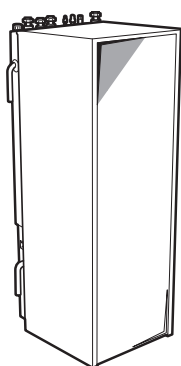




Installation manual

Daikin Altherma – Low temperature split



EHVZ04S18CB
EHVZ08S18CB
EHVZ16S18CB

Installation manual
Daikin Altherma – Low temperature split

English

CE-DECLARATION OF CONFORMITY
CE-KONFORMITÄTSSERKLÄRUNG
CE-DECLARATION DE CONFORMITE
CE-CONFORMITEITSVERKLARING

CE-DECLARACÃO DE CONFORMIDADE
CE-ZÁRČENIE O SOODPĚTIVOSTI
CE-OVERENSÄMMELSESRÖKLÄRUNG
CE-FÖRSÄKRAN OM ÖVERENSÄMMELSE

CE-ERKLÄRUNG OM SAMSVAR
CE-ЛІЦЕНЗІЯ НА ВІДПОВІДІСТЬ
CE-PROHLÁŠENÍ SHODY

CE-IZJAVA O SKLADNOSTI
CE-MEGFELELŐSÉGI NYILATKOZAT
CE-DEKLARACJA ZGODNOŚCI
CE-DECLARAȚIE DE CONFORMITATE

CE-IZJAVA O SKLADNOSTI
CE-VASTAVUSDEKLARACIJA
CE-ДІЯЛІСТЬ ДЕКЛАРАЦІЇ
CE-УПОВНУДІЛЕННЯ

CE-ATTIKTES-DEKLARACIJA
CE-ATILISTIES-DEKLARACIJA
CE-VYHLÁŠENÍ SHODY
CE-УПОВНУДІЛЕННЯ

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02 erklärt auf seine alleinige Verantwortung, daß die Ausrüstung für die diese Erklärung bestimmt ist:
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EHVZ04S18CB3V, EHVZ08S18CB3V, EHVZ16S18CB3V,

- 01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions:
02 deriden volgende Norm(en) en/of andere normatieve document(en) te gebruiken, zolang zij worden gebruikt overeenkomstig onze instructies:
03 sont conformes à la(s) norme(s) (ou autres) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions:
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EN60335-2-40,

- 01 following the provisions of:
02 gemäß den Vorschriften der:
03 conformément aux stipulations des:
04 overeenkomstig de bepalingen van:
05 secondo le disposizioni de:
06 podle předpisů:
07 je tiporij av budovzku tur:
08 e acordo com o previsto em:
09 в соответствии с положениями:
10 under egenskaperna för:
11 enligt villkoren i:
12 gitt i henhold til bestemmelse i:
13 noudattamasta määrästä:
14 za dodržení ustanovení předpisů:
15 prema odredbama:
16 kveiti aðli:
17 zgodnie z postanowieniami Dyrektywy:
18 in uma predefinição:

- 19 ob upoštevani doboto:
20 vastavati toalele:
21 creptakiv krayevne na:
22 lakantiv nusstau, palekiamu:
23 vskazuj na ustanovenia:
24 orđavaj na ustanovena:
25 bunni kspilama ugini datak:

- 26 ob upoštevani doboto:
27 vskazuj na ustanovenia:
28 orđavaj na ustanovena:
29 bunni kspilama ugini datak:

- 26 ob upoštevani doboto:
27 vskazuj na ustanovenia:
28 orđavaj na ustanovena:
29 bunni kspilama ugini datak:

Low Voltage 2014/35/EU
Electromagnetic Compatibility 2014/30/EU

- 01 Directives as amended:
02 Direktiven, gemakt, Anderung:
03 Directies, telles que modifiées:
04 Richtlijnen, zoals geamendard:
05 Directies, según lo emendado:
06 Directive, come le modifica:
07 Önyelvi, ömzök vagy változtatásai:
08 Directies, conform alteração em:
09 Директива со всеми изменениями:
10 Direktiv, med senere ændringer:
11 Direktiv, med foretagne ændringer:
12 Direktiv, med foretagne ændringer:
13 Direktiv, med foretagne ændringer:
14 v pätem muutusi:
15 Spresnica, kako je izmenjeno:
16 irányelvi(ek) és módosítások rendelkezései:
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- 16 megjelöltek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azok éleltak szerinti használatja:
17 szint in conformitate cu următoarele standarde sau alte documente normative, cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre:
18 skladi u skladu s narednim standardima i drugim normativnim dokumentima, pod pretpokladom, da se upotrebljavaju u skladu s našim pravilima:
20 on vastavuses järgmistele standardidele ja või teiste normatiivsete dokumentidega, kui need kasutatakse vastavalt meie juhendile:
21 oostrestraat na eeskirjele standardite või muude normatiivsete dokumentide, kui need kasutatakse vastavalt meie juhendile:
22 atitika zemtara nurodyj standardu i (ina) ktus normativni dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus:
23 tad, ja teiti atitiksiois razložiti nardajim, atitiks sekošiošiem standartem un citiem normatīviem dokumentiem:
24 su i zhode s nasledstvom(ami) normativni(i) dokumentom(ami), za predpokladu, že se používají v souladu s našimi návodmi:
25 ušludin, taimitatama gōre kulanimasi kōshujia asōjūdaki standartar ve norm belfiten begelēle uyumtudin:

- 01 Directives as amended:
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03 Directies, telles que modifiées:
04 Richtlijnen, zoals geamendard:
05 Directies, según lo emendado:
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| | |
|-----|----------------------------|
| <A> | DAIKIN.TCF.02.5H4/01-20.15 |
| | DEKRA (NB0344) |
| <C> | 2082543.0551-QUA/EMC |

DAIKIN

DAIKIN EUROPE N.V.

Zandvoordstraat 300, B-8400 Oostende, Belgium

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1 About the documentation

1.1 About this document

Target audience

Authorised installers

Documentation set

This document is part of a documentation set. The complete set consists of:

- **General safety precautions:**
 - Safety instructions that you must read before installing
 - Format: Paper (in the box of the indoor unit)
- **Indoor unit installation manual:**
 - Installation instructions
 - Format: Paper (in the box of the indoor unit)
- **Outdoor unit installation manual:**
 - Installation instructions
 - Format: Paper (in the box of the outdoor unit)
- **Installer reference guide:**
 - Preparation of the installation, good practices, reference data,...
 - Format: Digital files on <http://www.daikineurope.com/support-and-manuals/product-information/>
- **Addendum book for optional equipment:**
 - Additional info about how to install optional equipment
 - Format: Paper (in the box of the indoor unit) + Digital files on <http://www.daikineurope.com/support-and-manuals/product-information/>

Latest revisions of the supplied documentation may be available on the regional Daikin website or via your dealer.

The original documentation is written in English. All other languages are translations.

Technical engineering data

- A **subset** of the latest technical data is available on the regional Daikin website (publicly accessible).
- The **full set** of latest technical data is available on the Daikin extranet (authentication required).

2 About the box

2.1 Indoor unit

2.1.1 To remove the accessories from the indoor unit

- 1 Remove the screws at the top of the unit.
- 2 Remove the top panel.

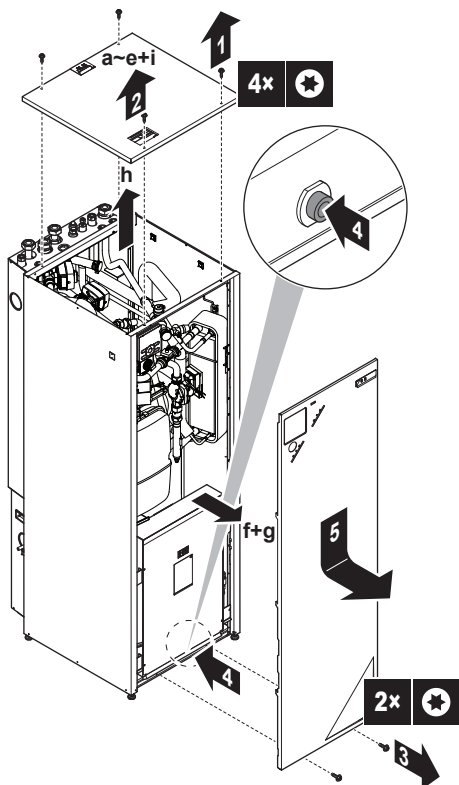
3 Preparation

- 3 Remove the screws at the front of the unit.
- 4 Push on the button on the bottom of the front plate.
- 5 Remove the front plate.

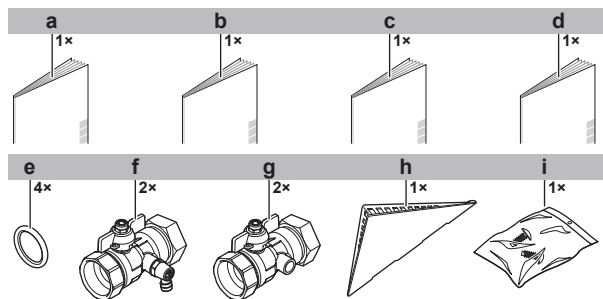


WARNING: Sharp edges

Take the front plate on the upper part instead of the lower part. Watch your fingers, there are sharp edges on the lower part of the front plate.



- 6 Remove the accessories.



- a General safety precautions
- b Addendum book for optional equipment
- c Indoor unit installation manual
- d Operation manual
- e Sealing ring for shut-off valve
- f Shut-off valve with drain/fill point
- g Shut-off valve
- h User interface cover
- i 2 screws for fixing the user interface.

- 7 Reinstall the top panel and the front plate.

3 Preparation

3.1 Preparing the installation site



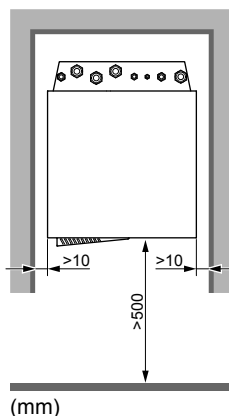
NOTICE

This unit is designed for operation on 2 temperature zones:

- underfloor heating in the **main zone**, this is the zone with the **lowest water temperature**,
- radiators in the **additional zone**, this is the zone with the **highest water temperature**.

3.1.1 Installation site requirements of the indoor unit

- The indoor unit is designed for indoor installation only and for ambient temperatures ranging from 5~35°C.
- Mind the following spacing installation guidelines:



NOTICE

When the temperature in multiple rooms is controlled by 1 thermostat, do NOT place a thermostatic valve on the emitter in the room where the thermostat is installed.

3.2 Preparing water piping



NOTICE

In case of plastic pipes, make sure they are fully oxygen diffusion tight according to DIN 4726. The diffusion of oxygen into the piping can lead to excessive corrosion.

3.2.1 To check the water volume and flow rate

Minimum water volume

Check that the total water volume in the installation is minimum 10 litre for EHVZ04+08 and 20 litre for EHVZ16, the internal water volume of the indoor unit NOT included. Do **NOT** split up the minimum water volume over the 2 temperature zones.

It is sufficient to foresee the minimum water volume on the main zone. In case of underfloor heating, this is easily done by 1 floor heating loop that never will be closed by a (remotely) controlled valve.

It is NOT required to foresee the minimum water volume on the additional zone.



NOTICE

When circulation in each space heating/cooling loop is controlled by remotely controlled valves, it is important that the minimum water volume is guaranteed, even if all of the valves are closed.

Minimum flow rate

Check that the minimum flow rate (required during defrost/backup heater operation) in the installation is guaranteed in all conditions on each zone separately.



NOTICE

When circulation in each or certain space heating loops is controlled by remotely controlled valves, it is important that the minimum flow rate is guaranteed, even if all valves are closed. In case the minimum flow rate cannot be reached, a flow error 7H will be generated (no heating or operation).

See the installer reference guide for more information.

| Minimum required flow rate during defrost/backup heater operation | |
|---|----------|
| 04+08 models | 12 l/min |
| 16 model | 15 l/min |

See the recommended procedure as described in "6.2 Checklist during commissioning" on page 19.

3.3 Preparing electrical wiring

3.3.1 Overview of electrical connections for external and internal actuators

| Item | Description | Wires | Maximum running current |
|--|---|------------------|-------------------------|
| Outdoor unit and indoor unit power supply | | | |
| 1 | Power supply for outdoor unit | 2+GND or 3+GND | (a) |
| 2 | Power supply and interconnection cable to indoor unit | 3 | (c) |
| 3 | Power supply for backup heater | See table below. | — |
| 4 | Preferential kWh rate power supply (voltage free contact) | 2 | (d) |
| 5 | Normal kWh rate power supply | 2 | 6.3 A |
| User interface | | | |
| 6 | User interface | 2 | (e) |
| Optional equipment | | | |
| 11 | Power supply for bottom plate heater | 2 | (b) |
| 12 | Room thermostat | 2 or 3 | 100 mA ^(b) |
| 13 | Outdoor ambient temperature sensor | 2 | (b) |
| 14 | Indoor ambient temperature sensor | 2 | (b) |
| 15 | Heat pump convector | 2 | 100 mA ^(b) |
| Field supplied components | | | |
| 16 | Shut-off valve | 2 | 100 mA ^(b) |
| 17 | Electricity meter | 2 (per meter) | (b) |
| 18 | Domestic hot water pump | 2 | (b) |
| 19 | Alarm output | 2 | (b) |
| 20 | Changeover to external heat source control | 2 | (b) |
| 21 | Space heating operation control | 2 | (b) |

| Item | Description | Wires | Maximum running current |
|------|---|----------------------|-------------------------|
| 22 | Power consumption digital inputs | 2 (per input signal) | (b) |
| 23 | Safety thermostat for the main zone | 2 | (b) |
| 24 | Safety thermostat for the additional zone | 2 | (d) |

- (a) Refer to name plate on outdoor unit.
- (b) Minimum cable section 0.75 mm².
- (c) Cable section 2.5 mm².
- (d) Cable section 0.75 mm² till 1.25 mm²; maximum length: 50 m. Voltage-free contact shall ensure the minimum applicable load of 15 V DC, 10 mA.
- (e) Cable section 0.75 mm² till 1.25 mm²; maximum length: 500 m. Applicable for both single user interface and dual user interface connection.



NOTICE

More technical specifications of the different connections are indicated on the inside of the indoor unit.



NOTICE

A safety thermostat (normal closed contact) **MUST** be installed for the main zone. See "4.5.12 To connect the safety thermostat (normal closed contact)" on page 11.

| Backup heater type | Power supply | Required number of conductors |
|--------------------|--------------|-------------------------------|
| *3V | 1× 230 V | 2+GND |

4 Installation

4.1 Opening the units

4.1.1 To open the indoor unit

- Loosen and remove the screws at the bottom of the unit.
- Push on the button at the bottom of the front plate.



WARNING: Sharp edges

Take the front plate on the upper part instead of the lower part. Watch your fingers, there are sharp edges on the lower part of the front plate.

- Slide the front panel of the unit downwards and remove it.

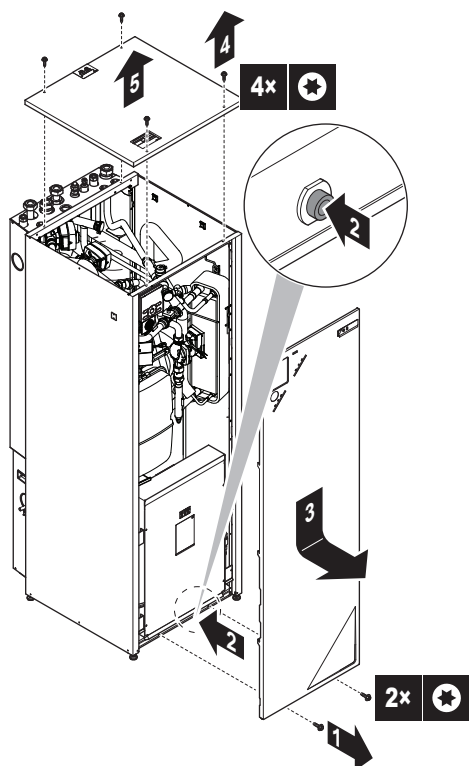


CAUTION

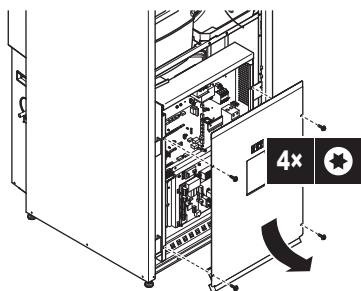
The front panel is heavy. Be careful NOT to jam your fingers when opening or closing the unit.

- Loosen and remove the 4 screws that fix the top panel.
- Remove the top panel from the unit.

4 Installation



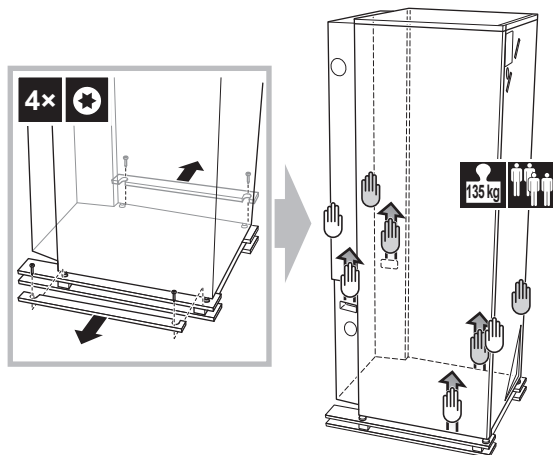
4.1.2 To open the switch box cover of the indoor unit



4.2 Mounting the indoor unit

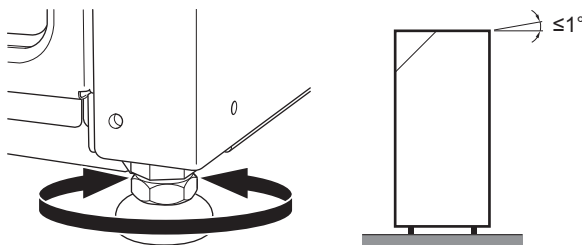
4.2.1 To install the indoor unit

- 1 Lift the indoor unit from the pallet and place it on the floor.



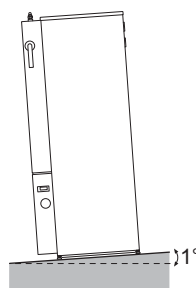
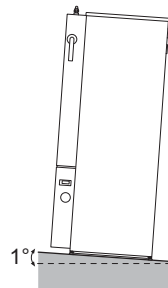
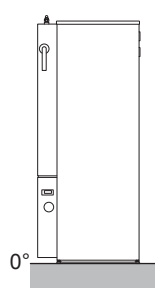
- 2 Slide the indoor unit into position.

- 3 Adjust the height of the leveling feet to compensate for floor irregularities. The maximum allowed deviation is 1°.



NOTICE

Do NOT tilt the unit backwards:

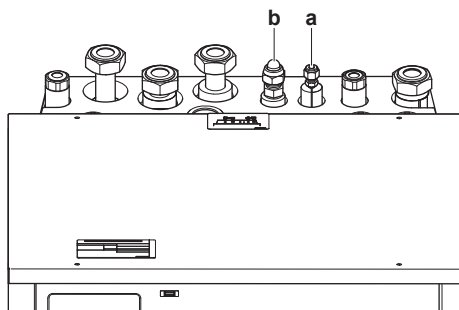


4.3 Connecting the refrigerant piping

See the outdoor unit installation manual for all guidelines, specifications and installation instructions.

4.3.1 To connect the refrigerant piping to the indoor unit

- 1 Connect the liquid stop valve from the outdoor unit to the refrigerant liquid connection of the indoor unit.



- a Refrigerant liquid connection
- b Refrigerant gas connection

- 2 Connect the gas stop valve from the outdoor unit to the refrigerant gas connection of the indoor unit.

4.4 Connecting the water piping

4.4.1 To connect the water piping



NOTICE

Do NOT use excessive force when connecting the piping. Deformation of the piping can cause malfunctioning of the unit.

To facilitate service and maintenance, 4 shut-off valves are provided. Mount the valves on the space heating water inlet and space heating water outlet. Mind their position: the integrated drain valves will only

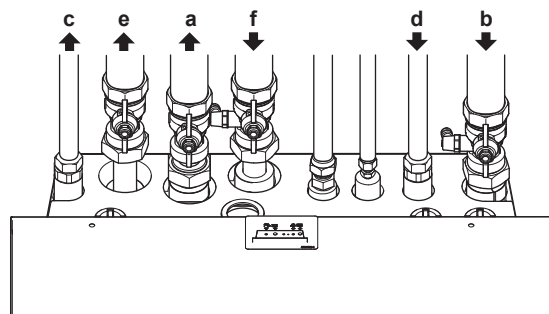
drain the side of the circuit on which they are located. To be able to only drain the unit, make sure the drain valves are positioned between the shut-off valves and the unit.

NOTICE

This unit is designed for operation on 2 temperature zones:

- underfloor heating in the **main zone**, this is the zone with the **lowest water temperature**,
- radiators in the **additional zone**, this is the zone with the **highest water temperature**.

- 1 Install the shut-off valves on the space heating water pipes.
- 2 Screw the indoor unit nuts on the shut-off valve.
- 3 Connect the domestic hot water in and out pipes to the indoor unit.



- a Space heating additional zone water out
- b Space heating additional zone water in
- c Domestic hot water out
- d Domestic cold water in (cold water supply)
- e Space heating main zone water out
- f Space heating main zone water in

NOTICE

It is recommended to install shut-off valves to domestic cold water in and domestic hot water out connections. These shut-off valves are field supplied.

NOTICE

Install air purge valves at all local high points.

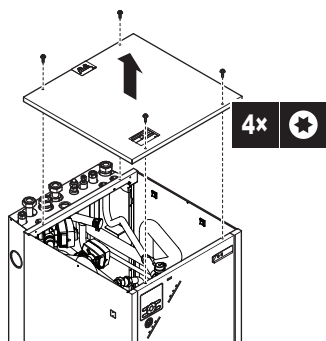
NOTICE

A pressure relief valve (field supply) with an opening pressure of maximum 10 bar must be installed on the domestic cold water inlet connection in accordance with the applicable legislation.

4.4.2 To connect the recirculation piping

Prerequisite: Only required if you need recirculation in your system.

- 1 Loosen and remove the 4 screws that fix the top panel.
- 2 Remove the top panel from the unit.

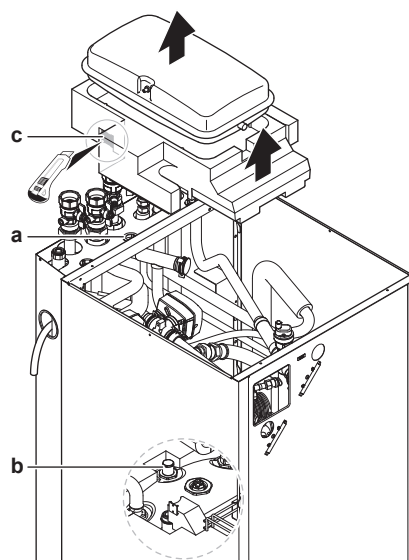


- 3 Disconnect and remove the expansion vessel of the top insulation.
- 4 Remove the top insulation.

- 5 Cut out part (c) on the left or right side from the top insulation.

| Tank capacity | Cut out position |
|---------------|------------------|
| 180 l | Left OR right |

- 6 Connect the recirculation piping to the recirculation connection (b) and route the piping through the hole at the backside of the unit (a).

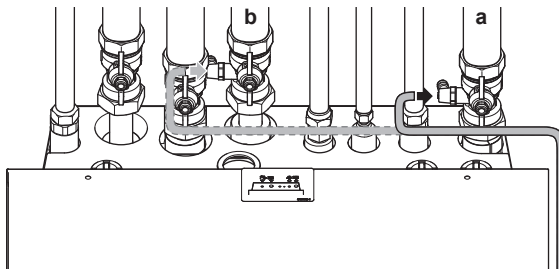


- a Piping intake hole
- b Recirculation connection
- c Cut-out location

- 7 Reattach the top insulation, expansion vessel, and casing.

4.4.3 To fill the water circuit

- 1 Connect the water supply hose to the fill valve.



INFORMATION

Please fill with water through connection a OR b. Both circuits (main and additional) will be filled.

- 2 Open the fill valve.
- 3 Make sure that the automatic air purge valve is open (at least 2 turns).
- 4 Fill the circuit with water until the manometer indicates a pressure of ± 2.0 bar.
- 5 Purge as much air as possible from the water circuit.
- 6 Close the fill valve.
- 7 Disconnect the water supply hose from the fill valve.

4.4.4 To fill the domestic hot water tank

- 1 Open every hot water tap in turn to purge air from the system pipe work.
- 2 Open the cold water supply valve.
- 3 Close all water taps after all air is purged.
- 4 Check for water leaks.

4 Installation

- Manually operate the field-installed pressure relief valve to ensure a free water flow through the discharge pipe.

4.4.5 To insulate the water piping

The piping in the complete water circuit **MUST** be insulated to prevent condensation during defrost operation and reduction of the heating capacity.

If the temperature is higher than 30°C and the humidity is higher than RH 80%, the thickness of the insulation materials should be at least 20 mm to prevent condensation on the surface of the insulation.

4.5 Connecting the electrical wiring



DANGER: RISK OF ELECTROCUTION



WARNING

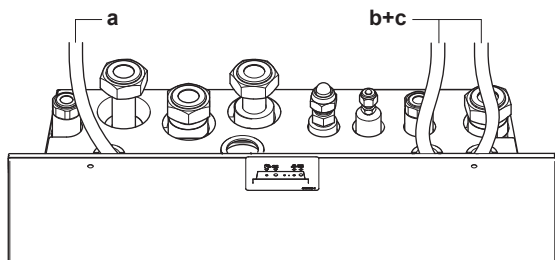
ALWAYS use multicore cable for power supply cables.

4.5.1 About electrical compliance

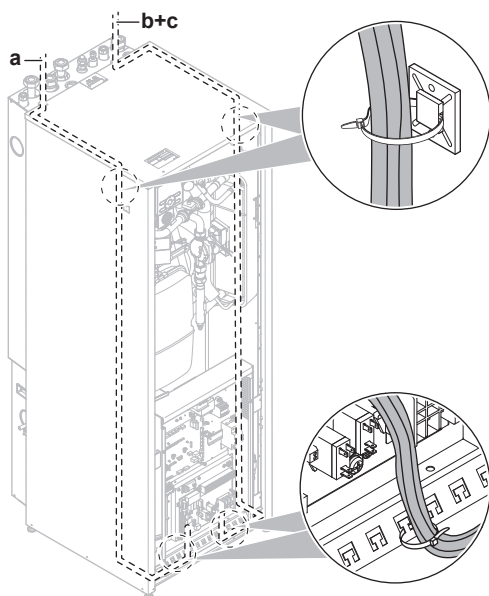
See "4.5.4 To connect the backup heater power supply" on page 9.

4.5.2 To connect the electrical wiring on the indoor unit

- To open the indoor unit, see "4.1.1 To open the indoor unit" on page 5 and "4.1.2 To open the switch box cover of the indoor unit" on page 6.
- Wiring should enter the unit from the top:



- Routing of the wiring inside the unit should be as follows:



- Fix the cable with cable ties to the cable tie mountings to ensure strain relief and to make sure that it does NOT come in contact with the piping and sharp edges.



INFORMATION

To access the domestic hot water temperature sensor, the switch box can be tilted. The switch box should **NOT** be removed from the unit.

| Routing | Possible cables (depending on unit type and installed options) |
|----------------------------------|---|
| a Low voltage | <ul style="list-style-type: none"> Preferential power supply contact User interface Power consumption digital inputs (field supply) Outdoor ambient temperature sensor (option) Indoor ambient temperature sensor (option) Electrical meters (field supply) Safety thermostat for the main zone (field supply) Safety thermostat for the additional zone (field supply) |
| b High voltage power supply | <ul style="list-style-type: none"> Interconnection cable Normal kWh rate power supply Preferential kWh rate power supply Power supply for backup heater Power supply for bottom plate heater (option) |
| c High voltage control signal | <ul style="list-style-type: none"> Heat pump convector (option) Room thermostat (option) Shut-off valve (field supply) Domestic hot water pump (field supply) Alarm output Changeover to external heat source control Space heating operation control |



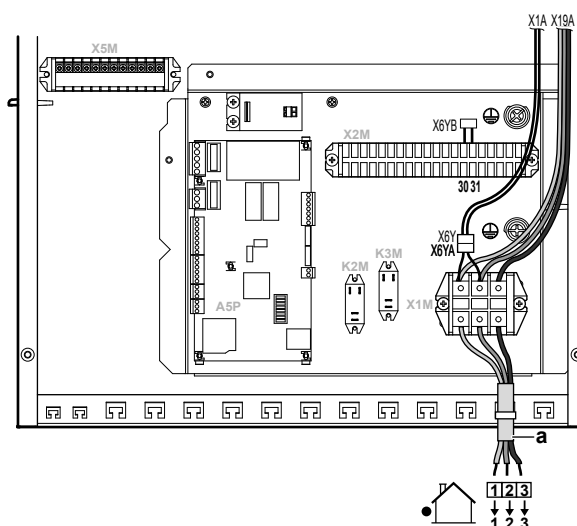
CAUTION

Do **NOT** push or place redundant cable length in the unit.

4.5.3 To connect the main power supply

- Connect the main power supply.

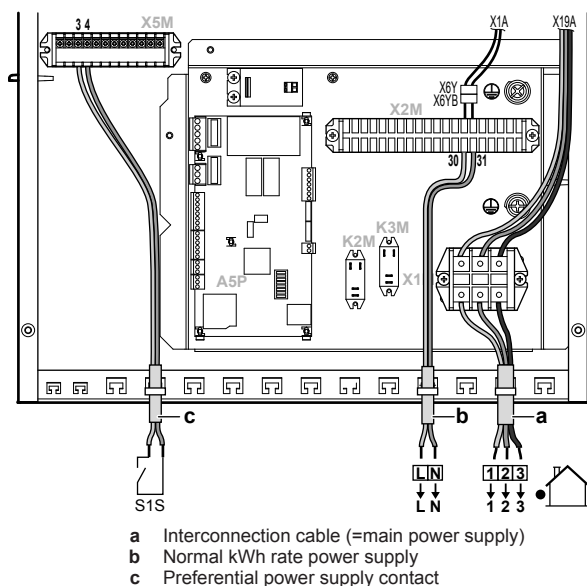
In case of normal kWh rate power supply



Legend: see illustration below.

In case of preferential kWh rate power supply

Connect X6Y to X6YB.



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

i INFORMATION

In case of preferential kWh rate power supply, connect X6Y to X6YB. The necessity of separate normal kWh rate power supply to indoor unit (b) X2M/30+31 depends on the type of preferential kWh rate power supply.

Separate connection to the indoor unit is required:

- if preferential kWh rate power supply is interrupted when active, OR
- if no power consumption of the indoor unit is allowed at the preferential kWh rate power supply when active.

i INFORMATION

The preferential kWh rate power supply contact is connected to the same terminals (X5M/3+4) as the safety thermostat for the additional zone. It is only possible for the system to have EITHER preferential kWh rate power supply OR a safety thermostat for the additional zone.

4.5.4 To connect the backup heater power supply



CAUTION

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

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 | $Z_{max}(\Omega)$ |
|--------------------|------------------------|--------------|-------------------------|-------------------|
| *3V | 3 kW | 1~ 230 V | 13 A | — |

- 1 Connect the backup heater power supply. A double-pole fuse is used for F1B.

| Backup heater type | Connections to backup heater power supply |
|---------------------|---|
| 3 kW 1~ 230 V (*3V) | |

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

4.5.5 To connect the user interface

- If you use 1 user interface, you can install it at the indoor unit (for control close to the indoor unit), or in the room (when used as room thermostat).
- If you use 2 user interfaces, you can install 1 user interface at the indoor unit (for control close to the indoor unit) + 1 user interface in the room (used as room thermostat).

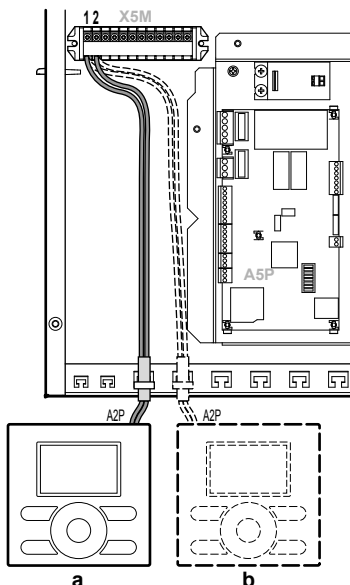
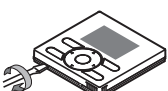
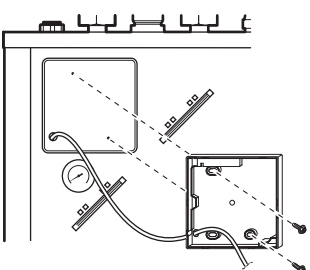


INFORMATION

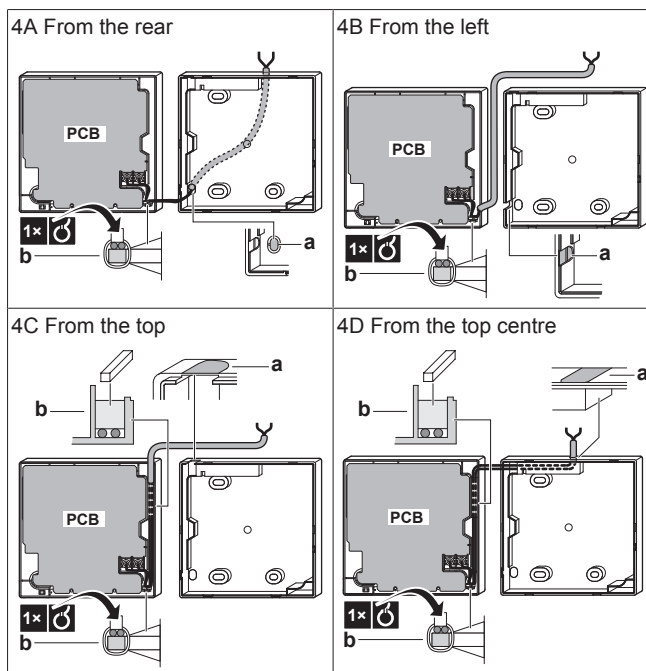
The user interface can only be used as room thermostat of the **main zone**.

The procedure differs slightly depending on where you install the user interface.

4 Installation

| # | At the indoor unit | In the room |
|---|--|---|
| 1 | <p>Connect the user interface cable to the indoor unit. Fix the cable with cable ties to the cable tie mountings.</p>  <p>a Main user interface^(a) b Optional user interface</p> | |
| 2 | <p>Insert a screwdriver into the slots underneath the user interface and carefully separate the faceplate from the wallplate. The PCB is mounted in the faceplate of the user interface. Be careful NOT to damage it.</p>  | |
| 3 | <p>Use the 2 screws in the accessory bag to fix the wallplate of the user interface to the sheet metal of the unit. Be careful NOT to distort the shape of the backside of the user interface by overtightening the mounting screws.</p>  | <p>Fix the wallplate of the user interface to the wall.</p> |
| 4 | Connect as shown in 4A. | Connect as shown in 4A, 4B, 4C or 4D. |
| 5 | <p>Reinstall the faceplate onto the wallplate. Be careful NOT to pinch the wiring when attaching the frontplate to the unit.</p> | |

(a) The main user interface is required for operation, but has to be ordered separately (mandatory option).



- a** Notch this part for the wiring to pass through with nippers etc.
b Secure the wiring to the front part of the casing using the wiring retainer and clamp.

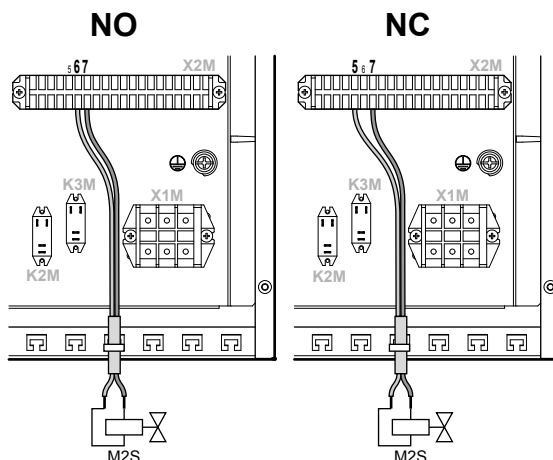
4.5.6 To connect the shut-off valve

- 1 Connect the valve control cable to the appropriate terminals as shown in the illustration below.



NOTICE

Wiring is different for a NC (normal closed) valve and a NO (normal open) valve.



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

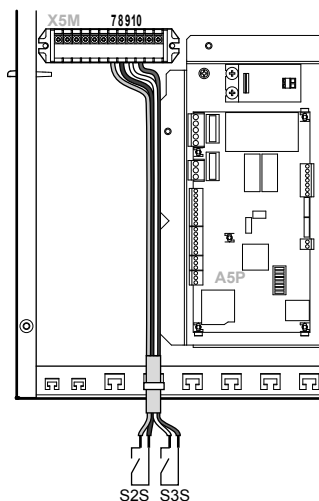
4.5.7 To connect the electrical meters



INFORMATION

In case of an electrical meter with transistor output, check the polarity. The positive polarity **MUST** be connected to X5M/7 and X5M/9; the negative polarity to X5M/8 and X5M/10.

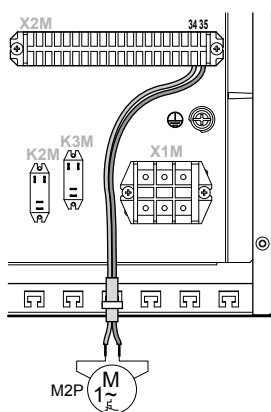
- 1 Connect the electrical meters cable to the appropriate terminals as shown in the illustration below.



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

4.5.8 To connect the domestic hot water pump

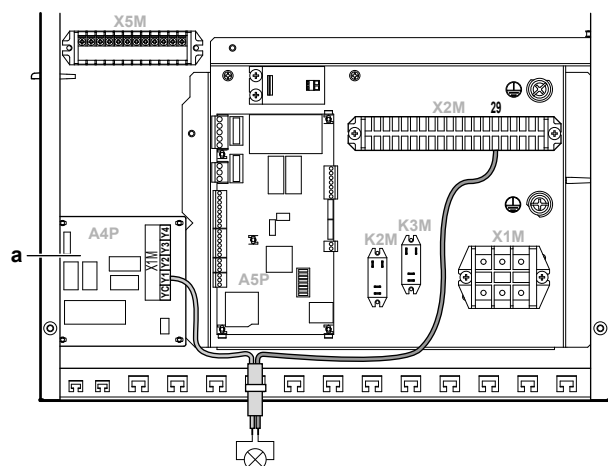
- 1 Connect the domestic hot water pump cable to the appropriate terminals as shown in the illustration below.



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

4.5.9 To connect the alarm output

- 1 Connect the alarm output cable to the appropriate terminals as shown in the illustration below.

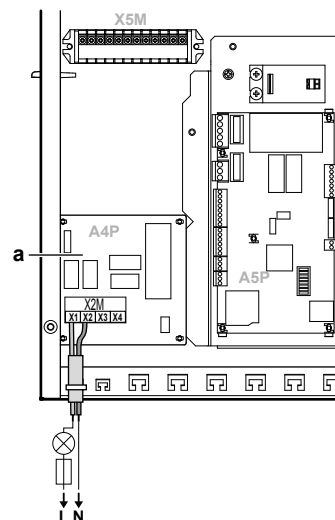


a Installation of EKR1HB is required.

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

4.5.10 To connect the changeover to external heat source

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

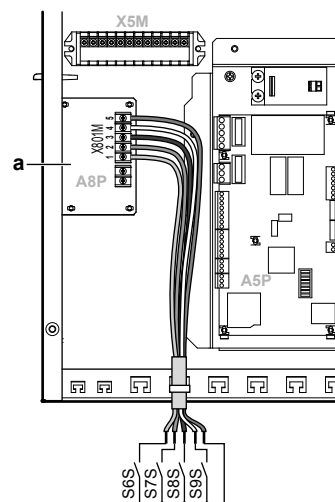


a Installation of EKR1HB is required.

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

4.5.11 To connect the power consumption digital inputs

- 1 Connect the power consumption digital inputs cable to the appropriate terminals as shown in the illustration below.



a Installation of EKR1AHTA is required.

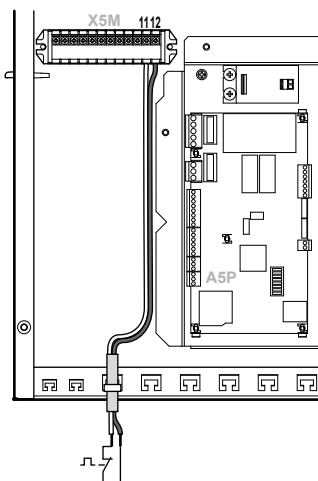
- 2 Fix the cable with cable ties to the cable tie mountings.

4.5.12 To connect the safety thermostat (normal closed contact)

Main zone

- 1 Connect the safety thermostat (normal closed) cable to the appropriate terminals as shown in the illustration below.

5 Configuration



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



INFORMATION

Installation of a safety thermostat (field supply) is required for the main zone, otherwise the unit will NOT operate.

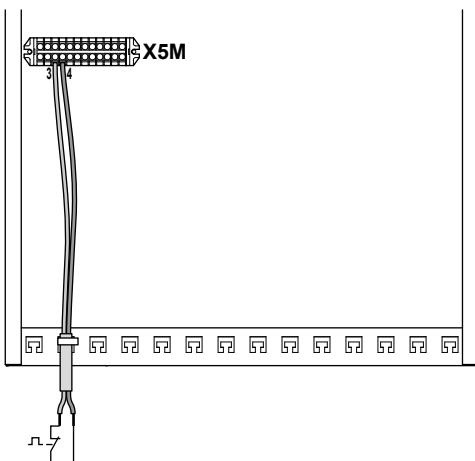


NOTICE

A safety thermostat MUST be installed on the main zone to avoid too high water temperatures in this zone. The safety thermostat is typically a thermostatically controlled valve with a normal closed contact. When the water temperature in the main zone is too high, the contact will open and the user interface will show a 8H-02 error. ONLY the main pump will stop.

Additional zone

- 3 Connect the safety thermostat (normal closed) cable to the appropriate terminals as shown in the illustration below.



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



NOTICE

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

In any case, to prevent unnecessary tripping of the safety thermostat, it is recommended that ...

- ... 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 3-way valve.



INFORMATION

After it is installed, do NOT forget to configure the safety thermostat for the additional zone. Without configuration, the indoor unit will ignore the safety thermostat contact.



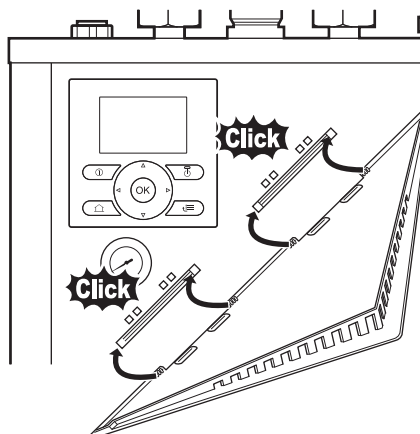
INFORMATION

The preferential kWh rate power supply contact is connected to the same terminals (X5M/3+4) as the safety thermostat for the additional zone. It is only possible for the system to have EITHER preferential kWh rate power supply OR a safety thermostat for the additional zone.

4.6 Finishing the indoor unit installation

4.6.1 To fix the user interface cover to the indoor unit

- 1 Make sure that the front panel is removed from the indoor unit. See "4.1.1 To open the indoor unit" on page 5.
- 2 Plug the user interface cover into the hinges.



- 3 Mount the front panel to the indoor unit.

4.6.2 To close the indoor unit

- 1 Close the switch box cover.
- 2 Reinstall the top plate.
- 3 Reinstall the front panel.



NOTICE

When closing the indoor unit cover, make sure that the tightening torque does NOT exceed 4.1 N•m.

5 Configuration

5.1 Overview: Configuration

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



NOTICE

The explanation about the configuration in this chapter gives you ONLY basic explanations. For more detailed explanation and background information, see the installer reference guide.

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 – Quick wizard.** When you turn ON the user interface for the first time (via the indoor unit), a quick wizard starts to help you configure the system.
- **Afterwards.** If necessary, you can make changes to the configuration afterwards.



INFORMATION

When the installer settings are changed, the user interface will request to confirm. When confirmed, the screen will shortly turn OFF and "busy" will be displayed for several seconds.

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 menu structure. | # |
| Accessing settings via the code in the overview settings. | Code |

See also:

- ["To access the installer settings" on page 13](#)
- ["5.3 Menu structure: Overview installer settings" on page 18](#)

5.1.1 To access the most used commands

To access the installer settings

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

To access the overview settings

- 1 Set the user permission level to Installer.
- 2 Go to [A.8]: > Installer settings > Overview settings.

To set the user permission level to Installer

- 1 Set the user permission level to Adv. end user.
- 2 Go to [6.4]: > Information > User permission level.
- 3 Press for more than 4 seconds.

Result: is displayed on the home pages.

- 4 If you do NOT press any button for more than 1 hour or press again for more than 4 seconds, the installer permission level switches back to End user.

To set the user permission level to Advanced end user

- 1 Go to the main menu or any of its submenus: .
- 2 Press for more than 4 seconds.

Result: The user permission level switches to Adv. end user. Additional information is displayed and "+" is added to the menu title. The user permission level will stay in Adv. end user until set otherwise.

To set the user permission level to End user

- 1 Press for more than 4 seconds.

Result: The user permission level switches to End user. The user interface will return to the default home screen.

To modify an overview setting

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

- 1 Go to [A.8]: > Installer settings > Overview settings.
- 2 Go to the corresponding screen of the first part of the setting by using the and button.



INFORMATION

An additional 0-digit is added to the first part of the setting when you access the codes in the overview settings.

Example: [1-01]: "1" will result in "01".

| Overview settings | | | | |
|----------------------------|----|----|----|----|
| 01 | | | | |
| 00 | 01 | 15 | 02 | 03 |
| 04 | 05 | 06 | 07 | |
| 08 | 09 | 0a | 0b | |
| 0c | 0d | 0e | 0f | |
| OK Confirm Adjust Scroll | | | | |

- 3 Go to the corresponding second part of the setting by using the and button.

| Overview settings | | | | |
|----------------------------|----|----|----|----|
| 01 | | | | |
| 00 | 01 | 15 | 02 | 03 |
| 04 | 05 | 06 | 07 | |
| 08 | 09 | 0a | 0b | |
| 0c | 0d | 0e | 0f | |
| OK Confirm Adjust Scroll | | | | |

Result: The value to be modified is now highlighted.

- 4 Modify the value by using the and button.

| Overview settings | | | | |
|----------------------------|----|----|----|----|
| 01 | | | | |
| 00 | 01 | 20 | 02 | 03 |
| 04 | 05 | 06 | 07 | |
| 08 | 09 | 0a | 0b | |
| 0c | 0d | 0e | 0f | |
| OK Confirm Adjust Scroll | | | | |

- 5 Repeat previous steps if you have to modify other settings.
- 6 Push to confirm the modification of the parameter.
- 7 At installer settings menu, press to confirm the settings.

| Installer settings | |
|--------------------------|--|
| The system will restart. | |
| | |
| OK Confirm Adjust | |

Result: The system will restart.

5.2 Basic configuration

5.2.1 Quick wizard: Language / time and date

| # | Code | Description |
|-------|------|---------------|
| [A.1] | N/A | Language |
| [1] | N/A | Time and date |

5 Configuration

5.2.2 Quick wizard: Standard

Backup heater configuration (only for *9W model)

| # | Code | Description |
|-----------|--------|--|
| [A.2.1.5] | [5-0D] | BUH type: <ul style="list-style-type: none"> 1 (1P,(1/1+2)): 6 kW 1~ 230 V (*9W) 3 (3P,(1/1+2)): 6 kW 3~ 230 V (*9W) 4 (3PN,(1/2)): 6 kW 3N~ 400 V (*9W) 5 (3PN,(1/1+2)): 9 kW 3N~ 400 V (*9W) |

Backup heater relay setting

| Relay setting | Backup heater operation | |
|---------------|------------------------------------|------------------------------------|
| | If backup heater step 1 is active: | If backup heater step 2 is active: |
| 1/1+2 | Relay 1 ON | Relays 1+2 ON |
| 1/2 | Relay 1 ON | Relay 2 ON |

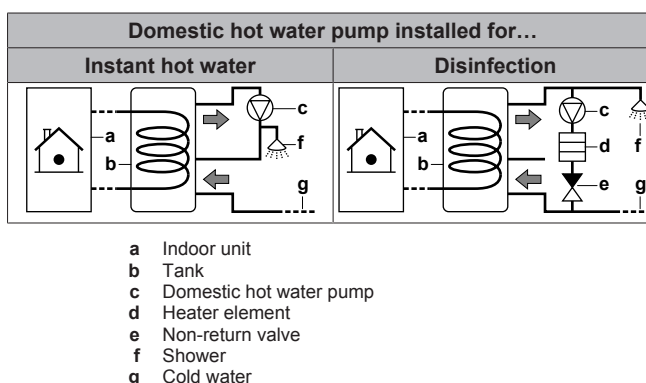
Space heating settings

| # | Code | Description |
|-----------|--------|--|
| [A.2.1.7] | [C-07] | Unit temperature control: <ul style="list-style-type: none"> 0 (LWT control): Unit operation is decided based on the leaving water temperature. This applies to both temperature zones. 1 (Ext RT control): Unit operation is decided by the external thermostat. This applies to both temperature zones. 2 (RT control): Unit operation for the main temperature zone is decided based on the ambient temperature of the user interface. The additional temperature zone is controlled by the external thermostat. |
| [A.2.1.B] | N/A | Only if there are 2 user interfaces: User interface location: <ul style="list-style-type: none"> At unit In room (controlling the main zone) |
| [A.2.1.8] | [7-02] | Number of water temperature zones: <ul style="list-style-type: none"> 0 (1 LWT zone): Main 1 (2 LWT zones): Main + additional |
| [A.2.1.9] | [F-0D] | Pump operation: This is applicable for both zones <ul style="list-style-type: none"> 0 (Continuous): Continuous pump operation, regardless of thermo ON or OFF condition. 1 (Sample): When thermo OFF condition occurs, the pump runs every 5 minutes and the water temperature is checked. If the water temperature is below target, unit operation can start. 2 (Request): Pump operation based on request. Example: Using a room thermostat and thermostat creates thermo ON/OFF condition. |

5.2.3 Quick wizard: Options

Domestic hot water settings

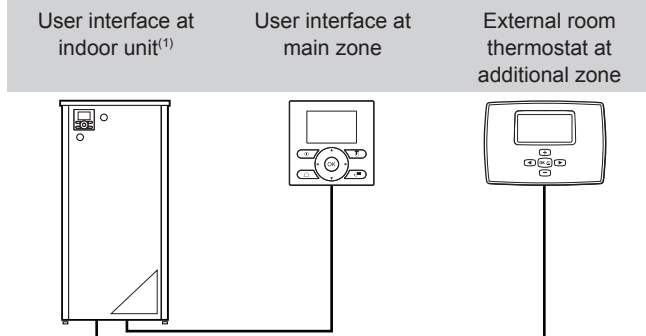
| # | Code | Description |
|-----------|--------|---|
| [A.2.2.1] | [E-05] | DHW operation: Can the system prepare domestic hot water? <ul style="list-style-type: none"> 0 (No): NOT installed 1 (Yes): Installed |
| [A.2.2.3] | [E-07] | DHW tank type: <ul style="list-style-type: none"> 0 (Type 1): N/A. 1 (Type 2)(default). The backup heater will also be used for domestic hot water heating. Range: 0~6. However, values 2~6 are not applicable for this setting. If the setting is set to 6, an error code will appear and the system will NOT operate. |
| [A.2.2.A] | [D-02] | Domestic hot water pump: <ul style="list-style-type: none"> 0 (No): NOT installed 1 (Secondary rtn): Installed for instant hot water 2 (Disinf. shunt): Installed for disinfection See also illustrations below. |



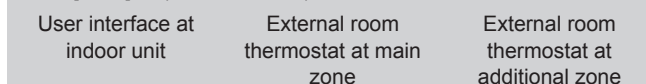
Thermostats and external sensors

Following combinations are possible to control the unit (not applicable when [C-07]=0):

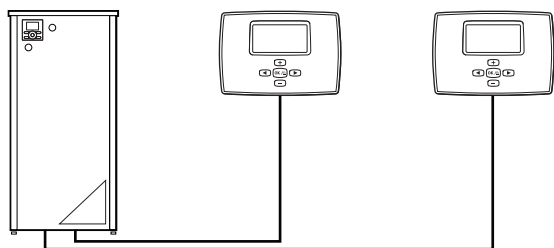
When [C-07]=2 (RT control)



When [C-07]=1 (Ext RT control)



(1) Not mandatory.

**NOTICE**

If an external room thermostat is used, the external room thermostat will control the room frost protection. However, the room frost protection is only possible if the leaving water temperature control on the unit's user interface is turned ON.

| # | Code | Description |
|-----------|--------|---|
| [A.2.2.4] | [C-05] | External room thermostat for the main zone: <ul style="list-style-type: none"> 1 (Thermo ON/OFF): When the used external room thermostat or heat pump convector can only send a thermo ON/OFF condition. 2 (H/C request): Because only heating is possible, the used external room thermostat can only send a thermo ON/OFF condition. |
| [A.2.2.5] | [C-06] | External room thermostat for the additional zone: <ul style="list-style-type: none"> 0: N/A 1 (Thermo ON/OFF): When the used external room thermostat or heat pump convector can only send a thermo ON/OFF condition. 2 (H/C request): Because only heating is possible, the used external room thermostat can only send a thermo ON/OFF condition. |
| [A.2.2.B] | [C-08] | External sensor: <ul style="list-style-type: none"> 0 (No): NOT installed. 1 (Outdoor sensor): Connected to PCB measuring the outdoor temperature. 2 (Room sensor): Connected to PCB measuring the indoor temperature. |

Digital I/O PCB

| # | Code | Description |
|-------------|--------|--|
| [A.2.2.6.1] | [C-02] | External backup heater source: <ul style="list-style-type: none"> 0 (No): None 1 (Bivalent): Gas, oil boiler 2: N/A 3: N/A |

| # | Code | Description |
|-------------|--------|--|
| [A.2.2.6.3] | [C-09] | Alarm output on optional EKR1HB PCB: <ul style="list-style-type: none"> 0 (Normally open): The alarm output will be powered when an alarm occurs. By setting this value, a distinction is made between the detection of an alarm, and the detection of a power failure. 1 (Normally closed): The alarm output will NOT be powered when an alarm occurs. See also table below (Alarm output logic). |
| [A.2.2.6.4] | [F-04] | Bottom plate heater <ul style="list-style-type: none"> 0 (No): NOT installed 1 (Yes): Installed |

Alarm output logic

| [C-09] | Alarm | No alarm | No power supply to unit |
|-------------|---------------|---------------|-------------------------|
| 0 (default) | Closed output | Open output | Open output |
| 1 | Open output | Closed output | |

Demand PCB

| # | Code | Description |
|-----------|--------|--|
| [A.2.2.7] | [D-04] | Demand PCB Only applicable for EHVZ04+08. Indicates if the optional demand PCB is installed. <ul style="list-style-type: none"> 0 (No) 1 (Pwr consmp ctrl) |

Energy metering

| # | Code | Description |
|-----------|--------|--|
| [A.2.2.8] | [D-08] | Optional external kWh meter 1: <ul style="list-style-type: none"> 0 (No): NOT installed 1: Installed (0.1 pulse/kWh) 2: Installed (1 pulse/kWh) 3: Installed (10 pulse/kWh) 4: Installed (100 pulse/kWh) 5: Installed (1000 pulse/kWh) |
| [A.2.2.9] | [D-09] | Optional external kWh meter 2: <ul style="list-style-type: none"> 0 (No): NOT installed 1: Installed (0.1 pulse/kWh) 2: Installed (1 pulse/kWh) 3: Installed (10 pulse/kWh) 4: Installed (100 pulse/kWh) 5: Installed (1000 pulse/kWh) |

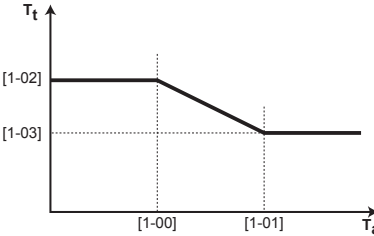
5.2.4 Quick wizard: Capacities (energy metering)

| # | Code | Description |
|-----------|--------|----------------------------------|
| [A.2.3.1] | [6-02] | N/A |
| [A.2.3.6] | [6-07] | Bottom plate heater capacity [W] |

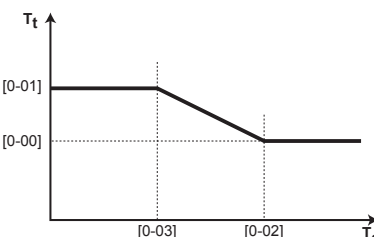
5 Configuration

5.2.5 Space heating control

Leaving water temperature: Main zone

| # | Code | Description |
|-------------|--------------------------------------|--|
| [A.3.1.1.1] | N/A | Set point mode: <ul style="list-style-type: none"> 0 (Fixed): Absolute 1 (Weather dep.): Weather-dependent 2 (Fixed/scheduled): Absolute + scheduled (only for leaving water temperature control) 3 (WD/scheduled): Weather-dependent + scheduled (only for leaving water temperature control) |
| [7.7.1.1] | [1-00] [1-01] [1-02] [1-03] | Weather-dependent curve:  <ul style="list-style-type: none"> T_t: Target leaving water temperature (main) T_a: Outdoor temperature |

Leaving water temperature: Additional zone

| # | Code | Description |
|-------------|--------------------------------------|--|
| [A.3.1.2.1] | N/A | Set point mode: <ul style="list-style-type: none"> 0 (Fixed): Absolute 1 (Weather dep.): Weather-dependent 2 (Fixed/scheduled): Absolute + scheduled (only for leaving water temperature control) 3 (WD/scheduled): Weather-dependent + scheduled (only for leaving water temperature control) |
| [7.7.2.1] | [0-00] [0-01] [0-02] [0-03] | Weather-dependent curve:  <ul style="list-style-type: none"> T_t: Target leaving water temperature (additional) T_a: Outdoor temperature |

Leaving water temperature: Delta T source

| # | Code | Description |
|-------------|--------|--|
| [A.3.1.3.1] | [9-09] | Required temperature difference between entering and leaving water. This applies to both temperature zones. In case a minimum temperature difference is required for the good operation of the heat emitters in heating mode. |

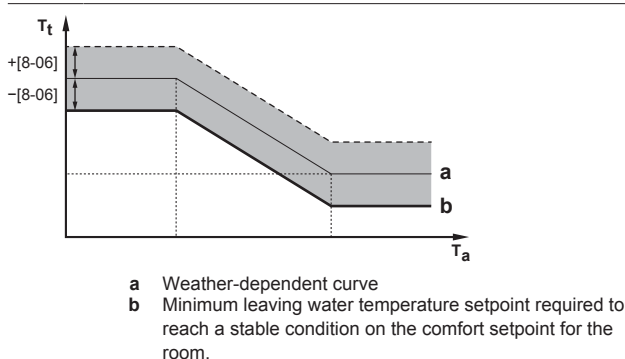
Leaving water temperature: Modulation

| # | Code | Description |
|-------------|--------|--|
| [A.3.1.1.5] | [8-05] | Leaving water temperature modulation: <ul style="list-style-type: none"> 0 (No): Disabled 1 (Yes): Enabled. The leaving water temperature is calculated according to the difference between desired and actual room temperature. This allows better matching of the heat pump capacity to actual required capacity and results in less start/stop cycles of the heat pump and more economic operation. |
| N/A | [8-06] | Leaving water temperature maximum modulation: 0°C~10°C (default: 3°C) Requires modulation to be enabled. This is the value by which the desired leaving water temperature is increased or lowered. |



INFORMATION

When leaving water temperature modulation is enabled, the weather-dependent curve needs to be set to a higher position than [8-06] plus the minimum leaving water temperature setpoint required to reach a stable condition on the comfort setpoint for the room. To increase efficiency, modulation can lower the leaving water setpoint. By setting the weather-dependent curve to a higher position, it cannot drop below the minimum setpoint. Refer to the illustration below.



Leaving water temperature: Emitter type

| # | Code | Description |
|-------------|--------|---|
| [A.3.1.1.7] | [9-0B] | <p>Reaction time of the system:</p> <p>Set for the main temperature zone</p> <ul style="list-style-type: none"> 0: Quick. Example: Small water volume and fan coils. 1: Slow. Example: Large water volume, floor heating loops. <p>Depending on the system water volume and the heat emitters type, the heat up of a space can take longer. This setting can compensate for a slow or a quick heating system by adjusting the unit capacity during the heat up cycle.</p> |

5.2.6 Domestic hot water control

| # | Code | Description |
|---------|--------|--|
| [A.4.1] | [6-0D] | <p>Domestic hot water Type:</p> <ul style="list-style-type: none"> 0 (Reheat only): Only reheat operation is allowed. 1 (Reheat + sched.): Same as 2, but between the scheduled heatup cycles, reheat operation is allowed. 2 (Scheduled only): The domestic hot water tank can ONLY be heated according to a schedule. |
| [A.4.5] | [6-0E] | <p>The maximum temperature that users can select for the domestic hot water. You can use this setting to limit the temperature at the hot water taps.</p> |



INFORMATION

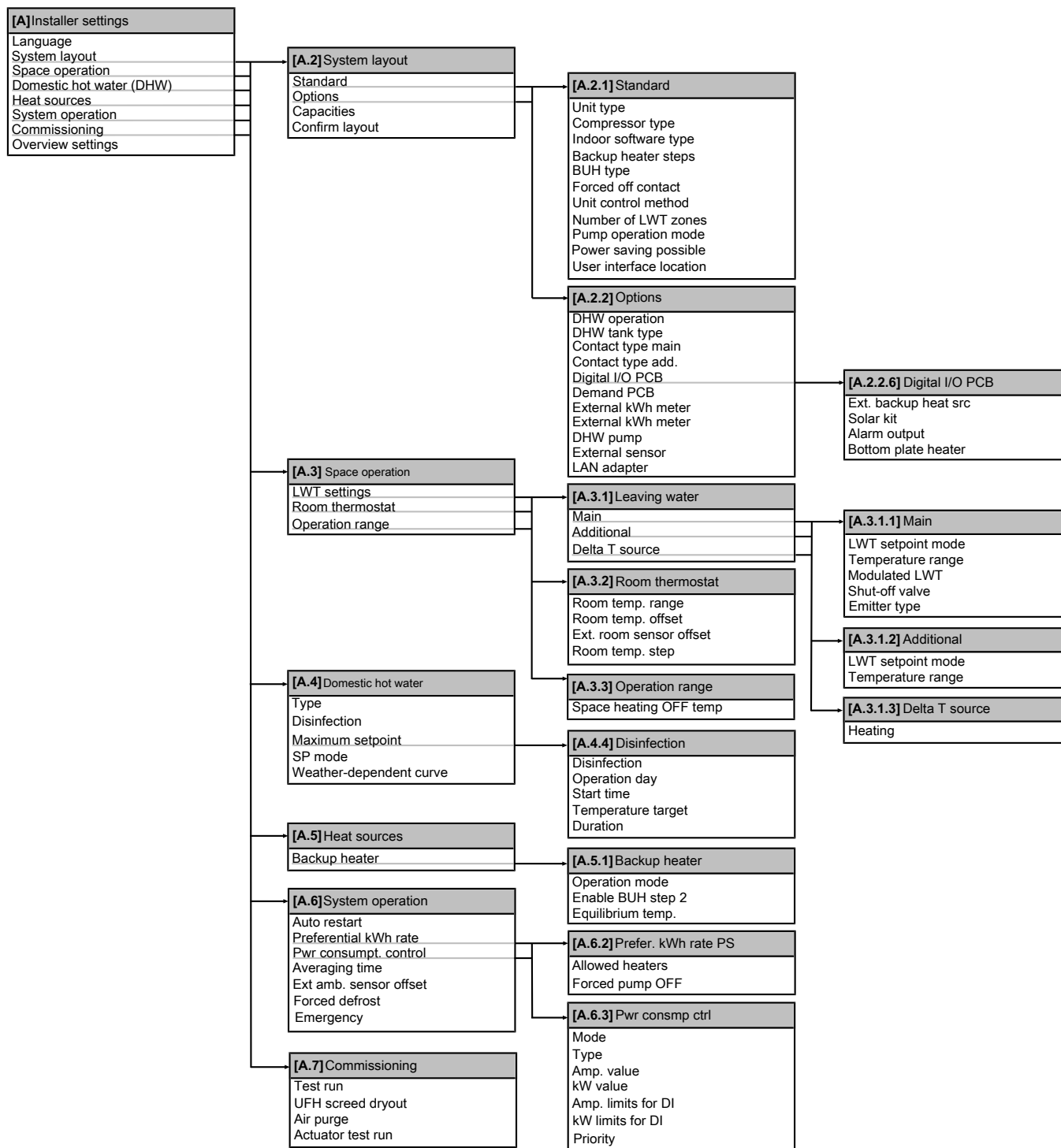
There is a risk of space heating capacity shortage/comfort problem (in case of frequent domestic hot water operation, frequent and long space heating interruption will happen) when selecting [6-0D]=0 ([A.4.1] Domestic hot water Type=Reheat only).

5.2.7 Contact/helpdesk number

| # | Code | Description |
|---------|------|---|
| [6.3.2] | N/A | Number that users can call in case of problems. |

5 Configuration

5.3 Menu structure: Overview installer settings



INFORMATION

Depending on the selected installer settings and unit type, settings will be visible/invisible.

6 Commissioning



NOTICE

NEVER operate the unit without thermistors and/or pressure sensors/switches. Burning of the compressor might result.

6.1 Checklist before commissioning

Do NOT operate the system before the following checks are OK:

| | |
|--------------------------|--|
| <input type="checkbox"/> | You read the complete installation instructions, as described in the installer reference guide . |
| <input type="checkbox"/> | The indoor unit is properly mounted. |
| <input type="checkbox"/> | The outdoor unit is properly mounted. |
| <input type="checkbox"/> | The following field wiring has been carried out according to this document and the applicable legislation: <ul style="list-style-type: none"> Between the local supply panel and the outdoor unit Between indoor unit and outdoor unit Between the local supply panel and the indoor unit Between the indoor unit and the valves (if applicable) Between the indoor unit and the room thermostat (if applicable) |
| <input type="checkbox"/> | The system is properly earthed and the earth terminals are tightened. |
| <input type="checkbox"/> | The fuses or locally installed protection devices are installed according to this document, and have NOT been bypassed. |
| <input type="checkbox"/> | The power supply voltage matches the voltage on the identification label of the unit. |
| <input type="checkbox"/> | There are NO loose connections or damaged electrical components in the switch box. |
| <input type="checkbox"/> | There are NO damaged components or squeezed pipes on the inside of the indoor and outdoor units. |
| <input type="checkbox"/> | Backup heater circuit breaker F1B on the switch box is turned ON. |
| <input type="checkbox"/> | There are NO refrigerant leaks . |
| <input type="checkbox"/> | The refrigerant pipes (gas and liquid) are thermally insulated. |
| <input type="checkbox"/> | The correct pipe size is installed and the pipes are properly insulated. |
| <input type="checkbox"/> | There is NO water leak inside the indoor unit. |
| <input type="checkbox"/> | The shut-off valves are properly installed and fully open. |
| <input type="checkbox"/> | The stop valves (gas and liquid) on the outdoor unit are fully open. |
| <input type="checkbox"/> | The air purge valve is open (at least 2 turns). |
| <input type="checkbox"/> | The pressure relief valve purges water when opened. |
| <input type="checkbox"/> | The minimum water volume is guaranteed in all conditions. See "To check the water volume" in "3.2 Preparing water piping" on page 4 . |
| <input type="checkbox"/> | The safety thermostat is connected. |



INFORMATION

The software is equipped with an "installer-on-site" mode ([4-0E]), that disables automatic operation by the unit. At first installation, setting [4-0E] is by default set to "1", meaning automatic operation is disabled. All protective functions are then disabled. If the user interface home pages are off, the unit will NOT operate automatically. To enable automatic operation and the protective functions, set [4-0E] to "0".

36 hours after the first power-on, the unit will automatically set [4-0E] to "0", ending "installer-on-site" mode and enabling the protective functions. If – after first installation – the installer returns to the site, the installer has to set [4-0E] to "1" manually.

6.2 Checklist during commissioning

| | |
|--------------------------|--|
| <input type="checkbox"/> | The minimum flow rate during backup heater/defrost operation is guaranteed in all conditions. See "To check the water volume and flow rate" in "3.2 Preparing water piping" on page 4 . |
| <input type="checkbox"/> | To perform an air purge . |
| <input type="checkbox"/> | To perform a test run . |
| <input type="checkbox"/> | To perform an actuator test run . |
| <input type="checkbox"/> | Underfloor screed dryout function The underfloor screed dryout function is started (if necessary). |

6.2.1 To check the minimum flow rate

Mandatory procedure for the additional zone


- 1 Confirm according to the hydraulic configuration which space heating loops can be closed due to mechanical, electronic, or other valves.
- 2 Close all space heating loops that can be closed (see previous step).
- 3 Start the pump test run operation (see ["6.2.4 To perform an actuator test run" on page 20](#)).
- 4 Go to [6.1.8]: > Information > Sensor information > Flow rate to check the flow rate. During pump test run operation, the unit can operate below this minimum required flow rate that is needed during defrost/backup heater operation.

| Bypass valve foreseen? | |
|---|--|
| Yes | No |
| Modify the bypass valve setting to reach the minimum required flow rate + 2 l/min | In case the actual flow rate is below the minimum flow rate (required during defrost/backup heater operation), modifications at hydraulic configuration are required. Increase the space heating loops that can NOT be closed or install a pressure controlled bypass valve. |

Recommended procedure for the main zone

- 5 Confirm according to the hydraulic configuration which space heating loops can be closed due to mechanical, electronic, or other valves.
- 6 Close all space heating loops that can be closed (see previous step).
- 7 Create a thermo request on the main zone only.
- 8 Wait 1 minute until the unit is stabilized.

6 Commissioning


- 9 If the additional pump is still assisting (the green LED on the right hand sided pump is ON), increase the flow until the additional pump is NOT assisting anymore (LED is OFF).
- 10 Go to [6.1.8]:  > Information > Sensor information > Flow rate to check the flow rate.


| Bypass valve foreseen? | |
|---|--|
| Yes | No |
| Modify the bypass valve setting to reach the minimum required flow rate + 2 l/min | In case the actual flow rate is below the minimum flow rate (required during defrost/backup heater operation), modifications at hydraulic configuration are required. Increase the space heating loops that can NOT be closed or install a pressure controlled bypass valve. |

| Minimum required flow rate during defrost/backup heater operation | |
|---|----------|
| 04+08 models | 12 l/min |
| 16 model | 15 l/min |

6.2.2 To perform an air purge

Prerequisite: Make sure that the leaving water temperature home page, room temperature home page, and domestic hot water home page are turned OFF.

- 1 Go to [A.7.3]:  > Installer settings > Commissioning > Air purge.
- 2 Set the type.
- 3 Select Start air purge and press **OK**.
- 4 Select OK and press **OK**.

Result: The air purge starts. It stops automatically when done. To stop it manually, press , select OK and press **OK**.



INFORMATION

For both manual and automatic air purge, 1 temperature zone is purged with each air purge start. To purge the other temperature zone, you have to restart the air purge function. When performing an air purge for the first time, the main temperature zone will be purged.


6.2.3 To perform a test run




INFORMATION

The test run only applies to the additional temperature zone.

Prerequisite: Make sure that the leaving water temperature home page, room temperature home page, and domestic hot water home page are turned OFF.

- 1 Set the user permission level to Installer. See ["To set the user permission level to Installer" on page 13](#).
- 2 Go to [A.7.1]:  > Installer settings > Commissioning > Test run.
- 3 Select a test and press **OK**. **Example:** Heating.
- 4 Select OK and press **OK**.

Result: The test run starts. It stops automatically when done (± 30 min). To stop it manually, press , select OK and press **OK**.




INFORMATION

If 2 user interfaces are present, you can start a test run from both user interfaces.

- The user interface used to start the test run displays a status screen.
- The other user interface displays a "busy" screen. You cannot use the user interface as long as the "busy" screen is shown.

6.2.4 To perform an actuator test run

Prerequisite: Make sure that the leaving water temperature home page, room temperature home page, and domestic hot water home page are turned OFF.

- 1 Set the user permission level to Installer. See ["To set the user permission level to Installer" on page 13](#).
- 2 Make sure the room temperature control, the leaving water temperature control and the domestic hot water control are turned OFF via the user interface.
- 3 Go to [A.7.4]:  > Installer settings > Commissioning > Actuator test run.
- 4 Select an actuator and press **OK**. **Example:** Pump.
- 5 Select OK and press **OK**.

Result: The actuator test run starts. It automatically stops when finished. To stop it manually, press , select OK and press **OK**.

Possible actuator test runs

- Backup heater (step 1) test
- Pump test (only the pump of the additional temperature zone)



INFORMATION


Make sure that all air is purged before executing the test run. Also avoid disturbances in the water circuit during the test run.


- 2-way valve test
- 3-way valve test (3-way valve for switching between space heating and tank heating)
- Bottom plate heater test
- Bivalent signal test
- Alarm output test
- Heating signal test
- Quick heat-up test
- Circulation pump test

6.2.5 To perform an underfloor heating screed dryout

Prerequisite: Make sure there is ONLY 1 user interface connected to your system to perform an underfloor heating screed dryout.

Prerequisite: Make sure that the leaving water temperature home page, room temperature home page, and domestic hot water home page are turned OFF.

- 1 Go to [A.7.2]:  > Installer settings > Commissioning > UFH screed dryout.
- 2 Set a dryout program.
- 3 Select Start dryout and press **OK**.
- 4 Select OK and press **OK**.

Result: The underfloor heating screed dryout starts. It stops automatically when done. To stop it manually, press , select OK and press **OK**.

**NOTICE**

To perform an underfloor heating screed dryout, room frost protection needs to be disabled ([2-06]=0). By default, it is enabled ([2-06]=1). However, due to the "installer-on-site" mode (see "Checklist before commissioning"), room frost protection will be automatically disabled for 36 hours after the first power-on.

If the screed dryout still needs to be performed after the first 36 hours of power-on, manually disable room frost protection by setting [2-06] to "0", and KEEP it disabled until the screed dryout has finished. Ignoring this notice will result in cracking of the screed.

**NOTICE**

For the underfloor heating screed dryout to be able to start, make sure the following settings are met:

- [4-00]=1
- [C-02]=0
- [D-01]=0
- [4-08]=0
- [4-01]≠1

7 Hand-over to the user

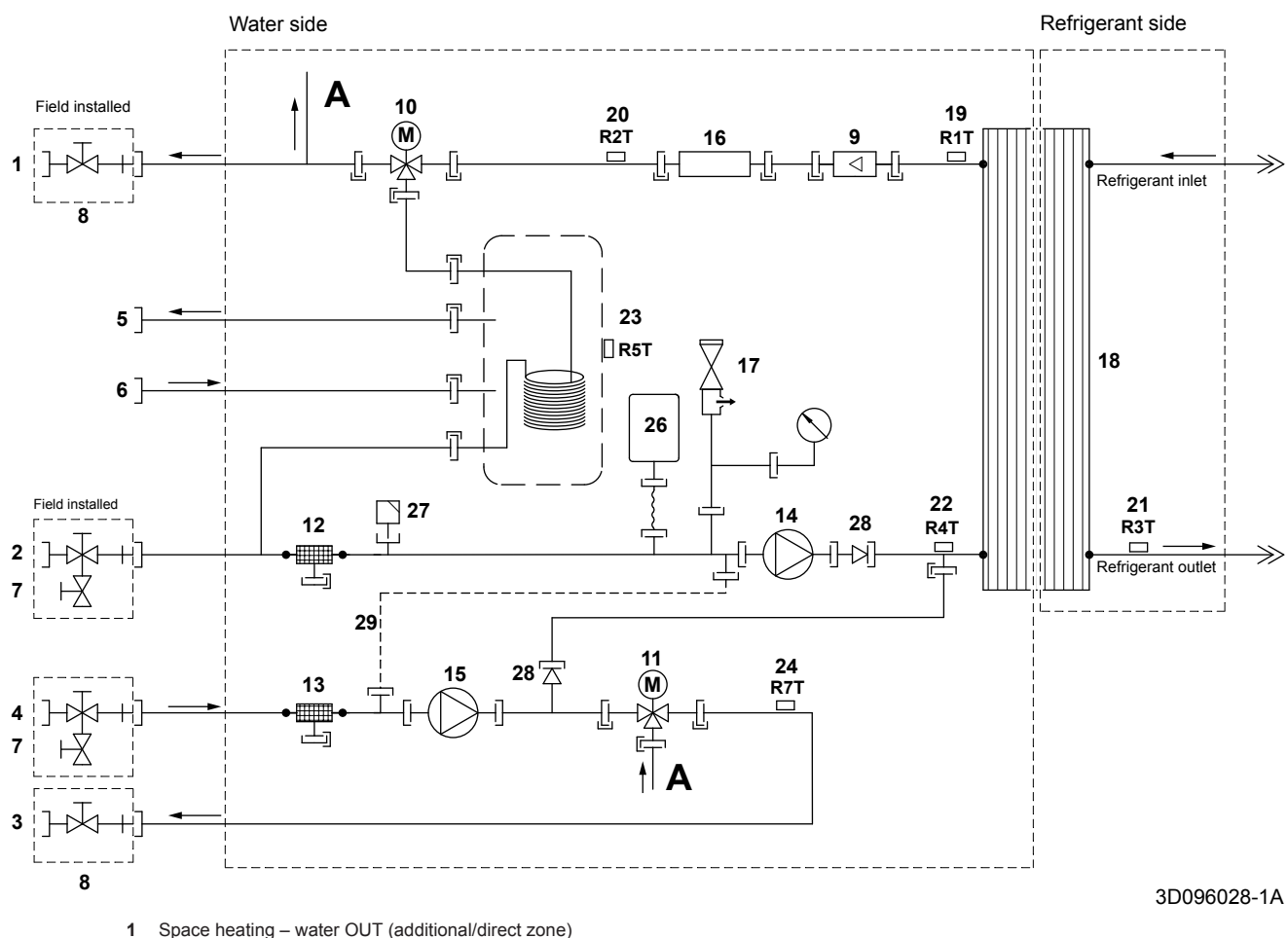
Once the test run is finished and the unit operates properly, please make sure the following is clear for the user:

- Fill in the installer setting table (in the operation manual) with the actual settings.
- Make sure that the user has the printed documentation and ask him/her to keep it for future reference. Inform the user that he can find the complete documentation on the url as earlier described in this manual.
- Explain the user how to properly operate the system and what to do in case of problems.
- Show the user what to do in relation to maintaining the unit.
- Explain the user about energy saving tips as described in the operation manual.

8 Technical data

A **subset** of the latest technical data is available on the regional Daikin website (publicly accessible). The **full set** of latest technical data is available on the Daikin extranet (authentication required).

8.1 Piping diagram: Indoor unit



8 Technical data

- 2 Space heating – water IN (additional/direct zone)
- 3 Space heating – water OUT (main/mixed zone)
- 4 Space heating – water IN (main/mixed zone)
- 5 Domestic hot water: hot water out
- 6 Domestic hot water: cold water in
- 7 Shut-off valve with drain/fill valve
- 8 Shut-off valve
- 9 Flow sensor
- 10 3-way valve (space heating/domestic hot water)
- 11 3-way valve (mixing valve for the main/mixed zone)
- 12 Water filter (additional/direct zone)
- 13 Water filter (main/mixed zone)
- 14 Pump (additional/direct zone)
- 15 Pump (main/mixed zone)
- 16 Backup heater
- 17 Safety valve
- 18 Plate heat exchanger
- 19 R1T – Outlet water heat exchanger thermistor
- 20 R2T – Outlet water backup heater thermistor
- 21 R3T – Thermistor (heat exchanger, liquid pipe)
- 22 R4T – Inlet water thermistor
- 23 R5T – Tank thermistor
- 24 R7T – Water outlet thermistor (main/mixed zone)
- 26 Expansion vessel
- 27 Air purge
- 28 Check valve
- 29 Capillary tube



Screw connection



Flare connection



Quick coupling



Brazen connection

8.2 Wiring diagram: Indoor unit

See the internal wiring diagram supplied with the unit (on the inside of the indoor unit switch box cover). The abbreviations used are listed below.

Notes to go through before starting the unit

| English | Translation |
|---|---|
| Notes to go through before starting the unit | Notes to go through before starting the unit |
| X1M | Main terminal |
| X2M | Field wiring terminal for AC |
| X5M | Field wiring terminal for DC |
| ----- | Earth wiring |
| 15 | Wire number 15 |
| ----- | Field supply |
| → **/12.2 | Connection ** continues on page 12 column 2 |
| ① | Several wiring possibilities |
| | Option |
| | Not mounted in switch box |
| | Wiring depending on model |
| | PCB |
| User installed options | User installed options |
| <input type="checkbox"/> Domestic hot water tank | <input type="checkbox"/> Domestic hot water tank |
| <input type="checkbox"/> Remote user interface | <input type="checkbox"/> Remote user interface |
| <input type="checkbox"/> Ext. indoor thermistor | <input type="checkbox"/> External indoor thermistor |
| <input type="checkbox"/> Ext outdoor thermistor | <input type="checkbox"/> External outdoor thermistor |
| <input type="checkbox"/> Digital I/O PCB | <input type="checkbox"/> Digital I/O PCB |
| <input type="checkbox"/> Demand PCB | <input type="checkbox"/> Demand PCB |
| <input type="checkbox"/> Bottom plate heater | <input type="checkbox"/> Bottom plate heater |
| Main LWT | Main leaving water temperature |
| <input type="checkbox"/> On/OFF thermostat (wired) | <input type="checkbox"/> On/OFF thermostat (wired) |
| <input type="checkbox"/> On/OFF thermostat (wireless) | <input type="checkbox"/> On/OFF thermostat (wireless) |
| <input type="checkbox"/> Ext. thermistor | <input type="checkbox"/> External thermistor |
| <input type="checkbox"/> Heat pump convector | <input type="checkbox"/> Heat pump convector |
| <input type="checkbox"/> Safety thermostat | <input type="checkbox"/> Safety thermostat |
| Add LWT | Additional leaving water temperature |
| <input type="checkbox"/> On/OFF thermostat (wired) | <input type="checkbox"/> On/OFF thermostat (wired) |
| <input type="checkbox"/> On/OFF thermostat (wireless) | <input type="checkbox"/> On/OFF thermostat (wireless) |
| <input type="checkbox"/> Ext. thermistor | <input type="checkbox"/> External thermistor |
| <input type="checkbox"/> Heat pump convector | <input type="checkbox"/> Heat pump convector |

Position in switch box

| English | Translation |
|------------------------|------------------------|
| Position in switch box | Position in switch box |

Legend

| | |
|-----|---|
| A1P | Main PCB |
| A2P | User interface PCB |
| A3P | * On/OFF thermostat (PC=power circuit) |
| A3P | * Heat pump convector |
| A4P | * Digital I/O PCB |
| A4P | * Receiver PCB (Wireless On/OFF thermostat) |
| A5P | Bizone PCB |
| A6P | Current loop PCB |

| | |
|----------------|--|
| A7P | Anode driver PCB |
| A8P | * Demand PCB |
| B1L | Flow sensor |
| DS1 (A5P) | DIP switch |
| DS1 (A8P) | DIP switch |
| E1A | Electrical anode |
| E3H | Backup heater element (3 kW) |
| F1B | Overcurrent fuse backup heater |
| F1T | Thermal fuse backup heater |
| F1U (A4P) | * Fuse 5 A 250 V for digital I/O PCB |
| F2U (A4P) | * Fuse 5 A 250 V for digital I/O PCB |
| F1U (A5P) | Fuse T 2 A 250 V for PCB |
| F2U (A5P) | Fuse T 2 A 250 V for PCB |
| FU1 (A1P) | Fuse T 6.3 A 250 V for PCB |
| K1M | Contacteur backup heater |
| K2M | Relay 3-way valve bypass |
| K3M | Relay 3-way valve flow |
| K*R (A1P, A4P) | Relay on PCB |
| M1P | Additional zone pump |
| M2P | # Domestic hot water pump |
| M3P | Main zone pump |
| M1S | Mixing 3-way valve |
| M2S | # 2-way valve for cooling mode |
| M3S | 3-way valve for space heating/domestic hot water |
| PC (A4P) | Power circuit |
| PHC1 (A4P) | * Optocoupler input circuit |
| Q*DI | # Earth leakage circuit breaker |
| Q1L | Thermal protector backup heater |
| Q3L | # Safety thermostat |
| R1H (A3P) | * Humidity sensor |
| R1T (A1P) | Outlet water heat exchanger thermistor |
| R1T (A2P) | Ambient sensor user interface |
| R1T (A3P) | * Ambient sensor On/OFF thermostat |
| R2T (A1P) | Outlet backup heater thermistor |
| R2T (A3P) | * External sensor (floor or ambient) |
| R3T | Refrigerant liquid side thermistor |
| R4T | Inlet water thermistor |
| R5T | Domestic hot water thermistor |
| R6T | * External indoor or outdoor ambient thermistor |
| R7T | Mixed leaving water thermistor |
| S1S | # Preferential kWh rate power supply contact |
| S2S | # Electrical meter pulse input 1 |
| S3S | # Electrical meter pulse input 2 |
| S4S | # Safety thermostat |
| S6S~S9S | # Digital power limitation inputs |
| SS1 (A4P) | * Selector switch |
| TR1 | Power supply transformer |
| CN1-2, X*A | Connector |
| X*H, X*Y | |

8 Technical data

X*M Terminal strip
 * = Optional
 # = Field supply

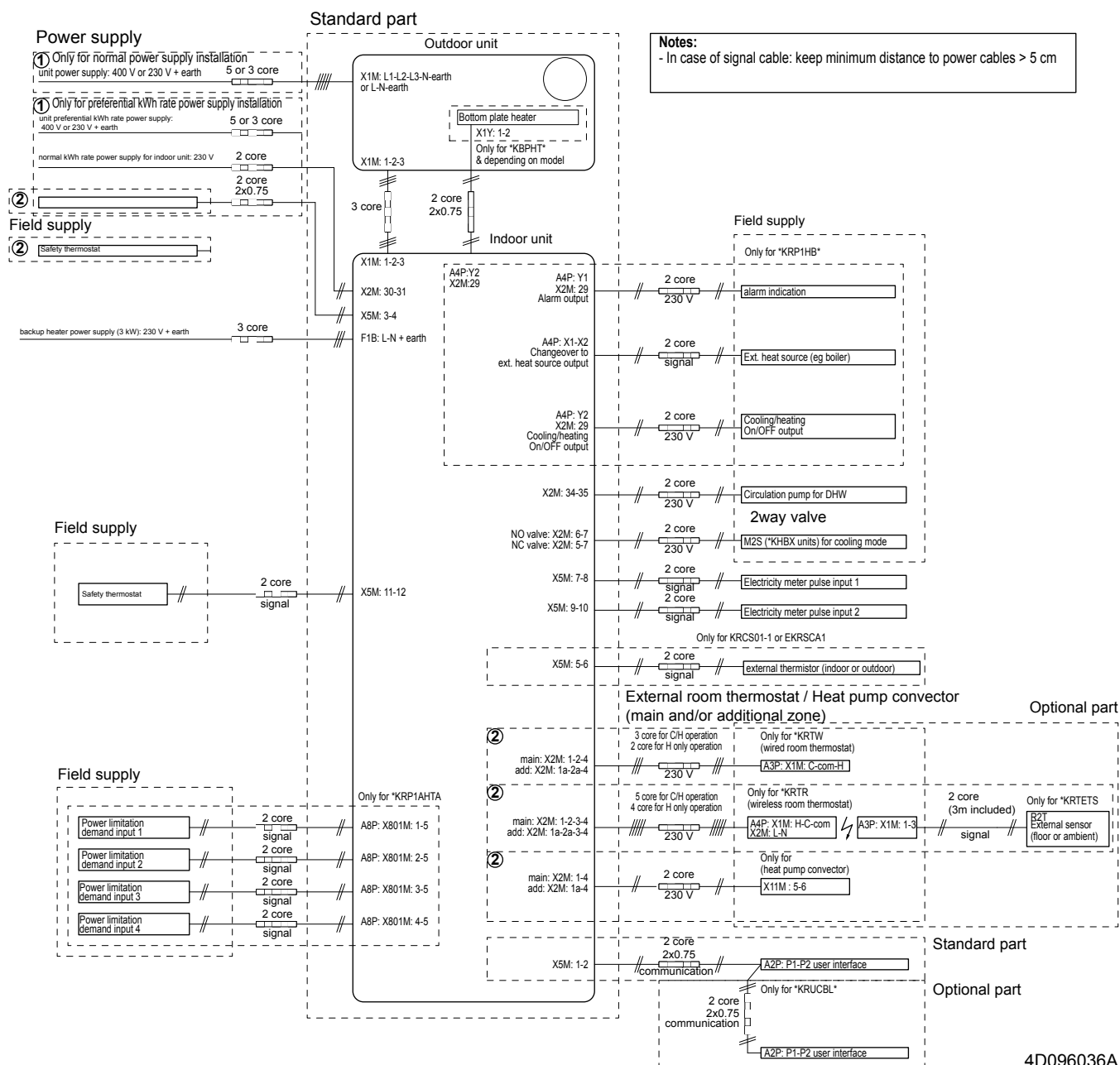
Translation of text on wiring diagram

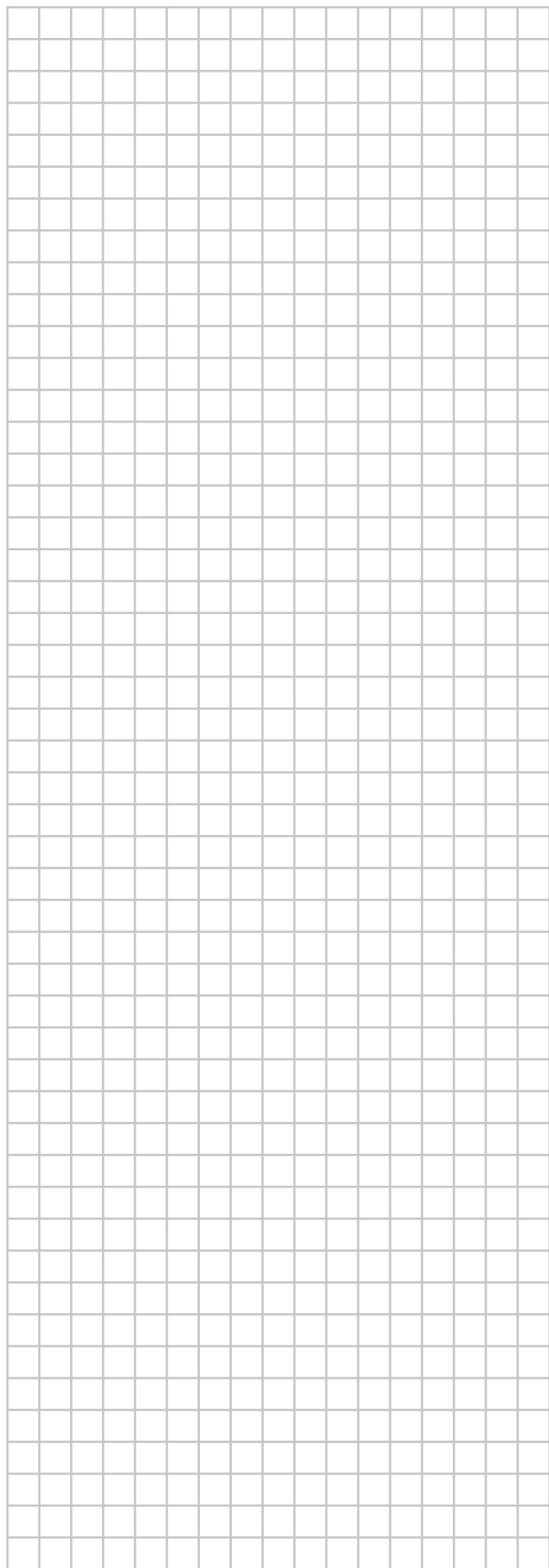
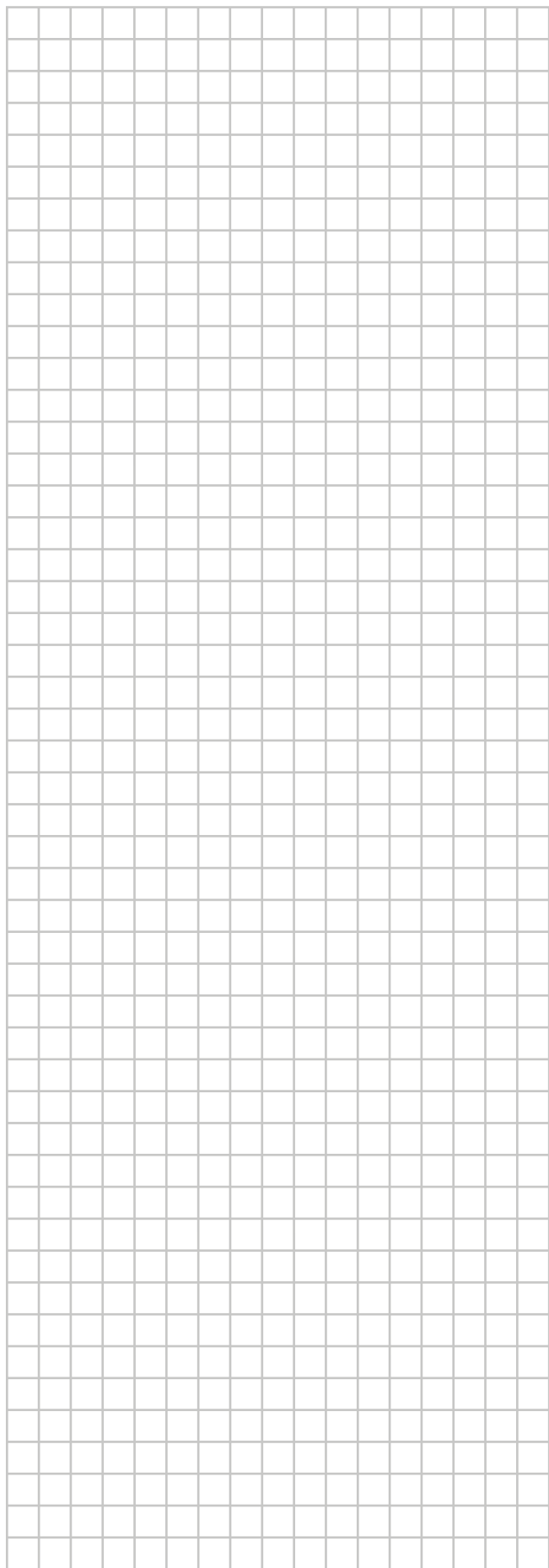
| English | Translation |
|--|--|
| 3 wire type SPST | 3 wire type SPST |
| Add. LWT zone | Additional leaving water temperature zone |
| Alarm output | Alarm output |
| Anode | Anode |
| Continuous | Continuous current |
| Demand PCB | Demand PCB |
| DHW pump | Domestic hot water pump |
| DHW pump output | Domestic hot water pump output |
| Digital I/O PCB | Digital I/O PCB |
| Electric pulse meter inputs: 12 V DC pulse detection (voltage supplied by PCB) | Electric pulse meter inputs: 12 V DC pulse detection (voltage supplied by PCB) |
| Ext. ambient sensor option (indoor or outdoor) | External ambient sensor option (indoor or outdoor) |
| Ext. heat source | External heat source |
| For preferential kWh rate power supply | For preferential kWh rate power supply |
| For safety thermostat | For safety thermostat |
| Heat pump convector | Heat pump convector |
| Indoor unit supplied from outdoor | Indoor unit supplied from outdoor |
| Inrush | Inrush current |
| Main LWT zone | Main leaving water temperature zone |
| Max. load | Maximum load |
| Min. load | Minimum load |
| NC valve | Normal closed valve |
| NO valve | Normal open valve |
| Normal kWh rate power supply | Normal kWh rate power supply |
| Only for *** | Only for *** |
| Only for demand PCB option | Only for demand PCB option |

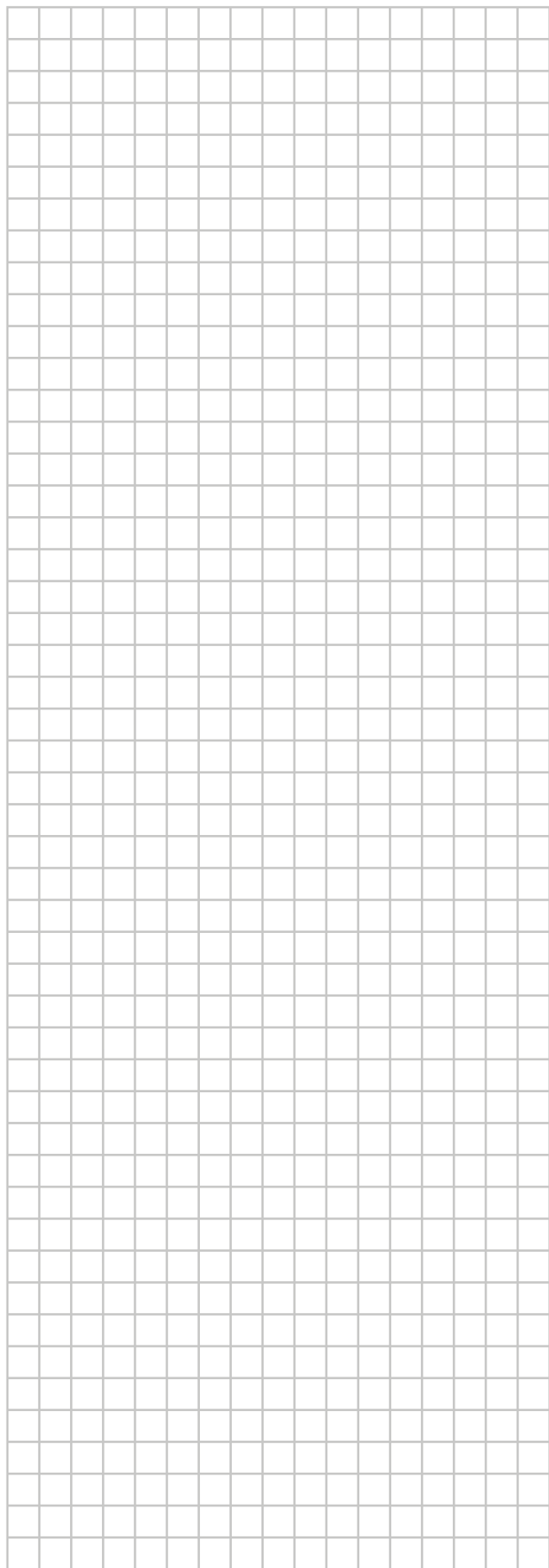
| English | Translation |
|---|---|
| Only for digital I/O PCB option | Only for digital I/O PCB option |
| Only for ext. sensor (floor or ambient) | Only for external sensor (floor or ambient) |
| Only for normal power supply (standard) | Only for normal power supply (standard) |
| Only for preferential kWh rate power supply (outdoor) | Only for preferential kWh rate power supply (outdoor) |
| Only for wired On/OFF thermostat | Only for wired On/OFF thermostat |
| Only for wireless On/OFF thermostat | Only for wireless On/OFF thermostat |
| Only if no *** | Only if no *** |
| Options: boiler output, alarm output | Options: boiler output, alarm output |
| Options: bottom plate heater OR On/OFF output | Options: bottom plate heater OR On/OFF output |
| Outdoor unit | Outdoor unit |
| Power limitation digital inputs: 12 V DC / 12 mA detection (voltage supplied by PCB) | Power limitation digital inputs: 12 V DC / 12 mA detection (voltage supplied by PCB) |
| Preferential kWh rate power supply contact: 16 V DC detection (voltage supplied by PCB) | Preferential kWh rate power supply contact: 16 V DC detection (voltage supplied by PCB) |
| Remote user interface | Remote user interface |
| Safety thermostat | Safety thermostat |
| Safety thermostat contact: 16 V DC detection (voltage supplied by PCB) | Safety thermostat contact: 16 V DC detection (voltage supplied by PCB) |
| Shut-off valve | Shut-off valve |
| Space C/H On/OFF output | Space cooling/heating On/OFF output |
| Switch box | Switch box |
| To bottom plate heater | To bottom plate heater |
| Use normal kWh rate power supply for indoor unit | Use normal kWh rate power supply for indoor unit |
| User interface | User interface |

Electrical connection diagram

For more details, please check the unit wiring.







ERC



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