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HBR 4 control

/// Data Sheet

The heating bath is noted for:
- Cylindrical bath shape
- Heating elements integrated into the bath base
- Heat transfer media can be low-viscous oil (50 mPas) or water (H2O)
- Useful volume: approx. 4 l
- Heat output: 1000 W
- Two carry handles
- Infinitely variable safety temperature limiter according to DIN 12876-1

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- Double-jacketed mantle protection against burns -
- Digital display for target, actual and safety temperatures as well as speed
- Integrated magnetic stirrer drive to circulate the tempering fluid, allowing for better heat distribution in the bath
- RS 232 interface
- Heating bath can be operated with an external temperature sensor for temperature control directly in the medium

Scope of delivery
•HBR 4 control
•PT 1000.60 Temperature sensor, stainless steel

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Technical Data

Heat output [W]	1000
Heating temperature range [°C]	room temp. - 200
Heat control	stepless
Set temperature resolution [K]	1
Controller oscillation (3 l water / 90 °C) [K]	±1
Controller oscillation (3l Silicone oil / 50mPas / 150°C) [K]	±2
Speed display	LCD
Speed adjustment	stepless
Speed range [rpm]	150 - 800
Motor rating input [W]	5
Motor rating output [W]	1
Filling volume max. [l]	4
Filling point min. [mm]	20
Material in contact with medium	stainless steel 1.4301
Connection for ext. temperature sensor	PT1000
Adjustable safety circuit [°C]	50 - 210
Class designation acc. DIN 12876	II
Outer diameter [mm]	250
Inner diameter [mm]	200
Outer height [mm]	250
Inner height [mm]	160
Dimensions (W x H x D) [mm]	340 x 250 x 340
Weight [kg]	5.6
Permissible ambient temperature max. [°C]	40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 20
RS 232 interface	yes
Voltage [V]	230
Frequency [Hz]	50/60
Power input [W]	1020