

# **ASKO**HEAT-FO 2.0 – 15.0 kW

012-1641

Flange heater Ø 180 mm Incoloy 825; 2.4858

AHFOR-BI-A-...

with combination of temperature control, safety temperature limiter and operating light



**C E** Application

**Features** 

Auxiliary heating system of industrial water and heating water.

FH The heating element is made of three U-shaped heating tubes, each press-fitted into a press-fitting nipple. These are bolted with the immersion tube onto a steel flange.

A food-safe plastic disk serves as insulation.

The unheated zone is 70 mm for all types.

Type A 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 E 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
 Operation type STL
 Type 2 B
 Type 2 BDEFHKL acc. EN 14597

### Type summary

Type A

Type E

Туре	Order-no.	Power	Immersion length [EL]
AHFOR-BI-A-2.0	012-1641	2.0kW; 230V~ / 400V 3~	260mm
AHFOR-BI-A-2.5	012-1642	2.5kW; 230V~ / 400V 3~	310mm
AHFOR-BI-A-4.0	012-1643	4.0 / 2.6 / 2.0kW; 400V 3~	260mm
AHFOR-BI-A-5.0	012-1644	5.0 / 2.5kW; 400V 3~	300mm
AHFOR-BI-A-6.0	012-1645	6.0 / 3.0kW; 400V 3~	360mm
AHFOR-BI-A-7.5	012-1646	7.5kW; 400V 3~	420mm
AHFOR-BI-A-8.0	012-1647	8.0kW; 400V 3~	450mm
AHFOR-BI-A-9.0	012-1648	9.0kW; 400V 3~	490mm
AHFOR-BI-A-10.0	012-1649	10.0kW; 400V 3~	540mm
AHFOR-BI-E-12.0	012-1650	12.0kW; 400V 3~	640mm
AHFOR-BI-E-15.0	012-1651	15.0kW; 400V 3~	780mm
AHFOR-BI-E-15.0	012-1652	15.0kW; 400V 3~	650mm

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#### **Technical data**

The following indications are valid for the above listed standard types. Due to the function, other

0...\*...28...85 °C / 15...95 °C

11.0 K ± 5.5 K / 4.0 K ± 2.0 K

110 °C (0-9 K)

-30...+90 °C

 $\pm$  7 K /  $\pm$  6 K

<45 s

max. 50 °C (T50)

types might show different data.

Application range

Adjustable cut-off temperature Type A / Type E

Safety cut-off temperature 9off

Ambient temperature on switching head

Thermal switching differential Type A / Type E Ambient temperature for storage and transport

Calibration tolerance Type A / Type E

Time factor in water

Specification

Calibration

Flange material St 37 Outside flange diameter Ø 180 mm

Pitch circle diameter Ø 150 mm / 8 X M12

Flange seal EPDM, KTW and FDA certification

Plastic disk PP-H, FDA certification Incoloy 825; 2.4858, Ø 8.2 mm

Heating tube industrial water Immersion tube Cronifer 1.4529

7 W/cm<sup>2</sup> Surface load Electrical connection screw-type terminal

Operating pressure 10 bar max.

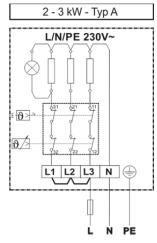
Polycarbonate, RAL 7035 (light gray) Housing cover

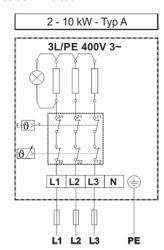
IP21 acc. EN 60529 Protection mode

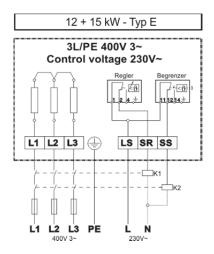
## Fitting notes

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

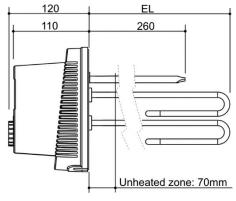
# Wiring diagram

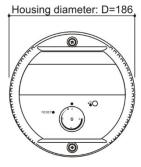


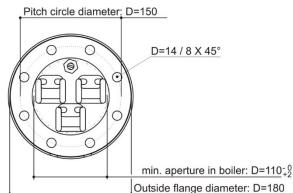




### **Dimension drawing**







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