

ASKOWALL

Wall console ready for connection

without screw-in heater

CE

To maximise PV own power consumption

- for 1 level, 3 levels and continuously variable up to 9.0 kW
- 7 levels up to 5.2 kW
- 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.

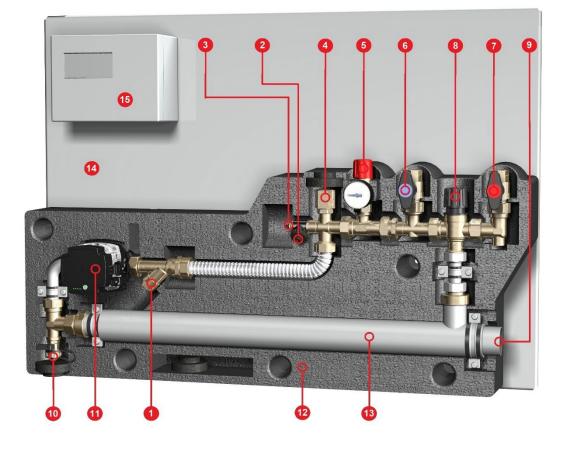
Increasing the storage temperature can contribute to legionella protection in a hygienic storage. A temperature between 50 and 75° C can be set manually on the thermostatic valve.

Thanks to the circulation pump in the **ASKO**WALL, 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 **ASKO**WALL falls below the set value due to cold water flowing in, the valve closes.

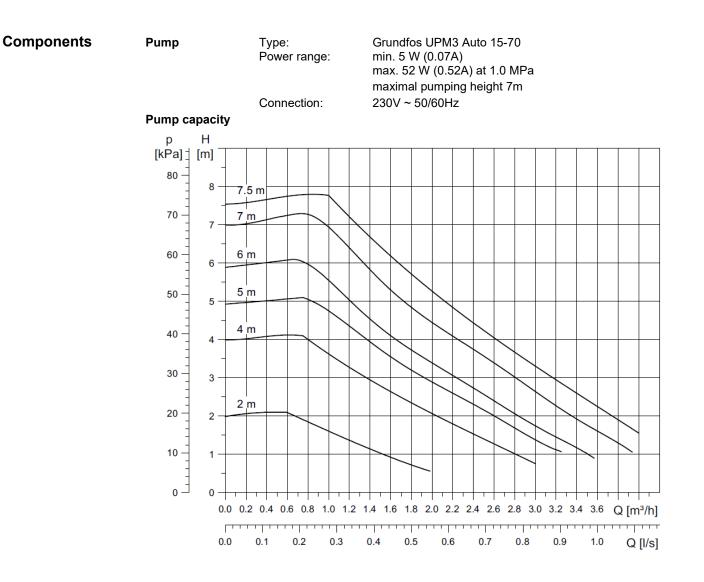
1-stage, 3-stage, 7-stage or continuously variable **ASKO***HEAT* screw-in heater with $1\frac{1}{2}$ " thread can be used up to a maximum immersion length of 750mm.

Type summary	Туре	Order no.	Additional text	Immersion length [EL]
	ASKOWALL	012-2102	1.0 kW up to 9.0 kW	up to max. 750mm
	Connection hoses for ASKO WALL	012-0130	1600mm length	
Technical data	The following indications are valid for the above listed standard types. Due to the function, other			

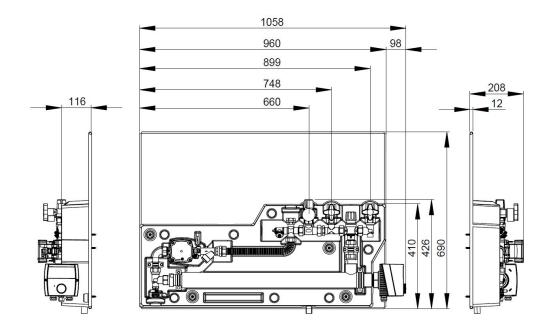
types might show different data.



- 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 1¹/₂" threaded connection for screw-in heater
- 10 Drain cock
- 11 Circulation pump
- 12 Insulation housing
- 13 Instantaneous water heater ASKOFLOW
- 14 Console rear wall
- 15 Electrical junction box prepared for circulation pump



Pressure gauge:	Pressure range: Gauge:	0-4 bar Ø 50mm
Pressure relief valve:	Type: Reaction pressure: Max. heat output: Temperature: Medium: Material: Standard:	DUCO safety valve DN25 3 bar (permanently set) 50kW -10°C up to +120°C Water and water glycol mixture up to 50% Brass CW614N NEN-EN-ISO 4126-1
Thermostatic valve:	Type: Adjustment range: Flow factor: Material:	tubra®-therm 507.19.00 +50°C up to +75°C 1.9 m³/h Brass CuZn39Pb3 (2.0401)
Ball valve:	Connection: Material:	3/4" internal thread Brass
Filling valve:	Connection: Material:	3/4" external thread Brass
Connection - expansion vessel:	Connection: Material:	3/4" external thread Brass
Vent cock:	Connection:	3/4" external thread



The ASKOWALL is designed for easy installation on any conventional buffer tank to provide the

Description user with energy-efficient, smooth, high-temperature stratification. To this end ASKOWALL can be connected directly to the relevant buffer tank. On the ASKOWALL 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 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 can heat the heating water up to 85°C and then the smart thermostat switches off. ASKOHEAT heating elements are available in a variety of power output levels and in the following Application variants: 7 levels and continuously variable. possibilities

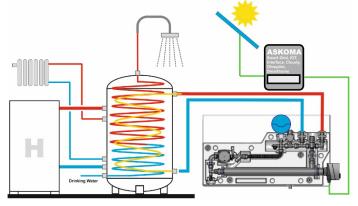
The ASKOHEAT can be controlled via 7 levels via LAN, Modbus-TCP/RTU or 0 -10V. These are available in 230V~ and 400V 3~. Which of these screw-in heaters should be used depends on the surplus power output of your PV system and your energy management system. It sounds complicated, but it isn't - we are happy to provide you with information about which **ASKO***HEAT* heating element you require for your energy management system.

The ASKOWALL can also be used as direct heating.

Hygienic tank with integrated solar heat exchanger

The **ASKO***WALL* is designed for easy installation on a **hygienic tank with integrated solar heat exchanger**.

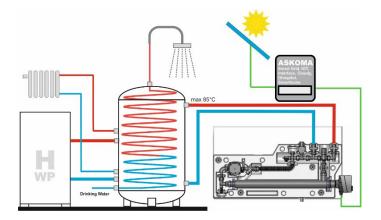
To this end, the **ASKO***WALL* can be connected directly to the solar heat exchanger loop. This requires the customer to connect a solar expansion tank to connection no. 4 (see page 2) (size must be dimensioned and supplied by the technician on the basis of internal volume).



Hygienic tank without integrated solar heat exchanger

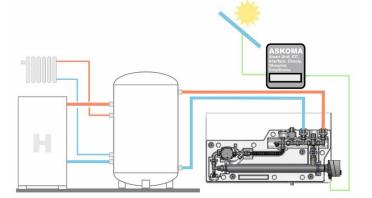
The **ASKO***WALL* is designed for easy, direct installation on a **hygienic tank** to provide the user with energy-efficient, smooth, high-temperature stratification.

ASKOHEAT heating elements are available in many performance sizes.



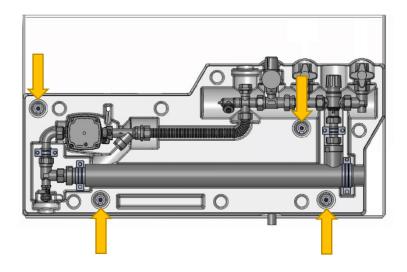
Buffer tank

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

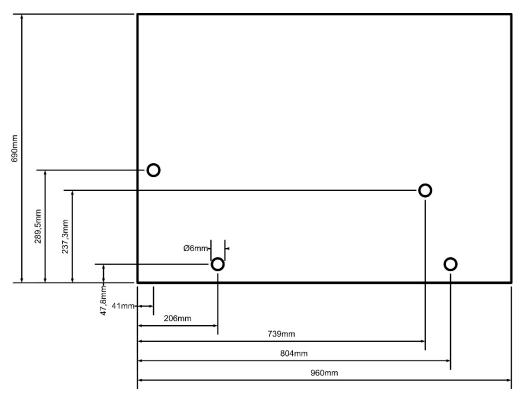


Installation of the wall console

The **ASKO**WALL can be attached to the wall using the four screws and dowels supplied.



Position of the boring holes



Fitting notes The **ASKO***WALL* must be installed horizontally. Access must be guaranteed for inspection and maintenance. Uncovering the installation is not permitted. The **ASKO***WALL* must be installed in a dry and frost-free surrounding.

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

