

ASKOHEAT-OP Type OP

## 012-5501

# Screw-in heater insulated monting

### AHIR-BI-OP-...

With combination of temperature control and safety temperature limiter Compatible with the consumption regulator Fronius Ohmpilot



#### PV own power consumption

Heating elements for stepless control with:

- Fronius Ohmpilot up to 9 kW
- AC•THOR (my PV)
  - o AC•THOR up to max.3 kW
  - o AC•THOR 9s up to max. 9 kW
- SolarEdge Home hot water controller up to max. 3 kW
- Power regulation from 0 to 100%



#### Application Features

Auxiliary heating system of drinking water and heating water in photovoltaic systems.

- SH The heating element is made of three U-shaped heating tubes, which are mounted isolated into a 1½" conical brass nipple by food-safe plastic sleeves. Thanks to the insulated mounting of the heating tubes, the devices are also suitable for enamelled boilers. By using the integrated DIP switch, the potential equalisation resistance for the usage in stainless steel tanks is bridgeable. The unheated zone is 150 mm for all types.
- TC Electromechanical temperature control acc. EN 14597, not fail safe.
- STL Electromechanical safety temperature limiter acc. EN 14597, fail safe. If nominal value is reached, the limiter switches and stays locked in this position. Reset is performed manually and is only possible after the sensing element is cooled off by approx. 10 K.
  - Time factor of sensing element acc. EN 14597
  - Operation type TC Type 2 B acc. EN 14597
  - Operation type STL Type 2 BK acc. EN 14597

#### Type summary

Drinking- and heating water Incoloy 825, 2.4858

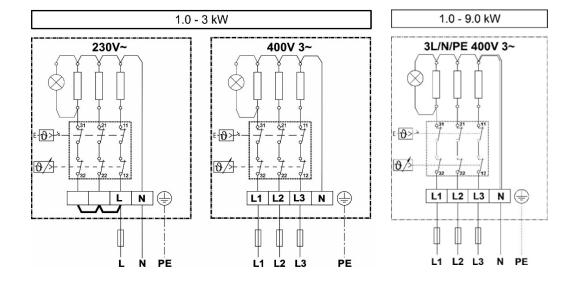
Order no.	Power	Immersion length [EL]
012-5501	1.00 kW; 230V~ / 400V 3~	300mm
012-5502	2.00 kW; 230V~ / 400V 3~	300mm
012-5503	2.50 kW; 230V~ / 400V 3~	350mm
012-5504	3.00 kW; 230V~ / 400V 3~	400mm
012-5505	3.80 kW; 400V 3~	450mm
012-5506	4.50 kW; 400V 3~	500mm
012-5507	6.00 kW; 400V 3~	600mm
012-5508*	7.50 kW; 400V 3~	700mm
012-5509*	9.00 kW; 400V 3~	750mm
	012-5501 012-5502 012-5503 012-5504 012-5505 012-5506 012-5507 012-5508*	012-5501 1.00 kW; 230V~ / 400V 3~   012-5502 2.00 kW; 230V~ / 400V 3~   012-5503 2.50 kW; 230V~ / 400V 3~   012-5504 3.00 kW; 230V~ / 400V 3~   012-5505 3.80 kW; 400V 3~   012-5506 4.50 kW; 400V 3~   012-5507 6.00 kW; 400V 3~   012-5508* 7.50 kW; 400V 3~

Technical data	The following indications are valid for the above listed standard types. Due to the function, other types might show different data.		
Application range	Adjustable cut-off temperature Safety cut-off temperature $\vartheta_{off}$ Ambient temperature on switching head Thermal switching differential Ambient temperature for storage and transport	0\$2885 °C 110 °C (0-9 K) max. 50 °C (T50) 11.0 K ± 5.5 K -30+90 °C	
Calibration	Calibration tolerance Time factor in water	± 7 K <45 s	
Specification	Fitting thread Brass nipple Heating tube Surface load Electrical connection Operating pressure Housing cover Housing base Protection mode	R 1½ " conical CuZn40Pb2 Incoloy 825, 2.4858 8-9 W/cm2 Screw clip max. 10 bar Polycarbonate, RAL 7035 (light gray) Polycarbonate, RAL 7016 (anthracite grey) IP41 acc. EN 60529	

#### Fitting notes

The device must be installed horizontally. The heating tubes must be covered entirely by the liquid. The circulation of the liquid shall not be inhibited.

#### Wiring diagram



EL 93 **Dimension drawing** 24 150 012-5501 - 012-5507 Not heated zone 21 R 1 1/2" conical SW 60 Ø109 • O RESET 103 M16/M20 **Dimension drawing** EL 93 012-5508 - 012-5509 150 Not heated zone R 1 1/2" conical SW 50 135 126 ۲ ۲ • RESET M20