

ASKOWALL FOR HIGH STORAGE TEMPERATURES, LEGIONELLA PROTECTION AND FOR SURPLUS PV POWER STORAGE

- ASKOWALL+ 2.0 for ASKOHEAT+ 2.0 and ASKOFAMILY+
- ASKOWALL+ for ASKOHEAT+ and ASKOFAMILY+
- ASKOWALL-OP for Fronius Ohmpilot continuously adjustable
- **ASKO**WALL for standard heating elements

THE WALL CONSOLE READY-FOR-CONNECTION

The **ASKO**WALL is designed for easy installation on any conventional heating buffer tank to provide the user with energy-efficient, smooth, high-temperature stratification.

A heat pump has a very good efficiency (COP) at low flow temperatures. It should be noted that the COP for air-water heat pumps is usually specified at a flow temperature of 35°C and an outside temperature of 0°C. With air-water heat pumps, it is now assumed that efficient charging is guaranteed up to 45°C.

Around 60°C is needed to achieve the ideal temperature for drinking water hygiene and volumous pouring capacities. For the protection against legionella it needs to be 65°C.

This is where our **ASKO**WALL comes into play, with a large selection of ASKOMA heating elements.

- ASKOWALL+ 2.0 for ASKOHEAT+ 2.0 and ASKOFAMILY+
- ASKOWALL+ for ASKOHEAT+ and ASKOFAMILY+
- ASKOWALL-OP for ASKOHEAT-OP stepless for Fronius Ohmpilot, my-PV AC-THOR
- ASKOWALL for ASKOHEAT-s and ASKOHEAT-E as emergency heating

ATTENTION: We recommend placing at least one PT1000 sensor in the storage tank on site to ensure proper control.

For this purpose, we offer the 4-sensor set 012-012x, a ready-to-plug-in solution that allows you to prioritise the functions in the **ASKO**HEAT+/+ 2.0 (legionella protection, night-time power usage, minimum temperature, Power to Heat....) even better according to sensor placement. This saves installation time and provides even greater efficiency.

With the **ASKO**WALL, the service life of the heat pump can be extended and with the excess PV power, you can heat the entire storage tank. If the desired high temperature (selection range between 50-75°C) is present in the **ASKO**WALL, the water is stratified and the storage tank is completely charged from top to bottom.



Approvals

- EN 60335-2-21
 Condensate drain in housing prevents coorrosion
 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

TECHNICAL ADVANTAGES AND DETAILS

Technical advantages

- 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



- Mud flap
- 2 Filling valve
- 8 Vent valve
- **4** Connection for possible expansion tank
- Pressure relief valve
- 6 Return flow shutoff (and OXYban hose connection)
- Flow shutoff (and OXYban hose connection)
- 8 Thermostatic valve 50-75°C
- 9 Screw-in heater **ASKO**HEAT according to choice of power and regulation
- 10 Drain cock
- ① Circulation pump
- 10 Insulation housing
- Instantaneous water heater ASKOFLOW up to 9kW
- Junction box with pump relay (in ASKOWALL+ 2.0 this is built into the RC base)
- Console rear wall

Initial temperature in storage	40	Final storage temperature [°C]		50	60	70	80	85
Storage capacity [1]	1000		Rise of storage temperature [K]	10	20	30	40	45
Installation methode of the heating element	Volume							
ASKOWALL uses the whole storage capacity	100%		PV power storage in [kWh]	11.6	23.2	34.8	46.4	52.2
Screw-in heater is in the middle area	50%		PV power storage in [kWh]	5.8	11.6	17.4	23.2	26.1
Flange heater is in the lower area	75%		PV power storage in [kWh]	8.7	17.4	26.1	34.8	39.2

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Page

4

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	Order no.	Appellation	Description	Dimension in mm	Fitting heating elements			
	1.1. ASKOWALL+ 2.0							
	012-2110	ASKOWALL+ 2.0	ASKOWALL+ 2.0 for heating water with connection for ASKOHEAT+ 2.0 according to choice of output. We recommend placing at least one PT1000 sensor in the storage tank on site or using our ready-to-plug-in solution, the sensor set 012-0129. The remote control base is already fitted and equipped with pump relays. If an ASKOSET+ is included in the application, it must be installed in the customer's fuse box.	1300x700				
	1.2. ASKOW							
	012-2103	ASKOWALL+	ASKOWALL+ for heating water with connection for ASKOHEAT+ depen- ding on the output. We recommend placing at least one PT1000 sensor in the storage tank on site or using our ready-to-plug-in solution, the sensor set 012-0126. The electrical connection box is prepared for the ASKOSET+, and pre-wired for the circulation pump and the heating element.	1300x700				
	1.3. ASKOW	/ALL- <mark>OP</mark>						
	012-5500	ASKOWALL-OP	ASKOWALL-OP for heating water with connection for ASKOHEAT-OP depending on the output. The electrical connection box is pre-wired for the on-site Fronius Ohmpilot and for the circulation pump and contains the time-delay relay.	1300x700				
1.4. ASKOWALL								
	012-2102	ASKO WALL	ASKOWALL for heating water with connection for ASKOHEAT depending on the output. The electrical connection box is pre-wired for the circulation pump and contains the time-delay relay.	1300x700				
4.1. Options								
	012-0130	ASKO HOSE	Sensor set with 3x PT1000 sensors and junction box for $\ensuremath{\text{ASKOHEAT+ 2.0}}$ if used in tank	1600mm				
	012-0126	ASKO SENSOR	Sensor set with 4x PT1000 sensors for $\ensuremath{ASKO}\xspace{HEAT+}$ to be attached on the $\ensuremath{ASKO}\xspace{WALL+}$					
30	012-0129	ASKOSENSOR	Sensor set with 4x PT1000 sensors for ASKO HEAT+ 2.0 to be attached on the ASKO WALL+ 2.0					



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