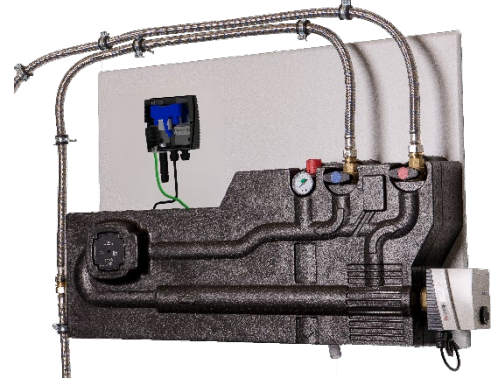


## Wall console ready for connection

without screw-in heater

### To maximise PV own power consumption

- For **ASKOHEAT+ 2.0** screw-in heater
- 7 levels up to 9.0kW
- for high storage temperatures up to 85°C
- excellent legionella protection



### Application

For external connection on heating buffer tank

1. For storage of PV energy as heat in heating water
2. As emergency heating for heating systems
3. For high storage temperatures for legionella protection (hygienic storage)
4. For existing buffer tanks without heating element access

### Features

This wall console can be retrofitted easily and individually and will be connected to the on-site buffer tank or integrated in the intake and outlet of the heating lines.

Increasing the storage temperature can contribute to legionella protection in a hygienic storage. A temperature between 50 and 75°C can be set manually on the thermostatic valve.

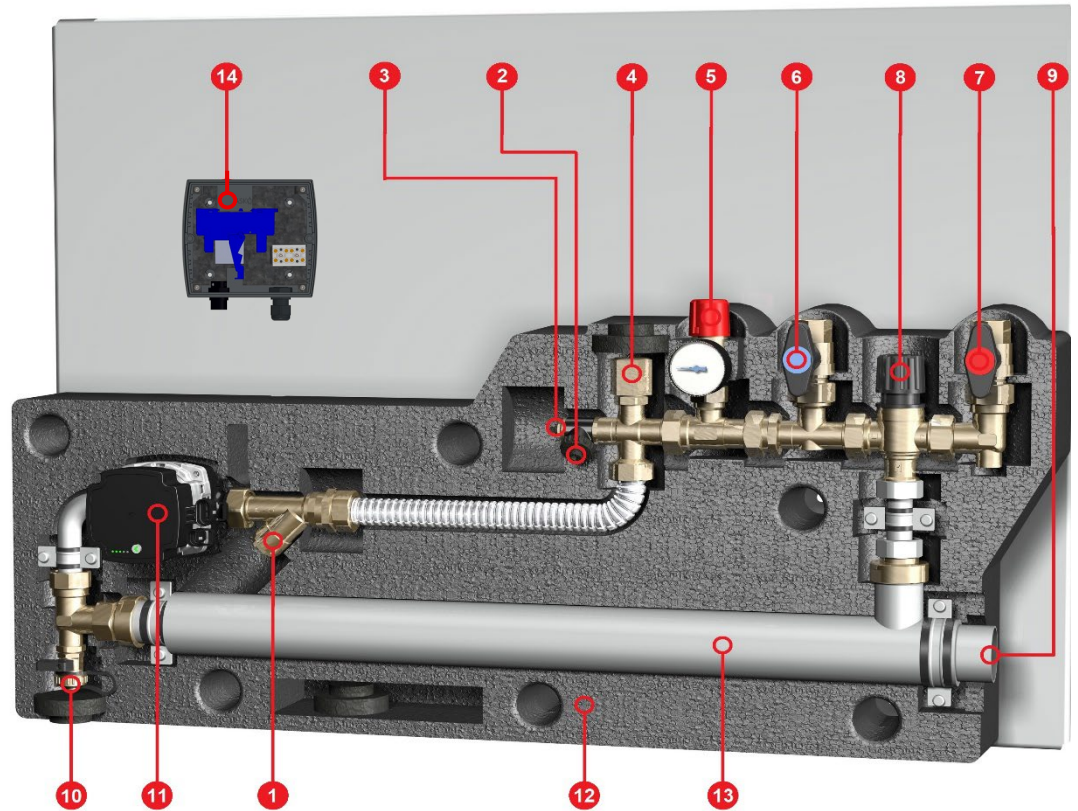
Thanks to the circulation pump in the **ASKOWALL+ 2.0**, the water circulates until the set temperature is reached. As soon as this set temperature is reached, the valve opens and the hot medium is stratified in the storage tank. If the temperature in the **ASKOWALL+ 2.0** falls below the set value due to cold water flowing in, the valve closes.

7-stage & 3-stage **ASKOHEAT+ 2.0** screw-in heater with 1½" thread can be used up to a maximum immersion length of 750mm.

### Order overview

Type	Order no.	Additional text	Immersion length [EL]
<b>ASKOWALL+ 2.0</b>	012-2110	1.75 kW up to 9.0 kW	Up to max. 750mm
<b>ASKOHEAT+ 2.0</b>			
AHIR-TI-plus-1.75	012-6801	7x0.25kW	400mm
AHIR-TI-plus-3.5	012-6802	7x0.50kW	600mm
AHIR-TI-plus-4.4	012-6803	7x0.65kW	700mm
AHIR-TI-plus-5.2	012-6804	7x0.75kW	750mm
Connection hoses for: <b>ASKOWALL &amp; ASKOWALL+ &amp; + 2.0</b>	012-0130	1600mm length	
<b>Sensor set</b> with 4 sensors for <b>ASKOHEAT+ 2.0</b>	012-0129	5m cable length	
<b>ASKOSET+</b> Energy meter, energy manager & power supply unit	012-2280		

### Accessories

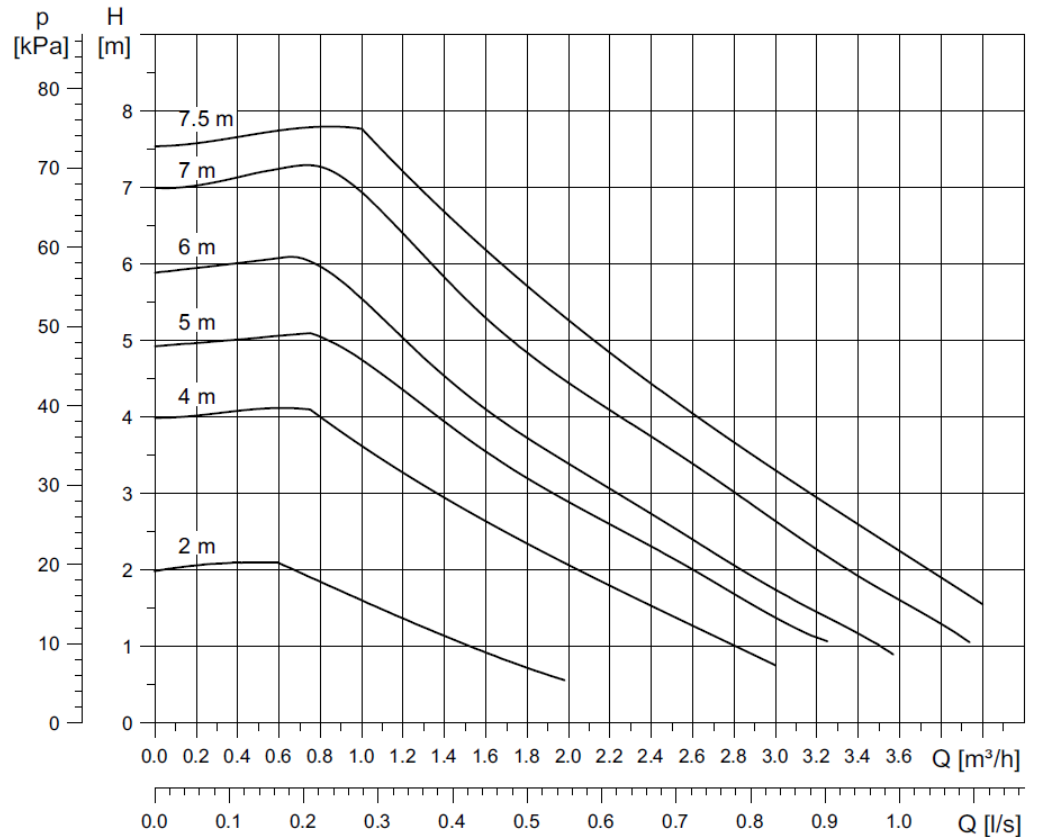


- 1 Mud flap
- 2 Filling valve
- 3 Vent valve
- 4 Connection for possible expansion tank (1" internal thread, flat sealing)
- 5 Pressure relief valve
- 6 Return flow shutoff & OXYban hose connection
- 7 Flow shutoff & OXYban hose connection
- 8 Thermostatic valve 50-75°C
- 9 1½" threaded connection for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

**Components**

<b>Pump</b>	Type:	Grundfos UPM3 Auto 15-70
	Power range:	min. 5 W (0.07A) max. 52 W (0.52A) at 1.0 MPa maximal pumping height 7m
	Connection:	230V ~ 50/60Hz

## Pump capacity



### Pressure gauge:

Pressure range: 0-4 bar  
Gauge: Ø 50mm

### Pressure relief valve:

Type: DUCO safety valve DN25  
Reaction pressure: 3 bar (permanently set)  
Max. heat output: 50kW  
Temperature: -10°C up to +120°C  
Medium: Water and water glycol mixture up to 50%  
Material: Brass CW614N  
Standard: NEN-EN-ISO 4126-1

### Thermostatic valve:

Type: tubra®-therm 507.19.00  
Adjustment range: +50°C up to +75°C  
Flow factor: 1.9 m³/h  
Material: Brass CuZn39Pb3 (2.0401)

### Ball valve:

Connection: 3/4" internal thread  
Material: Brass

### Filling valve:

Connection: 3/4" external thread  
Material: Brass

### Connection - expansion vessel:

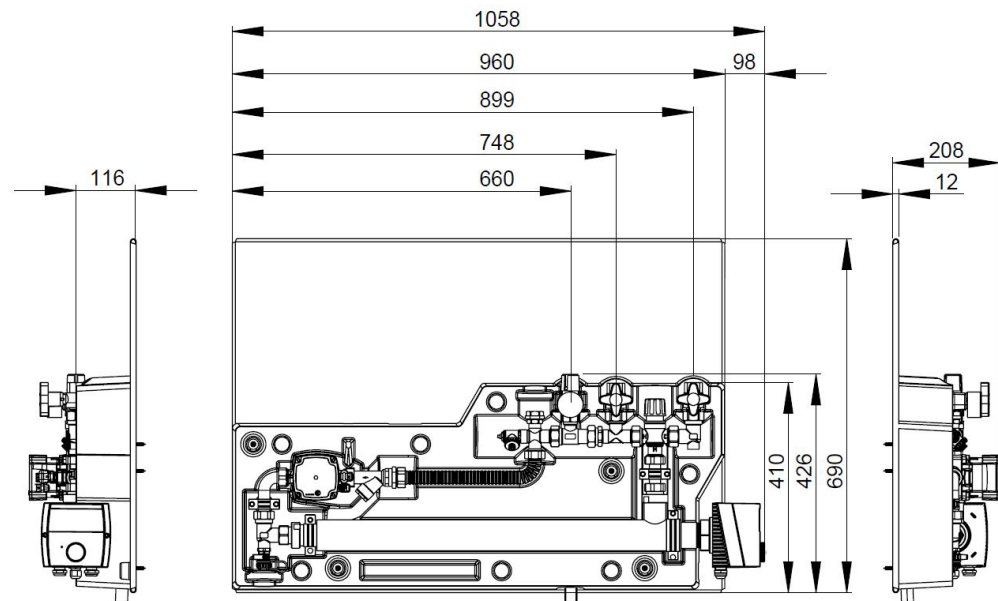
Connection: 3/4" external thread  
Material: Brass

### Vent cock:

Connection: 3/4" external thread

## Dimensions

### Dimensions of the wall console incl. screw-in heater



## Description

The **ASKOWALL+2.0** is designed for easy installation on any conventional buffer tank to provide the user with energy-efficient, smooth, high-temperature stratification. To this end **ASKOWALL** can be connected directly to the relevant buffer tank.

On the **ASKOWALL+2.0** the user sets the thermostatic valve (no. 8, see page 2) to the desired temperature, at which the valve should open, to fill the buffer tank with a minimum temperature. This can be chosen between 50 and 75°C.

Example: desired temperature is set at 60°C. The heating water in the **ASKOWALL+2.0** circulates within the internal circuit until the water is heated to 60°C.

The thermostatic valve then opens and the hot water passes to the tank. This continues for as long as water at the desired temperature is available. Then, the thermostatic valve closes and the process begins again.

The **ASKOHEAT+2.0** can heat the heating water up to 85°C and then the smart thermostat switches off.

## Application possibilities

The **ASKOHEAT+2.0** heating element are available in various output sizes.

These are available for single-phase operation (230V~) and three-phase operation (400V 3~).

The **ASKOHEAT+2.0** can be controlled via LAN, with Modbus-TCP / -RTU or 0-10V.

The correct application depends on the excess power of your PV system.

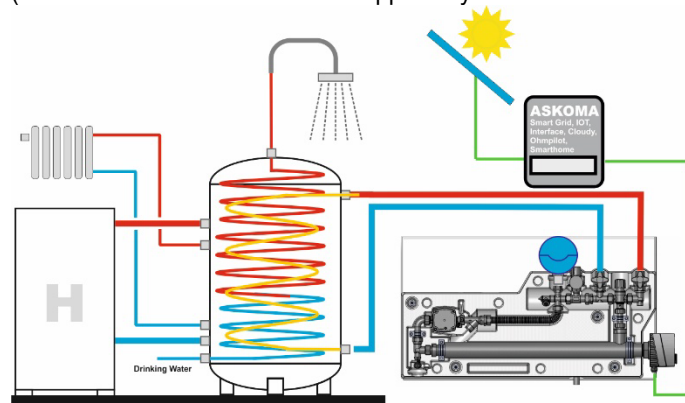
The **ASKOWALL+2.0** can also be used as a direct heating system.

## Application examples

### Hygienic tank with integrated solar heat exchanger

The **ASKOWALL+ 2.0** is designed for easy installation on a **hygienic tank with integrated solar heat exchanger**.

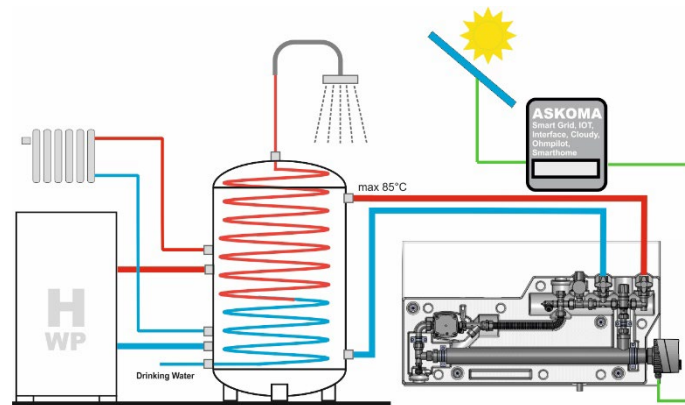
To this end, the **ASKOWALL+ 2.0** can be connected directly to the solar heat exchanger loop. This requires the customer to connect a solar expansion tank to connection no. 4 (see page 2) (size must be dimensioned and supplied by the technician on the basis of internal volume).



### Hygienic tank without integrated solar heat exchanger

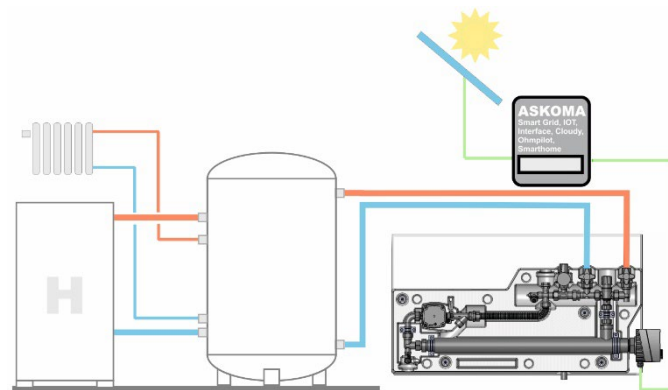
The **ASKOWALL+ 2.0** is designed for easy, direct installation on a **hygienic tank** to provide the user with energy-efficient, smooth, high-temperature stratification.

**ASKOHEAT+ 2.0** heating elements are available in many performance sizes.



### Buffer tank

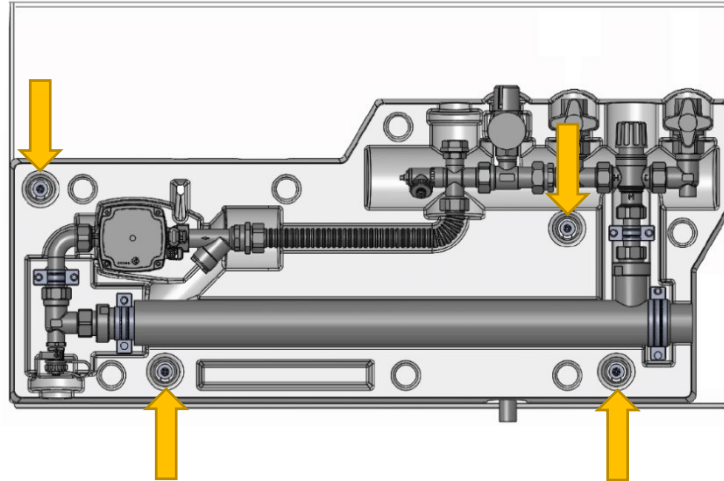
The **ASKOWALL+ 2.0** is designed for easy, direct installation on a **buffer tank** to provide the user with energy-efficient, smooth, high-temperature stratification.



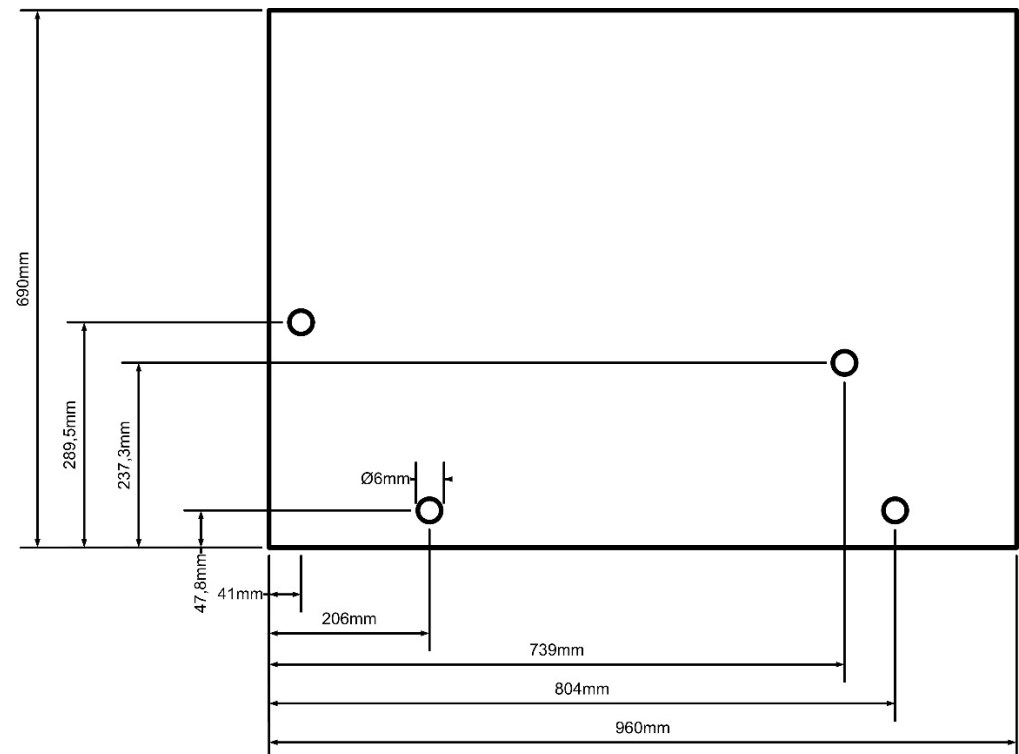
## Mounting

### Installation of the wall console

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



### Position of the boring holes



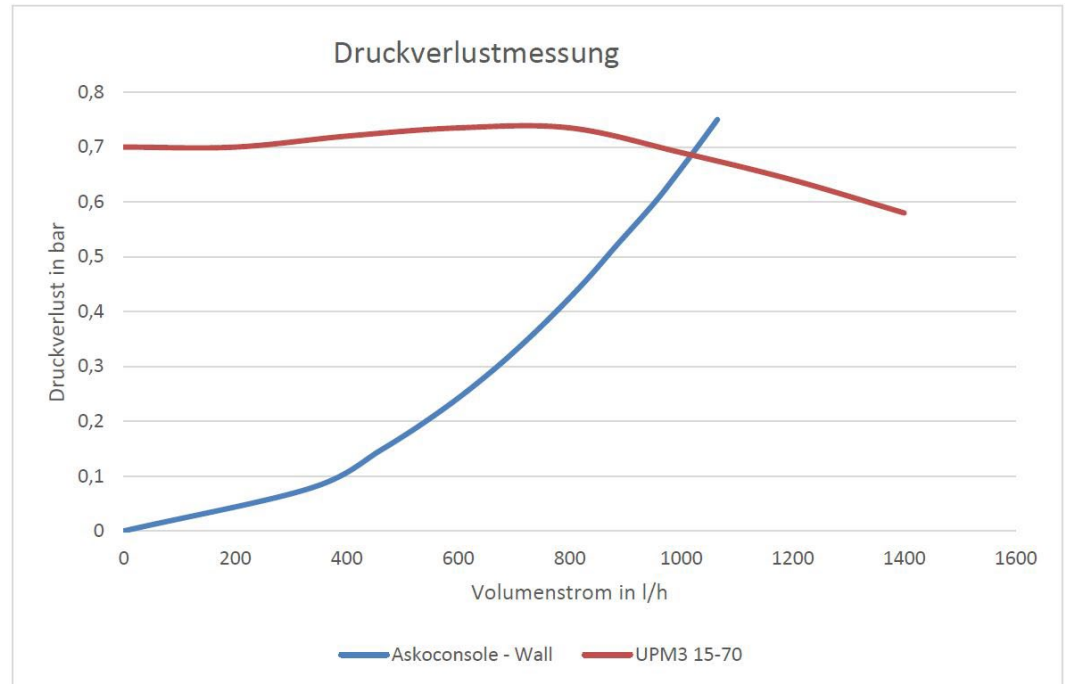
## Fitting notes

The **ASKOWALL+ 2.0** must be installed horizontally. Access must be guaranteed for inspection and maintenance. Uncovering the installation is not permitted. The **ASKOWALL+ 2.0** must be installed in a dry and frost-free surrounding.

The screw-in heater must be covered entirely by the liquid. The circulation of the liquid shall not be inhibited.

## Specific values

### Pressure loss



## Electrical connections

### Pre-wired connections of the ASKOWALL+ 2.0

#### Circulation pump connection cable

Connection cable between the connection box and the circulation pump

#### Data cable control unit

Connection cable between the ASKOHEAT-RC+ control unit and the ASKOHEAT+ 2.0

### ASKOWALL+ 2.0 connections to be created by the customer

#### Control unit supply cable

Power supply for the ASKOHEAT-RC+ control unit and the pump

#### Network connection or ModBus RTU connection to a meter

A network connection should be connected to the ASKOHEAT-RC+ control unit

Optionally, a connection to an energy meter via the RS485 interface is also possible

#### Supply line (ASKOHEAT+ 2.0)

Energy supply of the screw-in heater

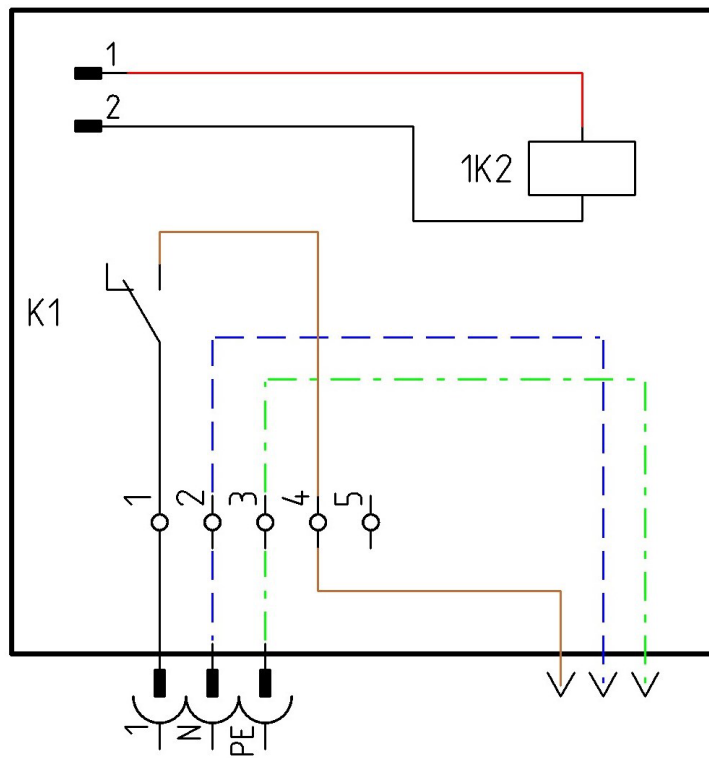
## Note !

The ASKOHEAT-RC+ control unit requires an Ethernet (LAN) connection to the local network. The local network must have a connection to the Internet.

For parameterization, registration and commissioning, the ASKOHEAT-RC+ must be able to establish a connection to the ASKOMA server.

Without a connection to the ASKOMA server, it is not possible to synchronize the data. The ASKOHEAT+ 2.0 heating element and the ASKOWALL+ 2.0 cannot be put into operation.

Scheme  
RC base



Wieland socket 3-pin  
(connection socket is supplied)

Outlet to the pump  
(pre-wired)

For power supply to the pump  
1x 230V~ power consumption approx.  
52W