

## Data Sheet

Heating/Tempering / Heating Baths



### HBR 4 digital Heating bath

The digital heating bath is characterized by the following features:

- Cylindrical bath shape
- High-grade recyclable materials
- The heating elements are situated underneath the bath vessel
- Either low viscosity oil or water can be used as the heat transfer fluid
- Useful volume of 4 liters
- Heat output 1,000 W
- Adjustable safety temperature limiter acc. to DIN 12876
- The safety elements are checked when the unit is switched on
- Double jacket and carrying handles provide protection against burns
- Digital display presents rated, actual and safety temperature as well as speed
- Fuzzy logic control
- Integrated magnetic stirring drive to circulate the tempering fluid, which contributes to improved heat distribution

Accessories: H 11 Mains cable Euro plug, H 11 Mains cable CH plug, IKAFLON® 30 Magnetic stirring bar, H 11 Mains cable USA plug, H 11 Mains cable UK plug, H 240 Ring set, H 159 Intermediate bottom

Technical Data	
Heat output [W]	1000
Heating temperature range [°C]	room temp. - 200
Heat control	stepless
Controller oscillation (3 l water / 90 °C) [±K]	1
Controller oscillation (3l Silicone oil / 50mPas / 150°C) [±K]	2
Speed display	LCD
Speed control	stepless
Speed range [rpm]	150 - 800
Motor rating input [W]	5
Motor rating output [W]	1
Bath volume max. [l]	4
Filling point min. [mm]	20
Material in contact with medium	stainless steel 1.4301
Adjustable safety circuit min. [°C]	50
Adjustable safety circuit max. [°C]	210
Safety class DIN 12877	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]	4.4
Permissible ambient temperature max. [°C]	40
Permissible relative moisture [%]	80
Protection class according to DIN EN 60529	IP 21
Voltage [V]	230 / 115 / 100
Frequency [Hz]	50/60
Power input [W]	1020
<b>Ident. No.</b>	<b>2602300</b>

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### HB 10 digital

The digital display featured on IKA®'s heating bath HB10 offers each user a high ease of operation. The temperature control can be adjusted with a micro controller. With the help of an infrared interface, the heating bath HB 10 digital can communicate with the rotary evaporator RV 10 digital and control. Additionally, it offers three selectable operating modes. These allow for:

A: clear regulation of all parameters

B: a fixable safety temperature setting avoids unintentional readjustments

C: fixable set- and safety temperatures

Therefore, it is the first choice when it comes to „heating and tempering“ in the lab and offers a heating power of 1350 watts. IKA®'s heating bath HB 10 digital is suitable as a water- or oil heating bath for the tempering of liquids. It is particularly suited for use with IKA®'s rotary evaporator RV 10. Here, the optimized bath shape is adapted to the evaporator flask's geometry. This allows for quicker heating periods than with conventional products. Laterally arranged carrying handles allow for the heating bath's safe handling and offer protection from burns. In case of errors, an adjustable safety circuit switches the heating bath off permanently. If there is no more heating medium left in the bath, the circuit prevents further heating. The heating bath HB 10 digital is designed with high-quality, recyclable materials and therefore contributes to resource-preserving production. Accessories: A shield, HB 10.1, and a protective cover, HB 10.2, are available.

The heating bath HB 10 digital's key characteristics are:

- Water- and oil heating bath for tempering of liquids

#### Technical Data

Heat output [W]	1350
Heating temperature range [°C]	room temp. - 180
Heat control	LCD
Heat control accuracy [±K]	1
Controller oscillation (3 l water / 90 °C) [±K]	1
Controller oscillation (3l Silicone oil / 50mPas / 150°C) [±K]	2
Bath volume max. [l]	3
Filling point min. [mm]	50
Material in contact with medium	stainless steel 1.4301
Fixed safety circuit [°C]	180
Adjustable safety circuit min. [°C]	50
Adjustable safety circuit max. [°C]	190
Safety class DIN 12877	II
Outer height [mm]	185
Inner height [mm]	134
Dimensions (W x H x D) [mm]	295 x 190 x 265
Weight [kg]	3
Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80
Protection class according to DIN EN 60529	IP 21
Voltage [V]	220 - 240 / 200 - 240 / 100 - 120 / 100
Frequency [Hz]	50/60
Power input [W]	1350
<b>Ident. No.</b>	<b>3642000</b>

- Heating power 1350 watts
- Particularly suited for operation with the rotary evaporator RV 10
- Optimized bath shape for quick heating
- Integrated carrying handles for safe handling
- Adjustable safety circuit, for a safe switch-off in the case of errors
- Protection against dry running
- High-quality recyclable materials
- Digital display makes for easy operation
- Temperature controlled by micro controller
- IR interface for communication with the rotary evaporator RV 10 digital/control
- Choice of operating modes A; B; C;