



### HAAKE Phoenix II Series

Innovative materials combined with sophisticated technology and advanced design form the basis of the HAAKE Phoenix II circulators.

The simple operation of the units is ensured by the large graphic display that incorporates plain text dialog and a simple user interface. The Phoenix II circulators come equipped with a powerful pressure and suction pump, feature a heating capacity of up to 3000 W and a maximum bath

temperature of +280°C and are thus ideally suited to meet the extreme technical specifications that many applications require.

HAAKE Phoenix II circulators are available in two versions:

**Basic version HAAKE Phoenix II P1** with a 2 kW (230V) heating capacity, up to 250°C.

**Full version HAAKE Phoenix II P2** with a 3 kW (230V) heating capacity, up to 280°C and with additional functional features.

### Highlights

- Large monitor with plain text display and Fault Identification System (FIS)
- FuzzyStar control with neural adaptation
- Very powerful combined pressure and suction pump with automatic speed recognition and TRS
- Display resolution of 0.01°C
- Flexible interface concept
- Direct value setting at the display via numeric input
- Up to 10 ramp programs with a maximum of 30 segments (for P2)
- 4 savable fixed temperatures
- Real Temperature Adjustment (RTA) for integration in QS systems
- External Temperature Control (ETC) with connection for an external Pt100 sensor as standard
- User can choose from 6 different dialog languages (German, English, French, Italian, Spanish, Japanese)
- Permanent display of date and time
- 3-point calibration function (for P2)
- External analog box (optional)
- Profibus interface (optional)

A more detailed explanation of the individual features and the ExtraPlus-Rating system can be found on page 35.



The units are fitted onto bath vessels with a maximum volume of 100 l.

The bridge can be adjusted to fit widths between 320 and 800 mm and is thus suitable for use with a wide range of different bath sizes.

The powerful combined pressure and suction pump enables a good heat exchange in the bath and the simultaneous temperature control of an external unit.

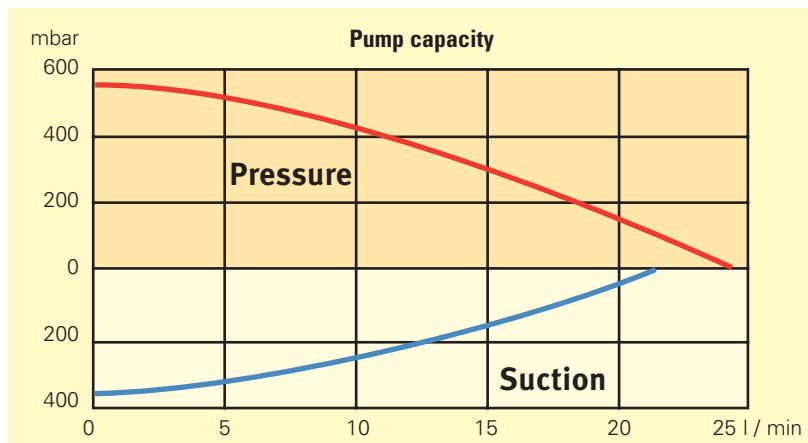
**Comes with**

Connections for tubing with 8 and 12 mm i. Ø.

Optional accessories	Order-No.
External analog box	333-0685
230V Power supply for analog box	333-0705
<b>Software</b>	
ThermStar95plus	091-2950 (s. P. 32)

<b>Tubes and Bath liquids</b>	(s. P. 30-31)
<b>Immersion cooler</b>	(s. P. 26-27)
<b>Pt100-sensors</b>	(s. P. 33)

Profibus-interface on request.



Technical specifications acc. to DIN 12876		P1-H70	P2-H70
Working temperature range	°C	30...250	30...280
with tap water cooling	°C	20...250	20...280
with other cooling	°C	-75...250	-90...280
Temperature accuracy	+/- K	0.01	0.01
Heater capacity 230V / 115V	kW	2.0 / 1.2	3.0 / 1.2
Pump: Pressure max.	mbar	560	560
Flow rate max.	l/min	24	24
Suction max.	mbar	380	380
Flow rate max.	l/min	22	22
Width of the bath bridge from...to	mm	320...800	320...800
Immersion depth from...to	mm	70...150	70...150
Overall dimensions WxLxH	cm	32x17x36	32x17x36
Total wattage 230V / 115V	VA	2100 / 1250	3100 / 1250
Net weight	kg	6.1	6.1
Order-No. for 230V / 50-60Hz		440-0511	441-0511
Order-No. for 115V / 60Hz		440-0512	441-0512
<b>ExtraPlus-Rating (see page 35)</b>		<b>+++++</b>	<b>+++++</b>