

C1. Polar Bear *Plus* - Flow Synthesiser

Polar Bear *Plus* - Flow Synthesiser, 230V **35780**
Polar Bear *Plus* - Flow Synthesiser, 115V **45470**

Commodity Code 8419500090

Conformity CE
EN61010-1:2000
EN61010-2-010:2014
EN61010-2-011:2017

Commodity Code 84195000
Cylinder diameter mm 125
Cylinder height mm 110
Temperature range °C -40 to 150
Temperature Sensor PT100
Dimensions, without dome (W x D x H) mm 200 x 320 x 300
Weight kg 13
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. (software) °C 160
Thermal Fuse (hardware) °C 160
Accuracy °C better than 1.5
Control method PID
Control accuracy °C ±0.2

Coil Reactor

Tubing Material FEP
Size, working volume with 2.4mm bore tubing mL 50

Heating times

Heating output W 180
Heating time from 20°C to 50°C min
Cooling time from 20°C to 100°C min
Cooling time from 20°C to 150°C min

Cooling times

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

Electrical

Voltage V 110 - 240
Frequency Hz 50/60
Power input W 630
Fuses, F1 A 3
Fuses, F2 A 15
Fuses, F3 A 2

Connectivity

Ethernet interface Yes
USB Data Storage Yes
Real time historical log Yes
Computer and Labview integration Yes

Environment

Permissible ambient temperature °C 5 - 40
Permissible relative moisture No data
Protection class according to DIN EN 60529 IP 20
Max operational altitude m <2000

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