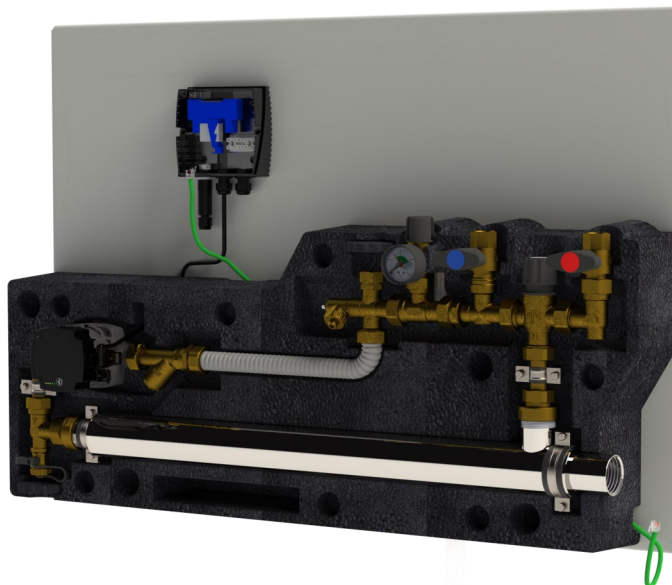


## Fitting instruction, user manual and service

Please keep in a safe place

Wall console ready for connection for heating water

- ASKOWALL+ 2.0
- 012-2110



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## General safety information



Do not place the device into operation until after having read user manual.



These devices may be used by children aged 8 or more and by persons with reduced physical, sensory or mental capacity or those lacking in experience and/or knowledge if they are supervised or if they have been instructed in safe operation of the device and understood the resultant dangers.

Children may not play with the device. The device may not be cleaned or serviced by children unless they are supervised.

The legal regulations of the respective country, the local electricity supply company and the waterworks must be observed.

The **ASKOWALL+ 2.0** is a device of protection class I and must be connected to the protective conductor



The **ASKOWALL+ 2.0** is only suitable for closed (pressurised system) operation.

We do not accept any guarantee or liability for any damage caused by improper repair attempts or the independent installation of inadmissible components or by changes to the installed safety devices.

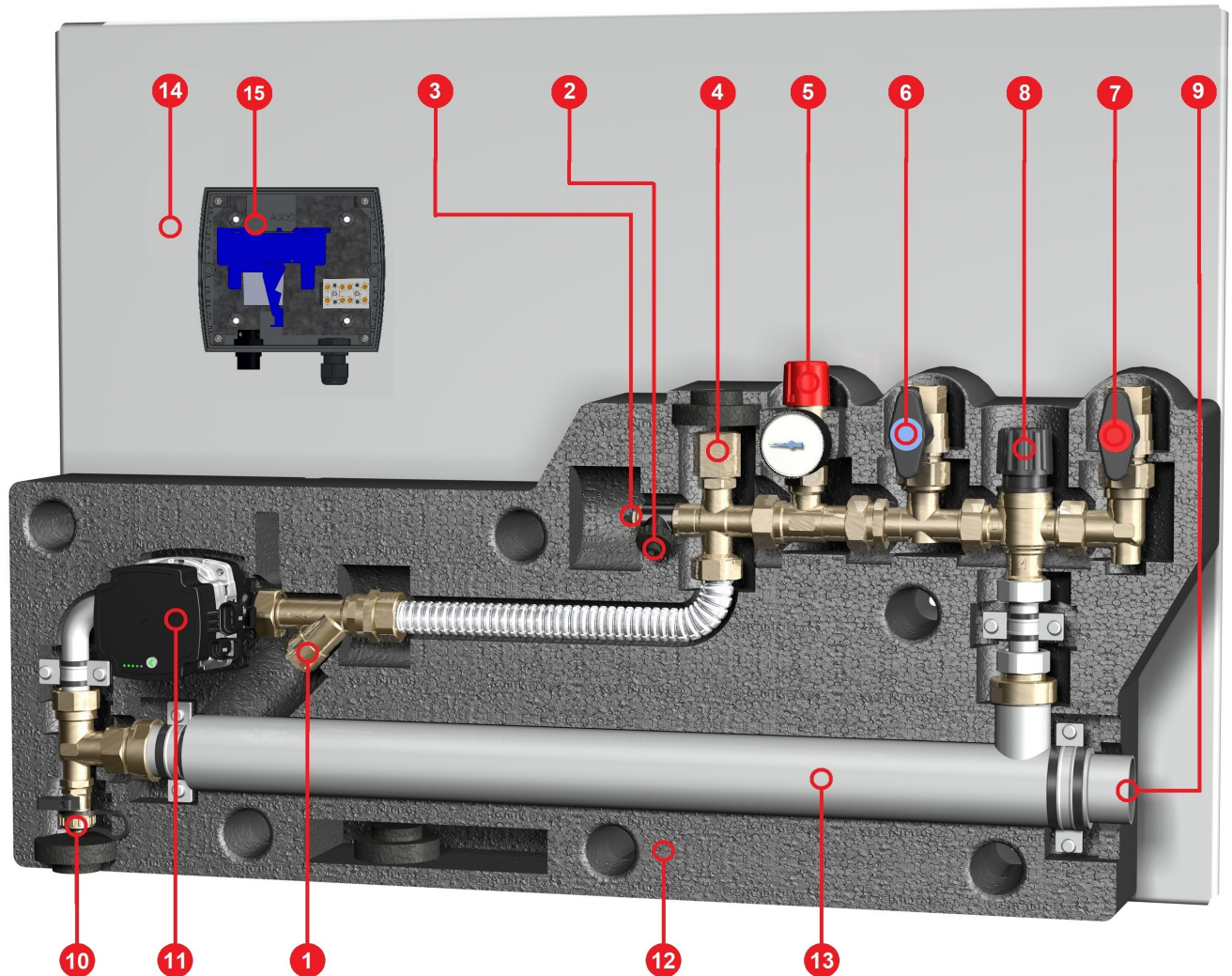
**Installation, setting and removal must be carried out only by sanitary and electrical specialists.**



### **ATTENTION!**

All power supply circuits must have been switched off before accessing the connection terminals.

## Design for the user and qualified installer



### Overview of the components and the function

1. Mud flap
2. Filling valve
3. Vent valve
4. Connection for possible expansion tank (1" internal thread, flat sealing)
5. Pressure relief valve
6. Return flow shutoff & OXYban hose connection
7. Flow shutoff & OXYban hose connection
8. Thermostatic valve 50 - 75°C
9. 1½" threaded connection for screw-in heater
10. Drain cock
11. Circulation pump
12. Insulation housing
13. Instantaneous water heater **ASKOFLOW**
14. Console rear wall
15. Base with prepared relays for **ASKOHEAT-RC+**

## Functional description

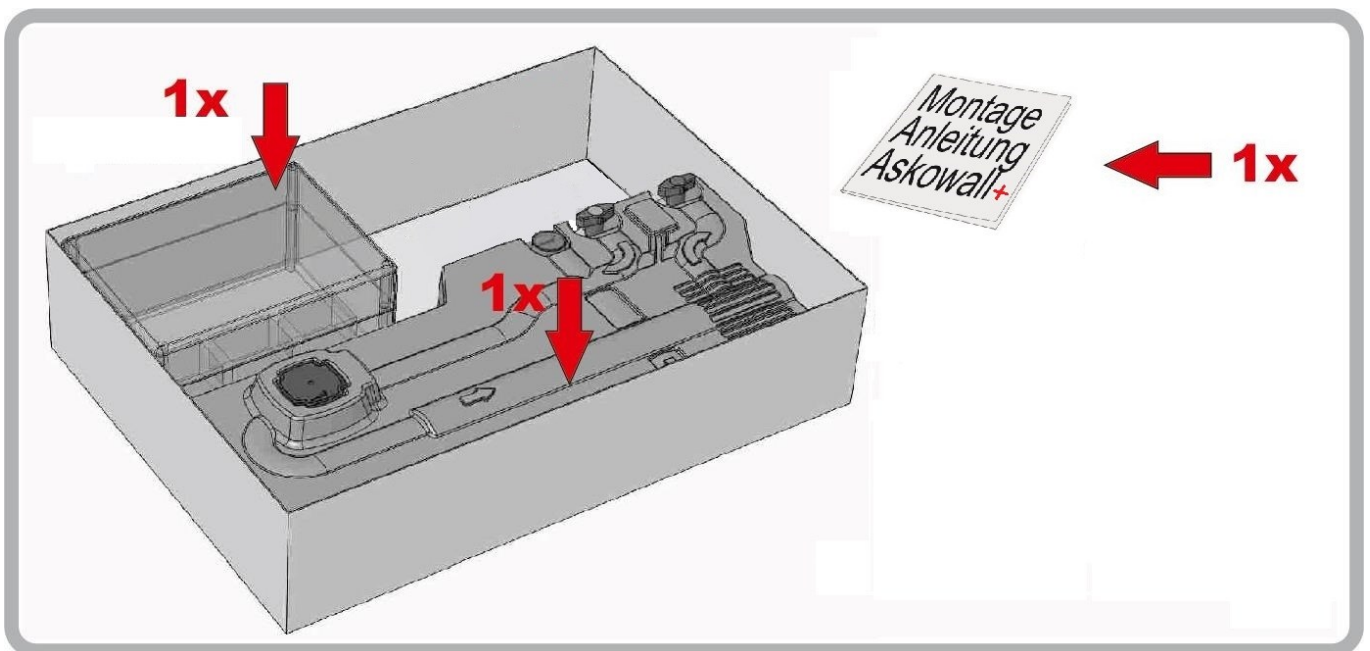
### Function

The ASKOWALL+ 2.0 is a hydraulic unit with connections for cold water, hot water and a screw-in heater. The heating water is circulated in this hydraulic unit by means of an integrated speed-controlled circulation pump.

The screw-in heater heats the circulating heating water. When the heating water reaches the temperature set on the thermostatic valve, it opens and the heated water is pumped into the storage tank. At the same time, cold water flows through the cold water connection and cools the circuit, and the thermostatic valve then closes again. The heating water now circulates again until the temperature is reached.

As a result of this process, the storage tank is loaded with hot water from top to bottom and there is no turbulence in the storage tank.

## Scope of delivery



### Scope of delivery

The delivery includes the ASKOWALL+ 2.0 incl. the rear wall and two-part insulating sleeve, these assembly instructions, four screws (6 x 70mm), four dowels (8 x 50mm) and a piece of hose for the connection to the blow-off line.

The ASKOWALL+ 2.0 also includes a base for the ASKOHEAT-RC+ control unit.

The ASKOWALL+ 2.0 **does not** include any connection hoses or screw-in heater. This screw-in heater is required for commissioning, but must be ordered separately.

## Installation instructions

Operating data, application, dimensions and model of the **ASKOWALL+ 2.0** can be found in the fitting instructions / user manuals of the **ASKOWALL+ 2.0**. This document is enclosed with the **ASKOWALL+ 2.0**.

**The conical thread of the screw-in heater must be provided with an approved sealant before installation in the ASKOWALL+ 2.0.**

**The ASKOWALL+ 2.0 may only be installed horizontally.**

Turning or tipping is not permitted due to the formation of air pockets.

Make sure that the heating tubes are entirely covered by the liquid before placing into operation. The circulation of the liquid shall not be inhibited.

**The device may only be used to heat up heating water.**

### Electrical connection

The device is intended for fixed connection only and may be connected only to fixed cables. Select a cable cross-section suitable for the power rating on the device. All poles of the device must be able to be disconnected from the mains by means of an at least 3mm isolating distance. The PE wire must be 100mm longer than the other conductors.

**The guidelines of the local electricity provider must be followed!**

**The guarantee claim is void in the case of:**

- Not complying with this paperwork „Fitting instructions, user manual, and service“
- Not complying with the storage heater manufacturer's fitting instructions
- Technical modifications, repairs or tampering with the device (including exchanging the pump, piping or the valve)
- Direct heating of drinking water
- Applications for which the device was not designed
- Installation of a foreign heating element
- Incorrect operation and maintenance
- Not complying with directive VDI 2035

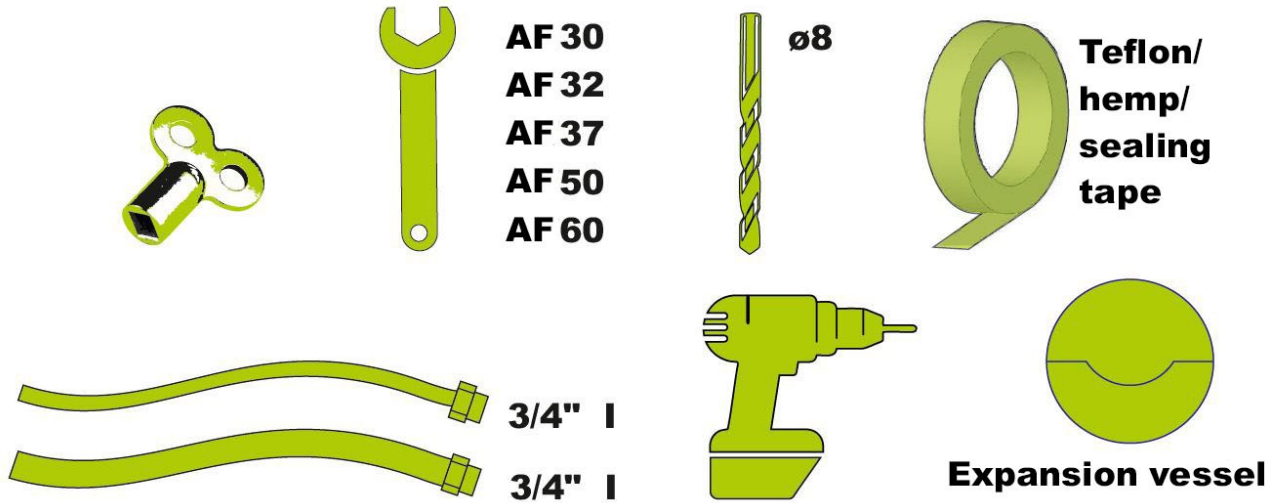


### **ATTENTION!**

All power supply circuits must have been switched off before accessing the connection terminals.

## Assembly and installation

### On site

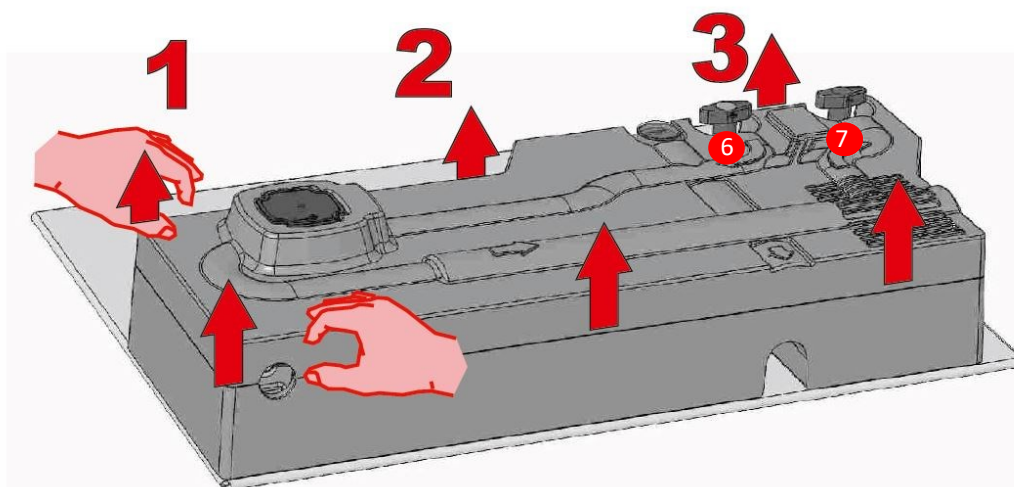


### Material and tools

For the installation of the ASKOWALL+ 2.0 are required various open-end wrenches, impermeable material, a  $\varnothing 8$ mm rock drill & impact drill (for wall mounting on a brick or concrete wall), a heating vent key and hoses for filling and ventilation

If the ASKOWALL+ 2.0 is connected to a heat exchanger, a suitable expansion vessel is necessary.

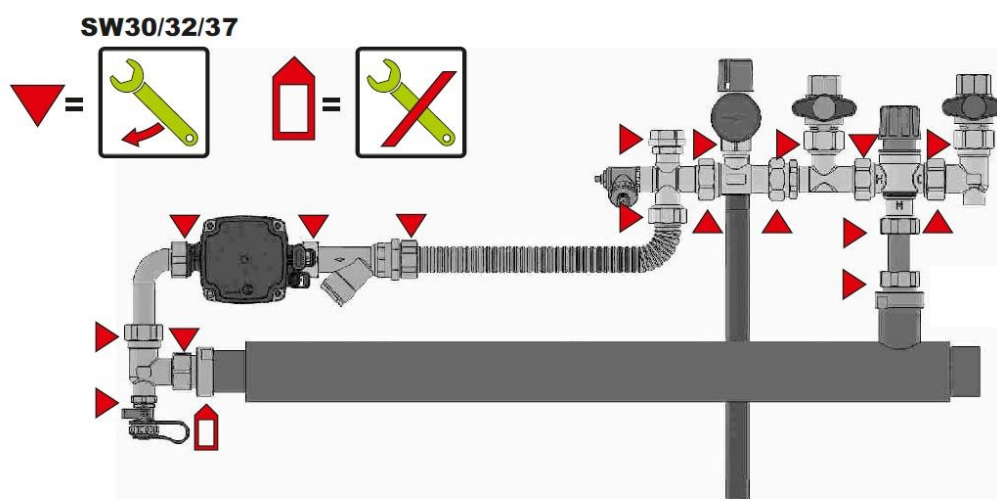
## Assembly and installation



### Opening the isolation cover

Before opening the isolation cover, the two shut-off valves of flow and return (no. 6 and no. 7) must be closed.

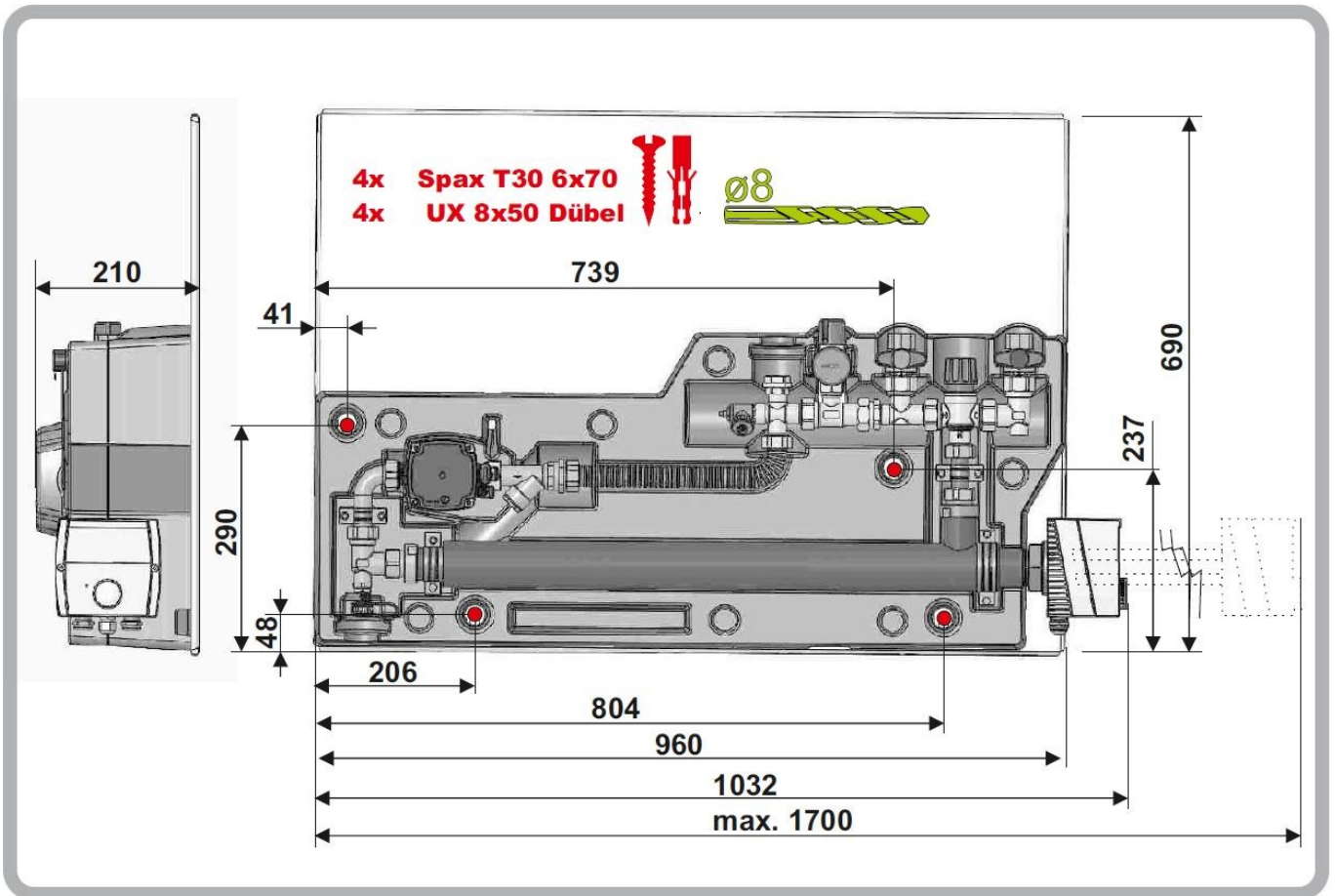
Remove the isolation cover carefully and, if possible, evenly so that the six locking pins on the cover do not tear off.



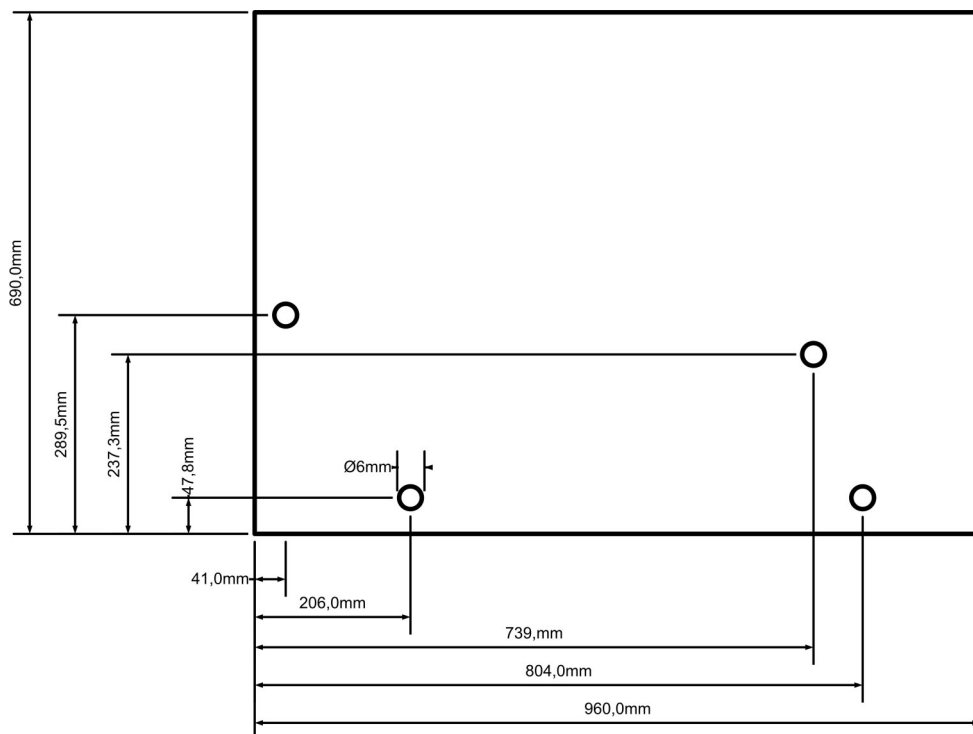
### Retighten screw connections

All screw connections marked with a red dot must be retightened for safety reasons. A leak test has already been carried out at the factory during manufacture.

Assembly and installation



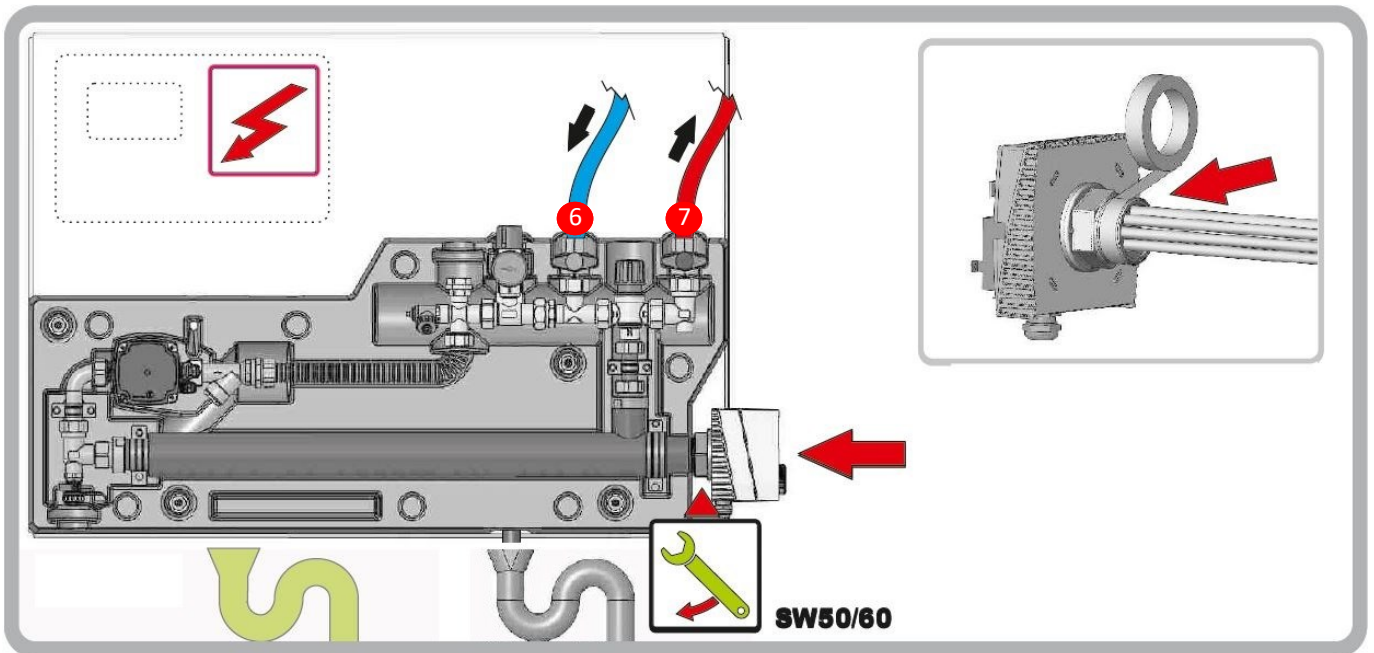
The ASKOWALL+ 2.0 can be attached to the wall using the four screws supplied.



The holes have to be drilled according to the drawing.

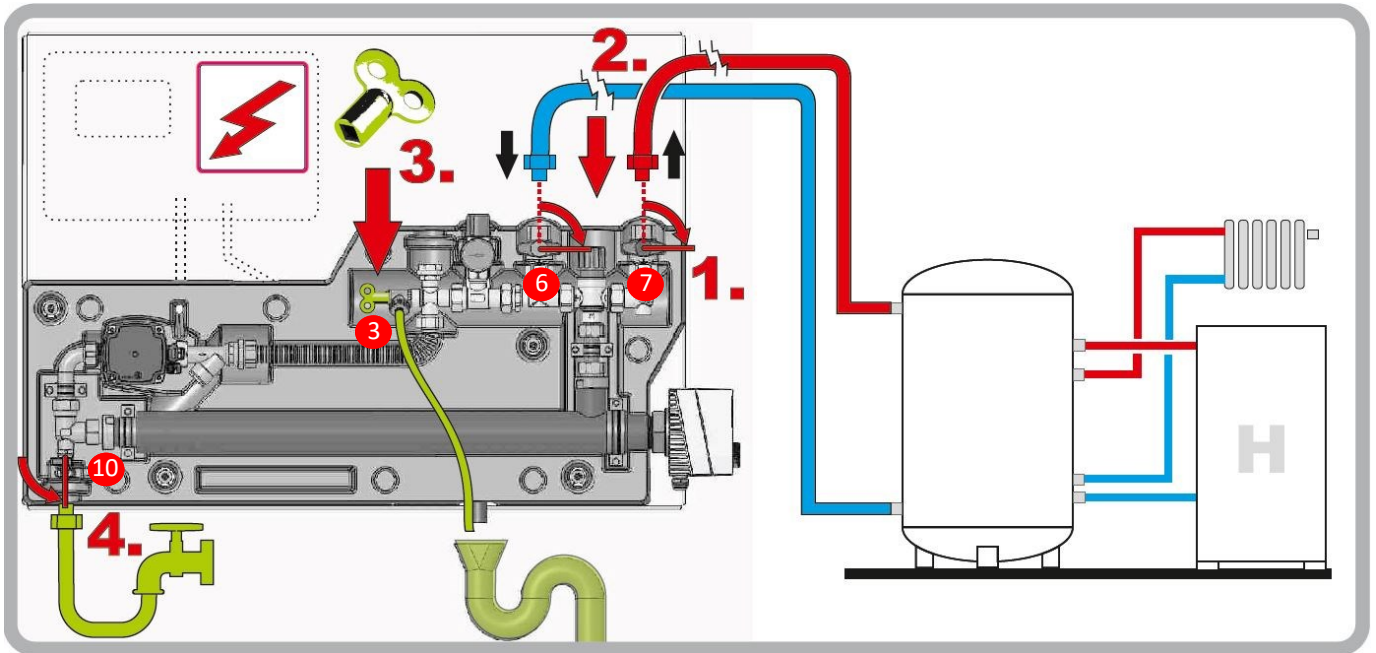


## Assembly and installation



- Seal the screw-in heater with approved sealing material and screw it in.
- The screw-in heater's plug-in connections must be positioned downwards.
- Connect the drain hose of the safety valve to the on-site drain according to the regulations.
- Connect the supply and return lines on the shut-off valves (no. 6 and no. 7) of the **ASKOWALL+ 2.0**. It is possible to use connecting hoses with a length of 1.6 m and a  $\frac{3}{4}$ " fitting with the article number 012-0130.

## Filling

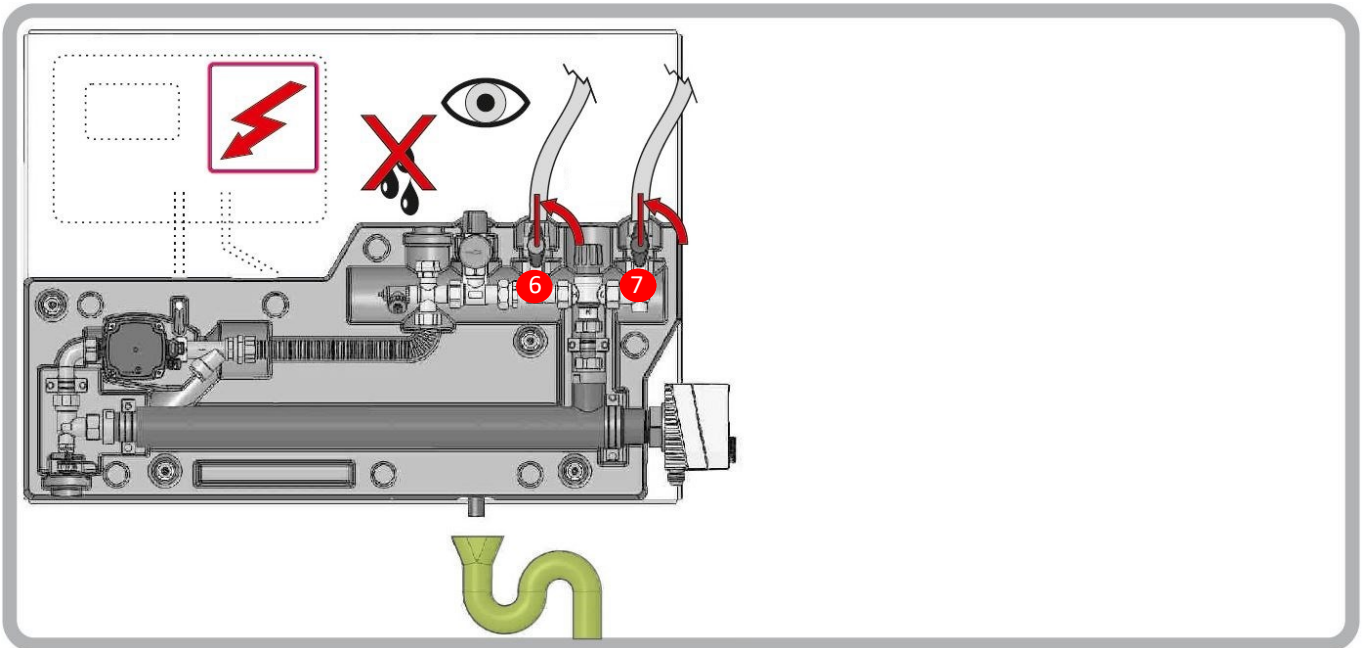


### Filling the ASKOWALL+ 2.0

1. Return flow shutoff (no. 6) and flow shutoff (no. 7) must be closed.
2. Connect the flow line (right / red) to the top of the storage tank.  
Connect the return line (left / blue) to the bottom of the storage tank.
3. Connect the on-site mobile ventilation hose to the ventilation valve (no. 3) and open it.
4. Connect the heating water inlet to the drain cock (no. 10) and open the drain cock.  
The **ASKOWALL+ 2.0** is filled by supplying the heating water, the air can escape from the open vent valve.

If only heating water comes out of the vent valve, the **ASKOWALL+ 2.0** is completely filled and the vent valve (no. 3) can be closed. The drain cock must be closed before dismantling the heating water supply.

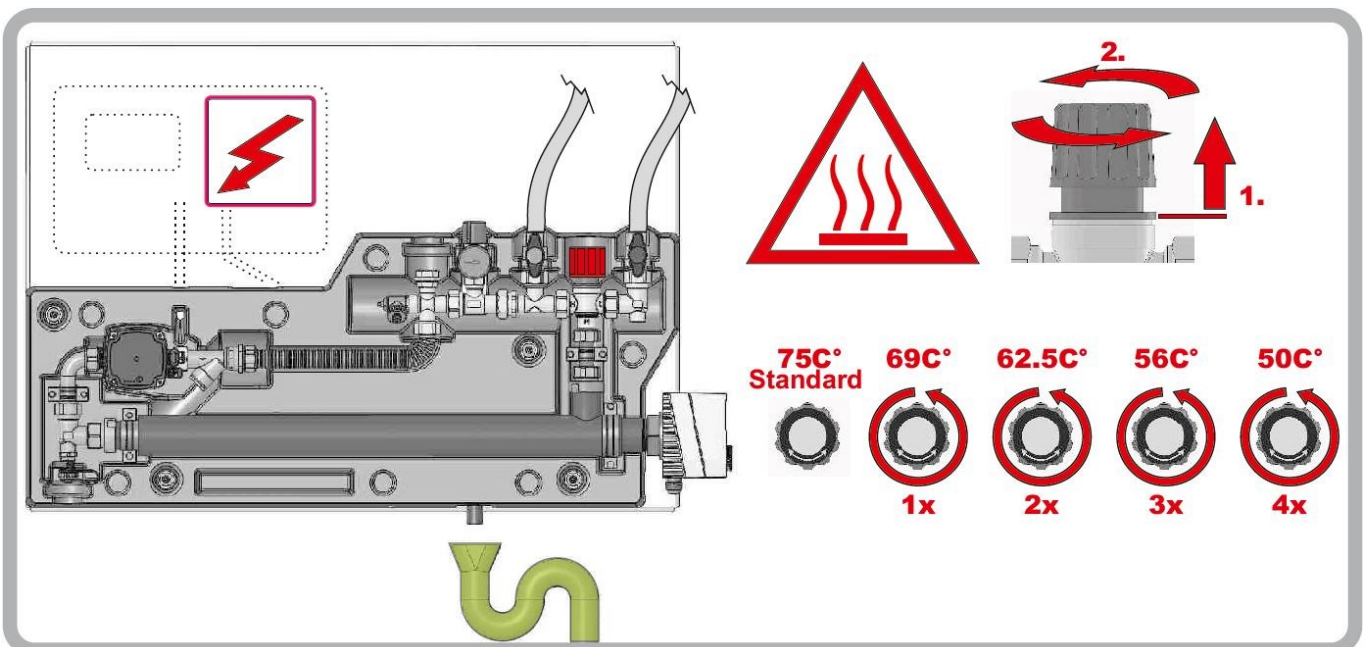
## Leakage check



After opening the two shutoff of flow and return (no. 6 & 7), the system must be checked for leaks. No water leakage may be detected.

If a screw connection is leaking, it must be retightened.

## Setting of the thermostatic valve



**Setting the output temperature to the buffer tank (opening temperature of the thermostatic valve)**

1. Pull the lower plastic ring up and hold it there.
2. Set the rotary control to the desired temperature (turn).  
Then release the lower plastic ring and snap it into place.

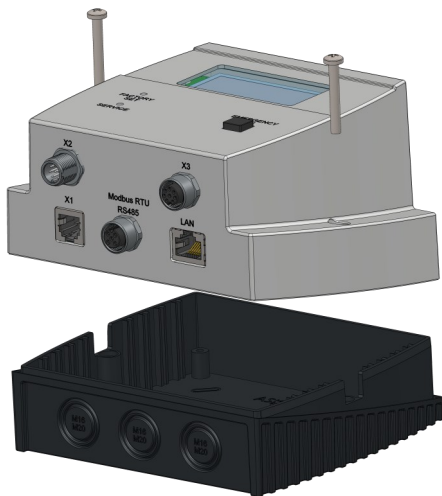
# Installation of the control unit

The ASKOHEAT-RC+ control unit base is placed on the plate of the ASKOWALL+ 2.0.

The ASKOHEAT-RC+ control unit is supplied with the ASKOHEAT+ 2.0 screw-in heater.

This control unit must be mounted on the base so that it can control the pump of the ASKOWALL+ 2.0.

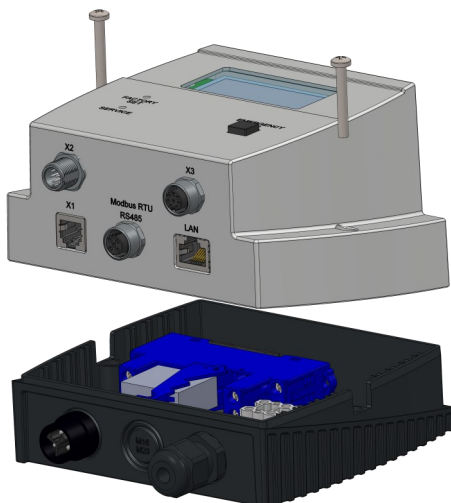
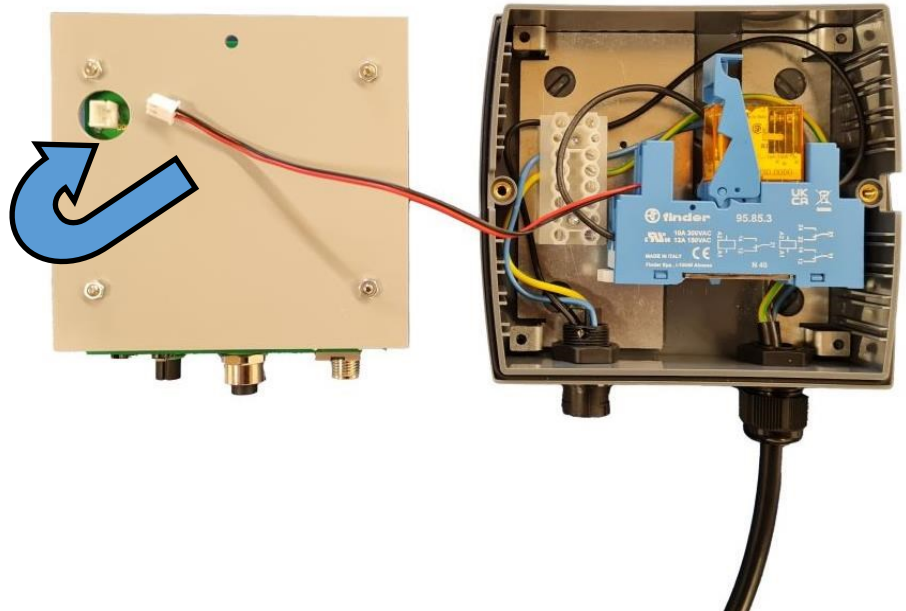
To do so, open the ASKOHEAT-RC+ housing



After loosening the two screws (right & left), the upper part can simply be lifted off.

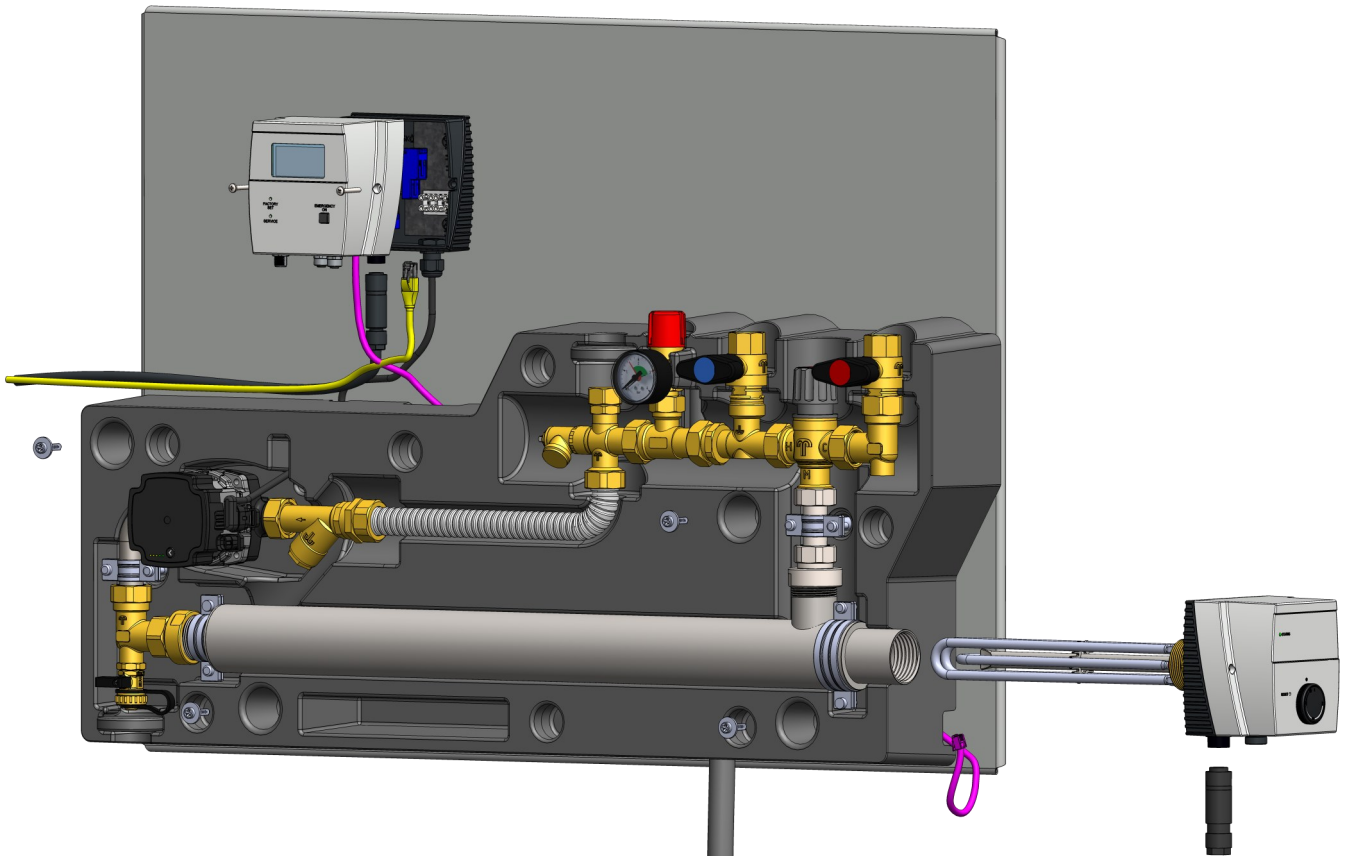
You can throw away the base of the ASKOHEAT-RC+.

Connect the two-pin plug located in the base of the ASKOWALL+ 2.0 to the circuit board of the ASKOHEAT-RC+.



Once the base of the ASKOWALL+ 2.0 and the ASKOHEAT-RC+ have been connected, the control unit can be plugged into the base. Make sure you do not pinch any cables when closing the housing. Tighten the two screws again.

## Electrical connection



There are pre-installed connection cables on the base for the **ASKOHEAT-RC+** control unit. These may only be connected or plugged in after the screw-in heater has been installed and its leak test has been completed.

A supply line must be created to the **ASKOHEAT-RC+** for the power supply of the circulation pump. The power consumption of the circulation pump is approx. 52 W (1x230 V~). A further supply line must be created for the **ASKOHEAT+ 2.0** (details in the installation instructions for the heater).

The **ASKOHEAT-RC+** control unit must be installed on the **ASKOWALL+ 2.0**. The **ASKOHEAT-RC+** control unit is supplied with power (5 VDC) from the heater.

### Pre-installed connection cables

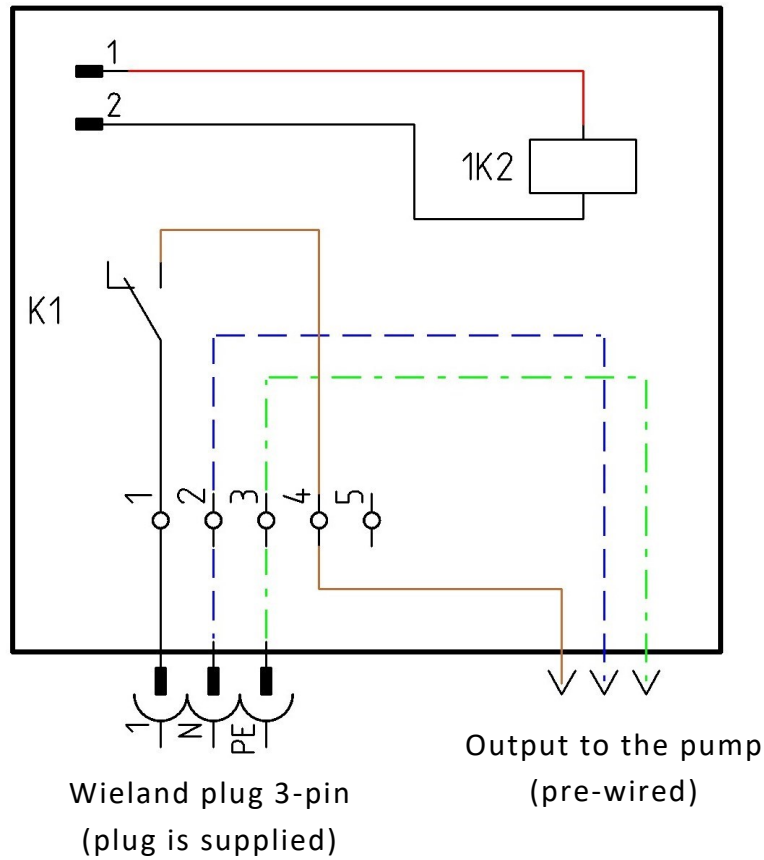
- Pump cable 1x230 V (3 x 0.75 mm<sup>2</sup>)
- RJ12 cable connection between **ASKOHEAT+ 2.0** and **ASKOHEAT-RC+**

### Connections to be set up by the customer

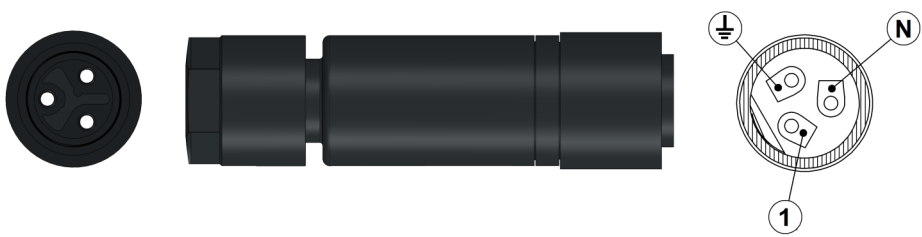
- A supply line must be created for the power supply of the pump (1x230 V~).
- A supply line must be created for the load circuit of the **ASKOHEAT+ 2.0** screw-in heater.
  - ◆ Optionally, the sensor set for the **ASKOWALL+ 2.0** can be used (article number 012-0129)
  - ◆ Optional, the heat pump request can be connected in the **ASKOHEAT-RC+**.

**Electric diagram**

Base of the ASKOWALL+ 2.0



**Plug / socket**



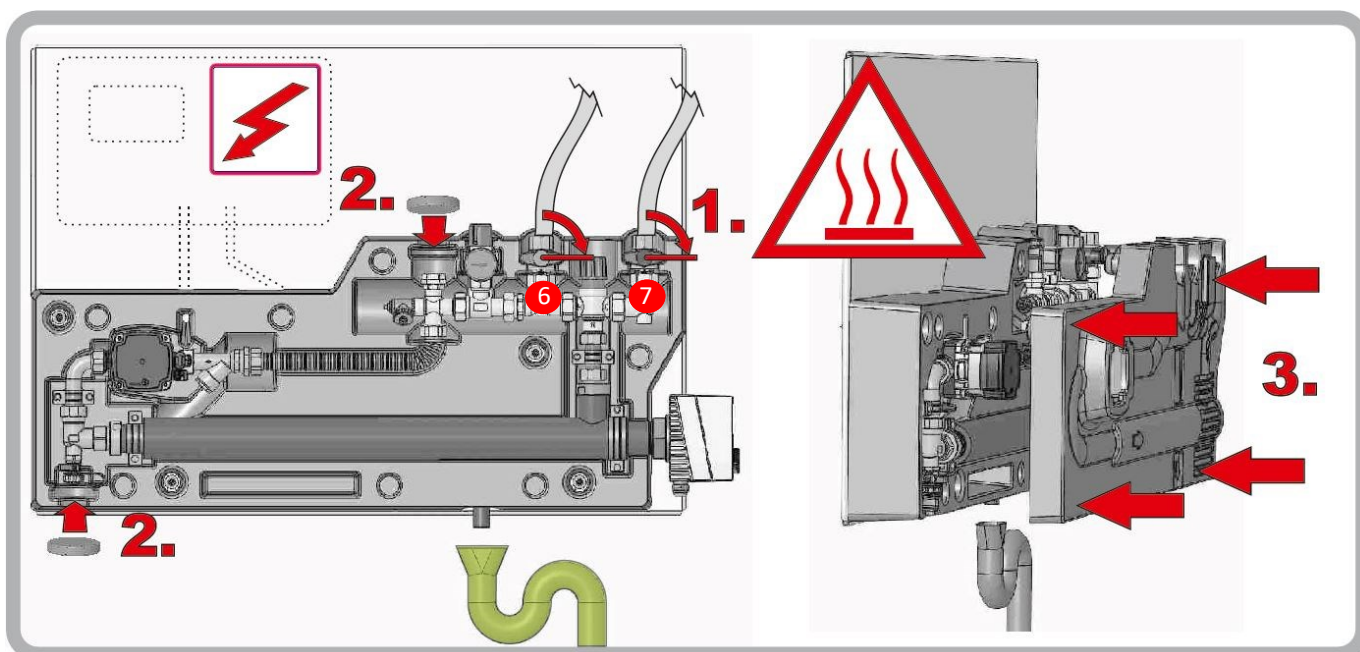
The ASKOHEAT-RC+ control unit in combination with the ASKOWALL+ 2.0 requires a 230V~ power supply to power the pump.

The maximum power consumption of the pump is 52W.

**Connection of the socket:**

- 1: Phase L (230V~)
- N: Neutral conductor
- PE: Earthing

## Isolation



**ATTENTION:** Before closing the isolation cover, the two shut-off valves of flow and return (no. 6 and no. 7) must be closed. Otherwise the isolation cover cannot be closed.

1. Close the shut-off valves of flow and return (no. 6 and no. 7).
2. The two isolating discs supplied are used to seal any unused connections of the expansion tank (no. 4) and the drain cock (no. 10). These can be inserted into the prefabricated slits.
3. After closing the cover, the shut-off valves of flow and return can be opened again



**ATTENTION:**

Pipes, fittings and connection hoses can be hot, there is a high risk of burns!

