




1.  for the "DHW" default display
2.  for the required value
3.  to confirm

### Switching DHW heating on/off (operating program)

If you switch off the DHW heating, no DHW can be heated, even using the "One-off DHW heating" function outside the time program function.

#### Tap the following buttons:

1.  for the "DHW" default display

2. Highlighted button 
3.  | "ON" if you want to **start** DHW heating.  
 "OFF" if you want to **stop** DHW heating.

For information on the operating program: See page 23.

### Time program for DHW heating




#### Setting a time program





In the time program for DHW heating, you set the time phases in which your DHW is heated and to what temperatures.

Factory setting: **One** time phase from 05:30 to 22:00 for every day of the week.

You can change the time program **individually** in accordance with your requirements.

#### Tap the following buttons:

1.  for the "DHW" default display
2. 
3. Required day of the week
4. 

5. Depending on the required change:  
 for changing the beginning and end of the selected time phase  
 for a new time phase  
 to delete a time phase.  
 to select the time phase if more than one time phase is set.

#### Note

- The DHW is not heated between the time phases. Frost protection for the DHW cylinder is enabled.
- When setting time programs, bear in mind that your system requires some time to heat the DHW cylinder to the required temperature.

For how to set a time program: See page 31.

### Setting the time program for the DHW circulation pump

In the time program for the DHW circulation pump, you set the time phases in which the circulation pump runs constantly or at intervals.









Factory setting: **One** time phase from 05:30 to 22:00 for every day of the week.

You can change the time program **individually** in accordance with your requirements.

#### Tap the following buttons:


1. 
2.  "DHW"

## Time program for DHW heating (cont.)

3. 
4. Select a day of the week.
5. 
6. Depending on the required change:
  -   to change the time phase
  -  for a new time phase
  -  to delete a time phase.
  -   to select the time phase if more than one time phase is set.

For how to set a time program: See page 24.





## "One-off DHW heating" outside the time program

If you require hot water outside the set time phases, switch on "One-off DHW heating" . The DHW cylinder is heated once to the set DHW temperature.


This function has a higher priority than other functions for DHW heating, such as the time program.

### Switching on "One-off DHW heating"

Tap the following buttons:



1.   for the "DHW" default display or possibly "Favourites"
2. 
3.  to confirm

### Switching off "One-off DHW heating"

One-off DHW heating  ends as soon as the set DHW temperature has been reached.

2. 

Tap the following on-screen buttons to terminate "One-off DHW heating" early:

1.   for the "DHW" default display or possibly "Favourites"

## Increased DHW hygiene

Once a week or daily, you can heat the water in the DHW cylinder to a higher DHW temperature for one hour. This hygiene function is carried out regularly at the specified time. Your heating contractor will set the duration and DHW temperature for the hygiene function.



### Danger

High DHW temperatures can cause scalding, e.g. if the DHW temperature is above 60 °C. Mix with cold water at the draw-off points.

### Switching on increased DHW hygiene

Tap the following buttons:

1. 
2.  "DHW"
3.  "Hygiene function"
4.   for the starting time "Start"
5. Select the required day of the week or daily. The selection is highlighted.
6.  to confirm

## DHW heating

### Increased DHW hygiene (cont.)

#### Switching off increased DHW hygiene





Tap the following buttons:


1. 
2.  "DHW"
3.  "Hygiene function"
4. Deselect the day of the week or daily.
5.  to confirm

#### Switching DHW scald protection on/off

With the scald protection, you limit the DHW temperature in the DHW cylinder to a maximum of 60 °C.

Tap the following buttons:

1. 
2.  "DHW"
3.  "Scald protection"
4. "ON" or "OFF"
5.  to confirm

 **Danger**  
With scald protection switched off, a set DHW temperature higher than 60 °C can be selected. Consequently there is an increased risk of scalding!  
If possible, do not switch scald protection off.



#### **Danger**








Scald protection does not affect the hygiene function. Even with scald protection switched on, the DHW cylinder will regularly be heated to the higher temperature of the hygiene function. Since this temperature may be above 60 °C, there is an increased risk of scalding!  
Mix with cold water at the draw-off points.

#### Mode of DHW heating

You can set whether DHW is heated to the set DHW temperature as quickly as possible or with as little energy consumption as possible.

#### **Note**

*This setting is not possible with all heat pumps.*

1. 
2.  "DHW"
3.  "Mode of DHW heating"
4.  /  for the required mode:
  -  "Eco" Energy saving DHW heating
  -  "Comfort" Fast DHW heating

## Quieter operation

### Switching low-noise mode on/off

In quieter operation, the speeds of the fan and, if appropriate, the compressor are reduced. This reduces the sound level from operating the outdoor unit.

Tap the following buttons:

1. 

2.  "Extended menu"

3.  "Low-noise mode"

4.  "Switch on/off"

5.  "ON" if you want to **start** low-noise mode.  
 "OFF" if you want to **stop** low-noise mode.

### Setting the time program for quieter operation

In the time program for quieter operation, set the time phases in which the speed of the fan and, if required, of the compressor are limited.

To do so, select an operating status for each time phase: See chapter "Operating status for quieter operation".

Factory setting: **No** time phase from 00:00 to 24:00 h for every day of the week. The fan speed is not limited.







Tap the following buttons:

1. 


2.  "Extended menu"

3.  "Low-noise mode"

4.  "Time program"

5. Set the required time phases and operating status.  
   to change the time phase  
  for a new time phase  
  to delete a time phase.  
   to select the time phase if more than one time phase is set.

#### Note

- *The fan speed is not limited between the set time phases.*
- *If  is not displayed, your contractor has locked the setting for low-noise mode. Your contractor can remove this lock. You can check a time program set by the contractor for low-noise mode under "Information".*

For how to set a time program: See page 24.

### Operating status for quieter operation

You can choose between 2 operating statuses:

- **"Slight"**  
The max. fan speed and, if required, that of the compressor are reduced by a small amount.
- **"Significant"**  
The max. fan speed and, if required, that of the compressor are reduced by a large amount.

## Switching emergency mode on/off

If there is a fault in the outdoor unit you can switch on emergency mode.

The room heating and DHW heating is done by instantaneous heating water heater built into the indoor unit. In emergency mode, room cooling is switched off.

Tap the following buttons:

1. 

2.  "Extended menu"

3.  "Emergency mode"

4.  "ON" if you want to **start** emergency mode.  
 "OFF" if you want to **stop** emergency mode.

## Further adjustments




### Disabling operation



You can lock the controls in 2 steps:

- Stage 1
- All functions on the default displays are operable. Message lists are displayed.
  - All other functions are disabled.

Stage 2 All functions are disabled.


Tap the following buttons:

1. 
2.  "Settings"
3.  "Lock panel"

4.  "Lock everything"  
Or  
 "Only default display operable"
5. Enter the password.


#### Note



- The factory-set password is "viessmann".
- You can change this password: See chapter "Changing the password for the "Lock panel" function".

6.  to confirm

### Unlocking the controls





Tap the following on-screen buttons:

1. Any on-screen button  
"Panel locked" is displayed.
2.   
"Do you want to unlock the operation?" is displayed.

3.   
An entry field and keyboard appear.
4. Enter the password set in the factory, or the password you have specified.
5.  to confirm

### Changing the password for the "Lock panel" function



Tap the following on-screen buttons:

1. 
2.  "Settings"
3.  "Change password"
4. Enter the current password.
5.  to confirm

6. Enter the new password (1 to 20 characters).

#### Note




You will not be required to confirm the new password.






7.  to confirm  
Information is displayed.
8.  to confirm the note

### Setting the display brightness

You can adjust the display brightness for operation and for standby separately.

Tap the following buttons:

1. 
2.  "Settings"
3.  "Display setting"

4.  "Brightness, operation"  
Or  
 "Brightness, standby"
5.   for the required value
6.  to confirm

## Naming heating/cooling circuits

You can name all heating/cooling circuits individually, e.g. "Ground floor".




These names are used in the default displays and in the main menu.

### Note

The abbreviations 1, 2, etc. will be retained in the default display.

Tap the following buttons:

1. 
2.  "Settings"

3.  "Rename heating/cooling circuit"
4. Select the required heating/cooling circuit, e.g.  "Heating/cooling circuit 1"
5. Type in the required name, e.g. "Ground floor" (1 to 20 characters).
6.  to confirm






The name assigned to the relevant heating/cooling circuit is shown in the default display and in the main menu.

## Setting the "Time" and "Date"

The "Time" and "Date" are set at the factory. If your system has been shut down for a prolonged period, you may need to reset the "Time" and "Date".

Tap the following buttons:

1. 
2.  "Settings"

3.  "Date and time"
4.  "Date"  
Or  
 "Time"
5.  for the required value
6.  to confirm



## Automatic "Summer/wintertime" changeover

The automatic changeover from Summer/wintertime is factory-set.

In this menu you can switch the changeover from Summer/wintertime on and off.

Tap the following buttons:

1. 
2.  "Settings"



3.  "Units"
4. "Time changeover"
5. Select "ON" or "OFF"
6.  to confirm

## Setting the "Language"

Your contractor will have set the display language during commissioning. You can change the language.

Tap the following buttons:

1. 
2.  "Settings"

3.  "Language"
4. Required language
5.  to confirm

## Further adjustments

### Setting "Units"

You can adjust all available units, e.g. for the temperature, date, pressure, etc.

Tap the following buttons:

1. ☰

2. ⚙️ "Settings"

3. 📏 "Units"

4. Select e.g. °C for the temperature.

5. ✓ to confirm

### Entering the contractor's contact details

You can enter your contractor's contact details. These can then be called up in the ⓘ "Information" menu.

Tap the following on-screen buttons:

1. ☰

2. ⓘ "Information"

3. 📄 "Contractor contact details"

4. Relevant entry field

5. Enter your contractor's contact details into the individual boxes.

6. ✓ to confirm

### Setting the home screen

You can choose from the following default displays as your home screen:

- "Room climate"
- "DHW"
- "Energy cockpit"
- "Favourites"
- "System overview"

Tap the following on-screen buttons:

1. ☰

2. ⚙️ "Settings"

3. 🏠 "Selecting the default display"

4. Required display

5. ✓ to confirm

#### Note

Tap on 🏠 to call up the selected home screen.

### Setting up an internet connection

You want to operate your system via your mobile device using the Home Climate app. To do so, you will need to carry out a **one-off** process to connect your heat pump to the internet and set up a connection to the server.

1. Affix the label with the QR code and the necessary access data for the access point in the space provided: See Fig. 12.

#### Note

You will find the label on the heat pump programming unit.

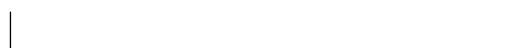
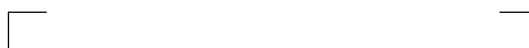


Fig. 12

## Setting up an internet connection (cont.)

2. Activate the access point at the heat pump programming unit: See chapter "Activating/deactivating access point".
3. Open the Home Climate app on your mobile device. Follow the instructions step by step.
 

First connect your mobile device directly to the heat pump access point:

  - Scan the QR code on the label above.
  - Or
  - Enter the access point name and the "WPA2" password.

**Note**  
The name of the access point ends with a **6-digit number**.

Once the connection to the access point is established, you will have direct access to your system via the Home Climate app.
4. Turn on WiFi on the heat pump: See chapter "Switching WiFi on/off".
5. To connect the heat pump to the internet and to the server via the home WiFi, carry out the subsequent steps in the Home Climate app.
  - You will need the necessary credentials for your home WiFi, e.g. your network key.
  - Your WiFi router must be connected to the internet.

**Note**  
Alternatively, the WiFi connection can be made via the heat pump programming unit: See chapter "Connecting to WiFi".
6. Once your heat pump is connected to the internet, deactivate the access point.

## Activating/deactivating access point




Activate the access point to connect your heat pump directly to a mobile device such as your smartphone.

You require the access point for the following functions and checks:

- To connect your system to the server via your home WiFi, e.g. if a new WiFi router has been installed.
- Change the password for operation via the app.
- To check the licence information of third party components: See chapter "Calling up licence information for third party components".

Tap the following buttons:

1. 

2.  "Settings"
3.  "Internet"
4.  "Access point"
5.  "ON" if you want to **activate** the access point.  
Or  
 "OFF" if you want to **deactivate** the access point.
6.  to confirm


## Switching WiFi on/off

To operate your system via the app, you require a connection to the server. For this purpose, the WiFi on the heat pump control unit must be turned on.

Tap the following buttons:

1. 

2.  "Settings"
3.  "Internet"

4.  "Wifi"
5. "WLAN"
6.  "ON" if you want to **switch on** the WiFi.  
Or  
 "OFF" if you want to **switch off** the WiFi.
7.  to confirm

## Connecting to WiFi





You want to operate your system via your mobile device using the Home Climate app. To do so you will need to carry out a **one-off** process to set up an internet connection between your system and the server.

### Setting up an internet connection (cont.)


You can set up this WiFi connection directly via the Home Climate app or via the heat pump programming unit. The connection is established via your home WiFi. Your WiFi router must be connected to the internet for this.

You will need the necessary credentials for your home WiFi, e.g. your network key.

#### Tap the following buttons:


1. First, turn on WiFi on the heat pump: See chapter "Switching WiFi on/off".
2. 
3.  "Settings"
4.  "Internet"
5.  "WLAN"
6. "Network selection"
  - Available WiFi networks are displayed.








**Note**  
If a connection already exists, "**Connected**" is shown for the relevant network.

  - If you want to use an invisible WiFi network: Tap on  and enter the name of the WiFi (SSID).

7. Select WiFi.

**Note**

Use  to refresh the list of available WiFi networks.

8.  to confirm
9. If your selected WiFi is not protected :
  -  to confirm the connection message
  - Or
  - If your selected WiFi is protected : Enter the password of the protected WiFi (maximum 63 characters).
  -  to confirm
10.  to confirm the information regarding internet use  
The default display shows .





**Note**

- If the connection was not established, an error message is shown.
- An internet connection exists if the selected WiFi is connected to the internet. Check your WiFi settings if required.

### Static IP addressing




Prerequisite: Your WiFi is configured so that the subscriber addresses in the network (IP addresses) are not automatically assigned.

#### Tap the following buttons:

1. 
2.  "Settings"
3.  "Internet"
4.  "WLAN"
5. "Network selection"
6. Available WiFi networks are displayed.

**Note**

Use  to refresh the list of available WiFi networks.

7. Select the network.
8. 
9. "STATIC" for static IP addressing
10.  to confirm
11. Enter network data:
  - IP address
  - Subnet mask
  - Standard gateway
  - Primary DNS server
  - Secondary DNS server
12.  to confirm

**Note**

An internet connection only exists if the selected WiFi is connected to the internet. Check your WiFi settings if required.

## Switching off the display screen for cleaning

If you want to clean the display screen, you can deactivate it for 30 seconds. This prevents unintentional operation.

Clean the display with a microfibre cloth.

Tap the following on-screen buttons:

1. 

2.  **"Settings"**

3.  **"Clean screen"**

The display is deactivated. A countdown begins.

## Restoring factory settings

You can reset all entries and values to their factory settings.

### Note

*If the heating or cooling circuits have been named, the assigned name is maintained: See chapter "Setting names for heating/cooling circuits".*

System setting	Settings and values that are reset
"System"	Time program for quieter operation
"DHW"	<ul style="list-style-type: none"> <li>▪ DHW temperature</li> <li>▪ Time program for DHW heating</li> <li>▪ Time program for DHW circulation pump</li> </ul>
"Heating/cooling circuit 1" "Heating/cooling circuit 2"	<ul style="list-style-type: none"> <li>▪ Reduced room temperature</li> <li>▪ Standard room temperature</li> <li>▪ Comfort room temperature</li> <li>▪ Time program for room heating</li> <li>▪ Heating curve slope and level</li> <li>▪ Comfort and energy saving functions ("<b>Extend time phase once</b>", "<b>Holidays at home</b>", "<b>Holiday program</b>") are switched off.</li> </ul>

Tap the following buttons:

1. 

2.  **"Settings"**

3.  **"Factory settings"**

4.  to confirm


## Checks

### Calling up help messages

You can call up help messages relating to the displays and functions.

Tap the following on-screen buttons:











1.  to call up the help messages.



2.  to return to the previous screen.

### Checking information

Depending on the system equipment level and the settings made, you can check current system data, e.g. temperatures.

The system data is divided into the following groups:

-  General
-  Heat pump
-  DHW
-  Heating/cooling circuit 1
-  Heating/cooling circuit 2  
etc.
-  Heating circuit 1
-  Heating circuit 2  
etc.
-  Cooling circuit 1
-  Cooling circuit 2  
etc.
-  Contractor contact details



-  Internet
-  Open source licence  
Calls up the licence for the programming unit.

#### Note

*If the heating/cooling circuits have been named, the assigned name is displayed: See chapter "Setting names for heating/cooling circuits".*

*Detailed options for checking the individual groups can be found in chapter "Menu overview".*

Tap the following buttons:

1. 
2.  "Information"
3. Required group



### Checking licence information

#### Checking licence information for the programming unit

You can call up the licence for the programming unit via the main menu.

Tap the following buttons:

1. 

2.  "Information"
3.  Open source licence

#### Checking licence information for the integral TCU communication module

To check the licence information for the third party software used, you require a WiFi-enabled mobile device, e.g. a smartphone or a PC.


Carry out the following steps:

1. Check the IP address of the communication module:
  - Via the heat pump programming unit: See chapter "Checking the IP address via the heat pump programming unit".  
Or
  - Via the configuration page of your router: For this purpose, connect your mobile device to the same WiFi network as the heat pump.

2. In your device's internet browser, enter the IP address you have obtained for the communication module.  
The required licence information is displayed.

#### Checking the IP address via the heat pump programming unit

Tap the following buttons:

1. Establish the WiFi connection: See chapter "Establishing a WiFi connection".
2. 

## Checking licence information (cont.)

### 3. ⓘ "Information"

#### 4. 🌐 Internet

### 5. "WLAN"

## Calling up licence information for third party components

1. Activate the access point on the heat pump: See chapter "Activating/deactivating access point".
2. Call up the WiFi settings on your mobile device. The access point of the heat pump is displayed in the list of available WiFi networks.

#### **Note**

*The name of the access point ends with a 6-digit number.*

3. Connect your mobile device to the displayed access point for the heat pump. A password prompt will be displayed.

4. Enter the WPA2 network key as the password for the access point.

#### **Note**

*The WPA2 network key can be found on the label: See chapter "Establishing an internet connection".*

5. With your connected mobile device, enter the IP address **10.83.83.1** in the internet browser
6. Follow the link "**Third party Components Licences**".

## Third Party Software

### 1 Overview

This product contains third party software, including open source software. You are entitled to use this third party software in compliance with the respective license conditions as provided in this document. A list of used third party software components and of license texts can be accessed by connecting your boiler, like it is mentioned in the manual.

### 2 Acknowledgements

Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>). This product includes cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)) and software written by Tim Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)).

### 3 Disclaimer

The open source software contained in this product is distributed WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. The single licenses may contain more details on a limitation of warranty or liability.

### 4 How to Obtain Source Code

The software included in this product may contain copyrighted software that is licensed under a license requiring us to provide the source code of that software, such as the GPL or LGPL. To obtain the complete corresponding source code for such copyrighted software please contact us via the contact information provided in section 5 below indicating the built number you will find in the licensing information section, which can be accessed as outlined in this document. This offer is not limited in time and valid to anyone in receipt of this information.

### Checking licence information (cont.)

#### 5 Contact Information

Viessmann Climate Solutions GmbH & Co. KG  
35108 Allendorf  
Germany  
Fax +49 64 52 70-27 80  
Phone +49 64 52 70-0  
open-source-software-support@viessmann-climatesolutions.com  
www.viessmann.de

### Screed drying

For screed drying, e.g. in a new build, your contractor can activate the **"Screed drying"** function. The screed will be dried in line with a set time program suitable for the building material (temperature/time profile).

- Room heating for all heating/cooling circuits takes place according to a set time program. Your settings for room heating/room cooling have no effect for the duration of screed drying.
- DHW heating is switched off.

#### Calling up screed drying for all heating/cooling circuits

Tap the following buttons:

1. ☰

2. ⓘ "Information"

3. "Heating/cooling circuit 1" or "Heating/cooling circuit 2"


4. "Operating program"

Screed drying lasts up to 32 days. The value displayed for **"Screed drying days"** is the number of days remaining.

### Checking fault messages

If your system has developed faults, **"Fault"** and  are displayed.

Tap the following buttons:



- ✓  
 flashes in the navigation area.

#### Note

- If you have connected a message facility to alert you to fault messages (e.g. a buzzer), this is deactivated when the fault message is acknowledged.
- If troubleshooting cannot be carried out until a later date, the fault message will be displayed again the following day at 07:00. The message facility is switched on again.


#### Calling up a fault message

Tap the following buttons:

1.  in the navigation area.  
If service messages are also present in your system, they and any further messages can be called up with  **"Faults"**, **"Service messages"**.

2. **"Faults"**

The fault messages appear in a list.

3. Tapping on  calls up information on the system's characteristics.  
Tips on measures you can take yourself **before** notifying your contractor are displayed.

4. Make a note of the fault number and the cause of the fault. For example: **F.160 "Communication error CAN bus"**.  
This enables the contractor to be better prepared and may save you unnecessary travelling costs.

5. Please notify your heating contractor.

## Checking fault messages (cont.)

6.  to acknowledge the fault.



### **Danger**

If faults are not rectified, they can have life threatening consequences.

Do not acknowledge fault messages several times in quick succession. Please notify your contractor if a fault occurs. Your contractor will be able to analyse the cause and rectify the fault.

## Checking message lists

Tap the following buttons:

1. 

2.  "Message lists"

3. If there are any corresponding messages:

- "Status"
- "Warnings"
- "Information"
- "Faults"






## Switching on and off

### Switching heating/cooling on/off

#### Switching heating/cooling off (with frost protection enabled)

You can switch off either individual heating/cooling circuits and/or DHW heating, or the entire system.

Tap the following buttons:

1. 
2.  "Switch on/off"
3.
  - If you wish to switch off the heating/cooling circuits individually:  
Tap  for "**Standby mode**".
  - If you wish to switch off DHW heating:  
Tap  for "**OFF**".
  - If you wish to switch the entire system off:  
Tap  for "**OFF**".

#### Note



- All circulation pumps connected to the control unit are briefly started every 24 hours to prevent them from seizing up.
- The diverter valves are switched over at regular intervals.

#### Switching heating/cooling on

You can switch on the heating/cooling circuits and DHW heating separately.

Tap the following buttons:

1. 
2.  "Switch on/off"

3.
  - If you wish to switch on the heating/cooling circuits individually:  
Tap  for "**Heating**", "**Cooling**" or "**Heating/cooling**".
  - If you wish to switch on DHW heating:  
Tap  for "**ON**".

#### Switching off the heat pump (shutdown)

You wish to shut down the system without frost protection monitoring.

Turn off the ON/OFF switch: See chapter "Position of the ON/OFF switch".

- No room heating
- No room cooling
- No DHW heating
- Frost protection for the heat pump and the DHW cylinder is **not** enabled.

#### ! Please note

If outside temperatures below 3 °C are expected, take appropriate measures to protect the heat pump and the heating system from frost. Contact your heating contractor.

#### Note

- As they are not being supplied with power, the circulation pumps and diverter valves may seize up.
- If your system has been shut down for a prolonged period, you must reset the "**Time**" and "**Date**": See page 41.

## Starting the heat pump

Turn on the ON/OFF switch: See chapter "Position of the ON/OFF switch".

After a short while, the home screen is shown on the display.

Your heat pump and remote control units (if available) are ready for operation.

### Note

*For technical reasons, there is a delay of several minutes when starting up the heat pump at low outside temperatures after long downtimes.*

## Position of the ON/OFF switch

### Wall mounted indoor unit

ON/OFF switch (A) is located on the underside of the indoor unit.

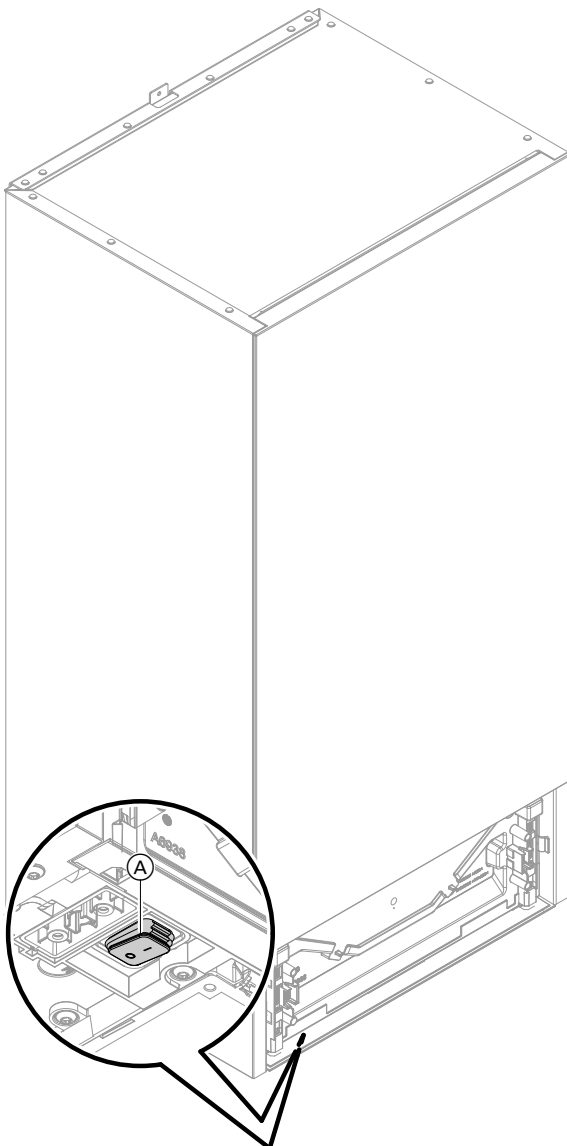


Fig. 13

### Floorstanding indoor unit with integral DHW cylinder

Depending on the installation situation of the indoor unit, your contractor has installed the ON/OFF switch at position (A) (delivered condition) or (B).

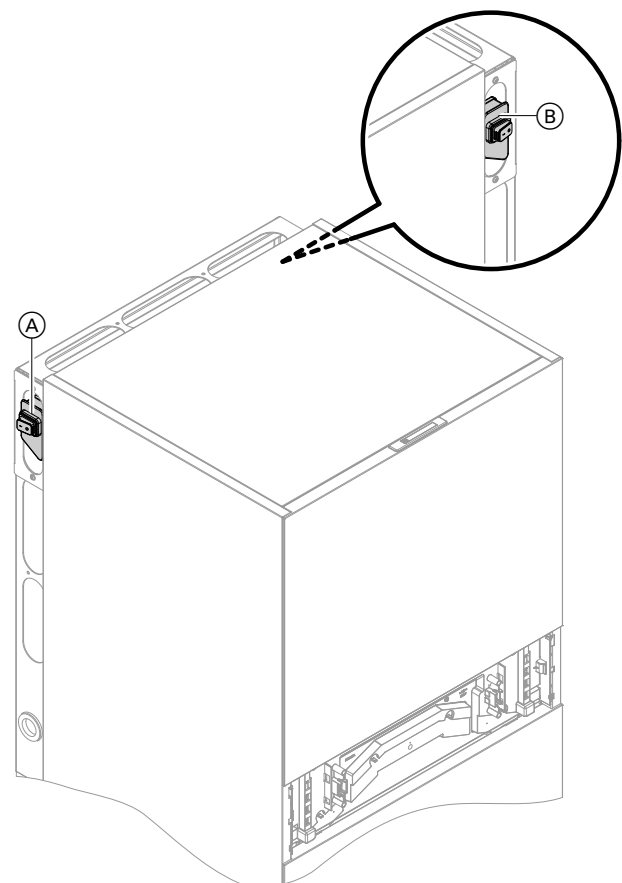


Fig. 14

## What to do if...

### Rooms are too cold

Cause	Remedy
The heat pump is switched off.	<ul style="list-style-type: none"> <li>▪ Reset the MCB in the power distribution board (main domestic MCB).</li> <li>▪ Switch ON the mains isolator (if installed, outside the boiler room).</li> <li>▪ Turn on the ON/OFF switch: See page 51.</li> </ul>
Settings have been changed or are incorrect.	<p>Switch on room heating.</p> <p>Check the settings and correct if required:</p> <ul style="list-style-type: none"> <li>▪ Operating programs: See page 23.</li> <li>▪ Room temperature: See page 30.</li> <li>▪ Time: See page 41.</li> <li>▪ Time program for room heating: See page 31.</li> <li>▪ Heating curve: See page 32.</li> <li>▪ The holiday program is switched on: See page 34.</li> </ul>
The DHW cylinder is being heated.	<ul style="list-style-type: none"> <li>▪ Wait until the DHW cylinder has been heated up.</li> <li>▪ Reduce the DHW draw-off rate or temporarily reduce the set DHW temperature if necessary.</li> </ul>
The heating water buffer cylinder is heated.	<ul style="list-style-type: none"> <li>▪ Wait until the heating water buffer cylinder has been heated up.</li> </ul>
"Status", "Warning", "Information" or "Faults" is shown on the display.	<ul style="list-style-type: none"> <li>▪ Check what type of fault it is.</li> <li>▪ Make a note of the fault message and acknowledge the fault: See page 48.</li> <li>▪ Please notify your heating contractor.</li> </ul>
"Screed drying" is switched on.	<p>No action required</p> <p>After expiry of the screed drying time, the selected operating program is switched on.</p>
Separate buffer cylinder is in "Cooling mode".	<p>Select "<b>Buffer mode</b>" in "<b>Heating mode</b>": See page 31.</p>

### Rooms are too hot

Cause	Remedy
Settings have been changed or are incorrect.	<p>Check the settings and correct if required:</p> <ul style="list-style-type: none"> <li>▪ Operating programs: See page 23.</li> <li>▪ Room temperature: See page 30.</li> <li>▪ Time: See page 41.</li> <li>▪ Time program for room heating/room cooling: See page 31.</li> <li>▪ Heating curve: See page 32.</li> <li>▪ The "<b>Holidays at home</b>" function is switched on: See page 33.</li> </ul>
"Status", "Warning", "Information" or "Faults" is shown on the display.	<ul style="list-style-type: none"> <li>▪ Check what type of fault it is.</li> <li>▪ Make a note of the fault message and acknowledge the fault: See page 48.</li> <li>▪ Please notify your heating contractor.</li> </ul>
"Screed drying" is switched on.	<p>No action required</p> <p>After expiry of the screed drying time, the selected operating program is switched on.</p>
Separate buffer cylinder is in "Heating mode".	<p>Select "<b>Buffer mode</b>" in "<b>Cooling mode</b>": See page 31.</p>

## There is no hot water

Cause	Remedy
The heat pump is switched off.	<ul style="list-style-type: none"> <li>▪ Turn on the ON/OFF switch: See page 51.</li> <li>▪ Switch on the mains isolator (outside the boiler room, if installed).</li> <li>▪ Reset the MCB in the power distribution board (main domestic MCB).</li> </ul>
Settings have been changed or are incorrect.	<p>Enable DHW heating.</p> <p>Check the settings and correct if required:</p> <ul style="list-style-type: none"> <li>▪ Operating program for DHW heating: See page 23.</li> <li>▪ DHW temperature: See page 36.</li> <li>▪ Time: See page 41.</li> <li>▪ Time program for DHW heating: See page 36.</li> <li>▪ The holiday program is switched on for all heating/cooling circuits: See page 34.</li> </ul>
"Status", "Warning", "Information" or "Faults" is shown on the display.	<ul style="list-style-type: none"> <li>▪ Check what type of fault it is.</li> <li>▪ Make a note of the fault message and acknowledge the fault: See page 48.</li> <li>▪ Please notify your heating contractor.</li> </ul>
"Screed drying" is switched on.	<p>No action required</p> <p>After expiry of the screed drying time, the selected operating program is switched on.</p>

## The DHW is too hot

Cause	Remedy
Incorrect settings	Check and correct the set DHW temperature if required: See page 36.
The hygiene function is switched on.	Wait until the hygiene function has been completed.
DHW temperature for DHW heating is set too high at your solar PV system.	Have your contractor change the setting at your solar PV system.
<p>In the following cases, for example, the DHW cylinder is heated to a higher temperature than the set temperature value:</p> <ul style="list-style-type: none"> <li>▪ Excess power is available from the photovoltaic system and is being used for DHW heating: See Terminology "Self-consumption" on page 60.</li> <li>▪ In connection with Smart Grid, excess power is available and is being used by your heat pump for DHW heating: See Terminology "Smart Grid" on page 65.</li> </ul>	Have your contractor change the setting if necessary.

## "Warning" is displayed

Cause	Remedy
Warning due to a specific event or operating state of the heat pump or heating system	Proceed as described on page 49.

## "Fault" is displayed

Cause	Remedy
Heat pump or heating system fault	Proceed as described on page 48.

What to do if...

### "External hook-up" is displayed

Cause	Remedy
The operating program set on the programming unit has been changed over by an external device.	No action required

### "Panel locked" is displayed

Cause	Remedy
The control panel is locked.	Unlock it: See page 40.

## Cleaning

Clean the surface of the programming unit with a microfibre cloth.



### Danger

The sharp edges of the heat exchanger (evaporator) fins can cause cut injuries.

Do not touch the fins on the back of the outdoor unit.



### Danger

The hot or cold fins of the heat exchanger (evaporator) can cause burn or frostbite injuries.

Do not touch the fins on the back of the outdoor unit.



### Please note

Commercially available domestic cleaning agents and special cleaning agents for the heat exchanger (evaporator) can damage the indoor and outdoor units.

- Clean the appliance surfaces only with a damp cloth.
- If necessary, clean the heat exchanger (evaporator) fins on the back of the outdoor unit only with a hand brush with long bristles.



### Please note

Commercially available cleaning agents can damage the surface of the external casing.

- Use only mild water-based domestic cleaning agents.
- Do **not** use substances containing acids or solvents, such as vinegar-based cleaners, nitro or synthetic resin solutions, nail varnish remover, ethyl alcohol, etc.



### Please note

Mechanical impact will scratch the surface of the external casing.

- Wipe the surface with a soft damp cloth only.
- Do **not** use substances that contain abrasive particles such as polishes, scouring agents, dirt erasers or scouring pads.
- Do **not** clean the external casing with a pressure washer.

## Inspection and maintenance

The inspection and maintenance of a heating system is prescribed by the German Buildings Energy Act and the DIN 4755, DVGW-TRGI 2018, DIN 1988-8 and EN 806 standards.

Regular maintenance ensures trouble-free, energy efficient, environmentally responsible and secure heating and cooling operation. For this, it is best to arrange an inspection and maintenance contract with your local contractor.

### Note

*Your outdoor unit contains highly flammable refrigerant of safety group A3. To ensure operational reliability over the entire service life of the heat pump, there are special requirements for inspection and maintenance. A special test of safety equipment is required after 12 years. Please contact your contractor.*

## DHW cylinder

Standard EN 806-5 specifies that maintenance and cleaning should be carried out no later than 2 years after commissioning and as required thereafter. Only a qualified contractor should clean the inside of the DHW cylinder and the DHW connections.

If any water treatment equipment (e.g. a sluice or injection system) is installed in the cold water supply of the DHW cylinder, ensure this is refilled in good time. For this, observe the manufacturer's instructions.

## Safety valve (DHW cylinder)

The function of the safety valve must be checked every six months by the user or a contractor through venting (see valve manufacturer's instructions). The valve seat may become contaminated.

Water may drip from the safety valve during a heat-up process. The outlet is open to the atmosphere.



### Please note

Overpressure can cause damage. Do not close the safety valve.

### Inspection and maintenance (cont.)

#### Potable water filter (if installed)

To maintain high hygienic standards, proceed as follows:


- Replace filter element on non-back flushing filters every six months (visual inspection every two months).
- On back flushing filters, back flush every two months.

#### Damaged cables / lines

If there is damage to the connecting cables or lines of the appliance or installed accessories, these must be replaced with original cables or lines from the manufacturer. Notify your contractor about this.






## Overview of "Main menu"

### Note



Not all of the displays and checks listed may be available under , depending on the features of your system.









### Switch on/off

-  Buffer mode
-  Heating/cooling circuit 1
-  Heating/cooling circuit 2
-  DHW
-  Entire system







### Buffer mode

-  Heating
-  Cooling

### Room climate

-  Heating/cooling circuit 1
  -  Set room temperatures
  -  Time program
  -  Heating curve
- Additional heating/cooling circuits , ...
  - As for  Heating/cooling circuit 1

### DHW

-  Set DHW temperature
-  Time program DHW
-  Time program DHW circulation
-  Hygiene function
-  Scald protection ON/OFF
-  Mode of DHW heating

## Overview of "Main menu" (cont.)

### ⚙️ Settings

🗨️ Language
📅 Date and time
🖥️ Display setting
🔄 Rename heating/cooling circuits
⚙️ Factory settings
📶 Low power radio on/off
🌐 Internet
🧼 Clean screen
📏 Units
🔒 Disable operation
🔑 Change password
🏠 Selecting the default display

### ℹ️ Information


ℹ️ General
System pressure
Outside temperature
Primary circuit pump
Temp. low loss header/buffer cylinder
Thermal output
Screed drying
4/3-way valve position
Central fault message
Time
Date
Altitude
OEM product version
Refrigerant circuit status
Refrigerant circuit start
Operating hours refrigeration circuit
🔌 Heat pump
Flow temperature
Flow sensor
Emergency mode
Electric booster heater
Low-noise mode:
▪ Setting
▪ Time program
Smart Grid
Grid-Lock/Power-OFF
External blocking

## Overview of "Main menu" (cont.)


 Information	
---	--


 DHW	
---	--

Time program DHW
Time program DHW circulation
DHW temperature
Mode of DHW heating
DHW circulation pump
Cylinder loading pump
Circulation pump for cylinder heating
Actuator for DHW heating

 Heating/cooling circuit 1	
---	--

Operating program
Operating status
Time program
Room temperature
Reduced room temperature setpoint
Normal room temperature setpoint
Set comfort temperature
Heating curve slope
Heating curve level
Flow temperature
Holiday program
Holidays at home

Additional heating/cooling circuits  *, ...	
--	--

 Contractor contact details	
--	--

 Internet	
--	--

ViCloud (server)
WLAN
Access point

<input type="checkbox"/> Open source licence	
--	--

 Holiday program	
---	--

<b>Note</b>	
-------------	--

<i>This can be selected only if "<b>Apartment building</b>" was selected during commissioning and multiple heating/cooling circuits are installed.</i>	
--	--

Select all	
------------	--

Heating/cooling circuit 1	
---------------------------	--

Heating/cooling circuit 2	
---------------------------	--

etc.	
------	--

## Overview of "Main menu" (cont.)

### Holidays at home

#### Note

This can be selected only if "**Apartment building**" was selected during commissioning and multiple heating/cooling circuits are installed.

Select all

Heating/cooling circuit 1


Heating/cooling circuit 2

etc.

### Message lists

### Service

### Extended menu

 Low-noise mode

 Emergency mode

## Terminology

### Defrosting

Ice can form on the evaporator during the operation of air source heat pumps.

To remove this ice, the evaporator is automatically defrosted.

During defrosting, the heat pump is not available for room heating/room cooling or DHW heating.

Water vapour can rise from the heat pump during defrosting.

### System version

The system version describes the components of your system, such as heat pump, heating circuit pump, mixer, valves, control unit, radiators, etc.

Your contractor will adjust the system to the local conditions and customise it to suit your requirements.

### Self-consumption

With self-consumption, the power generated by the photovoltaic system is used to operate the heat pump and other components in the heating system.

Your contractor has connected an electricity meter (energy meter) to the heat pump control unit for self-consumption. It supplies the heat pump control unit with information about whether and how much power is available from the photovoltaic system.

#### Display on energy meter

##### ■ Energy drawn from the public grid:

The energy meter shows the output with a minus sign in front of it:



Fig. 15

#### Note

Up to 3 fault bars are displayed on the energy meter. This does not affect the function of the heat pump control unit.

##### ■ Energy exported to the public grid:

The energy meter shows the output without a minus sign in front of it.

## Terminology (cont.)

### Functions for self-consumption

Enable one or more functions for self-consumption. The functions that can be used depend on the appliance type.

If you enable several functions for self-consumption, the functions for DHW heating will have priority over the functions for room heating.

To utilise self-generated power, you can raise the set temperature for some functions or lower it for cooling.

#### Example: self-consumption for DHW heating

If sufficient power from the photovoltaic system is available, the heat pump will be operated for DHW heating using this power.

In the time program you have set the time phases during which DHW heating is enabled. In order to use as much of the power generated by the photovoltaic system as possible, DHW heating may also be switched on outside the set time phases.

In order to make more effective use of self-generated power, set an increase for the DHW temperature.

- Standard DHW temperature: 50 °C
- Increase in DHW temperature with self-consumption: 10 K (10 Kelvin)

The DHW is heated to 60 °C. If DHW consumption remains the same, the next DHW heating period using power from the grid is postponed until later.

---

### Electric booster heater

If the required room temperature or DHW temperature cannot be achieved with the heat pump alone, an electric booster heater, e.g. an instantaneous heating water heater, can be activated.

#### Note

*Constant operation of an electric booster heater results in high electricity consumption.*

---

### Power-OFF and output restriction

Your power supply utility can block the power supply to the heat pump or limit the electrical power consumption at times of high electricity demand.

The full heating output of your heat pump is available as soon as the power supply utility re-enables the power supply.

- Power-OFF is active: "**Grid-Lock active**" is shown on the display. The system is supplied with heat via the separate buffer cylinder or the instantaneous heating water heater, depending on the existing system components and settings.

#### Note

*Your contractor must enable operation of the instantaneous heating water heater during power-OFF periods.*

Cooling mode is switched off during the power-OFF period.

- Output restriction is active: The status message **S.427** is displayed in the message list. The system is supplied via the heat pump and/or the instantaneous heating water heater, with reduced heating output if necessary.

#### Note

*Display message lists: See chapter "Checking message lists".*

---

### Underfloor heating

Underfloor heating systems are slow, low temperature heating systems that respond only very slowly to short term temperature changes.

Heating with reduced room temperature at night or during short absences, therefore, does not result in any significant energy savings.

---

### Low-noise mode

Fans and compressors in the outdoor unit create operational noise when running air source heat pumps.

**Terminology** (cont.)

In quieter operation, the speed of fans and, where relevant, compressors is reduced so that operating noise is lower. You set the start and end times of quieter operation, such as night-times, through the time program.

**Note**

*The reduced fan and compressor speeds may mean that less heating output is available.*

**Heating mode**

In heating mode, the flow temperature of the heat pump in relation to the outside temperature is regulated so that the room temperature that you have set is achieved: See "Heating curve". The outside temperature is captured and transmitted to the heat pump control unit by a sensor fitted outside the building.

**Standard heating mode or comfort heating mode**

For periods when you will be at home, heat your rooms to the standard room temperature or the comfort room temperature. Set the periods (time phases) using the time program for central heating/cooling.

**Reduced heating mode**

For periods when you will be absent or during the night, heat your rooms to the reduced room temperature. Set the periods using the time program for central heating/cooling. With underfloor heating systems, reduced heating mode only yields limited energy savings: See "Underfloor heating".

**Heating curve**

Heating curves illustrate the relationship between the outside temperature, the set room temperature and the flow temperature. The lower the outside temperature, the higher the flow temperature. In order to guarantee sufficient heat with minimum energy consumption at any outside temperature, the conditions of your building and system must be taken into consideration. The heating curve is adjusted by your contractor for this purpose.

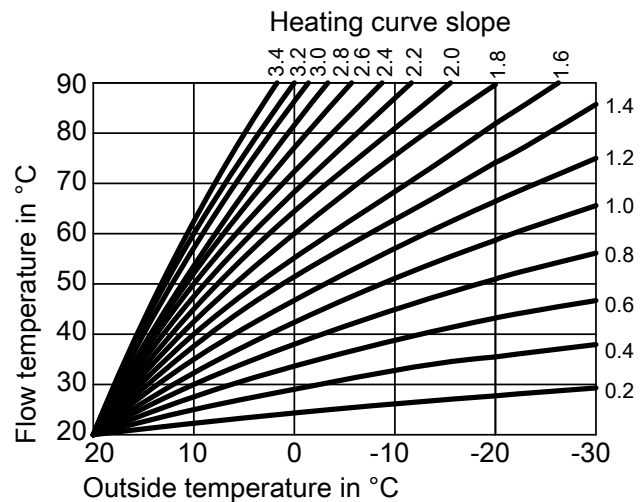


Fig. 16

**Setting the slope and level, taking the heating curve as an example**

Factory settings:

- Slope = 1.4
- Level = 0

The heating curves shown apply with the following settings:

- Heating curve level = 0
- Standard room temperature (set room temperature) = 20 °C

## Terminology (cont.)

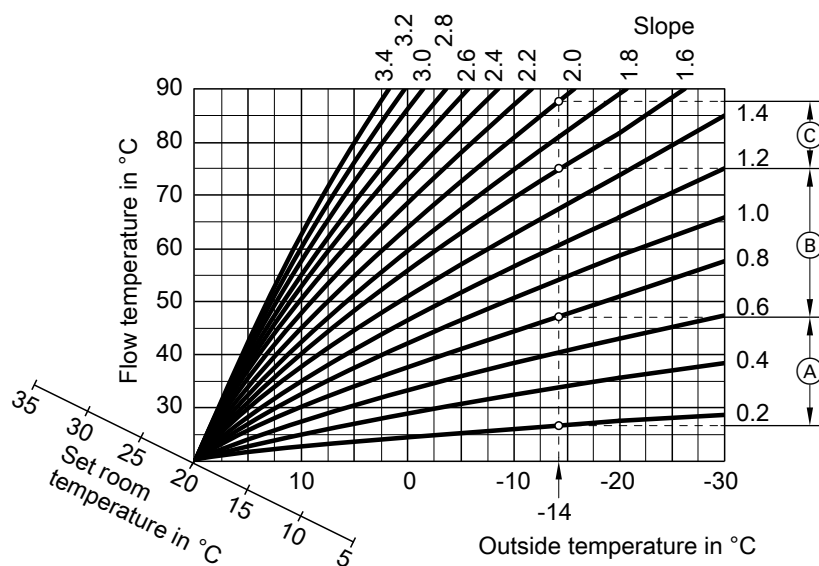


Fig. 17

For an outside temperature of  $-14\text{ }^{\circ}\text{C}$ :

- (A) Underfloor heating system: Slope 0.2 to 0.8
- (B) Low temperature heating system: Slope 0.8 to 1.6
- (C) System with a flow temperature in excess of  $75\text{ }^{\circ}\text{C}$ , slope 1.6 to 2.0

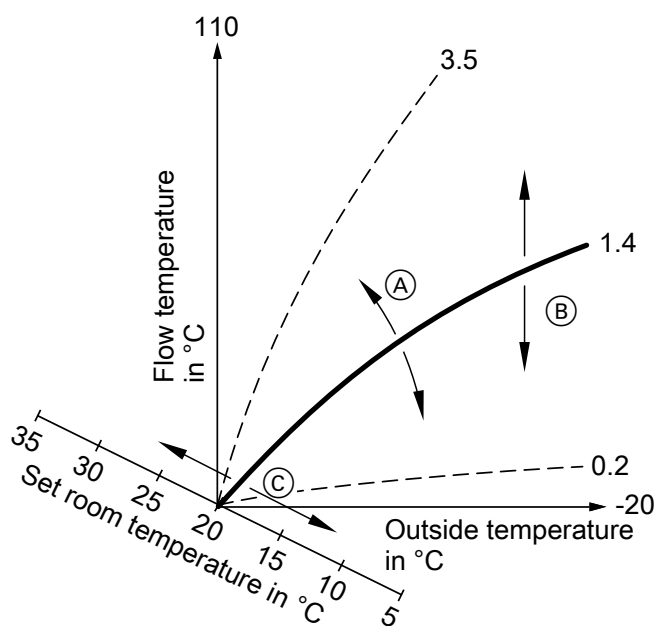


Fig. 18

- (A) If you change the slope:  
The steepness of the heating curves changes.
- (B) If you change the level:  
The heating curves are shifted in parallel in a vertical direction.
- (C) If you change the standard room temperature (set room temperature):  
The heating curves are shifted along the "Set room temperature" axis.

**Note**

Setting the slope or level too high or too low will not cause any damage to your heating system. Both settings affect the level of the flow temperature, which may then be too low or unnecessarily high.

## Heating/cooling circuits

A heating circuit or cooling circuit is a sealed unvented circuit between the consumers (e.g. underfloor heating system), in which the heating water or coolant circulates. With several heating circuits and cooling circuits, the residential units in a building can be supplied separately, e.g. one heating circuit for your apartment and one heating circuit for a separate apartment. If different types of consumers (e.g. underfloor heating and radiators) are installed in a residential unit or building, these consumers are normally connected to different heating or cooling circuits.

### Note

*It is not possible to provide room cooling via radiators.*

Different flow temperatures are possible simultaneously for the different heating/cooling circuits.

## Heating circuit pump

Circulation pump for the circulation of the heating water in the heating/cooling circuit.

## Instantaneous heating water heater

The instantaneous heating water heater is an electric booster heater built into the indoor unit. If the required room temperature or DHW temperature cannot be achieved with the heat pump alone, the instantaneous heating water heater can be activated automatically.

### Note

*Constant operation of an electric booster heater results in high electricity consumption.*

## Heating water buffer cylinder with integral DHW heating

Buffer cylinder for storing heating water with integral indirect coil for heating DHW.

See also "Buffer cylinder".

## Hygiene function (increased DHW hygiene)

This function improves the microbiological quality of the DHW by heating it to a higher temperature for a short period.

## Cooling mode

In cooling mode, the flow temperature of the heat pump is adjusted in relation to the type of heating/cooling circuit, regardless of the outside temperature. Where cooling is provided via underfloor heating circuits, the flow temperatures required are different from those for cooling via a fan convector.

Cooling is switched on and off such that the room temperature that you set is achieved.

## Heating/cooling circuits

### ■ Heating circuit

A heating circuit heats your rooms, e.g. via the radiators.

### ■ Heating/cooling circuit

A heating/cooling circuit heats your rooms in winter and cools them in summer, e.g. via an underfloor heating system.

## Designations for heating/cooling circuits

The heating/cooling circuits are designated "**Heating circuit 1**", "**Heating circuit 2**" etc. at the factory. If you or your qualified contractor have renamed the heating/cooling circuits, e.g. as "Apartment", that name will be displayed instead of "**Heating circuit ...**".

## Terminology (cont.)

### Cooling circuit

See "Heating/cooling circuits".

---

### Mixer

Hot heating water from the heat generator is mixed with cooled heating water from the heating circuit. The heating water, thus brought to the required temperature, is pumped to the heating circuit by the heating circuit pump. To ensure the required set room temperature is achieved, the control unit adjusts the flow temperature via the mixer to suit different conditions.

---

### Buffer cylinder

A buffer cylinder stores a large quantity of heating water or coolant. This allows the heating/cooling circuits to be supplied over a longer period without the heat pump needing to start up, e.g. during power-OFF.

Due to the large buffer volume, the heat pump continues to operate to heat or cool the buffer cylinder for longer than it would if there were no buffer cylinder. Infrequent starting of the heat pump and long runtimes ensure long and efficient operation.

---

### Room temperature

- Standard room temperature or comfort room temperature:  
Set the standard room temperature or comfort room temperature for periods when you are at home during the day.
- Reduced room temperature:  
For periods when you will be absent or during the night, set the reduced room temperature: See "Room heating/room cooling".

---

### Return temperature

The return temperature is the temperature at which the heating water or coolant leaves a system component such as a heating circuit.

---

### Safety valve

Safety equipment that must be installed in the cold water pipe by your contractor. The safety valve opens automatically to prevent excess pressure in the DHW cylinder.

The heating circuits are also equipped with safety valves.

---

### Smart Grid (SG)

To enable you to use Smart Grid, your contractor has connected the heat pump control unit to the mains supply via two switching contacts. The power supply utility can use these switching contacts to match operation of the heat pump to the current grid utilisation level.

## Terminology (cont.)

The following 4 options for grid utilisation are taken into account:

1. Not a lot of power in the grid (grid overload):  
If there is little electricity available, the power supply utility can block the heat pump or limit the electrical power consumption, depending on how your heat pump is connected and configured. For this, consult your contractor.
  - Power-OFF active:  
Room heating is provided by the buffer cylinder. If there is no buffer cylinder installed or its temperature is too low, the rooms will be heated only by the instantaneous heating water heater.  
**Note on the instantaneous heating water heater**  
*Your contractor must enable operation of the instantaneous heating water heater during power-OFF periods.*
  - Output restriction active:  
By limiting the electrical power consumption, reduced heating output of the heat pump may be available.  
The heat pump restarts automatically with the previously set operating program as soon as the power supply utility restores the power supply.
2. No excess power, normal grid utilisation:  
The heat pump is operated with your settings.
3. Small amount of excess power:  
If a time phase is active in the time program, the heat pump is started. Additional energy is stored in your system. For this purpose, your contractor may have increased (or reduced, for cooling) the set temperature values for the following functions:
  - DHW heating
  - Buffer cylinder heating
  - Central heating
  - Room cooling
4. Large amount of excess power:  
The power supply utility starts the heat pump immediately, even if **no** time phase is active in the time program. System components are heated to the max. possible temperatures or cooled to the min. possible temperatures. As much energy as possible is stored in your system.

### **Note on operation with small and large amounts of surplus power**

*The electric power consumption of the heat pump is not taken into account when calculating the seasonal performance factor.*

### **Example: Utilisation of excess power for DHW heating**

#### **Small amount of surplus power**

The heat pump is operated with excess power from the power supply utility to heat DHW to the increased set DHW temperature.

In the time program you have set the time phases during which DHW heating is enabled. The power supply utility may start DHW heating, even outside the set time phases.

To utilise even more surplus power for DHW heating, the standard DHW temperature can be increased. Your contractor can set the value for this temperature increase.

- Standard DHW temperature:  
50 °C
- Increase in DHW temperature (set by your contractor):  
10 K (10 Kelvin)

The DHW is heated to 60 °C. If DHW consumption remains the same, the next DHW heating period is postponed.

#### **Large amount of surplus power**

DHW heating is started immediately, regardless of your settings in the time program.

The DHW will be heated to the maximum possible temperature. This temperature has been set by your contractor.

- Standard DHW temperature:  
50 °C
- Max. temperature of your DHW cylinder (set by your contractor):  
65 °C

The DHW is heated to 65 °C. If DHW consumption remains the same, the next DHW heating period is postponed until later.

#### **Note**

*If scald protection is enabled, the DHW is heated to a maximum of 60 °C, even if the Smart Grid settings specify a higher DHW temperature.*

#### **Note**

*If you have enabled several functions for Smart Grid, the functions for DHW heating will have priority over the functions for room heating.*

## Set temperature

Specific temperature that should be reached, e.g. set DHW temperature for example.

## Terminology (cont.)

### Drinking water filter

A device that removes solids from the drinking water. The drinking water filter is built into the cold water pipework to the DHW cylinder.

### Evaporator

The evaporator is a heat exchanger that transfers thermal energy from the outdoor air to the heat pump. In this process, cooling of the supplied air can cause water to condense. This condensate can freeze on the evaporator, which has a negative effect on heat transfer.

To remove this ice, the evaporator is automatically defrosted. In the process, steam may be visibly released from the outdoor unit.

### Compressor

The compressor is the central component of the heat pump. The compressor raises the refrigerant to the temperature level required for the heating mode.

Depending on the energy required in the building, the speed of the compressor will be adjusted to the output required.

### Condenser

The condenser is a heat exchanger that transfers thermal energy from the heat pump to the system.

### Flow temperature

The flow temperature is the temperature at which the heating water or coolant enters a system component such as a heating/cooling circuit.

### Time program

In the time programs you determine what your heating system should do at what time.

For example, the operating statuses for room heating have different temperature levels. The times for the operating status changeover are defined when the time program is set.

### Operating status

The operating status indicates how a component in your system is being operated.

### DHW circulation pump

The DHW circulation pump transports the DHW around a loop line between the DHW cylinder and the draw-off points (e.g. hot tap). This ensures that hot water is rapidly available at the draw-off points.

## Required information about energy efficiency

The required information about energy efficiency according to the EU Directive on the environmentally sound design of energy related products can be found at [ecodesign.toshiba-airconditioning.eu](http://ecodesign.toshiba-airconditioning.eu).

## Instructions for disposal

### Disposal of the packaging

Your contractor will dispose of the packaging from your product.

---

### Final decommissioning and disposal of the heating system

This product can be recycled. Components and operating fluids from your heating system do not belong in ordinary domestic waste.

Please speak to your contractor about the correct disposal of your old system.

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## Certification

**RoHS**  
compliant  
2011 / 65 / EU

## Your contact

Contact your local contractor if you have any questions about your system or wish to arrange maintenance or repair work.

Manufacturer:  
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