



[9.3] Backup heater

To connect the backup heater kit power supply

**CAUTION**

To guarantee the unit is completely earthed, ALWAYS connect the backup heater power supply and the earth cable.

**WARNING**

The backup heater MUST have a dedicated power supply and MUST be protected by the safety devices required by the applicable legislation.

Depending on the configuration (wiring on X14M, and settings in [9.3] **Backup heater**), the backup heater capacity can vary. Make sure that the power supply is in accordance with the backup heater capacity, as listed in the table below.

Backup heater type	Backup heater capacity	Power supply	Maximum running current	$Z_{\max}(\Omega)$
*6W	3 kW	1N~ 230 V	13 A	—
	6 kW	1N~ 230 V	26 A ^{(a)(b)}	—
	6 kW	3N~ 400 V	8.6 A	—
	9 kW	3N~ 400 V	13 A	—

^(a) This equipment complies with EN/IEC 61000-3-11 (European/International Technical Standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤ 75 A) provided that the system impedance Z_{sys} is less than or equal to $Z_{\max}$ at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a system impedance Z_{sys} less than or equal to $Z_{\max}$.

^(b) Electrical equipment complying with EN/IEC 61000-3-12 (European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase).

- 1 Connect the backup heater power supply. A 4-pole fuse is used for F1B.
- 2 If required, modify the connection on terminal X14M.

Capacity – Power supply	F1B	X14M
3 kW 1N~ 230 V 6 kW 1N~ 230 V		
6 kW 3N~ 400 V 9 kW 3N~ 400 V		

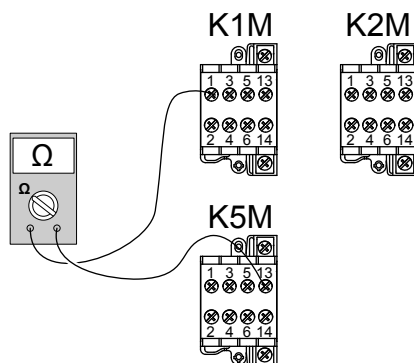
3 Fix the cable with cable ties to the cable tie mountings.

During connection of the backup heater, miswiring is possible. To detect possible miswiring, it is highly recommended to measure the resistance value of the heater elements. Depending on the capacity and power supply, following resistance values (see table below) should be measured. ALWAYS measure the resistance on the contactor clamps K1M, K2M, and K5M.

		3 kW 1N~ 230 V	6 kW 1N~ 230 V	6 kW 3N~ 400 V	9 kW 3N~ 400 V
K1M/1	K5M/13	52.9Ω	52.9Ω	∞	∞
	K1M/3	∞	105.8Ω	105.8Ω	105.8Ω
	K1M/5	∞	158.7Ω	105.8Ω	105.8Ω
K1M/3	K1M/5	26.5Ω	52.9Ω	105.8Ω	105.8Ω

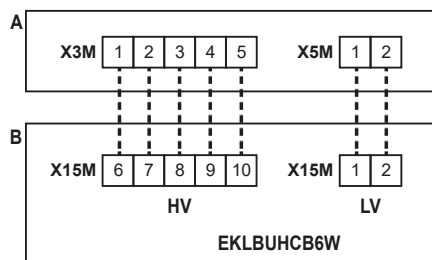
		3 kW 1N~ 230 V	6 kW 1N~ 230 V	6 kW 3N~ 400 V	9 kW 3N~ 400 V
K2M/1	K5M/13	∞	26.5Ω	∞	∞
	K2M/3	∞	∞	52.9Ω	52.9Ω
	K2M/5	∞	∞	52.9Ω	52.9Ω
K2M/3	K2M/5	52.9Ω	52.9Ω	52.9Ω	52.9Ω
K1M/5	K2M/1	∞	132.3Ω	∞	∞

Example measure resistance between K1M/1 and K5M/13:



To connect the backup heater kit to the outdoor unit

The wiring between the backup heater kit and the outdoor unit is as follows:



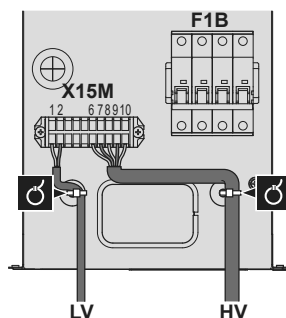
- A** Outdoor unit
- B** Backup heater kit
- HV** High voltage connections (backup heater thermal protector + backup heater connection)
- LV** Low voltage connection (backup heater thermistor)



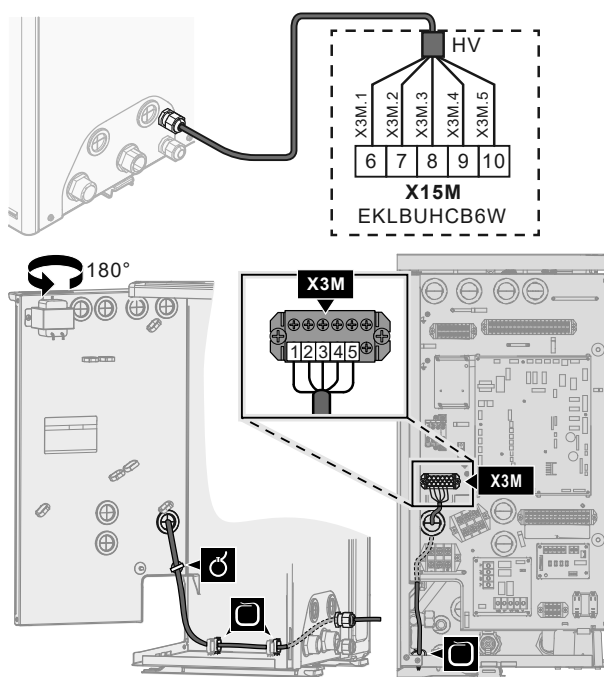
NOTICE

The distance between the high voltage and low voltage cables should be at least 50 mm.

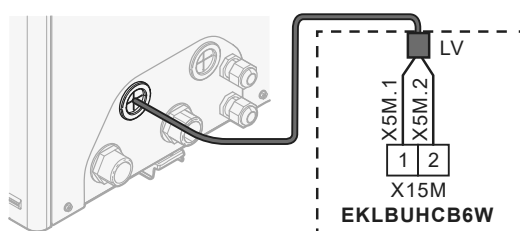
- 1** On the backup heater kit, connect the LV and HV cables to the appropriate terminals as shown in the illustration below.

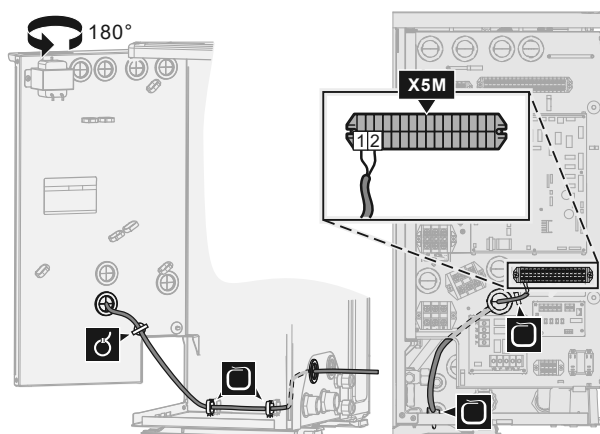


- 2 On the outdoor unit, connect the HV cable to the appropriate terminals as shown in the illustration below.



- 3 On the outdoor unit, connect the LV cable to the appropriate terminals as shown in the illustration below.

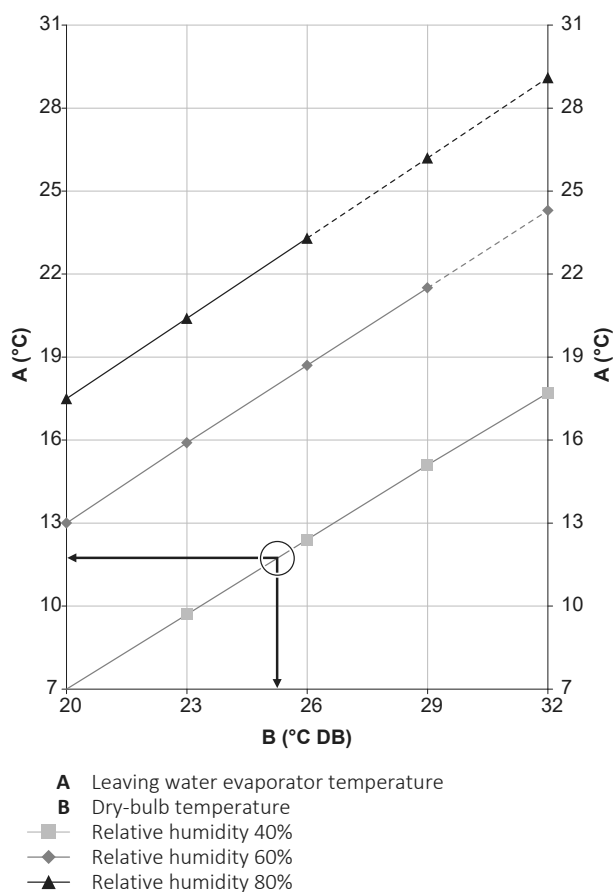




- 4 Fix the cables with cable ties to the cable tie mountings.

Bypass valve kit necessity

For reversible systems (heating+cooling) in which an external backup heater kit is installed, the installation of valve kit EKMBHBP1 is required if condensation is expected inside the backup heater.



Example: Given are an ambient temperature of 25°C and a relative humidity of 40%. If the leaving water evaporator temperature is <12°C, condensation will occur.

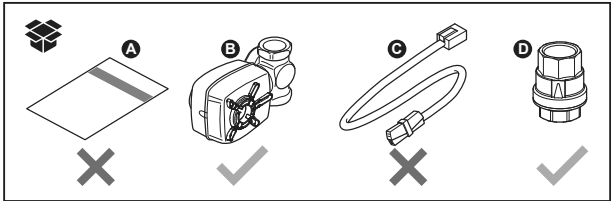
Note: See the psychrometric chart for more information.

To connect the bypass valve kit

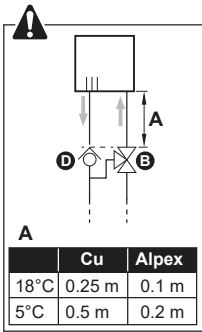
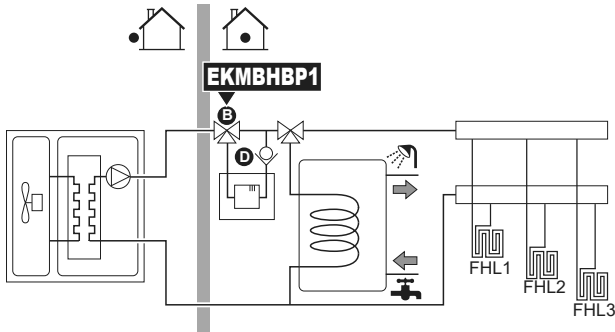
The information in this topic supersedes that of the instruction sheet delivered with the bypass valve kit.

	Wires: 3×0.75 mm ²
	—

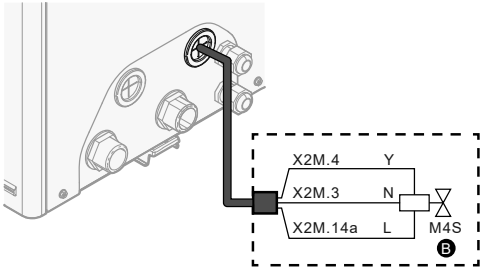
The components of the bypass valve kit are as follows. You only need **B** and **D**.

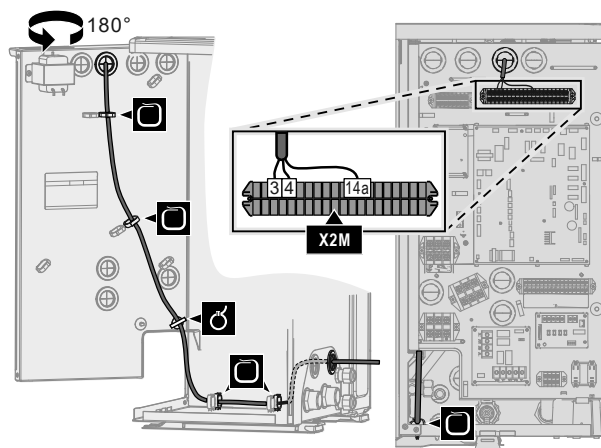


- 1 Integrate components **B** and **D** as follows in the system:



- 2 On the outdoor unit, connect **B** to the appropriate terminals as shown in the illustration below.





- 3 Fix the cable with cable ties to the cable tie mountings.

9.2.5 To connect the user interface

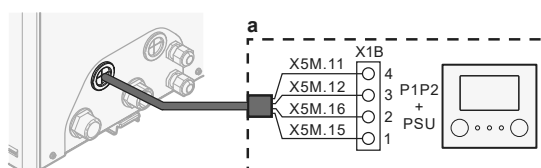
This topic describes the following:

- Connecting the user interface cable to the outdoor unit.
- Installing the user interface, and connecting the user interface cable to it.
- (if necessary) Opening the user interface after it is installed.

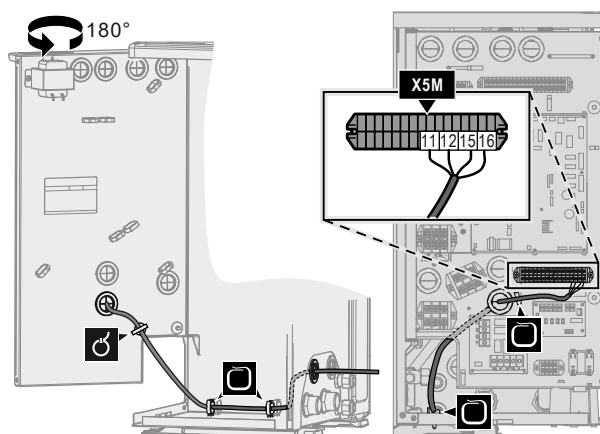
Connecting the user interface cable to the outdoor unit

	Wires: 4×(0.75~1.25 mm ²) Maximum length: 200 m
	[2.9] Control [1.6] Room sensor offset

- 1 Access the electrical connections. See "9.2.1 To connect the electrical wiring to the outdoor unit" [► 95].
- 2 Connect the user interface cable to the outdoor unit. Fix the cable with cable ties to the cable tie mountings.

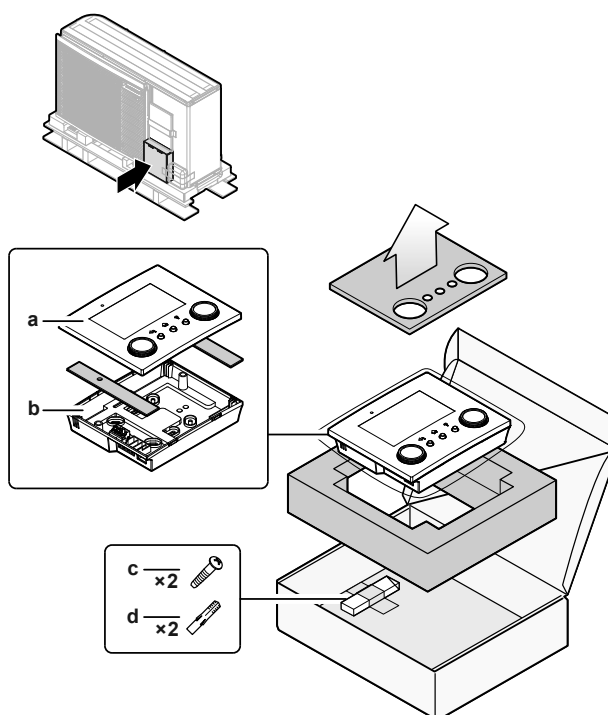


- a User interface: Required for operation. Delivered with the unit as accessory.



Installing the user interface, and connecting the user interface cable to it

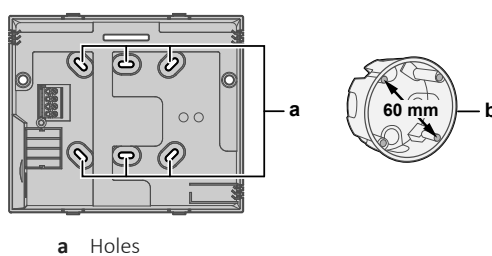
You need the following user interface accessories (delivered on top of the unit):



- a Front plate
- b Rear plate
- c Screws
- d Wall plugs

1 Mount the rear plate to the wall.

- Use the 2 screws and wall plugs.
- Use any of the 6 holes. The holes are compatible with standard electrical box extenders of 60 mm.

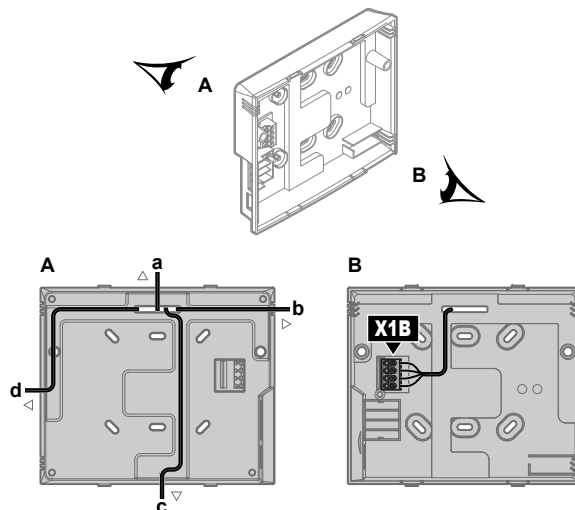


- a Holes

b Electrical box extender (field supply)

2 Connect the user interface cable to the user interface.

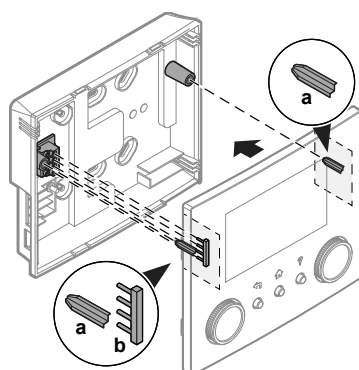
- Choose one of the 4 possible wiring intakes (**a**, **b**, **c** or **d**).
- If you choose the left or right side, make a hole for the cable in the part of the casing where the casing is thinner.



- a** Top side
- b** Left side
- c** Bottom side
- d** Right side

3 Mount the front plate.

- Align the positioning pins and push the front plate onto the rear plate until it moves into place with a click.
- The connector pins are automatically inserted correctly.

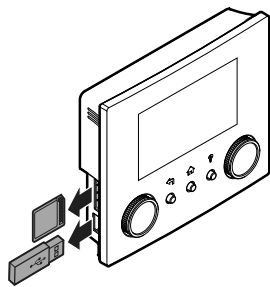


- a** Positioning pins
- b** Connector pins

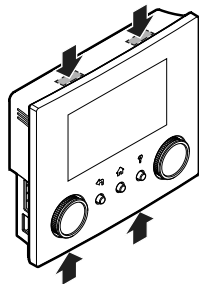
Opening the user interface after it is installed

If you need to open the user interface after it is installed, proceed as follows:

- 1** Remove the WLAN cartridge and USB memory stick (if any).



- 2 Push the rear plate on each of the 4 spots where the snap-fits are located.



9.2.6 To connect the shut-off valve

INFORMATION

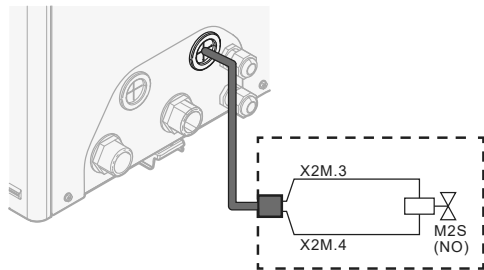
Shut-off valve usage example. In case of one LWT zone, and a combination of underfloor heating and heat pump convectors, install a shut-off valve before the underfloor heating to prevent condensation on the floor during cooling operation.

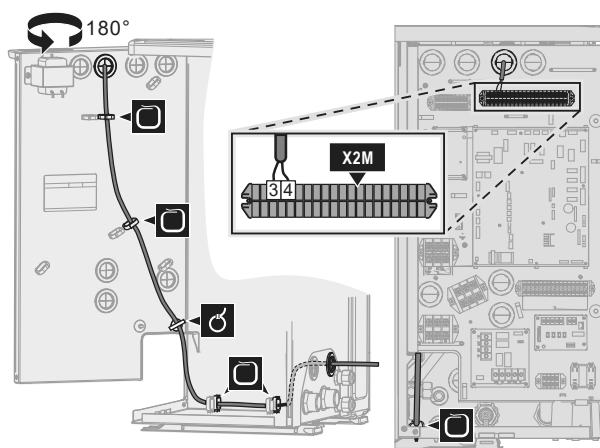
	Wires: 2×0.75 mm ² Maximum running current: 100 mA 230 V AC supplied by PCB
	—

- 1 Access the electrical connections. See "9.2.1 To connect the electrical wiring to the outdoor unit" [► 95].
- 2 Connect the valve control cable to the appropriate terminals as shown in the illustration below.

NOTICE

Only connect NO (normally open) valves.





- 3 Fix the cable with cable ties to the cable tie mountings.

9.2.7 To connect the electricity meters

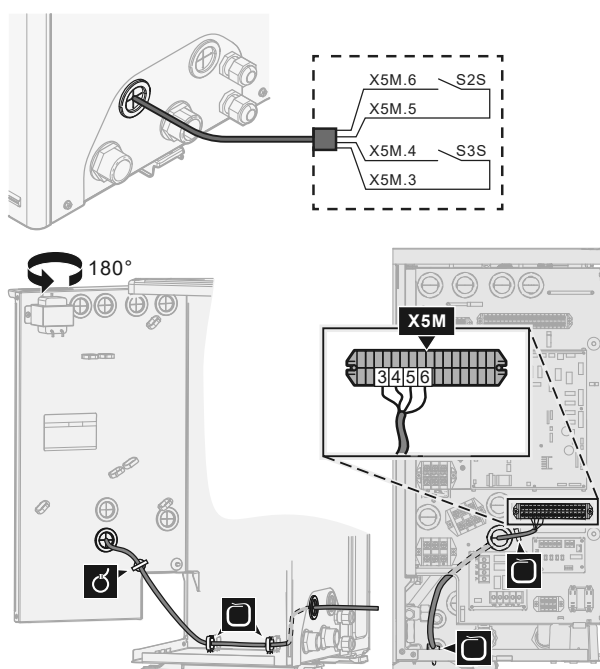
	Wires: 2 (per meter)×0.75 mm ² Electricity meters: 12 V DC pulse detection (voltage supplied by PCB)
	[9.A] Energy metering



INFORMATION

In case of an electricity meter with transistor output, check the polarity. The positive polarity MUST be connected to X5M/6 and X5M/4; the negative polarity to X5M/5 and X5M/3.

- 1 Access the electrical connections. See "9.2.1 To connect the electrical wiring to the outdoor unit" [► 95].
- 2 Connect the electricity meters cable to the appropriate terminals as shown in the illustration below.

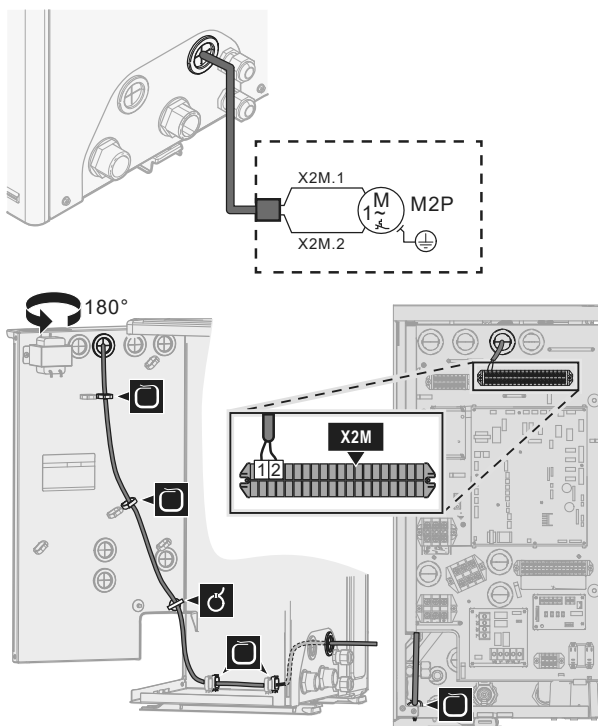


- 3 Fix the cable with cable ties to the cable tie mountings.

9.2.8 To connect the domestic hot water pump

	Wires: (2+GND)×0.75 mm ² DHW pump output. Maximum load: 2 A (inrush), 230 V AC, 1 A (continuous)
	[9.2.2] DHW pump [9.2.3] DHW pump schedule

- 1 Access the electrical connections. See "9.2.1 To connect the electrical wiring to the outdoor unit" [► 95].
- 2 Connect the domestic hot water pump cable to the appropriate terminals as shown in the illustration below.



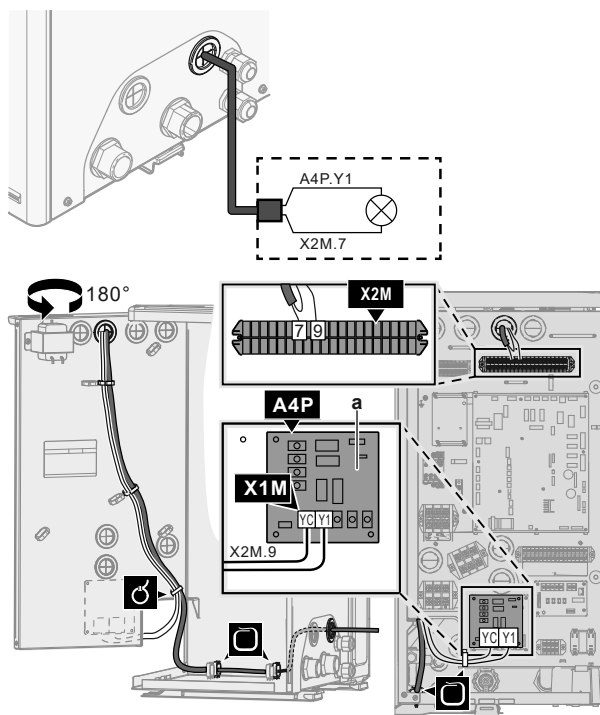
- 3 Fix the cable with cable ties to the cable tie mountings.

9.2.9 To connect the alarm output

	Wires: (2+1)×0.75 mm ² Maximum load: 0.3 A, 250 V AC
	[9.D] Alarm output

- 1 Access the electrical connections. See "9.2.1 To connect the electrical wiring to the outdoor unit" [► 95].
- 2 Connect the alarm output cable to the appropriate terminals as shown in the illustration below.

	1+2	Wires connected to the alarm output
	3	Wire between X2M and A4P
	A4P	Installation of EKR1HBAA is required.



a Installation of EKR1HBAA is required.



WARNING

Stripped wire. Make sure that stripped wire cannot make contact with possible water on the bottom plate.

- Fix the cable with cable ties to the cable tie mountings.

9.2.10 To connect the space cooling/heating ON/OFF output



INFORMATION

Cooling is only applicable in case of reversible models.

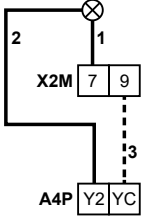


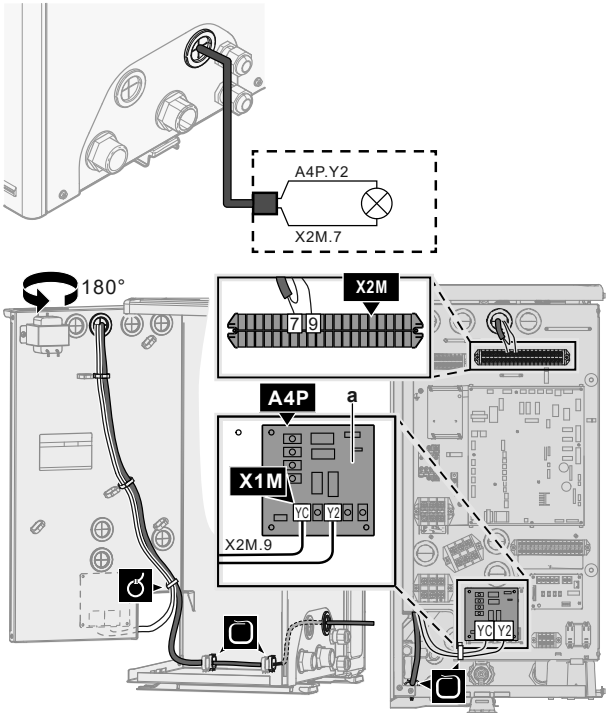
Wires: (2+1)×0.75 mm²
Maximum load: 0.3 A, 250 V AC



—

- Access the electrical connections. See "9.2.1 To connect the electrical wiring to the outdoor unit" [► 95].
- Connect the space cooling/heating ON/OFF output cable to the appropriate terminals as shown in the illustration below.

	1+2	Wires connected to the space cooling/heating ON/OFF output
	3	Wire between X2M and A4P
	A4P	Installation of EKR1HBAA is required.



a Installation of EKR1HBAA is required.



WARNING

Stripped wire. Make sure that stripped wire cannot make contact with possible water on the bottom plate.

3 Fix the cable with cable ties to the cable tie mountings.

9.2.11 To connect the changeover to external heat source



INFORMATION

Bivalent is only possible in case of 1 leaving water temperature zone with:

- room thermostat control, OR
- external room thermostat control.



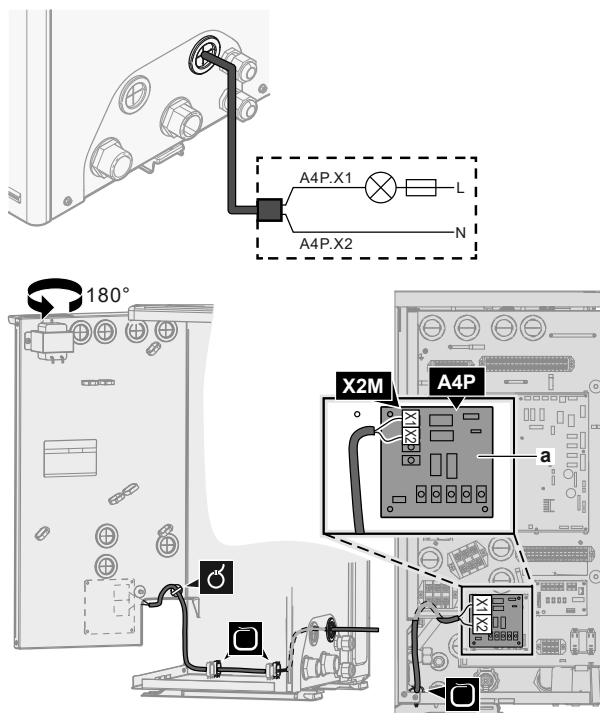
Wires: 2×0.75 mm²
Maximum load: 0.3 A, 250 V AC
Minimum load: 20 mA, 5 V DC



[9.C] **Bivalent**

1 Access the electrical connections. See "9.2.1 To connect the electrical wiring to the outdoor unit" [► 95].

- 2 Connect the changeover to external heat source cable to the appropriate terminals as shown in the illustration below.



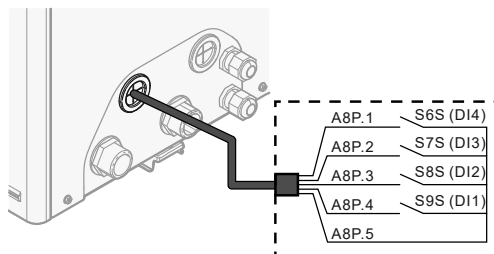
a Installation of EKR1HBAA is required.

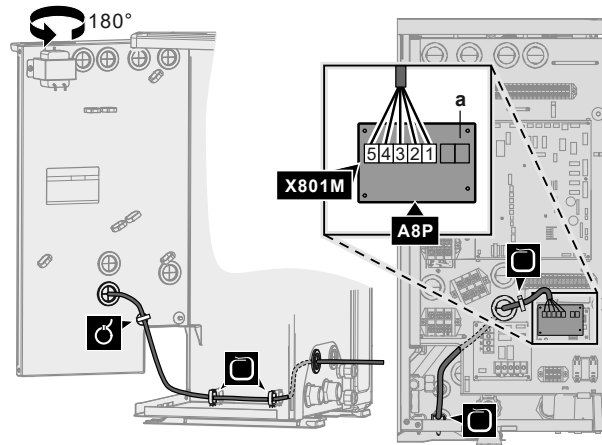
- 3 Fix the cable with cable ties to the cable tie mountings.

9.2.12 To connect the power consumption digital inputs

	Wires: 2 (per input signal)×0.75 mm ² Power limitation digital inputs: 12 V DC / 12 mA detection (voltage supplied by PCB)
	[9.9] Power consumption control.

- 1 Access the electrical connections. See "9.2.1 To connect the electrical wiring to the outdoor unit" [► 95].
- 2 Connect the power consumption digital inputs cable to the appropriate terminals as shown in the illustration below.





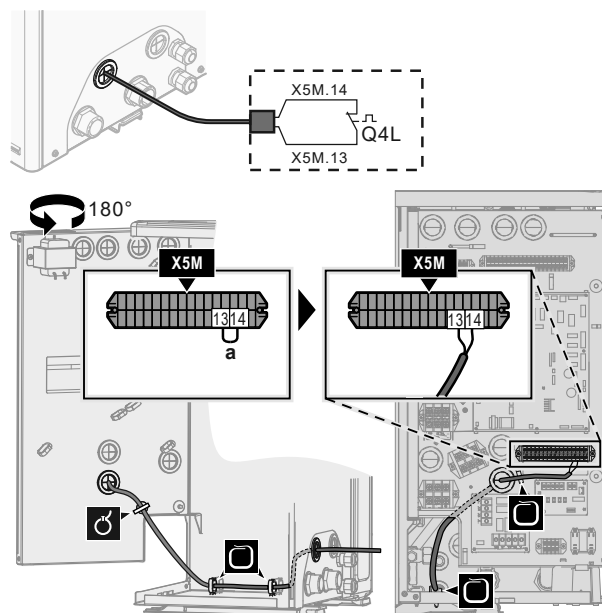
a Installation of EKR1AHTA is required.

- 3 Fix the cable with cable ties to the cable tie mountings.

9.2.13 To connect the safety thermostat (normally closed contact)

	Wires: 2×0.75 mm² Maximum length: 50 m Safety thermostat contact: 16 V DC detection (voltage supplied by PCB). The voltage-free contact shall ensure the minimum applicable load of 15 V DC, 10 mA.
	—

- 1 Access the electrical connections. See "9.2.1 To connect the electrical wiring to the outdoor unit" [► 95].
- 2 Connect the safety thermostat (normally closed) cable to the appropriate terminals as shown in the illustration below.



a Remove jumper

- 3 Fix the cable with cable ties to the cable tie mountings.

**NOTICE**

Make sure to select and install the safety thermostat according to the applicable legislation.

In any case, to prevent unnecessary tripping of the safety thermostat, we recommend the following:

- The safety thermostat is automatically resettable.
- The safety thermostat has a maximum temperature variation rate of 2°C/min.
- There is a minimum distance of 2 m between the safety thermostat and the motorized 3-way valve delivered with the domestic hot water tank.

**NOTICE**

Error. If you remove the jumper (open circuit) but do NOT connect the safety thermostat, stop error 8H-03 will occur.

9.2.14 To connect a Smart Grid

This topic describes 2 possible ways to connect the outdoor unit to a Smart Grid:

- In case of low voltage Smart Grid contacts
- In case of high voltage Smart Grid contacts. This requires the installation of the Smart Grid relay kit (EKRELSG).

The 2 incoming Smart Grid contacts can activate the following Smart Grid modes:

Smart Grid contact		Smart Grid operation mode
①	②	
0	0	Free running
0	1	Forced off
1	0	Recommended on
1	1	Forced on

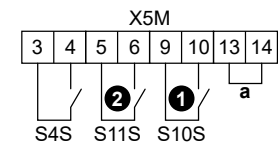
The use of a Smart Grid pulse meter is not mandatory:

If Smart Grid pulse meter is...	Then [9.8.8] Limit setting kW is...
Used ([9.A.2] Electricity meter 2 ≠ None)	Not applicable
Not used ([9.A.2] Electricity meter 2 = None)	Applicable

In case of low voltage Smart Grid contacts

	Wires (Smart Grid pulse meter): 0.5 mm ² Wires (low voltage Smart Grid contacts): 0.5 mm ²
	[9.8.4]=3 (Benefit kWh power supply = Smart grid) [9.8.5] Smart grid operation mode [9.8.6] Allow electrical heaters [9.8.7] Enable room buffering [9.8.8] Limit setting kW

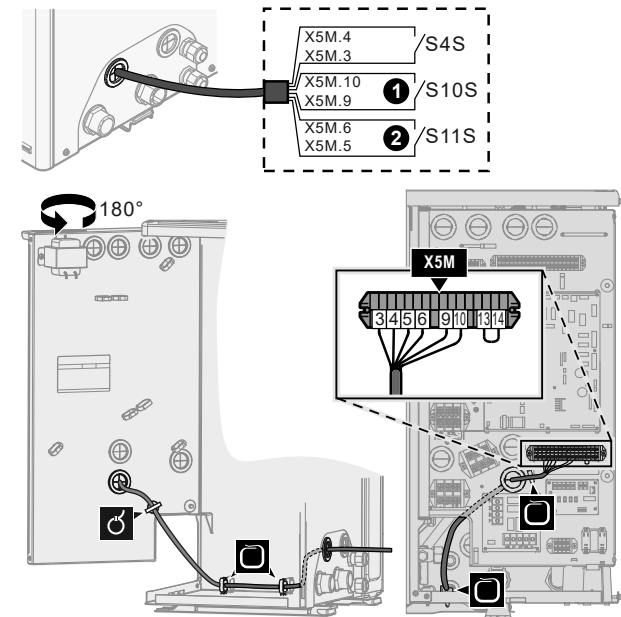
The wiring of the Smart Grid in case of low voltage contacts is as follows:



a Jumper (factory-mounted). If you also connect a safety thermostat (Q4L), replace the jumper with the safety thermostat wires.

- S4S Smart Grid pulse meter (optional)
- 1/S10S Low voltage Smart Grid contact 1
- 2/S11S Low voltage Smart Grid contact 2

- 1 Access the electrical connections. See "9.2.1 To connect the electrical wiring to the outdoor unit" [► 95].
- 2 Connect the wiring as follows:

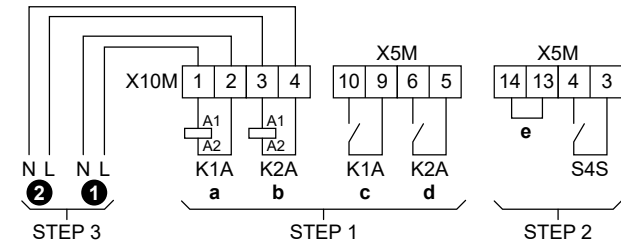


- 3 Fix the cables with cable ties to the cable tie mountings.

In case of high voltage Smart Grid contacts

	Wires (Smart Grid pulse meter): 0.5 mm ² Wires (high voltage Smart Grid contacts): 1 mm ²
	[9.8.4]=3 (Benefit kWh power supply = Smart grid) [9.8.5] Smart grid operation mode [9.8.6] Allow electrical heaters [9.8.7] Enable room buffering [9.8.8] Limit setting kW

The wiring of the Smart Grid in case of high voltage contacts is as follows:



STEP 1 Smart Grid relay kit installation

STEP 2 Low voltage connections

STEP 3 High voltage connections

① High voltage Smart Grid contact 1

② High voltage Smart Grid contact 2

K1A Relay for Smart Grid contact 1

K2A Relay for Smart Grid contact 2

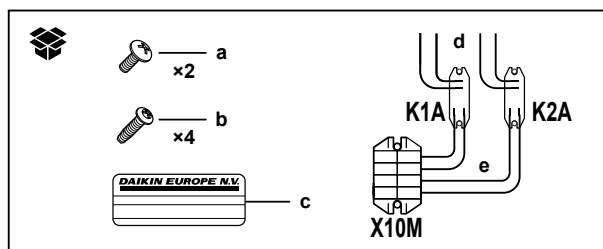
a, b Coil sides of relays

c, d Contact sides of relays

e Jumper (factory-mounted). If you also connect a safety thermostat (Q4L), replace the jumper with the safety thermostat wires.

S4S Smart Grid pulse meter (optional)

1 Install the components of the Smart Grid relay kit as follows:



K1A Relay for Smart Grid contact 1

K2A Relay for Smart Grid contact 2

X10M Terminal block

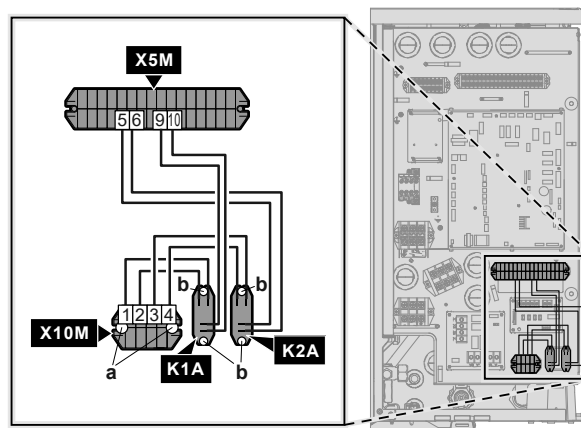
a Screws for X10M

b Screws for K1A and K2A

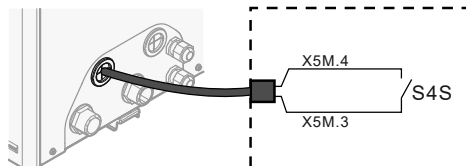
c Sticker to put on the high voltage wires

d Wires between the relays and X5M (AWG22 ORG)

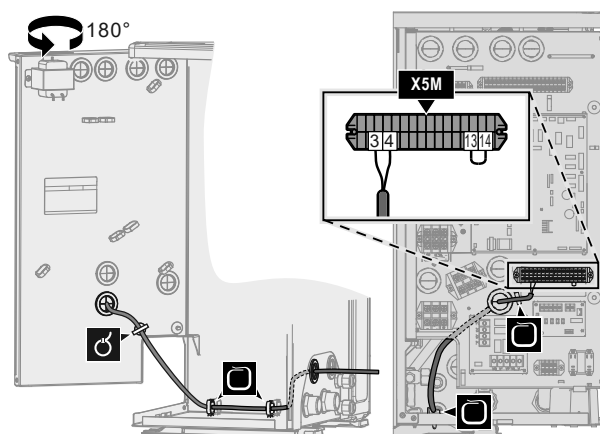
e Wires between the relays and X10M (AWG18 RED)



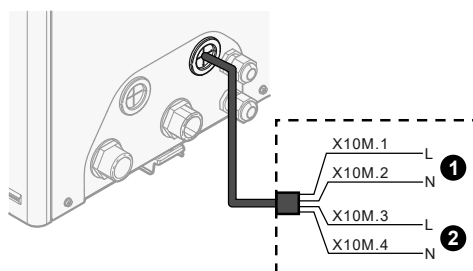
2 Connect the low voltage wiring as follows:



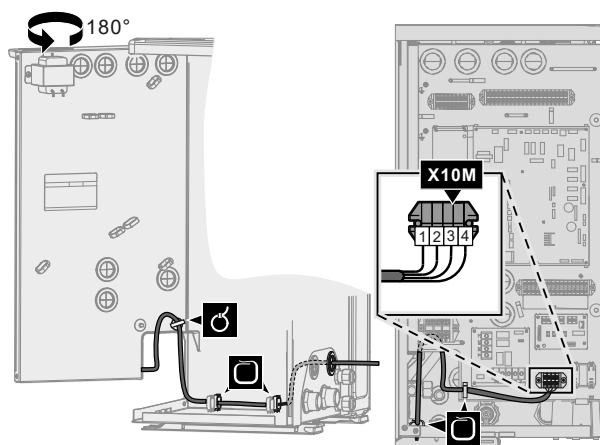
S4S Smart Grid pulse meter (optional)



3 Connect the high voltage wiring as follows:



- ① High voltage Smart Grid contact 1
- ② High voltage Smart Grid contact 2



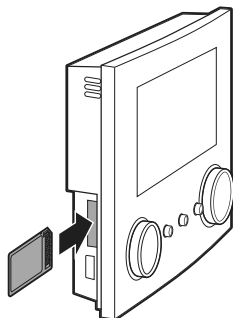
4 Fix the cables with cable ties to the cable tie mountings. If necessary, bundle excessive cable length with a cable tie.

9.2.15 To connect the WLAN cartridge (delivered as accessory)



[D] Wireless gateway

1 Insert the WLAN cartridge into the cartridge slot on the user interface of the indoor unit.



10 Finishing the outdoor unit installation

10.1 To check the insulation resistance of the compressor



NOTICE

If, after installation, refrigerant accumulates in the compressor, the insulation resistance over the poles can drop, but if it is at least 1 MΩ, then the unit will not break down.

- Use a 500 V mega-tester when measuring insulation.
- Do NOT use a mega-tester for low voltage circuits.

- 1 Measure the insulation resistance over the poles.

If	Then
≥1 MΩ	Insulation resistance is OK. This procedure is finished.
<1 MΩ	Insulation resistance is not OK. Go to the next step.

- 2 Turn ON the power and leave it on for 6 hours.

Result: The compressor will heat up and evaporate any refrigerant in the compressor.

- 3 Measure the insulation resistance again.

11 Configuration



INFORMATION

Cooling is only applicable in case of reversible models.

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11.1 Overview: Configuration

This chapter describes what you have to do and know to configure the system after it is installed.

Why

If you do NOT configure the system correctly, it might NOT work as expected. The configuration influences the following:

- The calculations of the software
- What you can see on and do with the user interface

How

You can configure the system via the user interface.

- **First time – Configuration wizard.** When you turn ON the user interface for the first time (via the unit), the configuration wizard starts to help you configure the system.
- **Restart the configuration wizard.** If the system is already configured, you can restart the configuration wizard. To restart the configuration wizard, go to **Installer settings > Configuration wizard**. To access **Installer settings**, see "11.1.1 To access the most used commands" [► 124].
- **Afterwards.** If necessary, you can make changes to the configuration in the menu structure or the overview settings.

**INFORMATION**

When the configuration wizard is finished, the user interface will show an overview screen and request to confirm. When confirmed, the system will restart and the home screen will be displayed.

Accessing settings – Legend for tables

You can access the installer settings using two different methods. However, NOT all settings are accessible via both methods. If so, the corresponding table columns in this chapter are set to N/A (not applicable).

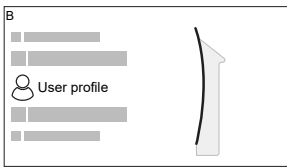
Method	Column in tables
Accessing settings via the breadcrumb in the home menu screen or the menu structure . To enable breadcrumbs, press the ? button in the home screen.	# For example: [2.9]
Accessing settings via the code in the overview field settings .	Code For example: [C-07]

See also:

- "To access the installer settings" [► 125]
- "11.8 Menu structure: Overview installer settings" [► 223]

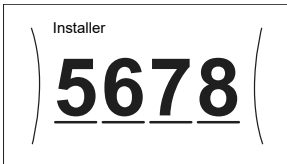
11.1.1 To access the most used commands**To change the user permission level**

You can change the user permission level as follows:

1	Go to [B]: User profile . 	
2	Enter the applicable pin code for the user permission level.	—
	▪ Browse through the list of digits and change the selected digit.	
	▪ Move the cursor from left to right.	
	▪ Confirm the pin code and proceed.	

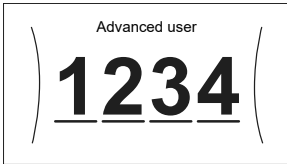
Installer pin code

The **Installer** pin code is **5678**. Additional menu items and installer settings are now available.



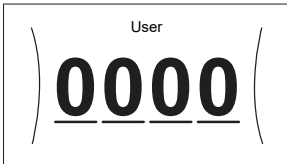
Advanced user pin code

The **Advanced user** pin code is **1234**. Additional menu items for the user are now visible.



User pin code

The **User** pin code is **0000**.



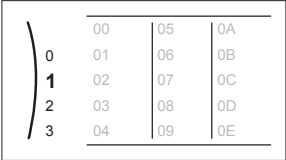
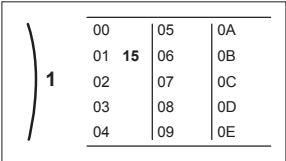
To access the installer settings

- 1 Set the user permission level to **Installer**.
- 2 Go to [9]: **Installer settings**.

To modify an overview setting

Example: Modify [1-01] from 15 to 20.

Most settings can be configured via the menu structure. If for any reason it is required to change a setting using the overview settings, then the overview settings can be accessed as follows:

1	Set the user permission level to Installer . See "To change the user permission level" [► 124].	—
2	Go to [9.1]: Installer settings > Overview field settings .	
3	Turn the left dial to select the first part of the setting and confirm by pressing the dial. 	
4	Turn the left dial to select the second part of the setting 	

5	Turn the right dial to modify the value from 15 to 20.	
6	Press the left dial to confirm the new setting.	
7	Press the center button to go back to the home screen.	

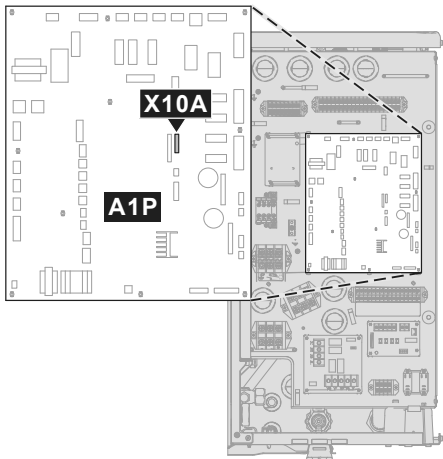
INFORMATION

When you change the overview settings and you go back to the home screen, the user interface will show a popup screen and request to restart the system.

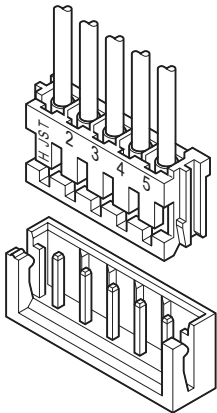
When confirmed, the system will restart and recent changes will be applied.

11.1.2 To connect the PC cable to the switch box

- Prerequisite:** The EKPCCAB4 kit is required.
- 1 Connect the USB connector of the cable to your PC.
 - 2 Connect the plug of the cable to X10A on A1P (hydro PCB).



- 3 Pay special attention to the position of the plug!



11.2 Configuration wizard

After first power ON of the system, the user interface starts a configuration wizard. Use this wizard to set the most important initial settings for the unit to run properly. If required, you can afterwards configure more settings. You can change all these settings via the menu structure.

You can find a short overview of the settings in the configuration here. All the settings can also be adjusted in the settings menu (use the breadcrumbs).

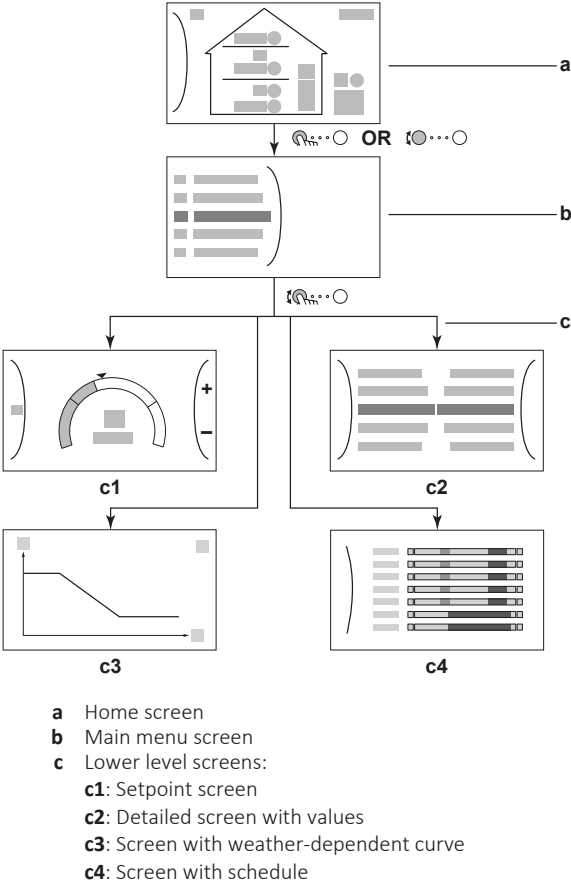
For the setting...		Refer to...
Language [7.1]		
Time/date [7.2]		
	Hours	—
	Minutes	
	Year	
	Month	
	Day	
	Daylight savings time	
	Format	
System		
	Indoor unit type (read only)	"11.6.9 Installer settings" [► 191]
	Backup heater type [9.3.1]	
	Domestic hot water [9.2.1]	
	Emergency [9.5]	
	Number of zones [4.4]	"11.6.5 Space heating/cooling" [► 168]
	Glycol Filled system (overview field setting [E-OD])	"11.6.9 Installer settings" [► 191]
	Booster heater capacity [9.4.1] (if applicable)	
	Bivalent [9.C]	
Backup heater (if applicable)		
	Voltage [9.3.2]	"Backup heater" [► 194]
	Configuration [9.3.3]	
	Capacity step 1 [9.3.4]	
	Additional capacity step 2 [9.3.5] (if applicable)	
Main zone		

For the setting...		Refer to...
	Emitter type [2.7]	"11.6.3 Main zone" [► 155]
	Control [2.9]	
	Setpoint mode [2.4]	
	Heating WD curve [2.5] (if applicable)	
	Cooling WD curve [2.6] (if applicable)	
	Schedule [2.1]	
	WD curve type [2.E]	
Additional zone (only if [4.4]=1)		
	Emitter type [3.7]	"11.6.4 Additional zone" [► 164]
	Control (read only) [3.9]	
	Setpoint mode [3.4]	
	Heating WD curve [3.5] (if applicable)	
	Cooling WD curve [3.6] (if applicable)	
	Schedule [3.1]	
	WD curve type [3.C] (read only)	
Tank (if applicable)		
	Heat up mode [5.6]	"11.6.6 Tank" [► 178]
	Comfort setpoint [5.2]	
	Eco setpoint [5.3]	
	Reheat setpoint [5.4]	
	Hysteresis [5.9] and [5.A]	

11.3 Possible screens

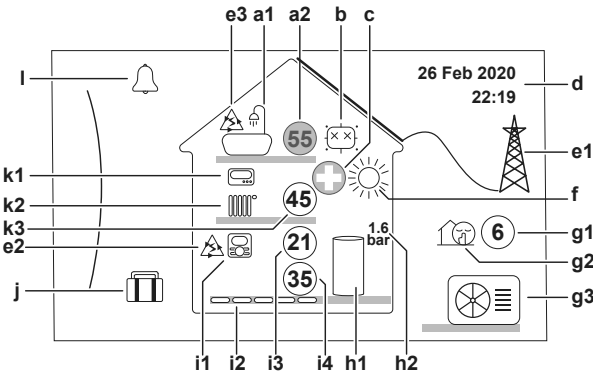
11.3.1 Possible screens: Overview

The most common screens are as follows:



11.3.2 Home screen

Press the  button to go back to the home screen. You see an overview of the unit configuration and the room and setpoint temperatures. Only symbols applicable for your configuration are visible on the home screen.



Possible actions on this screen	
	Go through the list of the main menu.
	Go to the main menu screen.
?	Enable/disable breadcrumbs.

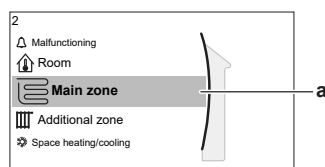
Item		Description
a Domestic hot water		
a1		Domestic hot water
a2		Measured tank temperature ^(a)
b Disinfection / Powerful		
		Disinfection mode active
		Powerful operation mode active
c Emergency		
		Heat pump failure and system operates in Emergency mode or heat pump is forced off.
d Current date and time		
e Smart energy		
e1		Smart energy is available via solar panels or smart grid.
e2		Smart energy is currently being used for space heating.
e3		Smart energy is currently being used for domestic hot water.
f Space operation mode		
		Cooling
		Heating
g Outdoor / quiet mode		
g1		Measured outdoor temperature ^(a)
g2		Quiet mode active
g3		Outdoor unit
h Domestic hot water tank		
h1		Standalone tank installed
h2	1.6 bar	Water pressure

Item		Description
i	Main zone	
	i1	Installed room thermostat type:
		 Unit operation is decided based on the ambient temperature of the dedicated Human Comfort Interface (BRC1HHDA used as room thermostat).
		 Unit operation is decided by the external room thermostat (wired or wireless).
		— No room thermostat installed or set. Unit operation is decided based on the leaving water temperature regardless of the actual room temperature and/or heating demand of the room.
	i2	Installed heat emitter type:
		 Underfloor heating
		 Fancoil unit
		 Radiator
	i3	 Measured room temperature ^(a)
	i4	 Leaving water temperature setpoint ^(a)
j	Holiday mode	
		Holiday mode active
k	Additional zone	
	k1	Installed room thermostat type:
		 Unit operation is decided by the external room thermostat (wired or wireless).
		— No room thermostat installed or set. Unit operation is decided based on the leaving water temperature regardless of the actual room temperature and/or heating demand of the room.
	k2	Installed heat emitter type:
		 Underfloor heating
		 Fancoil unit
		 Radiator
	k3	 Leaving water temperature setpoint ^(a)
l	Malfunction	
		A malfunction occurred.
		See "15.4.1 To display the help text in case of a malfunction" [► 245] for more information.

^(a) If the corresponding operation (for example: space heating) is not active, the circle is greyed out.

11.3.3 Main menu screen

Starting from the home screen, press (🔍) or turn (🌀) the left dial to open the main menu screen. From the main menu, you can access the different setpoint screens and submenus.



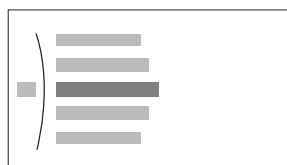
a Selected submenu

Possible actions on this screen	
🔍	Go through the list.
🌀	Enter the submenu.
?	Enable/disable breadcrumbs.

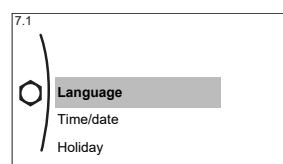
Submenu		Description
[0]	🔔 or ⚠ Malfunctioning	Restriction: Only displayed if a malfunction occurs. See "15.4.1 To display the help text in case of a malfunction" [▶ 245] for more information.
[1]	🏠 Room	Restriction: Only displayed if a dedicated Human Comfort Interface (BRC1HHDA used as room thermostat) is controlling the outdoor unit. Set the room temperature.
[2]	📊 Main zone	Shows the applicable symbol for your main zone emitter type. Set the leaving water temperature for the main zone.
[3]	📊 Additional zone	Restriction: Only displayed if there are two leaving water temperature zones. Shows the applicable symbol for your additional zone emitter type. Set the leaving water temperature for the additional zone (if present).
[4]	☀ Space heating/cooling	Shows the applicable symbol of your unit. Put the unit in heating mode or cooling mode. You cannot change the mode on heating only models.
[5]	🛀 Tank	Set the domestic hot water tank temperature.
[7]	👤 User settings	Gives access to user settings such as holiday mode and quiet mode.
[8]	📄 Information	Displays data and information about the outdoor unit.
[9]	🔧 Installer settings	Restriction: Only for the installer. Gives access to advanced settings.

Submenu		Description
[A]	 Commissioning	Restriction: Only for the installer. Perform tests and maintenance.
[B]	 User profile	Change the active user profile.
[C]	 Operation	Turn heating/cooling functionality and domestic hot water preparation on or off.
[D]	 Wireless gateway	Restriction: Only displayed if a wireless LAN (WLAN) is installed. Contains settings needed when configuring the ONECTA app.

11.3.4 Menu screen



Example:



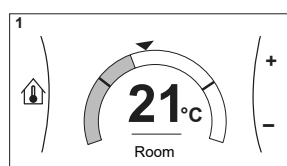
Possible actions on this screen	
	Go through the list.
	Enter the submenu/setting.

11.3.5 Setpoint screen

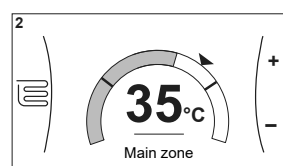
The setpoint screen is displayed for screens describing system components that need a setpoint value.

Examples

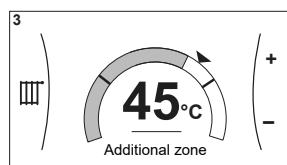
[1] Room temperature screen



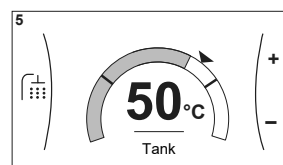
[2] Main zone screen



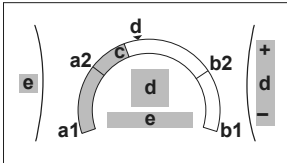
[3] Additional zone screen



[5] Tank temperature screen



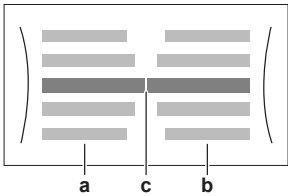
Explanation



Possible actions on this screen	
	Go through the list of the submenu.
	Go to the submenu.
	Adjust and automatically apply the desired temperature.

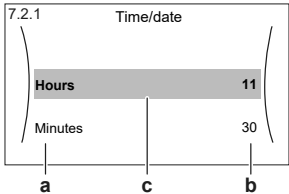
Item	Description	
Minimum temperature limit	a1	Fixed by the unit
	a2	Restricted by the installer
Maximum temperature limit	b1	Fixed by the unit
	b2	Restricted by the installer
Current temperature	c	Measured by the unit
Desired temperature	d	Turn the right dial to increase/decrease.
Submenu	e	Turn or press the left dial to go to the submenu.

11.3.6 Detailed screen with values



- a** Settings
- b** Values
- c** Selected setting and value

Example:



Possible actions on this screen	
	Go through the list of settings.
	Change the value.
	Go to the next setting.
	Confirm changes and proceed.

11.4 Preset values and schedules

11.4.1 Using preset values

About preset values

For some settings in the system, you can define preset values. You only need to set these values one time, then reuse the values in other screens such as the scheduling screen. If you later want to change the value, you only have to do it in one place.

Possible preset values

You can set the following user-defined preset values:

Preset value		Where used
Tank temperatures under [5] Tank Restriction: Only applicable if a DHW tank is present.	[5.2] Comfort setpoint	You can use these preset values in [5.5] Schedule (weekly schedule screen for the DHW tank) if the DHW tank mode is one of the following: ▪ Schedule only ▪ Schedule + reheat
	[5.3] Eco setpoint	
	[5.4] Reheat setpoint	The software uses this preset value if the DHW tank mode is Schedule + reheat .
Electricity prices under [7.5] User settings > Electricity price Restriction: Only applicable if Bivalent is enabled by the installer.	[7.5.1] High	You can use these preset values in [7.5.4] Schedule (weekly schedule screen for the energy prices). See "11.4.4 Setting the energy prices" [► 143].
	[7.5.2] Medium	
	[7.5.3] Low	

Additional to the user-defined preset values, the system also contains some system-defined preset values that you can use when programming schedules.

Example: In [7.4.2] **User settings > Quiet > Schedule** (weekly schedule for when the unit has to use which quiet mode level), you can use the following system-defined preset values: **Quiet/More quiet/Most quiet**.

11.4.2 Using and programming schedules

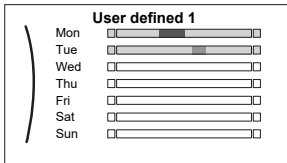
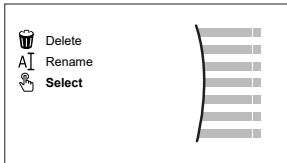
About schedules

Depending on your system layout and installer configuration, schedules for multiple controls may be available.

You can...	See...
Set if a specific control needs to act according to a schedule.	" Activation screen " in "Possible schedules" [► 136]
Select which schedule you currently want to use for a specific control. The system contains some predefined schedules. You can:	

You can...	See...
Consult which schedule is currently selected.	" Schedule/Control " in "Possible schedules" [► 136]
Select another schedule if needed.	"To select which schedule you currently want to use" [► 136]
Program your own schedules if the predefined schedules are not satisfactory. The actions you can program are control specific.	▪ "Possible actions" in "Possible schedules" [► 136] ▪ "11.4.3 Schedule screen: Example" [► 139]

To select which schedule you currently want to use

1	Go to the schedule for the specific control. See " Schedule/Control " in "Possible schedules" [► 136]. Example: For the schedule for the desired room temperature in heating mode, go to [1.2] Room > Heating schedule.	
2	Select the name of the current schedule. 	
3	Select Select . 	
4	Select the schedule that you currently want to use.	

Possible schedules

The table contains the following information:

- **Schedule/Control:** This column shows you where you can consult the currently selected schedule for the specific control. If needed, you can:
 - Select another schedule. See "To select which schedule you currently want to use" [► 136].
 - Program your own schedule. See "11.4.3 Schedule screen: Example" [► 139].
- **Predefined schedules:** Number of available predefined schedules in the system for the specific control. If needed, you can program your own schedule.
- **Activation screen:** For most controls, a schedule is only effective if it is activated in its corresponding activation screen. This entry shows you where to activate it.
- **Possible actions:** Actions you can use when programming a schedule. For most schedules, you can program up to 6 actions per day.

Schedule/Control	Description
[1.2] Room > Heating schedule Schedule for the desired room temperature in heating mode.	Predefined schedules: 3 Activation screen: [1.1] Schedule Possible actions: Temperatures within range.
[1.3] Room > Cooling schedule Schedule for the desired room temperature in cooling mode.	Predefined schedules: 1 Activation screen: [1.1] Schedule Possible actions: Temperatures within range.
[2.2] Main zone > Heating schedule Schedule for the desired leaving water temperature for the main zone in heating mode.	Predefined schedules: 3 Activation screen: [2.1] Schedule Possible actions: ▪ In case of weather-dependent: Shift temperatures within range. ▪ Otherwise: Temperatures within range
[2.3] Main zone > Cooling schedule Schedule for the desired leaving water temperature for the main zone in cooling mode.	Predefined schedules: 1 Activation screen: [2.1] Schedule Possible actions: ▪ In case of weather-dependent: Shift temperatures within range. ▪ Otherwise: Temperatures within range
[3.2] Additional zone > Heating schedule Schedule for when the system is allowed to heat up the additional zone in heating mode.	Predefined schedules: 1 Activation screen: [3.1] Schedule Possible actions: ▪ Off: When the system is NOT allowed to heat up the additional zone. ▪ On: When the system is allowed to heat up the additional zone.
[3.3] Additional zone > Cooling schedule Schedule for when the system is allowed to cool down the additional zone in cooling mode.	Predefined schedules: 1 Activation screen: [3.1] Schedule Possible actions: ▪ Off: When the system is NOT allowed to cool down the additional zone. ▪ On: When the system is allowed to cool down the additional zone.
[4.2] Space heating/cooling > Operation mode schedule Schedule (per month) for when to operate the unit in heating mode and when in cooling mode.	See "To set the space operation mode" [► 169].

Schedule/Control	Description
[5.5] Tank > Schedule Schedule for the domestic hot water tank temperature for your normal domestic hot water needs.	Predefined schedules: 1 Activation screen: Not applicable. This schedule is automatically activated if the DHW mode is one of the following: ▪ Schedule only ▪ Schedule + reheat Possible actions: ▪ Comfort: When to start heating the tank to the user-defined preset value [5.2] Comfort setpoint. ▪ Eco: When to start heating the tank to the user-defined preset value [5.3] Eco setpoint. ▪ Stop: When to stop heating the tank, even if the desired tank temperature is not reached yet. Note: In Schedule + reheat mode, the system also takes the user-defined preset value [5.4] Reheat setpoint into account.
[7.4.2] User settings > Quiet > Schedule Schedule for when the unit has to use which quiet mode level.	Predefined schedules: 1 Activation screen: [7.4.1] Activation (only available to installers). Possible actions: You can use the following system-defined preset values: ▪ Off ▪ Quiet ▪ More quiet ▪ Most quiet See "About quiet mode" [► 187].
[7.5.4] User settings > Electricity price > Schedule Schedule for when a certain electricity tariff is valid.	Predefined schedules: 1 Activation screen: Not applicable Possible actions: You can use the following system-defined preset values: ▪ High ▪ Medium ▪ Low See "11.4.4 Setting the energy prices" [► 143].
Restriction: Only available to installers. [9.4.2] Installer settings > Booster heater > BSH allowance schedule	Predefined schedules: 1 Activation screen: Not applicable Possible actions: You can program 2 actions per day. ▪ Off: Booster heater operation NOT allowed. ▪ On: Booster heater operation allowed.

11.4.3 Schedule screen: Example

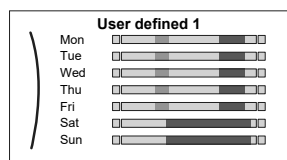
This example shows how to set a room temperature schedule in heating mode for the main zone.

**INFORMATION**

The procedures to program other schedules are similar.

To program the schedule: overview

Example: You want to program the following schedule:



Prerequisite: The room temperature schedule is only available if room thermostat control is active. If leaving water temperature control is active, you can program the main zone schedule instead.

- 1 Go to the schedule.
- 2 (optional) Clear the content of the whole week schedule or the content of a selected day schedule.
- 3 Program the schedule for **Monday**.
- 4 Copy the schedule to the other weekdays.
- 5 Program the schedule for **Saturday** and copy it to **Sunday**.
- 6 Give the schedule a name.

To go to the schedule

1	Go to [1.1]: Room > Schedule.	
2	Set scheduling to Yes.	
3	Go to [1.2]: Room > Heating schedule.	

To clear the content of the week schedule

1	Select the name of the current schedule. 	
2	Select Delete. 	
3	Select OK to confirm.	

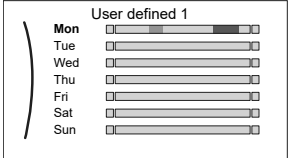
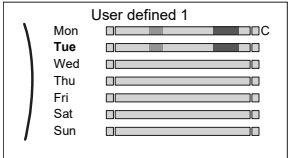
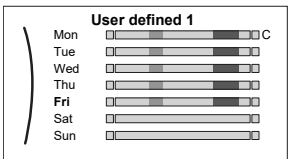
To clear the content of a day schedule

1	Select the day of which you want to clear the content. For example Friday	
2	Select Delete .	
3	Select OK to confirm.	

To program the schedule for Monday

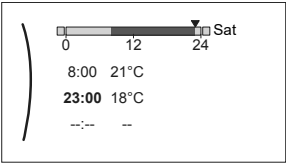
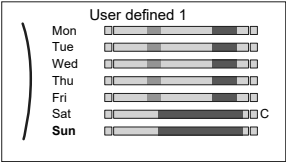
1	Select Monday .	
2	Select Edit .	
3	Use the left dial to select an entry and edit the entry with the right dial. You can program up to 6 actions each day. On the bar, a high temperature has a darker colour than a low temperature.	
4	Confirm the changes. Result: The schedule for Monday is defined. The value of the last action is valid until the next programmed action. In this example, Monday is the first day you programmed. Thus, the last programmed action is valid up to the first action of next Monday.	

To copy the schedule to the other weekdays

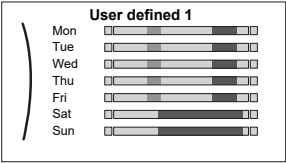
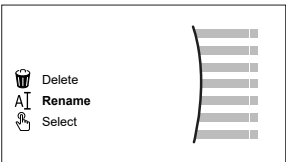
1	Select Monday.		
2	Select Copy.	 Result: Next to the copied day, "C" is displayed.	
3	Select Tuesday.		
4	Select Paste.	 Result: 	
5	Repeat this action for all other weekdays.		—

To program the schedule for Saturday and copy it to Sunday

1	Select Saturday.	
2	Select Edit.	

3	Use the left dial to select an entry and edit the entry with the right dial. 	 
4	Confirm the changes.	
5	Select Saturday .	
6	Select Copy .	
7	Select Sunday .	
8	Select Paste . Result: 	

To rename the schedule

1	Select the name of the current schedule. 	
2	Select Rename . 	
3	(optional) To delete the current schedule name, browse through the character list until ← is displayed, then press to remove the previous character. Repeat for each character of the schedule name.	
4	To name the current schedule, browse through the character list and confirm the selected character. The schedule name can contain up to 15 characters.	
5	Confirm the new name.	



INFORMATION

Not all schedules can be renamed.

Usage example: You work in a 3-shift system

If you work in a 3-shift system, you can do the following:

- 1 Program 3 room temperature schedules and give them appropriate names.
Example: EarlyShift, DayShift and LateShift
- 2 Select the schedule that you currently want to use.

11.4.4 Setting the energy prices

In the system, you can set the following energy prices:

- a fixed gas price
- 3 electricity price levels
- a weekly schedule timer for electricity prices.

Example: How to set the energy prices on the user interface?

Price	Value in breadcrumb
Gas: 5.3 euro cents/kWh	[7.6]=5.3
Electricity: 12 euro cents/kWh	[7.5.1]=12

To set the gas price

1	Go to [7.6]: User settings > Gas price.	
2	Select the correct gas price.	
3	Confirm the changes.	



INFORMATION

Price value ranging from 0.00~990 valuta/kWh (with 2 significant values).

To set the electricity price

1	Go to [7.5.1]/[7.5.2]/[7.5.3]: User settings > Electricity price > High/Medium/Low.	
2	Select the correct electricity price.	
3	Confirm the changes.	
4	Repeat this for all three electricity prices.	—



INFORMATION

Price value ranging from 0.00~990 valuta/kWh (with 2 significant values).



INFORMATION

If no schedule is set, the **Electricity price** for **High** is taken into account.

To set the electricity price schedule timer

1	Go to [7.5.4]: User settings > Electricity price > Schedule.	
2	Program the selection using the scheduling screen. You can set the High , Medium and Low electricity prices according to your electricity supplier.	—
3	Confirm the changes.	

**INFORMATION**

The values correspond with the electricity price values for **High**, **Medium** and **Low** previously set. If no schedule is set, the electricity price for **High** is taken into account.

About energy prices in case of an incentive per kWh renewable energy

An incentive can be taken into account when setting the energy prices. Although the running cost can increase, the total operation cost, taking into account the reimbursement will be optimized.

**NOTICE**

Make sure to modify the setting of the energy prices at the end of the incentive period.

To set the gas price in case of an incentive per kWh renewable energy

Calculate the value for the gas price with the following formula:

$$\text{Actual gas price} + (\text{Incentive} / \text{kWh} \times 0.9)$$

For the procedure to set the gas price, see "To set the gas price" [► 143].

To set the electricity price in case of an incentive per kWh renewable energy

Calculate the value for the electricity price with following formula:

$$\text{Actual electricity price} + \text{Incentive} / \text{kWh}$$

For the procedure to set the electricity price, see "To set the electricity price" [► 143].

Example

This is an example and the prices and/or values used in this example are NOT accurate.

Data	Price/kWh
Gas price	4.08
Electricity price	12.49
Renewable heat incentive per kWh	5

Calculation of the gas price

$$\text{Gas price} = \text{Actual gas price} + (\text{Incentive} / \text{kWh} \times 0.9)$$

$$\text{Gas price} = 4.08 + (5 \times 0.9)$$

$$\text{Gas price} = 8.58$$

Calculation of the electricity price

$$\text{Electricity price} = \text{Actual electricity price} + \text{Incentive} / \text{kWh}$$

$$\text{Electricity price} = 12.49 + 5$$

$$\text{Electricity price} = 17.49$$

Price	Value in breadcrumb
Gas: 4.08 /kWh	[7.6]=8.6
Electricity: 12.49 /kWh	[7.5.1]=17

11.5 Weather-dependent curve

11.5.1 What is a weather-dependent curve?

Weather-dependent operation

The unit operates 'weather-dependent' if the desired leaving water or tank temperature is determined automatically by the outdoor temperature. It therefore is connected to a temperature sensor on the North wall of the building. If the outdoor temperature drops or rises, the unit compensates instantly. Thus, the unit does not have to wait for feedback by the thermostat to increase or decrease the temperature of the leaving water or tank. Because it reacts more quickly, it prevents high rises and drops of the indoor temperature and water temperature at tap points.

Advantage

Weather-dependent operation reduces energy consumption.

Weather-dependent curve

To be able to compensate for differences in temperature, the unit relies on its weather-dependent curve. This curve defines how much the temperature of the tank or leaving water must be at different outdoor temperatures. Because the slope of the curve depends on local circumstances such as climate and the insulation of the building, the curve can be adjusted by an installer or user.

Types of weather-dependent curve

There are 2 types of weather-dependent curves:

- 2-points curve
- Slope-offset curve

Which type of curve you use to make adjustments, depends on your personal preference. See "11.5.4 Using weather-dependent curves" [► 148].

Availability

The weather-dependent curve is available for:

- Main zone - Heating
- Main zone - Cooling
- Additional zone - Heating
- Additional zone - Cooling
- Tank (only available to installers)



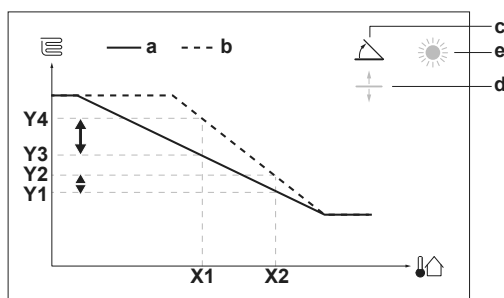
INFORMATION

To operate weather-dependent, correctly configure the setpoint of the main zone, additional zone or tank. See "11.5.4 Using weather-dependent curves" [► 148].

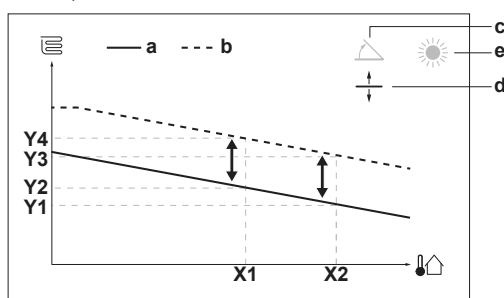
11.5.2 2-points curve

Define the weather-dependent curve with these two setpoints:

- Setpoint (X1, Y2)
- Setpoint (X2, Y1)



Weather-dependent curve when offset is selected:



Item	Description
a	WD curve before changes.
b	WD curve after changes (as example): ▪ When slope is changed, the new preferred temperature at X1 is unequally higher than the preferred temperature at X2. ▪ When offset is changed, the new preferred temperature at X1 is equally higher as the preferred temperature at X2.
c	Slope
d	Offset
e	Selected weather-dependent zone: ▪ ☀: Main zone or additional zone heating ▪ ❄: Main zone or additional zone cooling ▪ 🏠: Domestic hot water
X1, X2	Examples of outdoor ambient temperature
Y1, Y2, Y3, Y4	Examples of desired tank temperature or leaving water temperature. The icon corresponds to the heat emitter for that zone: ▪ 🏠: Underfloor heating ▪ 🏠: Fan coil unit ▪ 🏠: Radiator ▪ 🏠: Domestic hot water tank

Possible actions on this screen	
	Select slope or offset.
	Increase or decrease the slope/offset.
	When slope is selected: set slope and go to offset. When offset is selected: set offset.
	Confirm changes and return to the submenu.

11.5.4 Using weather-dependent curves

Configure weather-dependent curves as following:

To define the setpoint mode

To use the weather-dependent curve, you need to define the correct setpoint mode:

Go to setpoint mode ...	Set the setpoint mode to ...
Main zone – Heating	
[2.4] Main zone > Setpoint mode	WD heating, fixed cooling OR Weather dependent
Main zone – Cooling	
[2.4] Main zone > Setpoint mode	Weather dependent
Additional zone – Heating	
[3.4] Additional zone > Setpoint mode	WD heating, fixed cooling OR Weather dependent
Additional zone – Cooling	
[3.4] Additional zone > Setpoint mode	Weather dependent
Tank	
[5.B] Tank > Setpoint mode	Restriction: Only available to installers. Weather dependent

To change the type of weather-dependent curve

To change the type for all zones (main + additional) and for the tank, go to [2.E] **Main zone > WD curve type**.

Viewing which type is selected is also possible via:

- [3.C] **Additional zone > WD curve type**
- [5.E] **Tank > WD curve type**

Restriction: Only available to installers.

To change the weather-dependent curve

Zone	Go to ...
Main zone – Heating	[2.5] Main zone > Heating WD curve
Main zone – Cooling	[2.6] Main zone > Cooling WD curve

Zone	Go to ...
Additional zone – Heating	[3.5] Additional zone > Heating WD curve
Additional zone – Cooling	[3.6] Additional zone > Cooling WD curve
Tank	Restriction: Only available to installers. [5.C] Tank > WD curve

**INFORMATION****Maximum and minimum setpoints**

You cannot configure the curve with temperatures that are higher or lower than the set maximum and minimum setpoints for that zone or for the tank. When the maximum or minimum setpoint is reached, the curve flattens out.

To fine-tune the weather-dependent curve: slope-offset curve

The following table describes how to fine-tune the weather-dependent curve of a zone or tank:

You feel ...		Fine-tune with slope and offset:	
At regular outdoor temperatures ...	At cold outdoor temperatures ...	Slope	Offset
OK	Cold	↑	—
OK	Hot	↓	—
Cold	OK	↓	↑
Cold	Cold	—	↑
Cold	Hot	↓	↑
Hot	OK	↑	↓
Hot	Cold	↑	↓
Hot	Hot	—	↓

To fine-tune the weather-dependent curve: 2-points curve

The following table describes how to fine-tune the weather-dependent curve of a zone or tank:

You feel ...		Fine-tune with setpoints:			
At regular outdoor temperatures ...	At cold outdoor temperatures ...	Y2 ^(a)	Y1 ^(a)	X1 ^(a)	X2 ^(a)
OK	Cold	↑	—	↑	—
OK	Hot	↓	—	↓	—
Cold	OK	—	↑	—	↑
Cold	Cold	↑	↑	↑	↑
Cold	Hot	↓	↑	↓	↑
Hot	OK	—	↓	—	↓
Hot	Cold	↑	↓	↑	↓
Hot	Hot	↓	↓	↓	↓

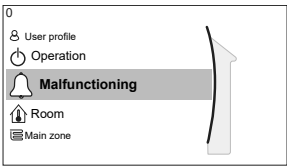
^(a) See "11.5.2 2-points curve" [► 145].

11.6 Settings menu

You can set additional settings using the main menu screen and its submenus. The most important settings are presented here.

11.6.1 Malfunctioning

In case of a malfunction,  or  will appear on the home screen. To display the error code, open the menu screen and go to [0] **Malfunctioning**. Press **?** for more information about the error.

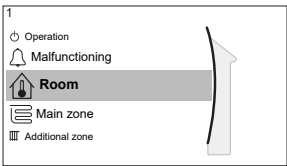


[0] **Malfunctioning**

11.6.2 Room

Overview

The following items are listed in the submenu:



[1] **Room**

-  Setpoint screen
- [1.1] **Schedule**
- [1.2] **Heating schedule**
- [1.3] **Cooling schedule**
- [1.4] **Antifrost**
- [1.5] **Setpoint range**
- [1.6] **Room sensor offset**
- [1.7] **Room sensor offset**
- [1.9] **Room comfort setpoint**

Setpoint screen

Control the room temperature of the main zone via setpoint screen [1] **Room**.
See "11.3.5 Setpoint screen" [► 133].

Schedule

Indicate if the room temperature is controlled according to a schedule or not.

#	Code	Description
[1.1]	N/A	Schedule: ▪ No: Room temperature is directly controlled by the user. ▪ Yes: Room temperature is controlled by a schedule and can be modified by the user.