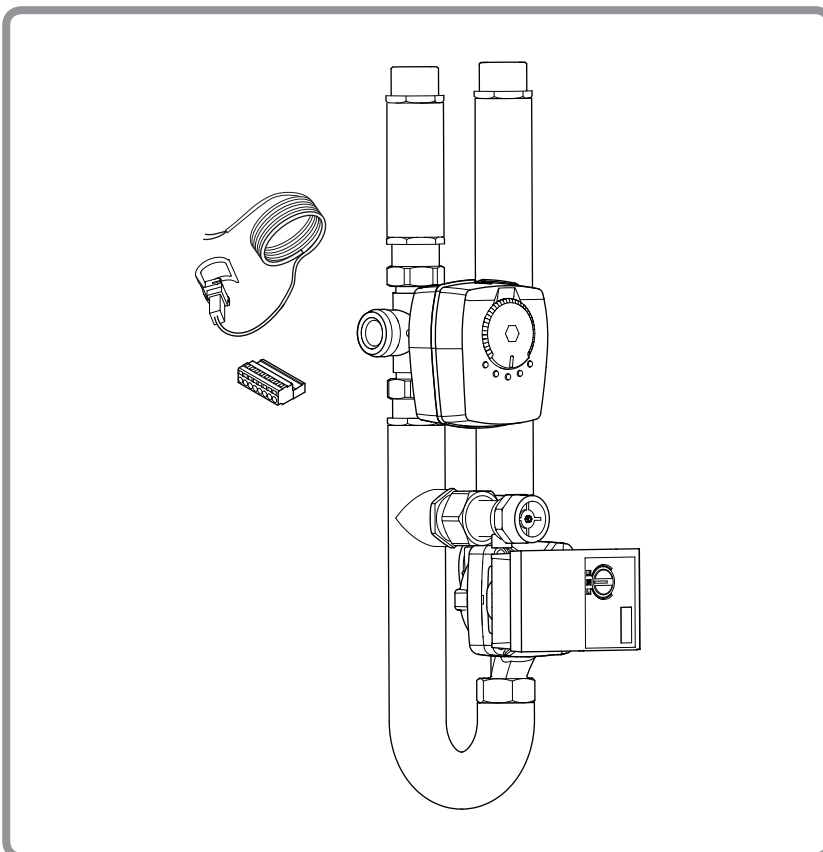
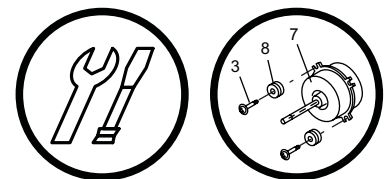


2-area kit reference 076446

for duo heat pumps



☞ This manual concerns the installation and connection of the 2-area kit.
To install and configure the heat pump, please refer to the heat pump's technical instructions manuals.



Installation manual

for professionals

to be kept by the user
for future reference

1 Description of the equipment

1.1 Packaging

- **1 package:** 2-area kit.

On reception, before you fit anything, it is essential that you check the parts received and search for any damage caused during transport.

1.2 Scope

The management of 2 heating areas requires the installation of the 2-area kit.

1.3 Expansion vessel

Reminder: The volume of the expansion vessel must be calculated according to the total volume of the installation. You may therefore need to add an additional expansion vessel.

1.4 Specifications

Power absorbed	50 W
Maximum operating pressure	3 bar
Supply voltage	230V - 50Hz
Outgoing/return flow Ø (male)	26 x 34 mm

Servomotor:

- Stroke: 90°.
- Operating time for completely opening or closing the valve: 4 min.

3-way mixing valve:

- Nominal diameter: 26x34 mm.
- KV type: 6.

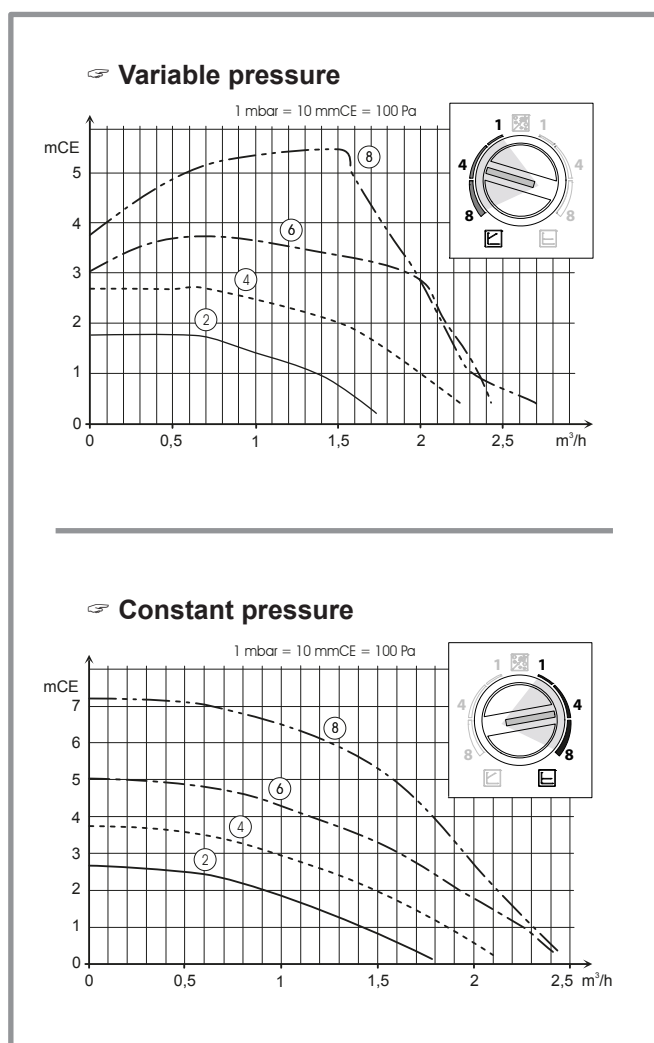


figure 1 - Hydraulic pressures and flow rates available (hydraulic unit + 2-area kit)

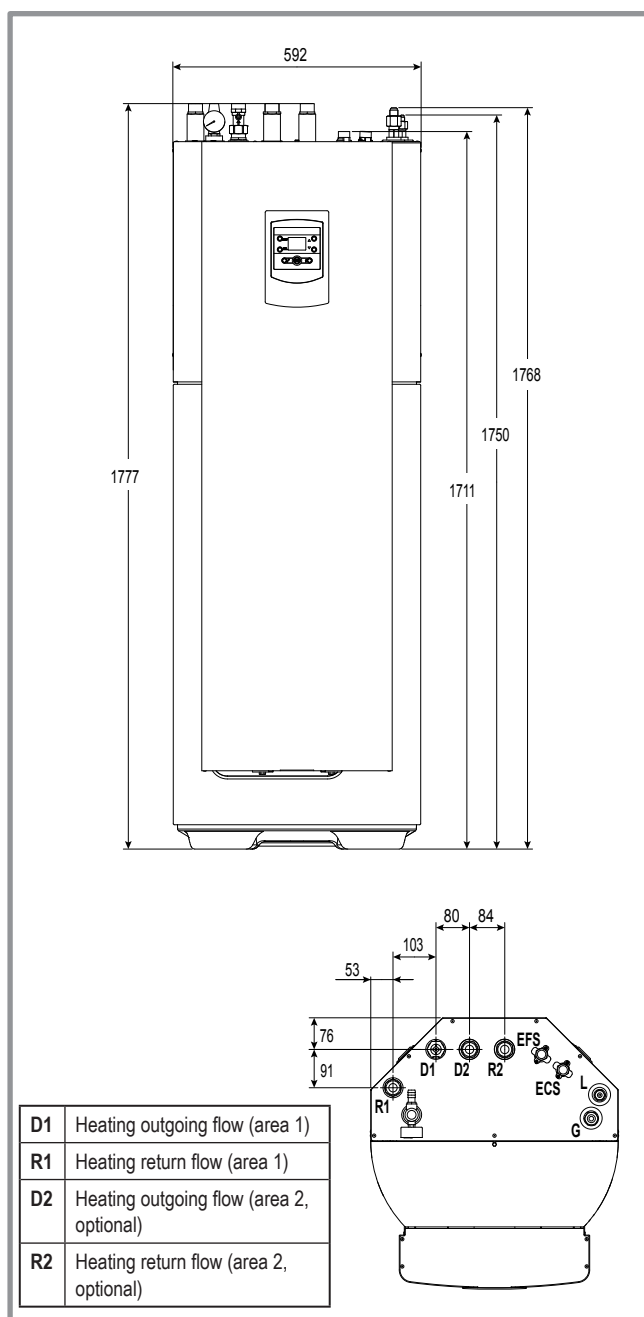
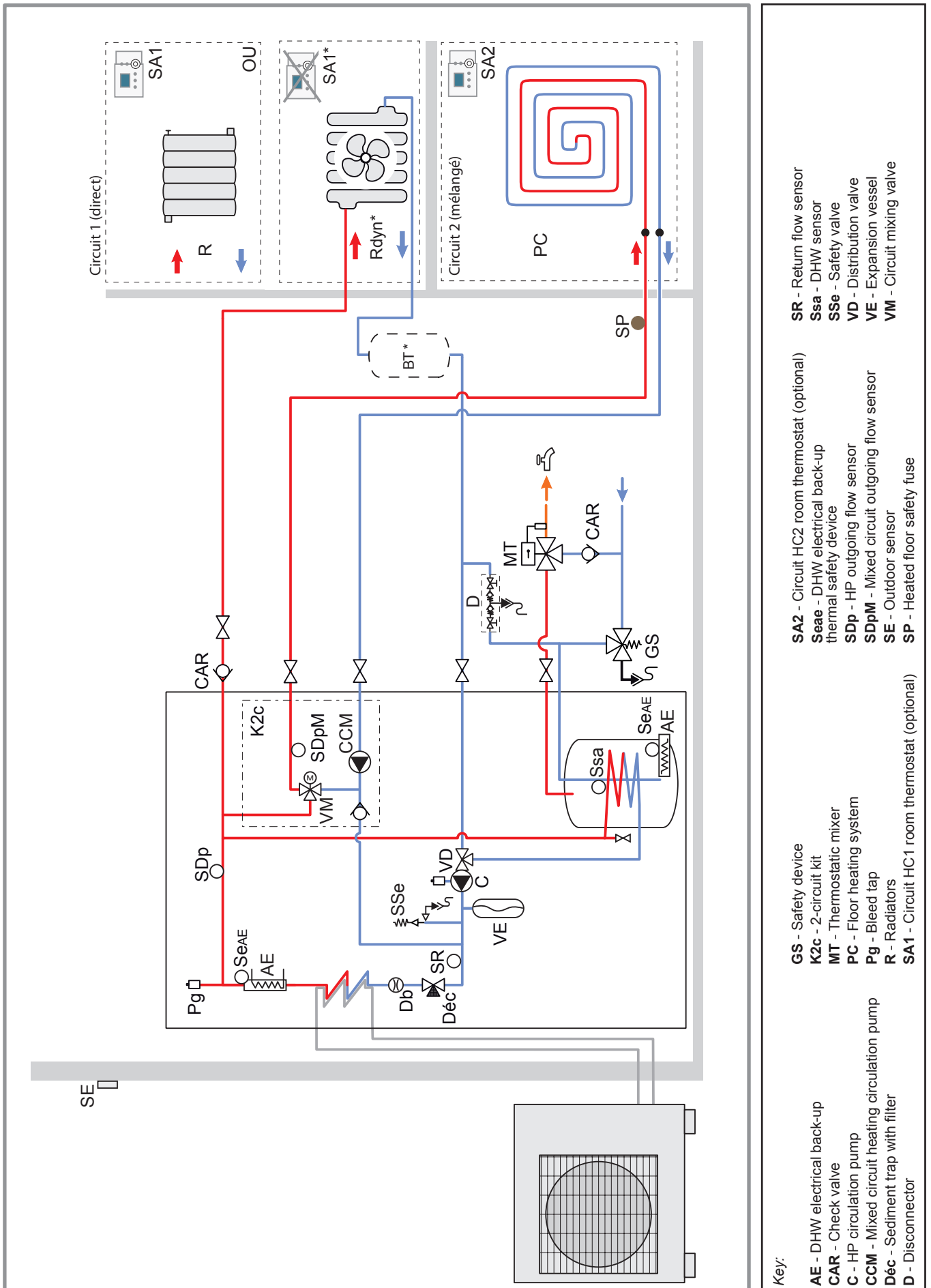


figure 2 - Dimensions in mm

1.5 Overall hydraulic layout

• Configuration 2: 2 heating circuits.



Key:

- AE** - DHW electrical back-up
- CAR** - Check valve
- C** - HP circulation pump
- CCM** - Mixed circuit heating circulation pump
- Dp** - Sediment trap with filter
- D** - Disconnect
- GS** - Safety device
- K2c** - 2-circuit kit
- MT** - Thermostatic mixer
- PC** - Floor heating system
- Pg** - Bleed tap
- R** - Radiators
- SA1** - Circuit HC1 room thermostat (optional)
- SA2** - Circuit HC2 room thermostat (optional)
- Seae** - DHW electrical back-up thermal safety device
- SDpM** - HP outgoing flow sensor
- SDp** - Mixed circuit outgoing flow sensor
- SE** - Outdoor sensor
- SP** - Heated floor safety fuse
- Ssa** - Return flow sensor
- Sse** - DHW sensor
- Sse** - Safety valve
- VD** - Distribution valve
- VE** - Expansion vessel
- VM** - Circuit mixing valve

2 Instructions intended for the installer

2.1 Hydraulic connections

The connection must comply with good engineering practices and the inter-union agreement.

The appliance must be connected to the installation with union connectors and shut-off valves to facilitate its removal.

Reminder: Make the assembly seals according to good engineering practices in force for plumbing work:

- Use suitable seals or gaskets (fibre seals, O rings),
- Use Teflon or hemp tape and sealant or synthetic sealant depending on the case.

• Installing the hydraulic kit

Remove the front panel.

figure 3

- Assemble the 2-area kit according to the direction of flow.

figure 4

- Clip the sensor.

figure 5

- Rotate the electric box (1).
- Unscrew the 3 attachment screws.
- Remove the cover (2).

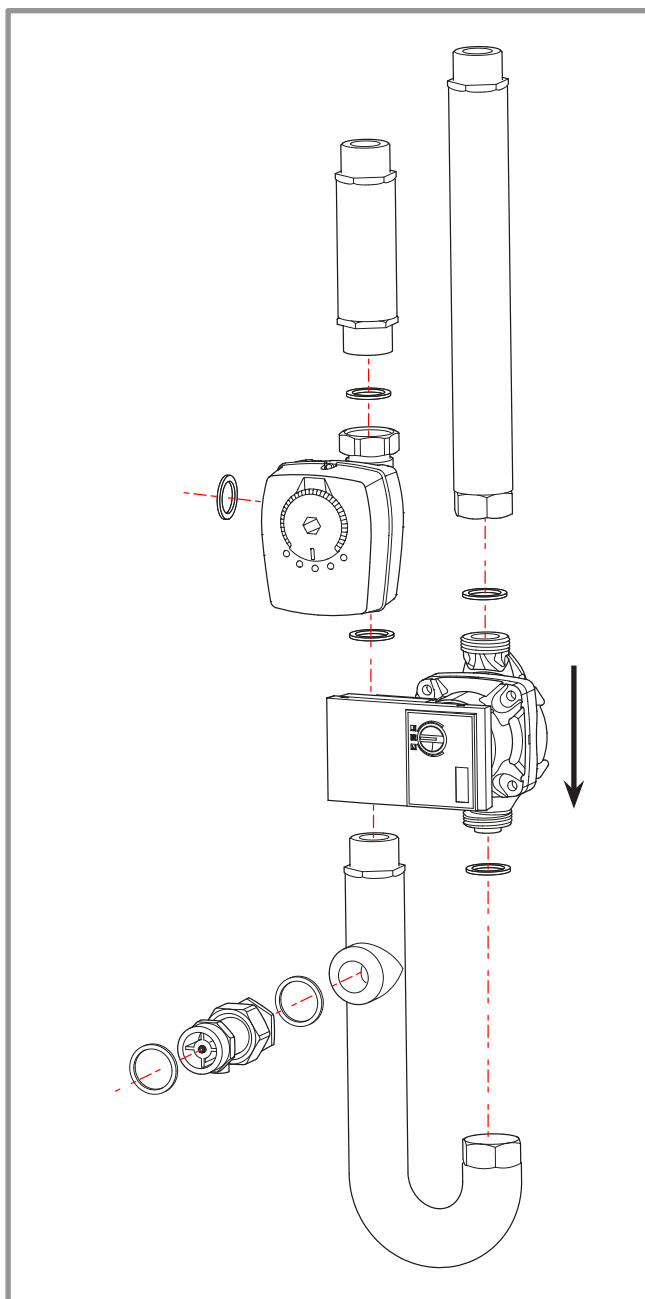


figure 3 - Assembling the kit

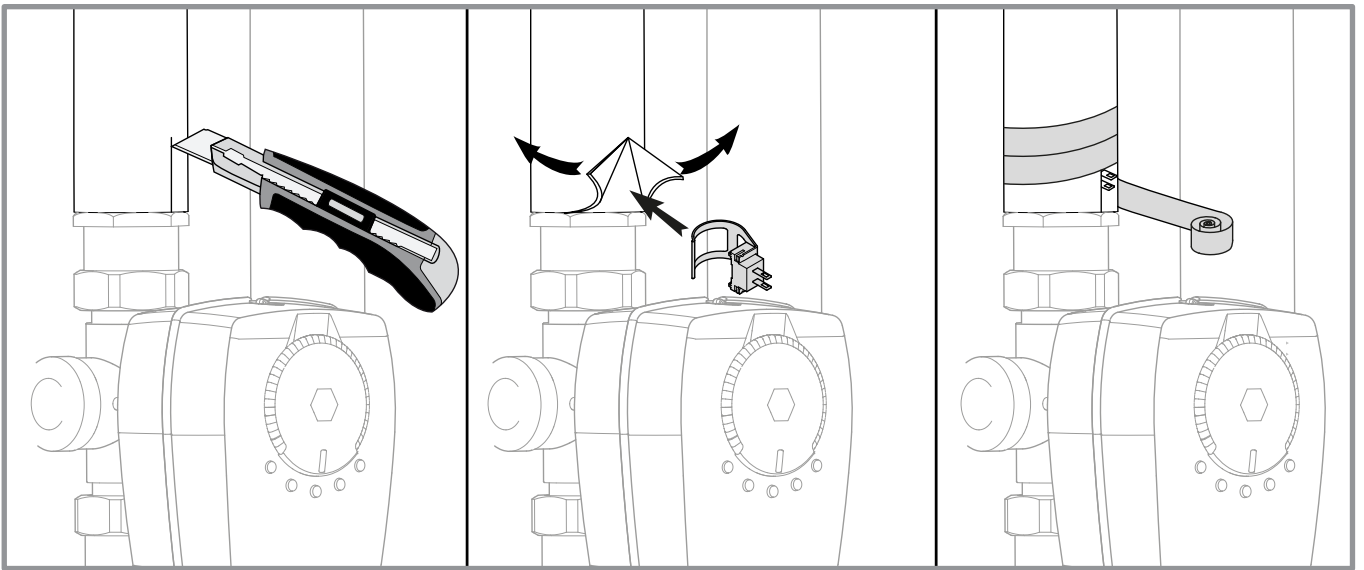


figure 4 - Installing the sensor

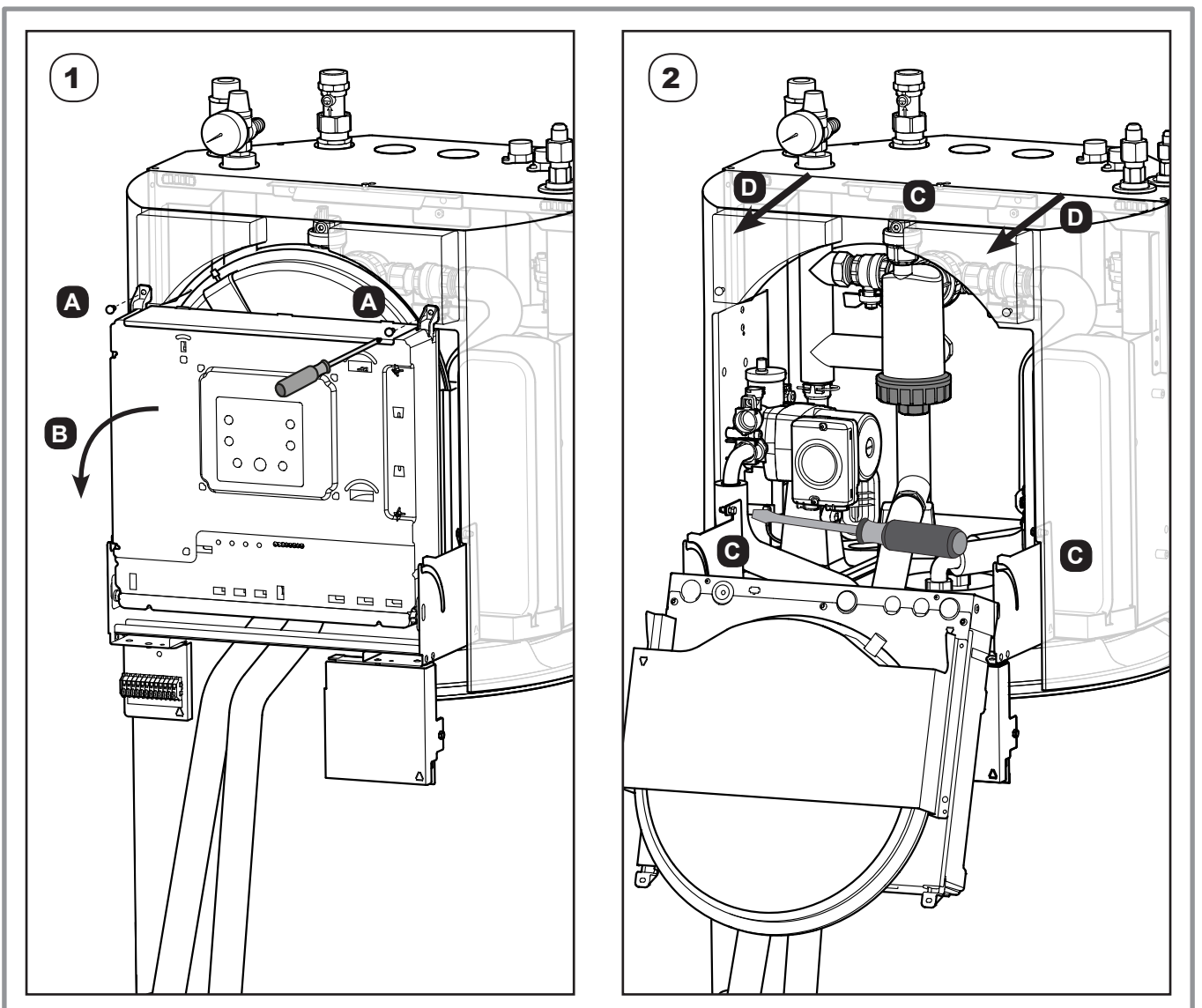


figure 5 - Access

Figure 6

- Rotate the sediment trap (1).
- Remove the caps (2).
- Insert the pre-assembled 2-area kit. Position the seals and tighten the connections (3).
- Reposition the sediment trap and install the piping protections (4).

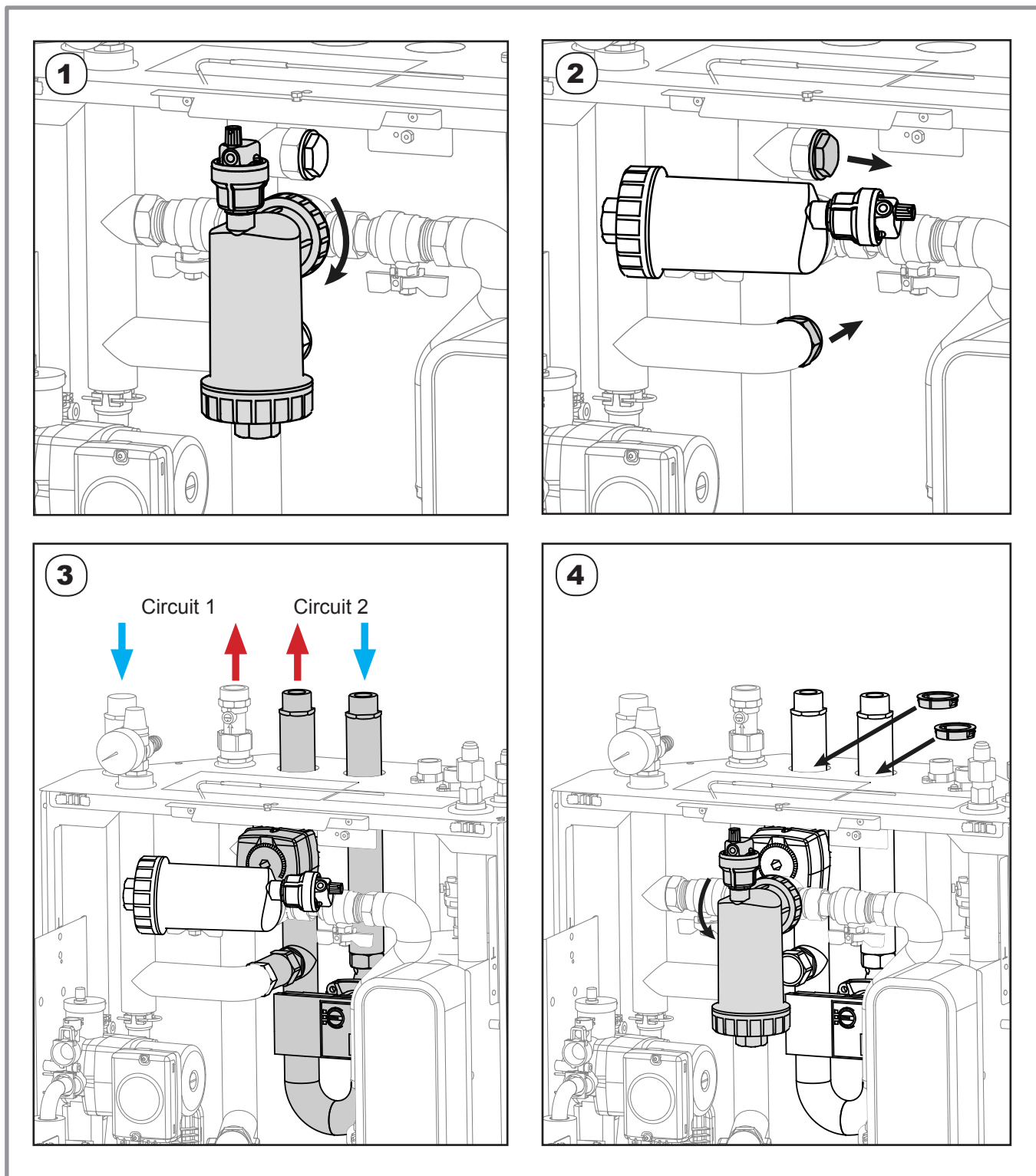


figure 6 - Installing the hydraulic kit

2.2 Electrical connections

Always check that the electric power supply is switched off before works.

The electrical installation must be conducted in accordance with the prevailing regulations (in particular standard NFC 15-100).

The electrical connections must only be made when all the other fitting operations have been completed (fixing, assembly, etc.).

Ensure that all of the electrical cables are housed in the spaces provided.

2.2.1 Electrical power connections (LV)

1 - Make an incision in the grommet. Insert the mixing valve and circulation pump cables into the electric box figure 9.

2 - Connect the cable from the mixing valve (VM) to terminals 1 (BK), 2 (BU), 3 (BN) of the connector provided.

3 - Connect the cable from the mixed circuit circulation pump (area 2) to terminals 6 (GN), 7 (BU), 8 (BN) of the connector provided.

4 - Insert the female connector in the 2-area male connector.

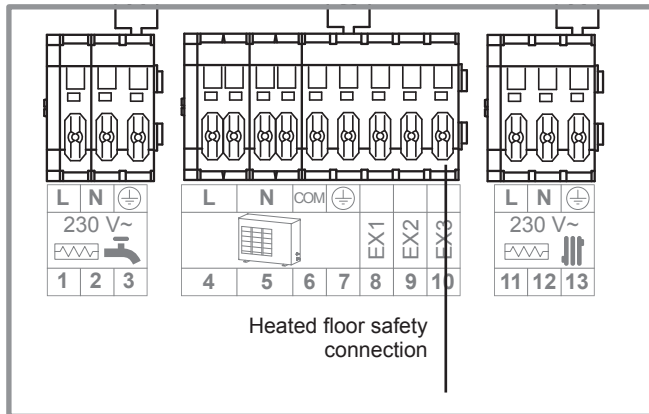


figure 7 - Heated floor safety connection to the terminal block (hydraulic unit)

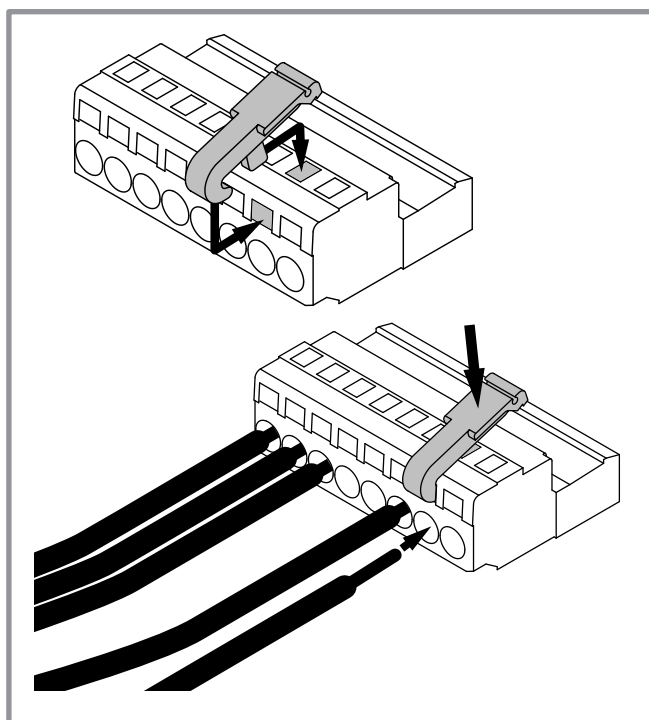


figure 8 - Connector

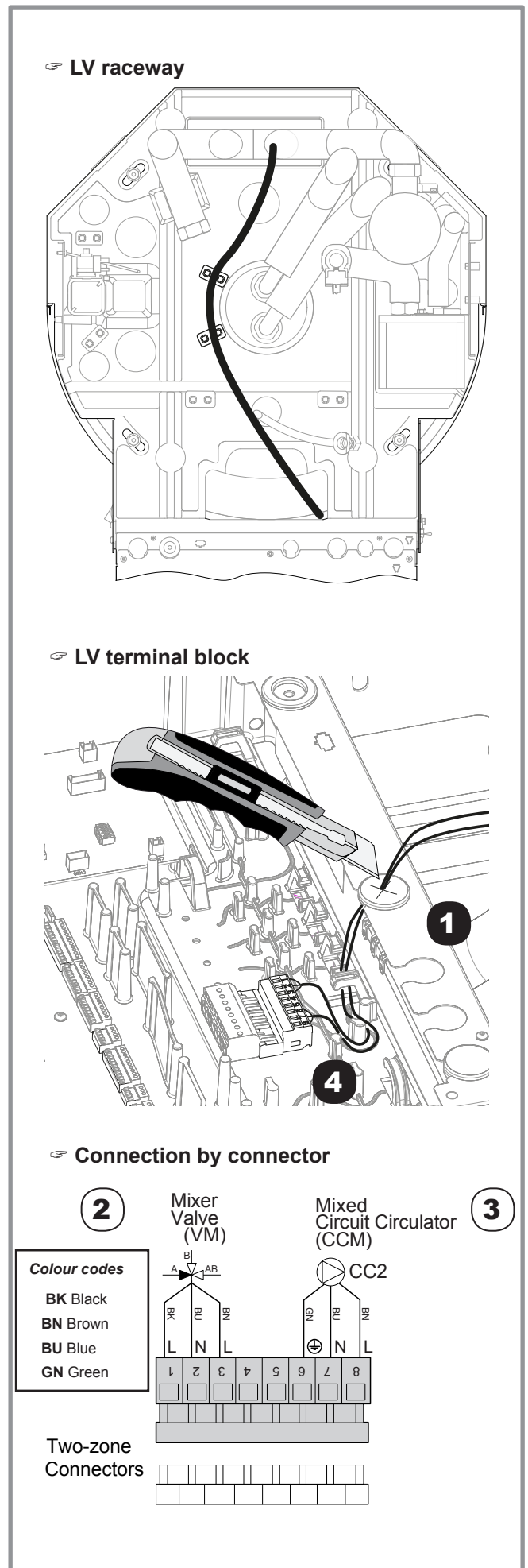


figure 9 - LV connection

2.2.2 SELV Electrical connection

Connect the outgoing flow sensor (SDpM / Mixed circuit) figure 10.

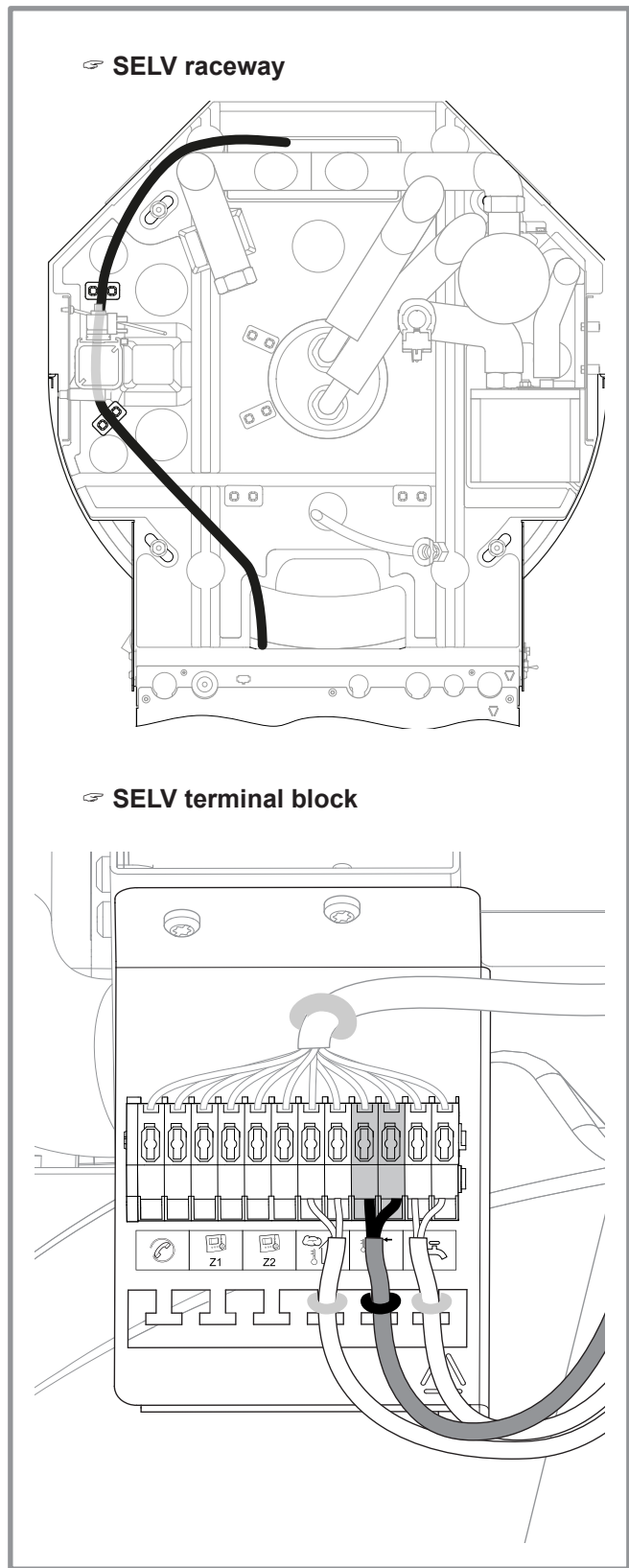


figure 10 - SELV cable bushing

2.3 Configuration

- Set parameter according to the software version :

Parameters until software Version 26	Parameters from software Version 27
3 - Pre-setting... to : - 5 (2 heating circuits)	4 - Two heating circuits option... to : - 3 (2 heating circuits with decoupling cylinder)

- Set the heating times:
 - Circuit 1: parameter **11** to **17**.
 - Circuit 2: parameter **18** to **24**.

2.4 Checks and commissioning

Please refer to the manual provided with the heat pump.

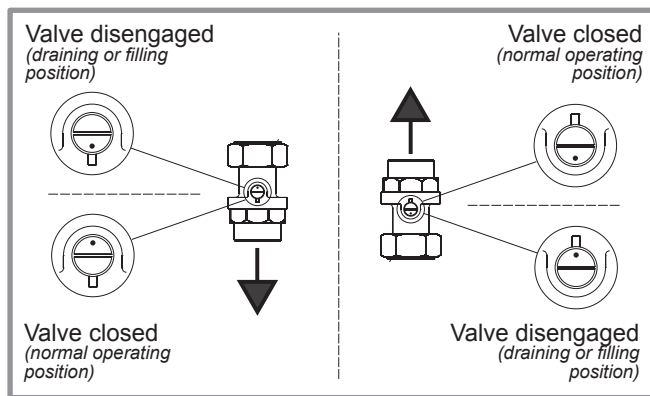
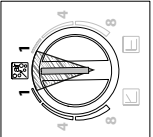






figure 11 - Check valves

2.5 Mixed circuit circulation pump HC1 speed settings

	<p>Do not use this area.</p>
	<p> Variable pressure</p> <p>The circulator varies the manometric head according to the flow rate.</p> <p>Recommended for a system equipped with radiators (particularly any system with thermostatic valves or area solenoid valves)</p>
	<p> Constant pressure</p> <p>The circulation pump maintains the manometric head constant whatever the flow rate.</p> <p>Recommended for a system with constant pressure drop such as a floor heating system.</p>

Circulation pump sticking or blocked:

If the motor is blocked, the start-up attempt is repeated several times.

If the motor remains blocked, it will be permanently shut down.

- ✎ **Cut off the electricity supply from the circulation pump for 30 seconds in order to release and authorise another start cycle.**








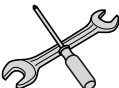
	<p>OFF</p>	<p>LED Off: The pump is not working, no electrical power.</p>
	<p></p>	<p>Green LED on: The pump is working normally.</p>
	<p> 10 min.</p>	<p>Green LED flashing: Venting operating mode (10 minutes).</p>
	<p>Auto Test</p>	<p>Green/Red LED flashing: Operating error with automatic reboot.</p>
	<p></p>	<p>Red LED flashing: Operating error.</p>

figure 12 - Circulation pump operating signals

3 Spare parts

When ordering spare parts, specify the appliance type and reference as well as the name of the part and its reference number.

Qty = Total quantity per appliance.

No.	Ref.	Name	Type	Qty
1	182384	Outgoing pipe		01
2	182385	Circulation pump pipe		01
3	182386	Return pipe		01
4	109977	Circulation pump		01
5	110047	Check valve		01
6	188293	Motorised valve		01
7	110774	Connector		01
8	154807	Connecting tool		01
9	109740	Sensor bundle		01
10	133218	Pump bundle		01
11	909205	Outgoing flow sensor		01
12	142735	Gasket	26x34	07
13	157409	Piping protection	Ø 45mm	02

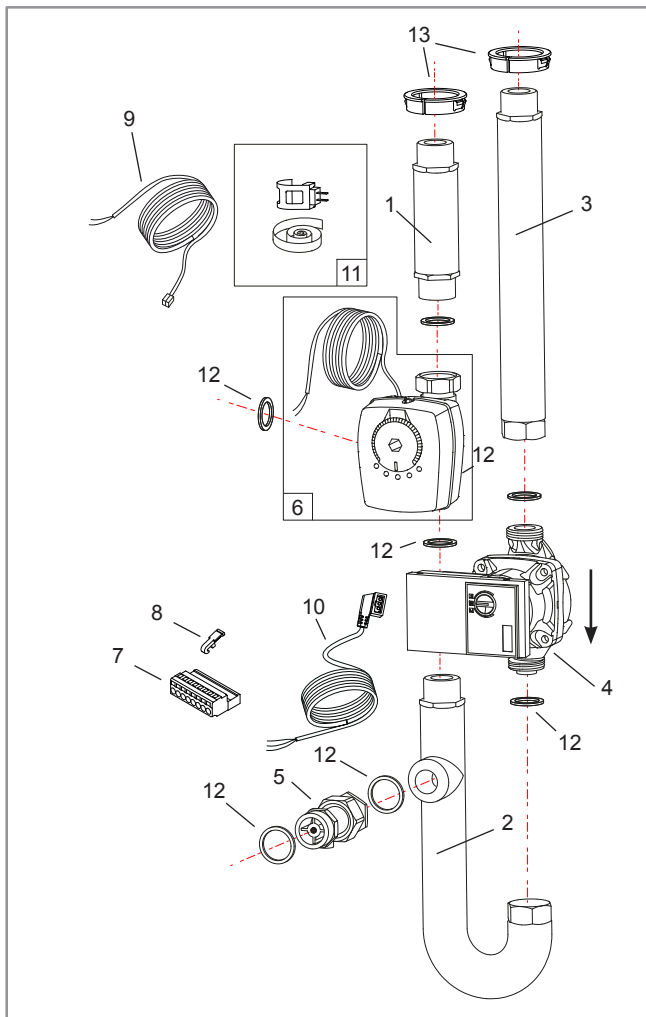


figure 13 - 2-area kit spare parts





This appliance complies with:

- the low voltage directive 2014/35/EU under standard NF EN 60335-1 et NF EN 60335-2-102,
 - the electromagnetic compatibility directive 2014/30/EU.
-



This unit is identified by this symbol. It means that all electrical and electronic products must not be included in household waste.

A specific recycling system for this type of product has been set up in European Union countries (*), Norway, Iceland and Liechtenstein.

Do not try to dismantle this product yourself. It may have damaging effects on your health or on the environment.

Reprocessing of the refrigerant, lubricant and other parts may be performed by a qualified installer in compliance with the local and national legislation in force.

This unit must be recycled by a specialised service and in no case may it be thrown away with household waste, rubble or in a landfill.

Please contact your installer or local representative for more information.

* Depending on the national regulations of each member state.

Date of commissioning:

Address of your heating installer or customer service.

Société Industrielle de Chauffage
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