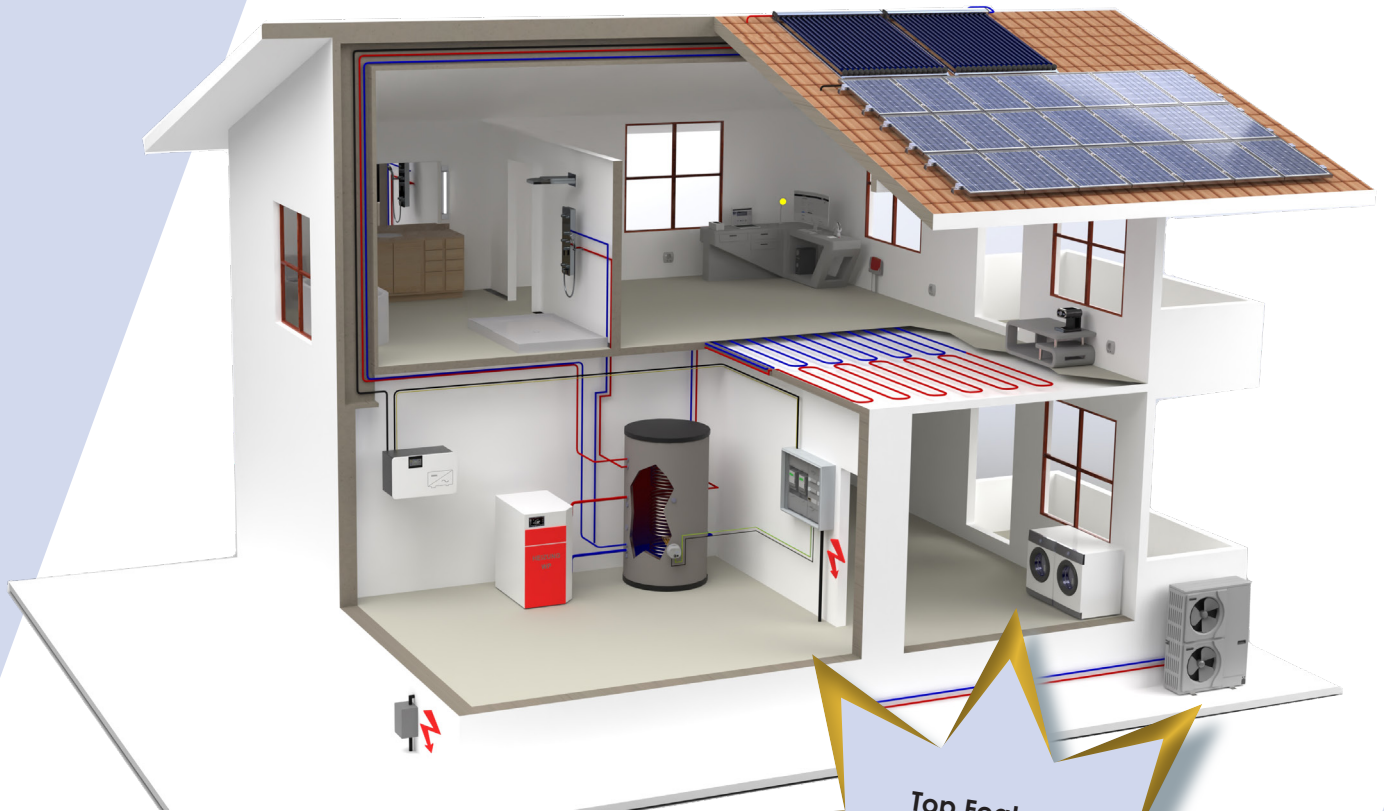


ASKOMA *we care about energy*



Top Features

- Store excess electricity in heat at all times
- Expandable to ASKOFAMILY+ at any time
- Open to all heat pump systems

ASKOHEAT-PIH 2.0

THE POWER TO HEAT ENTRY SOLUTION
FOR EVERY BUDGET



- **ASKOHEAT+ 2.0** Screw-in and flange heater
- **ASKOWALL+ 2.0** Wall console ready to connect
- Bidirectional meter

THE ASKOHEAT+ 2.0 IS USED WITH THE BIDIRECTIONAL METER



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. The whole thing is easy to install thanks to the finished cable connector system. The heating element can be controlled via LAN, Modbus TCP / RTU, REST API JSON and 0-10V.

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

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

With the installation of the energy meter at the building node and the **ASKOHEAT+ 2.0** in the warm water tank, you have already taken the first step into the smart home world. You connect your house router and the **ASKOHEAT+ 2.0** with an on-site LAN cable. The **ASKOHEAT+ 2.0** and the energy meter you connect with an RS 485 cable (two-wire line) and the wiring for Power to Heat is ready.

The following bidirectional counters are usable:

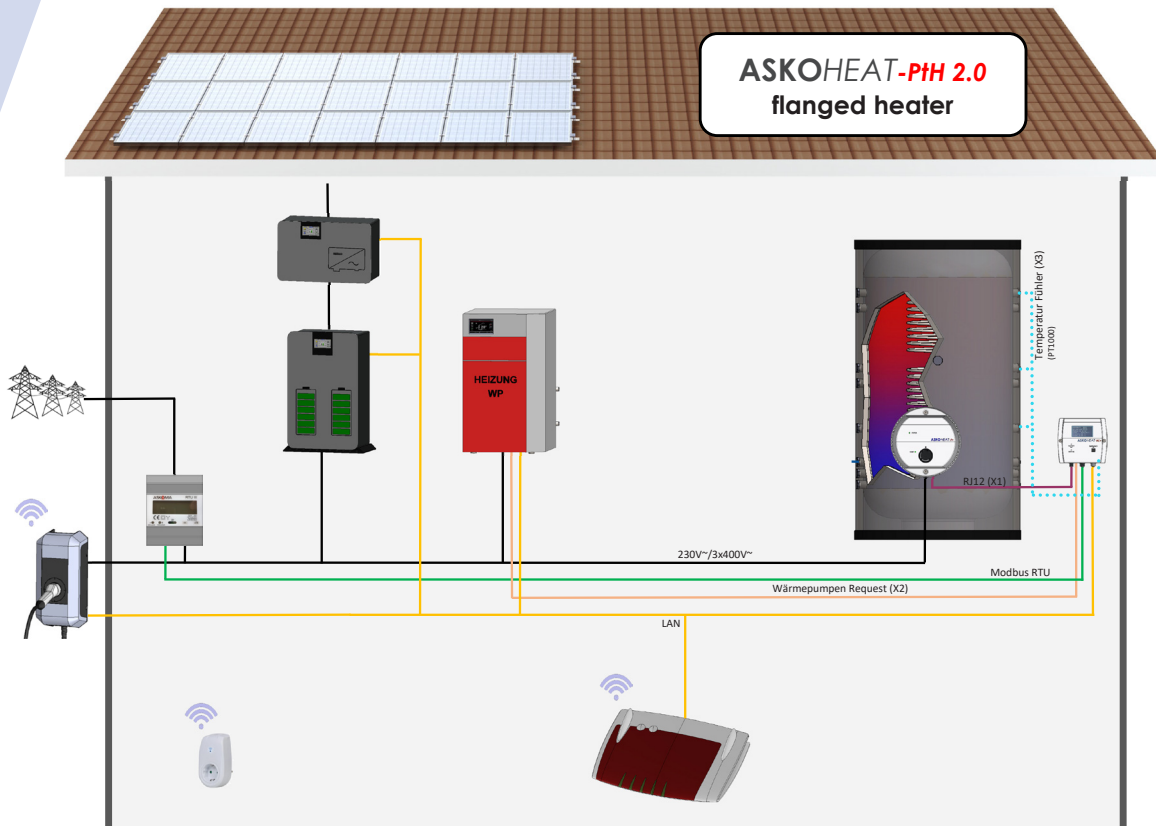
- ASKOMA bidirectional meter RTU
- ASKOMA bidirectional meter RTU III
- Carlo Gavazzi EM340
- Optec ECS M3
- Eastron SDM72D-M
- Fronius Smart Meter
- Huawei Smart Meter.....and much more



Functions available in the house network via WEB Interface

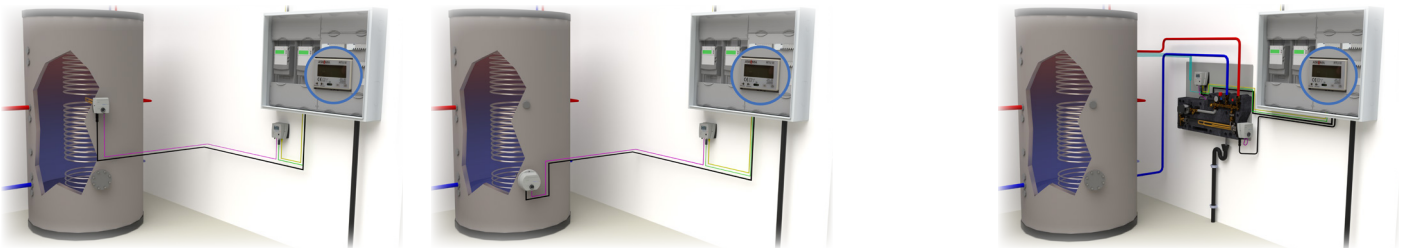
- PV surplus electricity prioritised to an **ASKOHEAT+ 2.0**
- Power to Heat 3-, 6-, 7- or 19-levels
- System self-regulating via information from the bidirectional meter
- System can be viewed via home network
- Visualisation of the house network via PC, tablet, mobile phone
- No cloud necessary
- Real-time visualisation only
- Storage temperature can be read out with 4 sensor (PT1000)
- Control as emergency heating of heat pumps (100%)
- Manual operation of the heating element 100% (shutdown after 24h)
- Legionella protection management (daily, weekly, fortnightly, monthly, always measured from the time of the last high temperature, thus max. PV power utilisation)

DEVICE VARIANTS



ASKOHEAT+ 2.0 screw-in or flanged heater, with remote control together with bidirectional meter.

ASKOWALL+ 2.0 incl. ASKOHEAT+ 2.0 screw-in heater together with bidirectional meter.










Initial temperature in storage tank [°C]	40
Storage capacity [l]	1000

Final storage temperature [°C]	50	60	70	80	85
Rise of storage temperature [K]	10	20	30	40	45

Installation method of the heating element	Volume		PV power storage in [kWh]				
ASKOWALL uses the whole storage capacity	100%		11.6	23.2	34.8	46.4	52.2
Screw-in heater is in the middle area	50%		5.8	11.6	17.4	23.2	26.1
Flange heater is in the lower range	75%		8.7	17.4	26.1	34.8	39.2

ORDER OPTIONS

	Order no.	Appellation	Description	Immersion length mm	Use
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
1.3. 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
2.1. Temperature storage stratification					
	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
3.1. Expansion bidirectional meter					
	004-0367	Energy meter up to 100A	Energy meter for node or inverter reading up to 100A		Wall/Tank

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



plug & play functions

The following option extensions are available to you:

This system can be expanded at any time with the energy manager **ASKOSET+** and its software extension **ASKOHOMER+**. A demo version is available in the App or Play Store under **ASKOHOMER+**.

You can find more about this in the **ASKOFAMILY+** brochure.



ASKOFAMILY+