

B1. Specifications. Polar Bear Plus - Crystal

Part number	35770
Conformity	CE
Commodity Code	84195000

General

Plate material		Copper, chrome plated
Plate diameter	mm	149
Temperature range	°C	-40 to 150
Plate sensor		PT100
Dimensions (W x D x H)	mm	200 x 320 x 170
Weight	kg	9
Display		VGA
Set point temperature setting resolution	°C	0.01
Temperature display resolution	°C	0.01
Safety circuit min. (software)	°C	-50
Safety circuit max. (thermal fuse)	°C	160
Accuracy	°C	better than ± 1.0
Control method		Cascade
External Sensor		PT 100
Control accuracy with external sensor in former at 0 °C	°C	±0.10

Stirring

Stirring quantity max. (H2O)	L	1
Motor rating input	W	60
Motor rating output	W	30
Speed range	rpm	0, 200 - 1500
Speed setting resolution	rpm	1
Speed display resolution	rpm	1
Stirring bar length max.	mm	50

Heating (Plate only)

Heating output	W	180
Heating time from 20°C to 100°C	min	10

Cooling (Plate only)*

Cooling time from 20°C to 0°C	min	5
Cooling time from 20°C to -20°C	min	12
Cooling time from 20°C to -30°C	min	21
Cooling time from 20°C to -40°C	min	43

Heating

Controllable Heating rates	°C/min	0.01 to 2.00
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Cooling

Controllable Cooling rates	°C/min	0.01 to 2.00
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Temperature profiles with up to 16 separate segments	Yes
Temperature cycling	Yes
Computer and Labview integration	Yes

Electrical

Voltage	V	220 - 240
Frequency	Hz	50/60
Power input	W	630
Fuses (External)		F0, 10A (110-230V)
Fuses (Internal)		F1, 3A (110-230V) F2, 10A (24V)

Connectivity

Ethernet interface	yes
USB Data Storage	yes
Real time historical log	yes

Environment

Permissible ambient temperature	°C	5 - 40
Permissible relative moisture		No data
Protection class according to DIN EN 60529		IP 20

Packing box dimensions (L x W x H)	cm	40 x 30 x 42
Packing box weight	kg	12±2
Total shipping dimensions (L x W x H)	cm	76 x 55 x 80
Total shipping weight (including palette)	kg	18±2