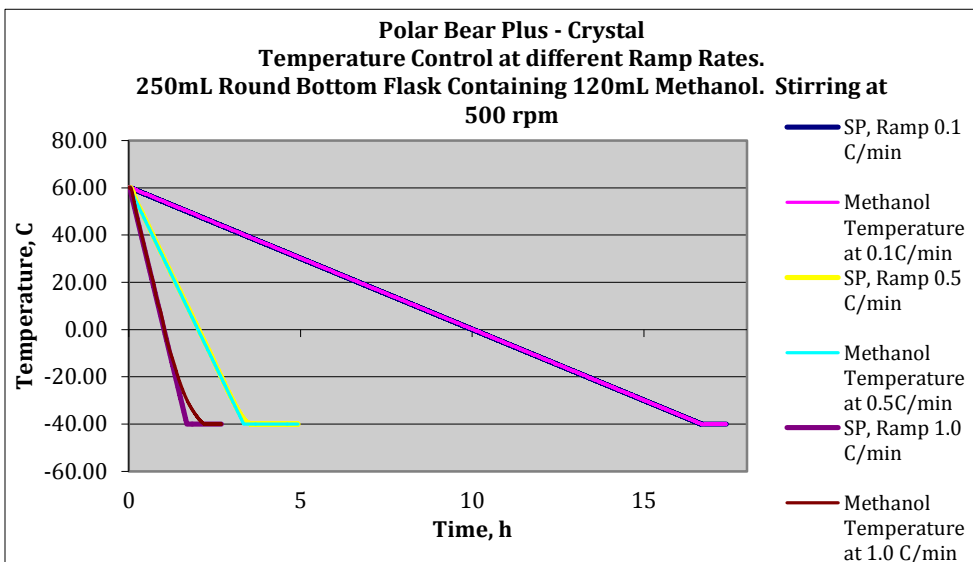


# Polar Bear *Plus* Crystal

## SPECIFICATIONS AND DATA SHEET



GENERAL		
Plate diameter	mm	149
Dimensions (W x D x H)	mm	200 x 320 x 170
Weight	kg	9
Temperature range	°C	-40 to 150
Accuracy	°C	better than ± 1.0
Control accuracy with external sensor (PT100) in former at 0 °C	°C	±0.10
Safety circuit min. (software)	°C	-50
Safety circuit max. (thermal fuse)	°C	160
Power input	W	630
STIRRING		
Stirring quantity max (H <sub>2</sub> O)	L	1
Speed range	rpm	0, 200 - 1500
Stirring bar max length	mm	50
HEATING AND COOLING*		
Heating time from 20°C to 100°C, without ramp control	min	10
Cooling time from 20°C to 0°C, without ramp control	min	7
Cooling time from 20°C to -20°C, without ramp control	min	14
Cooling time from 20°C to -40°C, without ramp control	min	23

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		IP20

ADDITIONAL FEATURES FOR POLAR BEAR PLUS CRYSTAL		
Controllable heating rates	°C/min	0.10 to 2.00
Controllable cooling rates	°C/min	0.10 to 2.00
Temperature profiles with up to 16 separate segments		Yes
Temperature cycling		Yes
Computer and Labview integration		Yes

### CAMBRIDGE REACTOR DESIGN

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\*Based on plate temperatures.