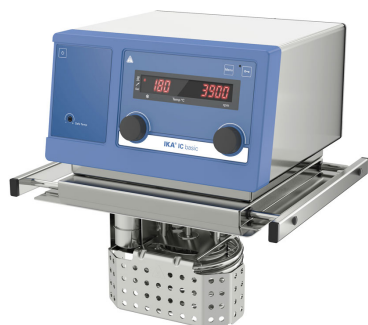


## Data Sheet

Heating/Tempering / Temperature Control



### IC basic

The IC basic immersion circulator is used for tempering liquids in open or covered water baths up to 200 °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 are UL certified and 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. The temperature stability is  $\pm 0.02$  K, the temperature accuracy is  $\pm 0.2$  K.

- Temperature range: RT - 200 °C
- 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
- UL certified
- Visual and acoustic safety warnings
- USB / RS 232 interface for PC control and documentation using labworldsoft®, as well as for online firmware updates
- Integrated connections (M16x1) for external applications

Accessories: IB 8 eco, IB 18 eco, IB 9 pro, IB 12 pro, IB 20 pro, CM.IC Medium cover, CL.IC Large cover, BS.IC Small bridge, CC1 Cooling coil, HF.Si.20.250.50A, HF.Si.20.200.50, UF.Si.N30.150.10LV, floating globes, PP, LT 5.20 Hose kit (2 pcs), LT 5.21 Hose kit insulated (2 pcs), H.PVC.8 Tube, H.PVC.12 Tube, H.SI.8 Tube, H.SI.12 Tube, H.FKM.8 Tube, H.FKM.12 Tube, H.PUR.8.R Tube, H.PUR.12 Tube, ISO.8, ISO.12, Tube rack, 13mm, S, stainless, Tube rack, 17mm, S, stainless, Tube rack, 22mm, S, stainless, Tube rack, 13mm, ML, stainless, Tube rack, 17mm, ML, stainless, Tube rack, 22mm, ML, stainless, Floating tube rack 1, Floating tube rack 2, Floating tube rack 3, Ball valve M16x1, mechanic fluid level controller, elbow tube 90°, Olive for DN 6 hoses (2 pcs.), Olive for DN 8 hoses (2 pcs.), Olive for DN 12 hoses (2 pcs.), Olive for DN 10 hoses (2 pcs.), Adapter NPT 1/4 (2 pcs.), Adapter NPT 1/2 (2 pcs.), Adapter NPT 3/4 (2 pcs.), lock nut (2 pcs.), stopper (2 pcs.), PT 100.30 Temperature sensor

#### Technical Data

Appliance type	immersion thermostat
Class designation acc. DIN 12876	III
Identification according to DIN 12876	FL
Heat output [W]	2500
Operating temperature min. [°C]	-20
Operating temperature max. (with external heating) [°C]	200
Working temperature min. [°C]	room temp. +10K @1000rpm
Working temperature max. [°C]	200
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 [ $\pm$ K]	0.02
Connection for ext. temperature sensor	PT 100
Display resolution [ $\pm$ °C]	0.1
Display for operation with ext. sensor	yes
Set temperature resolution [ $\pm$ K]	0.1
Warning function optical	yes
Warning function acoustic	yes
Warning function excess temperature	yes
Warning function insufficient temperature	no
Adjustable safety circuit min. [°C]	0
Adjustable safety circuit max. [°C]	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]	0.45
Pressure pump (suction side) (0 liter flow) [bar]	0.35
Flow rate max. (0 bar back pressure) [l/min]	26
Pump connection	M16x1
Bath depth min. [mm]	150
Calibration option	yes
Appliance fastener	Bridge
Range of universal clamp min. [mm]	260
Range of universal clamp max. [mm]	360
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]	8.5
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
<b>Ident. No.</b>	<b>0003861000</b>