SP FTS MultiCool™

Low Temperature Bath

Features & Benefits

- Temperature control range of -80 °C to 100 °C
- Built-in magnetic stirrer and vortex breaker maintain isothermal bath conditions
- Liquid medium enhances temperature stability and uniformity
- Multi-functional temperature controller provides accurate temperature control with temperature indication
- Includes USB adapter, two meter cable and software to permit data logging and remote access
- Mechanical refrigeration eliminates costs and hazards associated with expendable refrigerants

Certifications

- CE (2006/42/EC), (2006/95/EC), (006/108/EC)

Performance Specifications

Description	MC480, MC880
Maximum Low Temperature	-80 °C
Temperature Control Range	-80 to 100 °C
Temperature Control Stability	± 0.1 °C
Temperature Indication Display	0.1
Compressor	2 @ 0.25 hp
Available Bath Volumes	4 L or 8 L
Magnetic Stirrer	Included
Vortex Breaker	Included
Computer Interface	RS485/USB (with software)

Note: Performance specifications are based on SP test data from units using methanol operating at an ambient room temperature of approximately 22 °C (72 °F).

Heat Removal

Description	MC480, MC880
20 °C	270 W, 922 BTU/hr
0 °C	240 W, 820 BTU/hr
-20 °C	200 W, 683 BTU/hr
-40 °C	170 W, 581 BTU/hr
-60 °C	120 W, 410 BTU/hr
-80 °C	30 W, 102 BTU/hr

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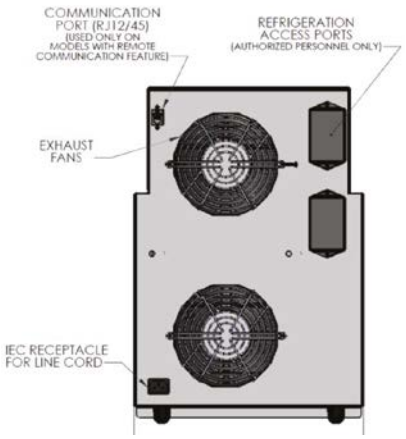

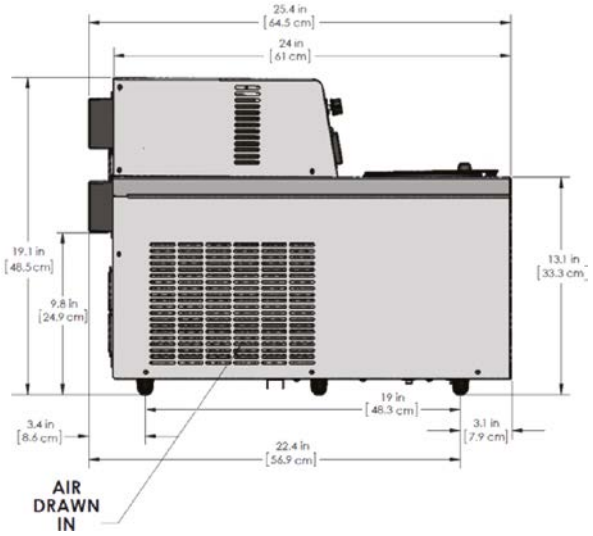

Communication Kit, Solo Control

A communication kit is included with the MultiCool™. The kit includes a USB adapter, a two meter cable and software.

A PC with the Windows® 10, Windows® 98, Windows® NT, Windows® XP, 32-bit Windows Vista®, or 32-bit Windows® 7 operating system is required for bridge and driver installation.

Communication Kit Features

- Permits complete control of the MultiCool from a PC
- Allows for plug & play operation
- Allows for data logging
- Includes a 64 segment ramp soak program

Fluid Selections

For best stirring results, choose a fluid medium with kinematic viscosity of 20 centistokes or less over the full operating temperature range.

Electrical Requirements

Description	MC480, MC880
60 Hz Option	120 V, 12 A[2]
50 Hz Option[1]	220 V, 6 A[2]

Note: All equipment configured with the 60 Hz option is supplied with a 5-15P NEMA configuration (i.e.,). All equipment configured with the 50 Hz option is supplied with a non-terminated AWG 18-3 power cord.

Dimensional Data

Description	MC480	MC880
Width	33 cm (13 in)	33 cm (13 in)
Depth	64.5 cm (25.4 in)	64.5 cm (25.4 in)
Height	48.5 cm (19.1 in)	48.5 cm (19.1 in)
Weight	43.5 kg (96 lbs)	45.4 kg (100 lbs)
Chamber Diameter	16.5 cm (6.5 in)	19.8 cm (7.8 in)
Chamber Depth[3]	18.4 cm (7.25 in)	22.9 cm (9 in)
Height to Work Surface Above Bench Top	34.3 cm (13.5 in)	34.5 cm 13.5 in)

[1]50 Hz option decreases heat removal by 17%.
[2]Maximum continuous amperage drawn by the equipment.
[3]Stirrer assembly reduces chamber depth by .75 inches (1.9 cm) in cylindrical chambers.

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