

designed for scientists



ICC control eco 8

/// Data Sheet

IKA facilitates the configuration of your temperature control system by offering "ready for connection" packages with all necessary accessories.

Package includes

- ICC control Compact Immersion Circulator
- IB 8 eco Plastic bath (size S)
- BS.ICC Small bridge









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total: 320 x 335 x 349 mm bath opening: 188 x 105 mm *

max. bath opening: 227 x 118 mm ** Immersion depth. 85 mm-125 mm

*Dimensions to set plate at the bottom of bath.

** Maximum bath opening dimensions at the upper edge of the bath

Max. temperature in the plastic bath ("eco" series): 100°C (water only)

Technical data relates to the temperature control instrument included in the package







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Technical Data

Appliance type		
Identification according to DIN 12876	Appliance type	Compact immersion circulators
Heat output [W]	Class designation acc. DIN 12876	
Working temperature [**C] room temp. +10K @1000rpm - 150 Operating temperature min. (with external cooling) [**C] -20 Temperature display yes Temperature control PT 100 Working temperature sensor PT 100 Morking temperature display TFT Safety temperature display TFT Temperature stability DIN 12876 [K] ±0.01 Connection for ext. temperature sensor PT 100 Display resolution [K] ±0.01 Usplay 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 Warning function excess temperature yes Very evel protection yes Pump type Pressure-/ suction pump Pump type Pressure-/ suction pump Pump pressure max. (0 liters discharge flow) [bar] 0.3 Persure pump (suction side) (0 liter flow) [bar] 0.2 Flow rate max. (0 bar back pressure) [l/min] 18 Bath de	Identification according to DIN 12876	FL
Operating temperature min. (with external cooling) [°C] -20 Temperature display yes Temperature control PT 100 Working temperature sensor PT 100 Safety temperature sensor PT 1000 Working temperature display TFT Safety temperature display TFT Temperature stability DIN 12876 [K] ±0.01 Connection for ext, temperature sensor PT 100 Display resolution [K] ±0.01 Display for operation with ext. sensor PP T 100 Set temperature resolution [K] ±0.1 Warning function optical yes Warning function excess temperature yes Warning function excess temperature yes Adjustable safety circuit [°C] 0 - 160 Sub-level protection yes Over-level protection yes Pump type Pressure-/ suction pump Pump pressure max. (0 liters discharge flow) [bar] 0.3 Pressure pump (suction side) (0 liter flow) [bar] 0.2 Flow rate max. (0 bar back pressure) [l/min] 18 Bath depth min. [mm] <td>Heat output [W]</td> <td>2000</td>	Heat output [W]	2000
Temperature display	Working temperature [°C]	room temp. +10K @1000rpm - 150
Temperature control PT 100 Working temperature sensor PT 100 Safety temperature sensor PT 100 PT 100 Safety temperature display PT 100 TFT PT 100 PT 1	Operating temperature min. (with external cooling) [°C]	-20
Working temperature sensor PT 100 Safety temperature display TFT Safety temperature display TFT Safety temperature stability DIN 12876 [K] ±0.01 Connection for ext. temperature sensor PT 100 Display resolution [K] 0.01 Display for operation with ext. sensor yes Set temperature resolution [K] ±0.1 Warning function optical yes Warning function acoustic yes Warning function access temperature yes Warning function excess temperature yes Adjustable safety circuit [*C] 0 - 160 Sub-level protection yes Over-level protection yes Pump type Pressure - / suction pump Pump type Pressure - / suction pump Pump pressure max. (0 itiers discharge flow) [bar] 0.3 Pressure pump (suction side) (0 liter flow) [bar] 0.2 Flow rate max. (0 bar back pressure) [l/min] 18 Bath depth min. [mm] 150 Calibration option yes Appliance fastener clamp </td <td>Temperature display</td> <td>yes</td>	Temperature display	yes
Safety temperature sensor PT1000	Temperature control	PT 100
Working temperature display TFT Safety temperature display TFT Temperature stability DIN 12876 [K] ±0.01 Connection for ext. temperature sensor PT 100 Display resolution [K] 0.01 Display for operation with ext. sensor yes Set temperature resolution [K] ±0.1 Warning function optical yes Warning function excess temperature yes Warning function excess temperature yes Adjustable safety circuit [°C] 0 - 160 Sub-level protection yes Over-level protection yes Pump type Pressure-/ suction pump Pump peapacity adjustable yes Pump pressure max. (0 liters discharge flow) [bar] 0.3 Pressure pump (suction side) (0 liter flow) [bar] 0.2 Flow rate max. (0 bar back pressure) [l/min] 18 Bath depth min. [mm] 150 Calibration option yes Appliance fastener clamp Technical data complies with the standard DIN 12876 Permissible on With with the permissible relative humi	Working temperature sensor	PT 100
Safety temperature display	Safety temperature sensor	PT1000
Emperature stability DIN 12876 [K]	Working temperature display	TFT
Connection for ext. temperature sensor PT 100 Display resolution [K] 0.01 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 - 160 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] 0.3 Pressure pump (suction side) (0 liter flow) [bar] 0.2 Flow rate max. (0 bar back pressure) [l/min] 18 Bath depth min. [mm] 150 Calibration option yes Appliance fastener clamp Technical data complies with the standard DIN 12876 Permissible ON time [%] 100 Dimensions (W x H x D) [mm] 145 x 340 x 200 Weight [kg] 5 - 40 Permissible relative humidity [%] 80	Safety temperature display	TFT
Display resolution [K] 0.01	Temperature stability DIN 12876 [K]	±0.01
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 - 160 Sub-level protection yes Over-level protection yes Pump type Pressure- / suction pump Pump pressure max. (0 liters discharge flow) [bar] 0.3 Pressure pump (suction side) (0 liter flow) [bar] 0.2 Flow rate max. (0 bar back pressure) [l/min] 18 Bath depth min. [mm] 150 Calibration option yes Appliance fastener clamp Technical data complies with the standard DIN 12876 Permissible ON time [%] 100 Dimensions (W x H x D) [mm] 145 x 340 x 200 Weight [kg] 10.56 Permissible ambient temperature [°C] 5 - 40 Permissible ambient temperature [°C] 5 - 40 Permissible according to DIN EN 60529 IP 21 RS 232 interface yes <td>Connection for ext. temperature sensor</td> <td>PT 100</td>	Connection for ext. temperature sensor	PT 100
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 - 160 Sub-level protection yes Over-level protection yes Pump type Pressure- / suction pump Pump pressure max. (0 liters discharge flow) [bar] 0.3 Pressure pump (suction side) (0 liter flow) [bar] 0.2 Flow rate max. (0 bar back pressure) [l/min] 18 Bath depth min. [mm] 150 Calibration option yes Appliance fastener clamp Technical data complies with the standard DIN 12876 Permissible ON time [%] 100 Dimensions (W x H x D) [mm] 145 x 340 x 200 Weight [kg] 10.56 Permissible ambient temperature [°C] 5 - 40 Permissible ambient temperature [°C] 5 - 40 Permissible according to DIN EN 60529 IP 21 RS 232 interface yes <td>Display resolution [K]</td> <td>0.01</td>	Display resolution [K]	0.01
Warning function optical yes Warning function acoustic yes Warning function excess temperature yes Adjustable safety circuit [°C] 0 - 160 Sub-level protection yes Over-level protection yes Pump type Pressure- / suction pump Pump pressure max. (0 liters discharge flow) [bar] 0.3 Pressure pump (suction side) (0 liter flow) [bar] 0.2 Flow rate max. (0 bar back pressure) [l/min] 18 Bath depth min. [mm] 150 Calibration option yes Appliance fastener clamp Technical data complies with the standard DIN 12876 Permissible ON time [%] 100 Dimensions (W x H x D) [mm] 145 x 340 x 200 Weight [kg] 10.56 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 21 RS 232 interface yes Voltage [V] 230		yes
Warning function acoustic yes Warning function excess temperature yes Adjustable safety circuit [°C] 0 - 160 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] 0.3 Pressure pump (suction side) (0 liter flow) [bar] 0.2 Flow rate max. (0 bar back pressure) [l/min] 18 Bath depth min. [mm] 150 Calibration option yes Appliance fastener clamp Technical data complies with the standard DIN 12876 Permissible ON time [%] 100 Dimensions (W x H x D) [mm] 145 x 340 x 200 Weight [kg] 10.56 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]	Set temperature resolution [K]	±0.1
Warning function excess temperature Adjustable safety circuit [°C] Sub-level protection Over-level protection Pump type Pump capacity adjustable Pump pressure max. (0 liters discharge flow) [bar] Pressure pump (suction side) (0 liter flow) [bar] Piow rate max. (0 bar back pressure) [l/min] Bath depth min. [mm] Calibration option Appliance fastener Technical data complies with the standard Permissible ON time [%] Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] RS 232 interface Voltage [V] O - 160 Ves Lamp D. 3 Dimensions (W and the standary of the sta	Warning function optical	yes
Warning function excess temperature Adjustable safety circuit [°C] Sub-level protection Over-level protection Pump type Prump capacity adjustable Pump pressure max. (0 liters discharge flow) [bar] Pressure pump (suction side) (0 liter flow) [bar] Pressure pump (suction side) (0 liter flow) [bar] Path depth min. [mm] Calibration option Appliance fastener Technical data complies with the standard Permissible ON time [%] Dimensions (W x H x D) [mm] Dimensions (W x H x D) [mm] Premissible ambient temperature [°C] Permissible relative humidity [%] RS 232 interface Voltage [V] O - 160 Ves Camp Dissure / suction pump Dissure / suction pump O . 3 The suction pump O . 3 O . 3 The suction pump O . 3 O . 3 The suction pump O . 3 O . 3 The suction pump O . 3 O . 3 The suction pump O . 3 O . 3 The suction pump O . 3 O . 3 The suction pump O . 3 O . 2 The suction pump O . 3 O . 3 The suction pump O . 3 O . 2 The suction pump O . 3 O . 2 The suction pump O . 3 O . 2 The suction pump O . 3 O . 2 The suction pump O . 3 O	Warning function acoustic	yes
Sub-level protection Over-level protection Pump type Pressure / suction pump Pump capacity adjustable Pump pressure max. (0 liters discharge flow) [bar] Pressure pump (suction side) (0 liter flow) [bar] Bath depth min. [mm] 150 Calibration option Appliance fastener Technical data complies with the standard DIN 12876 Permissible ON time [%] Dimensions (W x H x D) [mm] 145 x 340 x 200 Weight [kg] 10.56 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] Protection class according to DIN EN 60529 IP 21 RS 232 interface Voltage [V]	Warning function excess temperature	
Over-level protection Pump type Pump capacity adjustable Pump pressure max. (0 liters discharge flow) [bar] Pressure pump (suction side) (0 liter flow) [bar] Elow rate max. (0 bar back pressure) [l/min] Bath depth min. [mm] Calibration option Appliance fastener Technical data complies with the standard DIN 12876 Permissible ON time [%] Dimensions (W x H x D) [mm] Meight [kg] Premissible ambient temperature [°C] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 RS 232 interface USB interface Voltage [V]	Adjustable safety circuit [°C]	
Pump type Pump capacity adjustable Pump pressure max. (0 liters discharge flow) [bar] Pressure pump (suction side) (0 liter flow) [bar] Pressure pump (suction side) (0 liter flow) [bar] Pressure pump (suction side) (0 liter flow) [bar] Bath depth min. [mm] Bath depth min. [mm] Calibration option Appliance fastener Technical data complies with the standard Permissible ON time [%] DIN 12876 Permissible ON time [%] Dimensions (W x H x D) [mm] 145 x 340 x 200 Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 RS 232 interface USB interface Voltage [V]	Sub-level protection	yes
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Pump pressure max. (0 liters discharge flow) [bar] Pressure pump (suction side) (0 liter flow) [bar] Flow rate max. (0 bar back pressure) [l/min] Bath depth min. [mm] Calibration option Appliance fastener Technical data complies with the standard Permissible ON time [%] Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 RS 232 interface Voltage [V] O.3 0.2 0.2 18 80 Pressure pump (suction side) (0 liter flow) [bar] 0.2 18 18 18 100 DIN 12876 100 100 145 x 340 x 200 10.56 5 - 40 80 Protection class according to DIN EN 60529 RS 232 interface yes Voltage [V]	Pump type	Pressure- / suction pump
Pressure pump (suction side) (0 liter flow) [bar] Flow rate max. (0 bar back pressure) [l/min] Bath depth min. [mm] Calibration option Appliance fastener Technical data complies with the standard Permissible ON time [%] Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] RS 232 interface USB interface Voltage [V]	Pump capacity adjustable	yes
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Bath depth min. [mm] Calibration option Appliance fastener Technical data complies with the standard Permissible ON time [%] Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 USB interface Voltage [V]	Pressure pump (suction side) (0 liter flow) [bar]	0.2
Calibration option Appliance fastener Technical data complies with the standard Permissible ON time [%] Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 RS 232 interface USB interface Voltage [V] yes clamp DIN 12876 100 100 5 - 40 80 IP 21 yes Ves Voltage [V]	Flow rate max. (0 bar back pressure) [l/min]	18
Appliance fastener Technical data complies with the standard Permissible ON time [%] Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 RS 232 interface USB interface Voltage [V] DIN 12876 100 100 145 x 340 x 200 145 x 340 x 200 185 340 19 21 10 56 10 5 - 40 10 21 10 21 10 30 10 30 10 30 10 30 10 30 20 30 20 30	Bath depth min. [mm]	150
Technical data complies with the standard DIN 12876 Permissible ON time [%] 100 Dimensions (W x H x D) [mm] 145 x 340 x 200 Weight [kg] 10.56 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	Calibration option	yes
Permissible ON time [%] 100 Dimensions (W x H x D) [mm] 145 x 340 x 200 Weight [kg] 10.56 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	Appliance fastener	clamp
Dimensions (W x H x D) [mm] 145 x 340 x 200 Weight [kg] 10.56 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	Technical data complies with the standard	DIN 12876
Weight [kg] 10.56 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	Permissible ON time [%]	100
Weight [kg] 10.56 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	Dimensions (W x H x D) [mm]	145 x 340 x 200
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] 5 - 40		10.56
Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 21 RS 232 interface yes USB interface yes Voltage [V] 230		5 - 40
RS 232 interface yes USB interface yes Voltage [V] 230		80
RS 232 interface yes USB interface yes Voltage [V] 230	Protection class according to DIN EN 60529	IP 21
USB interfaceyesVoltage [V]230		yes
Voltage [V] 230	USB interface	
	Voltage [V]	
Frequency [Hz] 50/60	Frequency [Hz]	50/60
Power input [W] 2100		2100







