Polar Bear *Plus* Flow Synthesiser

SPECIFICATIONS AND DATA SHEET

Polar Bear Plus Flow Synthesiser shown with Uniqsis pump and netbook attached – not included as standard

GENERAL		
Cylinder diameter	mm	125
Cylinder height	mm	110
Dimensions (W x D x H)	mm	200 x 320 x 300
Weight	kg	13
Temperature range	°C	-40 to 150
Accuracy	°C	better than ± 1.5
Control accuracy	°C	±0.2
Set point temperature setting resolution	°C	0.01
Safety circuit min. (software)	°C	-50
Safety circuit max. (software)	°C	160
Power input	W	630
COIL REACTOR		
Tubing material		FEP
Size, working volume with 2.4mm bore tubing	mL	50
HEATING AND COOLING*		
Heating output	W	180
Heating rate	°C/min	5
Cooling time from 20°C to 0°C	min	7
Cooling time from 20°C to -20°C	min	14
Cooling time from 20°C to -40°C	min	23

*Based on plate temperatures.

CONNECTIVITY		
Ethernet interface		Yes
Computer and Labview integration		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

PERFORMANCE DATA
Stable temperatures between -40° and +150°C can be maintained even with a throughput of 10ml/min.
Chemists at the Innovative Technology Centre, University of Cambridge are in the process of submitting detailed performance data for publication in the scientific literature; therefore we cannot currently publish full results here.

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