



designed for scientists



IC basic

/// Data Sheet

The IC basic immersion circulator is used for tempering liquids in open or covered water baths up to 250 °C. The circulator has an adjustable bridge that can be replaced by a fixed bridge.

With the integrated powerful pressure/suction pump, the IC basic can be used for internal and external applications. A cooling coil can be connected to the circulator to temper near-ambient temperatures. All IKA circulating baths conform to the highest safety classification III (FL) for use with flammable liquids according to DIN 12876. The IC basic immersion circulators allow for quick heat-up times and stable temperature conditions. With integrated connections (M16x1) the device is suitable for external applications.



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- Temperature range: RT - 250 °C
- Temperature stability is ± 0.02 K
- Stainless steel bath bridge can be combined with water baths of different volumes
- Adjustable safety circuit
- Powerful pressure/suction pump
- Large easy to read LED display for pump speed and temperature
- Push and turn buttons for intuitive menu navigation
- Connection for external PT 100 temperature probe
- Visual and acoustic safety warnings
- USB / RS 232 interface for PC control and documentation using labworldsoft®, as well as for online firmware updates





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Technical Data

Appliance type	Immersion thermostat
Class designation acc. DIN 12876	III
Identification according to DIN 12876	FL
Heat output [W]	2500
Working temperature [°C]	room temp. +10K @1000rpm - 250
Operating temperature min. (with external cooling) [°C]	-20
Temperature display	yes
Temperature control	PT 100
Working temperature sensor	PT 100
Safety temperature sensor	PT1000
Working temperature display	LED
Safety temperature display	LED
Temperature stability DIN 12876 [±K]	0.02
Connection for ext. temperature sensor	PT 100
Display resolution [K]	0.1
Display for operation with ext. sensor	yes
Set temperature resolution [±K]	0.1
Warning function optical	yes
Warning function acoustic	yes
Warning function excess temperature	yes
Adjustable safety circuit [°C]	0 - 260
Sub-level protection	yes
Over-level protection	yes
Pump type	Pressure- / suction pump
Pump capacity adjustable	yes
Pump pressure max. (0 liters discharge flow) [bar]	0.61
Pressure pump (suction side) (0 liter flow) [bar]	0.45
Flow rate max. (0 bar back pressure) [l/min]	31
Pump connection	M16x1
Bath depth min. [mm]	150
Calibration option	yes
Appliance fastener	Bridge
Range of universal clamp [mm]	280 - 375
Technical data complies with the standard	DIN 12876
Permissible ON time [%]	100
Dimensions (W x H x D) [mm]	285 x 313 x 291
Weight [kg]	10
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 21
RS 232 interface	yes
USB interface	yes
Voltage [V]	230 / 100 - 115
Frequency [Hz]	50/60
Power input [W]	2650