

ASKOMA we care about energy



Plug & Play for:



Top Features
 Insulated construction with dip switch
 Heating power 3, 6, 7 or 19 levels
 Local web interface
NEW as ceramic flange heater

ASKOHEAT+ 2.0

SCREW-IN AND FLANGE HEATER, MULTI-LEVEL, FOR LAN, MODBUS TCP/RTU, REST API JSON AND 0-10V



- **ASKOHEAT+ 2.0** Screw-in heater 1½", 3 and 7 levels
- **ASKOHEAT-F+ 2.0** Flange heater Ø 180mm, 3 and 7 levels
- **ASKOHEAT-F+ 2.0** Flange heater Ø 240/280mm, 6 and 19 levels
- **ASKOHEAT-FK+ 2.0** Ceramic Flange heater Ø 280mm, 6 levels
- **ASKOHEAT-RC+** Remote Control

THE ASKOHEAT+ 2.0 IS USED FOR ENERGY MANAGEMENT SYSTEMS THAT COMMUNICATE VIA LAN, MODBUS TCP/RTU, REST API JSON OR 0-10V



The **ASKOHEAT+ 2.0** converts your electricity surplus from the PV system, wind turbine, water turbine or CHP into heat and stores it in your buffer tank / boiler in the house. This heat is then available when needed.

Example for maximum PV electricity storage:

You have a 1000L buffer tank with a fresh water station that you heat up to 40°C with your heat pump with a high COP. With the **ASKOWALL+ 2.0** and the **ASKOHEAT+ 2.0** you can load this buffer tank up to max. ca. 85°C.

Example: 1000L by 35°C (from 40 - 75°C) x 1.16 = 40kWh

You can save up to 40kWh PV electricity.



Thanks to the PV surplus storage, you can protect the compressor of your heat pump in summer operation and increase the service life of the heat pump due to the hot water heating.

This energy will then be available on demand as needed.

The display of the remote control housing shows the device status, the temperatures and the IP address of the heating element.

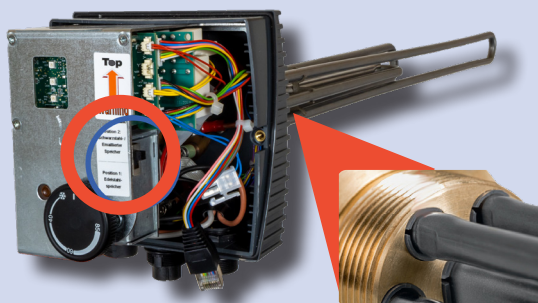
The following plugs can be easily connected:

- RJ 12 – connection to the **ASKOHEAT+ 2.0**
- RS485/Modbus RTU
- LAN/Modbus TCP
- X2 for 0-10V and heat pump request
- X3 for 4 PT 1000 sensors



The **ASKOHEAT+ 2.0** flange and screw-in heaters are produced as Incoloy 825 version, suitable for a simple direct mounting in all heating and drinking water tanks.

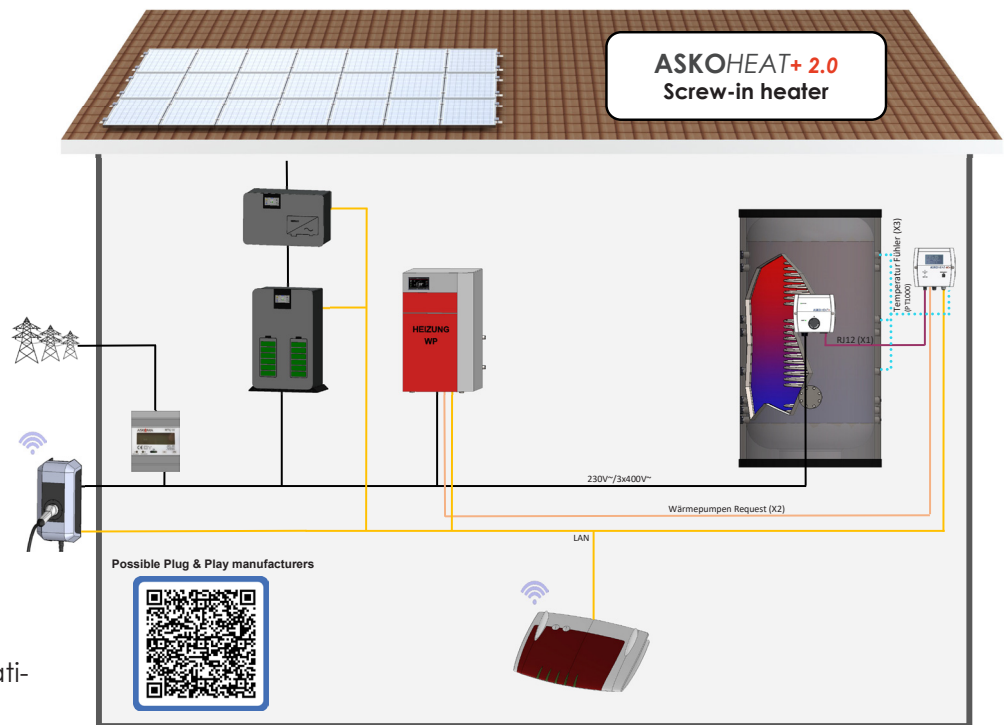
Thanks to the insulated construction and the dip switch, they can be used in black steel, enamelled as well as stainless steel tanks. This solves the problem of corrosion with regard to the different storage materials.



Approvals

- EN 60335-2-21
Condensate drain in housing prevents corrosion
No damage to the heating element during dry run
Overvoltage resistant (7.25%)
- EN 60335-1, EN 60335-2-7
- EN 55014-1, EN 55014-2
- EN 62233
- EN 60529

DEVICE VARIANTS AND ADVANTAGES OF AN ASKOHEAT+ 2.0



The **ASKOHEAT+ 2.0** flange and screw-in heaters are designed for an easy and direct installation on a

- Hygienic tank
- Heating buffer tank, alternatively with fresh water station
- Drinking water storage

to give the user the opportunity to store the maximum excess PV power. The **ASKOHEAT+ 2.0** heating elements are available in many performance sizes (see last page).

Settings

- The heating insert has a local web interface. With the usual web browsers, all settings can be made comfortably locally and there is a current device status display
- Enter in the web browser: <http://askoheat.local> or the IP address (e. g. <http://192.168.1.29>)

Assembling

- The electrical connection of the device is easy to install using the supplied plug
- Thanks to these plugs, the device can be disconnected easily and completely from the power and data network for service work

Function

- Power to Heat works directly via bidirectional energy meter, energy manager or building automation controls
- Control can either take place via allowed power or energy surplus control (feed-in value)
- Extensive API or Modbus TCP/RTU for complete control and monitoring of the heating element through customer-owned automation
- Button for emergency heating on the device = heating element switches to 100% power for 24 hours
- Heat pump request via potential-free input (performance adjustable)

Comfort control

- Up to 4x PT1000 temperature sensors can be read out in order to display the stratification temperature behavior in the storage tank. In addition, the reference sensor can be selected for setpoint entries
- 4 dynamic legionella protection time programs are integrated, daily, weekly, fortnightly, monthly (interval start after last high temperature)
- Night power usage = the drinking water can be heated in the boiler with night-time electricity (low tariff) in the desired time window to the freely adjustable temperature
- Safety temperature = a safety temperature can be defined, below which the temperature should not fall


ORDER OPTIONS

Order no.	Appellation	Description	Immersion length mm	Use
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1.1. Screw-in heater ASKOHEAT+ 2.0, 7 and 3 levels, 230V / 400V

	012-6801	AHIR-TI-plus-1.75	ASKOHEAT+ 2.0, 7 levels, 230V / 400V, 1.75kW	400	Wall/Tank
	012-6802	AHIR-TI-plus-3.5	ASKOHEAT+ 2.0, 7 levels, 400V, 3.5kW	600	Wall/Tank
	012-6803	AHIR-TI-plus-4.4	ASKOHEAT+ 2.0, 7 levels, 400V, 4.4kW	700	Wall/Tank
	012-6804	AHIR-TI-plus-5.2	ASKOHEAT+ 2.0, 7 levels, 400V, 5.2kW	750	Wall/Tank
	012-6811	AHIR-TI-plus-7.5	ASKOHEAT+ 2.0, 3 levels, 400V, 7.5kW	700	Wall/Tank
	012-6812	AHIR-TI-plus-9.0	ASKOHEAT+ 2.0, 3 levels, 400V, 9.0kW	750	Wall/Tank

1.2. Flange heater ASKOHEAT-F+ 2.0, Ø 180mm, 7 and 3 levels, 230V / 400V

	012-6821	AHF180-TI-plus-1.75	ASKOHEAT-F+ 2.0, 7 levels, 230V / 400V, 1.75kW	260	Tank
	012-6822	AHF180-TI-plus-3.5	ASKOHEAT-F+ 2.0, 7 levels, 400V, 3.5kW	360	Tank
	012-6823	AHF180-TI-plus-4.4	ASKOHEAT-F+ 2.0, 7 levels, 400V, 4.4kW	420	Tank
	012-6824	AHF180-TI-plus-5.8	ASKOHEAT-F+ 2.0, 7 levels, 400V, 5.8kW	540	Tank
	012-6831	AHF180-TI-plus-7.5	ASKOHEAT-F+ 2.0, 3 levels, 400V, 7.5kW	420	Tank
	012-6832	AHF180-TI-plus-9.0	ASKOHEAT-F+ 2.0, 3 levels, 400V, 9.0kW	490	Tank


1.3. Flange heater ASKOHEAT-F+ 2.0, Ø 240mm, 6 and 19 levels, 400V

	012-6841	AHF240-TI-plus-10.0	ASKOHEAT-F+ 2.0, 6 levels, 400V, 10.0kW	300	Tank
	012-6842	AHF240-TI-plus-15.0	ASKOHEAT-F+ 2.0, 6 levels, 400V, 15.0kW	420	Tank
	012-6843	AHF240-TI-plus-20.0	ASKOHEAT-F+ 2.0, 6 levels, 400V, 20.0kW	540	Tank
	012-6851	AHF240-TI-plus-9.5	ASKOHEAT-F+ 2.0, 19 levels, 400V, 9.5kW	360	Tank
	012-6852	AHF240-TI-plus-11.9	ASKOHEAT-F+ 2.0, 19 levels, 400V, 11.9kW	420	Tank
	012-6853	AHF240-TI-plus-15.8	ASKOHEAT-F+ 2.0, 19 levels, 400V, 15.8kW	540	Tank


1.4. Flange heater ASKOHEAT-F+ 2.0, Ø 280mm, 6 and 19 levels, 400V

	012-6861	AHF280-TI-plus-10.0	ASKOHEAT-F+ 2.0, 6 levels, 400V, 10.0kW	300	Tank
	012-6862	AHF280-TI-plus-15.0	ASKOHEAT-F+ 2.0, 6 levels, 400V, 15.0kW	420	Tank
	012-6863	AHF280-TI-plus-20.0	ASKOHEAT-F+ 2.0, 6 levels, 400V, 20.0kW	540	Tank
	012-6871	AHF280-TI-plus-9.5	ASKOHEAT-F+ 2.0, 19 levels, 400V, 9.5kW	360	Tank
	012-6872	AHF280-TI-plus-11.9	ASKOHEAT-F+ 2.0, 19 levels, 400V, 11.9kW	420	Tank
	012-6873	AHF280-TI-plus-15.8	ASKOHEAT-F+ 2.0, 19 levels, 400V, 15.8kW	540	Tank

1.5. Ceramic Flange heater ASKOHEAT-FK+ 2.0, Ø 280mm, 6 levels, 400V

	012-5321	AHF280-FK-plus-10.0	ASKOHEAT-FK+ 2.0, 6 levels, 400V, 10.0kW	500	Tank
	012-5322	AHF280-FK-plus-15.0	ASKOHEAT-FK+ 2.0, 6 levels, 400V, 15.0kW	750	Tank
	012-5323	AHF280-FK-plus-20.0	ASKOHEAT-FK+ 2.0, 6 levels, 400V, 20.0kW	850	Tank

2.1. Options

	012-0128	ASKOSENSOR	Sensor set with 3x PT1000 sensors and junction box for ASKOHEAT+ 2.0 if used in tank.		Tank
	012-0129	ASKOSENSOR	Sensor set with 4x PT1000 sensors for ASKOHEAT+ 2.0 to be attached on the ASKOWALL+ 2.0		Wall

All functions and „plug and play“ options can be found here:



Addition on
ASKOHEAT-PH 2.0



Addition on
ASKOFAMILY+

