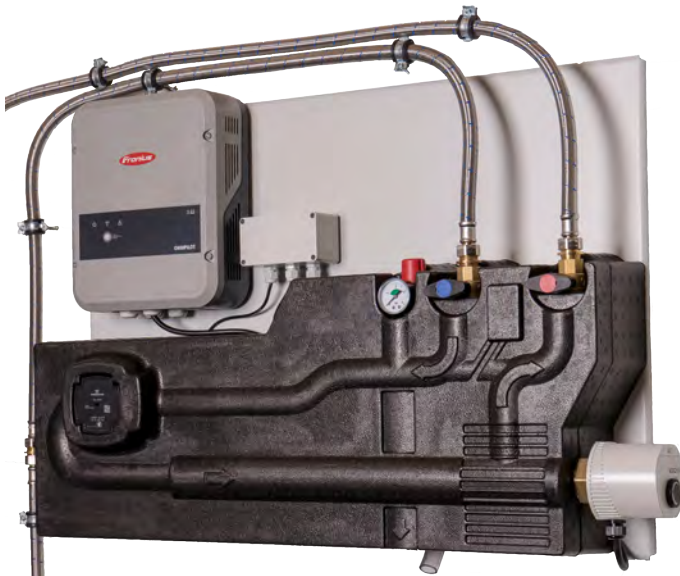





ASKOHEAT-OHMPILOT

SCREW-IN AND FLANGE HEATER SUITABLE FOR
CONTINUOUS OPERATION VIA OHMPILOT



CE

ASKOMA  *we care
about energy*

SCREW-IN HEATER IN 1½"
FLANGE HEATER Ø 180, 240 & 280mm

- Continuous heating power via Ohmpilot
- 400V

APPLICATION EXAMPLES

If you want to store excess electricity with a Fronius Ohmpilot, the **ASKOHEAT-OP** 400V continuously variable will be used.

Our scope of supply includes the **ASKOHEAT-OP** in various power classes as 400V version.

The following device variants are available:

- Screw-in heater 1½"
- Flange heater Ø 180, 240 and 280mm
- **ASKOWALL-OP**

The **ASKOHEAT-OP**, combined with the Ohmpilot, converts your electricity surplus from the PV system into heat and stores it in your buffer tank / boiler in the house. This heat is then available when needed.

Example of 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-OP** and the **ASKOHEAT-OP** you can load this buffer tank up to 85°C.

This means: 1000L x 45°C temperature difference to max. 85°C x 1.16 = 52 kWh

You can save up to 52 kWh of PV power.

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.

"Take pleasure in heating" through the maximum use of surplus of specially produced renewable energy.

Buffer tank, alternatively with fresh water station

- The **ASKOHEAT-OP** screw-in and flange heater are designed for easy, direct installation on a buffer tank, in order to give the user the opportunity to store the maximum PV excess current.
- **ASKOHEAT-OP** heating elements are available in many performance sizes (see last page).

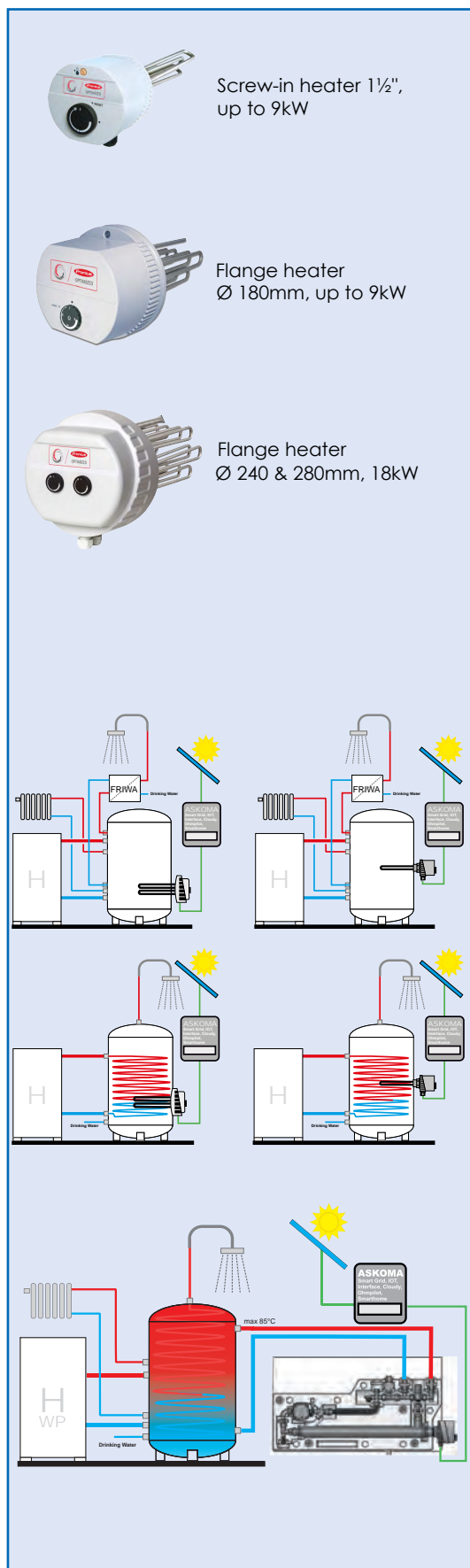
Drinking water storage

- The **ASKOHEAT-OP** flange heater are designed for easy, direct installation on a drinking water storage, in order to give the user the opportunity, to store the maximum PV excess current.
- **ASKOHEAT-OP** heating elements are available in many performance sizes (see last page).

ASKOWALL for Ohmpilot

- For max. surplus PV power storage
- Automatic temperature control
- Min. flow temperature can be freely selected (50-75°C)
- Temperatures up to 85°C possible
- Full buffer tank volume can be used
- Legionella protection thanks to high temperature
- Self-regulating pump
- No turbulence in thermal stratification of tank
- Pressure relief valve 3 bar
- Hydraulic unit tested up to 10 bar
- Slight changes possible
- Heating elements up to 9kW can be used

Subject to technical changes



ADVANTAGES ASKOHEAT-OP

Easy to install

- ① Screw-in heater 1-9kW with insulated mounted heating tubes are suitable for enamelled and black steel boilers, and thanks to a dip switch also for stainless steel tanks
- ② Standard hex for secure tightening with conventional wrenches
- ③ Thread for precise housing position and tight installation (1½" standard)

Technical design

- ④ Surface load 8-9W/cm², suitable for heating water
- ⑤ Optimal sensor position in the oval immersion tube for identical temperature measurement of safety temperature limiter and temperature control

ADVANTAGES ASKOHEAT-FOP

Easy to install

- ① Standard flange Ø 180mm, 1-9kW / Ø 240 & 280mm, 18kW are suitable for enamelled and black steel boilers, thanks to a dip switch also for stainless steel tanks
- ② Flat gasket included

Technical design

- ③ Low surface load (7W/cm²) for low calcification
- ④ Optimal sensor position
- ⑤ Insulated assembly of the heating elements for low corrosion

ADVANTAGES ASKOWALL-OP

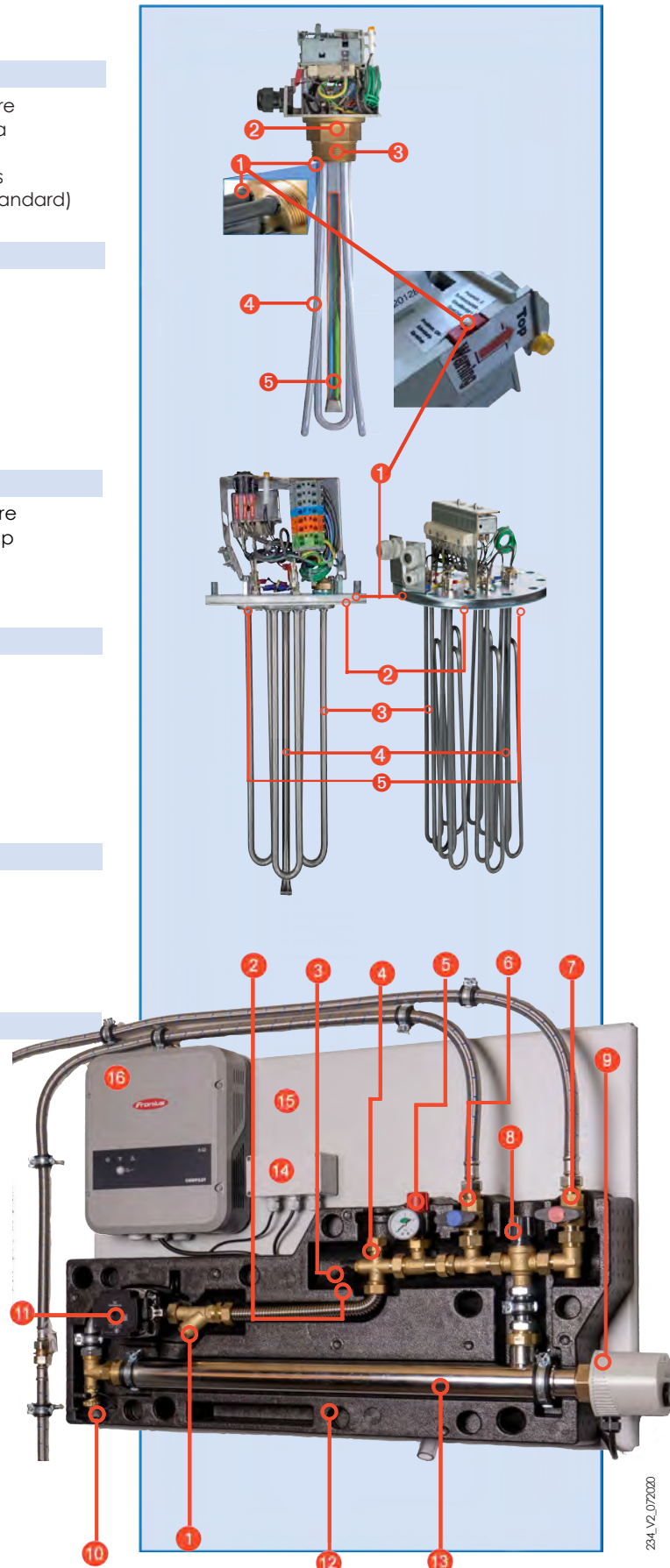
Easy to install






- Simple wall installation
- Ready to connect with two flexible oxygen-tight OXYban hoses (can be ordered)
- Pump incl. time delay relay completely pre-wired

Technical design

- ① Mud flap
- ② Filling valve
- ③ Vent valve
- ④ Connection for possible expansion tank
- ⑤ Pressure relief valve
- ⑥ Return flow shutoff (and OXYban hose connection)
- ⑦ Flow shutoff (and OXYban hose connection)
- ⑧ Thermostatic valve 50-75°C
- ⑨ Screw-in heater **ASKOHEAT-OP** according to choice of power
- ⑩ Drain cock
- ⑪ Circulation pump
- ⑫ Insulation housing
- ⑬ Instantaneous water heater **ASKOFLOW** up to 9kW
- ⑭ Junction box with pump time delay relay
- ⑮ Console rear wall
- ⑯ On-site Fronius Ohmpilot

Subject to technical changes



	Order no.	Appellation	Description	Immersion length mm	Use
1.1. ASKOWALL -OP					
	012-5500	ASKOWALL -OP	ASKOWALL -OP for heating water, composed of a hydraulic unit with mud flap, filling valve, vent valve, connection for possible expansion tank, pressure relief valve, return flow shutoff, flow shutoff, thermostatic valve 50-75°C, connection for ASKO HEAT -OP according to choice of power, drain cock, circulation pump and insulation housing. The electrical junction box is pre-wired for the on-site Fronius Ohmpilot as well as for the circulation pump and contains the time delay relay.	1300x700	
2.1. Screw-in heater ASKOHEAT -OP, continuously variable 400V					
	012-5501	AHIR-BI-OP-1.0	ASKOHEAT -OP, 400V, continuously variable 1.0kW	300	WALL/Tank
	012-5502	AHIR-BI-OP-2.0	ASKOHEAT -OP, 400V, continuously variable 2.0kW	300	WALL/Tank
	012-5503	AHIR-BI-OP-2.5	ASKOHEAT -OP, 400V, continuously variable 2.5kW	350	WALL/Tank
	012-5504	AHIR-BI-OP-3.0	ASKOHEAT -OP, 400V, continuously variable 3.0kW	400	WALL/Tank
	012-5505	AHIR-BI-OP-3.8	ASKOHEAT -OP, 400V, continuously variable 3.8kW	450	WALL/Tank
	012-5506	AHIR-BI-OP-4.5	ASKOHEAT -OP, 400V, continuously variable 4.5kW	500	WALL/Tank
	012-5507	AHIR-BI-OP-6.0	ASKOHEAT -OP, 400V, continuously variable 6.0kW	600	WALL/Tank
	012-5508	AHIR-BI-OP-7.5	ASKOHEAT -OP, 400V, continuously variable 7.5kW	700	WALL/Tank
	012-5509	AHIR-BI-OP-9.0	ASKOHEAT -OP, 400V, continuously variable 9.0kW	750	WALL/Tank
2.2. Flange heater ASKOHEAT -FOP Ø 180mm, continuously variable 400V					
	012-5601	AHFOR-BI-OP-2.0	ASKOHEAT -FOP Ø 180mm, 400V, continuously variable 2.0kW	260	Tank
	012-5602	AHFOR-BI-OP-2.5	ASKOHEAT -FOP Ø 180mm, 400V, continuously variable 2.5kW	310	Tank
	012-5603	AHFOR-BI-OP-4.0	ASKOHEAT -FOP Ø 180mm, 400V, continuously variable 4.0kW	260	Tank
	012-5604	AHFOR-BI-OP-5.0	ASKOHEAT -FOP Ø 180mm, 400V, continuously variable 5.0kW	300	Tank
	012-5605	AHFOR-BI-OP-6.0	ASKOHEAT -FOP Ø 180mm, 400V, continuously variable 6.0kW	360	Tank
	012-5606	AHFOR-BI-OP-7.5	ASKOHEAT -FOP Ø 180mm, 400V, continuously variable 7.5kW	420	Tank
	012-5607	AHFOR-BI-OP-8.0	ASKOHEAT -FOP Ø 180mm, 400V, continuously variable 8.0kW	450	Tank
	012-5608	AHFOR-BI-OP-9.0	ASKOHEAT -FOP Ø 180mm, 400V, continuously variable 9.0kW	490	Tank
2.3. Flange heater ASKOHEAT -FOP Ø 240 & 280mm, continuously variable 400V					
	012-5611	AHFOR-BI-OP-18.0, Ø240mm	ASKOHEAT -FOP Ø 240mm, 400V, continuously variable 18.0kW	490	Tank
	012-5611	AHFOR-BI-OP-18.0, Ø280mm	ASKOHEAT -FOP Ø 280mm, 400V, continuously variable 18.0kW	490	Tank
3.1. Options					
	012-0130	ASKOHOSE	Two oxygen-tight OXYban connection hoses for a flexible connection of the ASKOWALL to the buffer tank (length 1600mm)		WALL

Approvals screw-in and flange heater

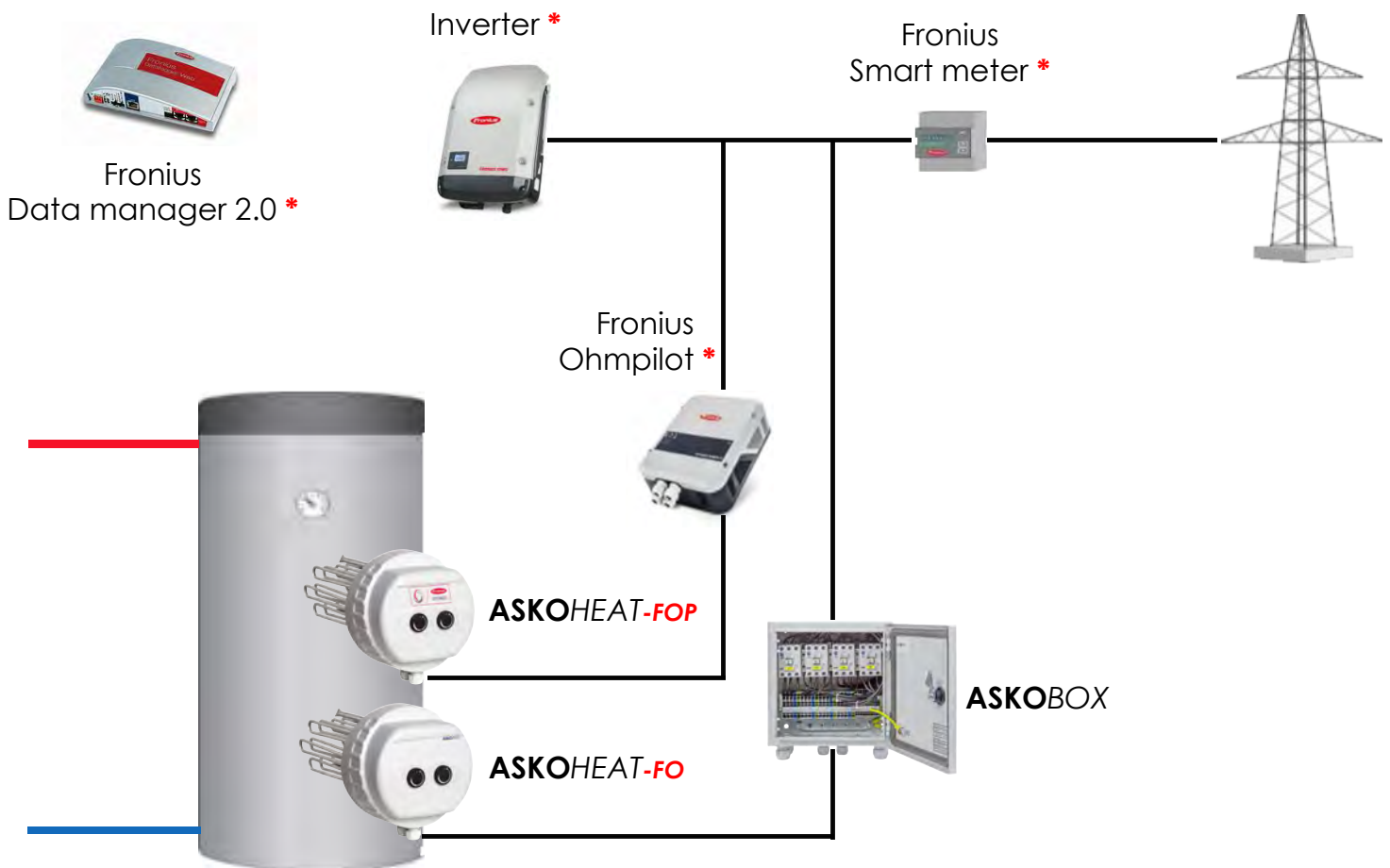
- EN 60335 -2-21
Condensate drain in housing prevents corrosion
No damage to the heating element during dry run
Overvoltage resistant (7.25%)
- EN 60 335-1, EN 6 03 35 -2-73
- EN 55014 -1, EN 5 5014-2
- EN 62233
- EN 60529






ASKOHEAT-OHMPILOT

ASKOMA - FRONIUS OHMPILOT
CONTINUOUSLY VARIABLE SOLUTION FOR 36kW



* on site

CE

ASKOMA  we care
about energy







**STORE 36kW EXCESS ELECTRICITY
CONTINUOUSLY VARIABLE IN HEAT**


Order no.	Appellation	Description	Immersion length mm
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1.1. On-site Fronius components




		Fronius Inverter	Galvo, Primo, Symo or Eco	
	43.0001.1473 63A	Fronius Smart meter	Bidirectional meter for recording power consumption	
	43.0001.1478 50kA-3	Fronius Smart meter	Bidirectional meter for recording power consumption	
	4.240.160	Fronius Ohmpilot	Consumption regulator that continuously transfers excess PV electricity to the ASKOHEAT-OP for hot water preparation	

1.2. Option (on-site, if there is no Fronius inverter)




	4.240.125	Fronius Data manager 2.0	WLAN Datalogger necessary for external inverters or CHP	
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2.1. ASKOMA components for storage tanks with connection flange Ø 240mm

	012-5611	AHFOR-BI-OP-18.0, Ø 240mm	ASKOHEAT-FOF Ø 240mm, 400V, continuously variable 18.0kW	490
	012-1748	AHFOR-BI-A-18.0, Ø 240mm	ASKOHEAT-FO Ø 240mm, 400V, continuously variable 18.0kW	490
	012-0110	Switching box with power contactors	ASKOBOX for Fronius 36kW solution HxWxD: 280x250x145mm	

2.2. ASKOMA components for storage tanks with connection flange Ø 280mm

	012-5612	AHFOR-BI-OP-18.0, Ø 280mm	ASKOHEAT-FOF Ø 280mm, 400V, continuously variable 18.0kW	490
	012-1848	AHFOR-BI-A-18.0 Ø 280mm	ASKOHEAT-FO Ø 280mm, 400V, continuously variable 18.0kW	490
	012-0110	Switching box with power contactors	ASKOBOX for Fronius 36kW solution HxWxD: 280x250x145mm	