



SP FTS CharpyCool™

Low Temperature Bath For Charpy Impact Testing

Features & Benefits

- Temperature control range of -80 °C to 30 °C
- Built-in magnetic stirrer maintains isothermal bath conditions
- Liquid medium enhances temperature stability and uniformity and exceeds ASTM-E23 temperature stability requirements
- Available with 4-liter or 8-liter reservoir, allows for a capacity of 65 or 91 specimens
- Multi-functional temperature controller provides accurate temperature control with temperature indication
- Mechanical refrigeration eliminates costs and hazards associated with expendable refrigerants

Certifications

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

Performance Specifications

Description	CC480, CC880
Maximum Low Temperature	-80 °C
Temperature Control Range	-80 °C to 30 °C
Temperature Control Stability*	± 0.1 °C
Temperature Indication Display	0.1
Compressor	2 @ 0.25 hp
Available Bath Volumes	4L (CC480) or 8L (CC880)
Magnetic Stirrer	Included

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).

Fluid Selection Tip

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



Heat Removal

Temperature	CC480, CC880
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

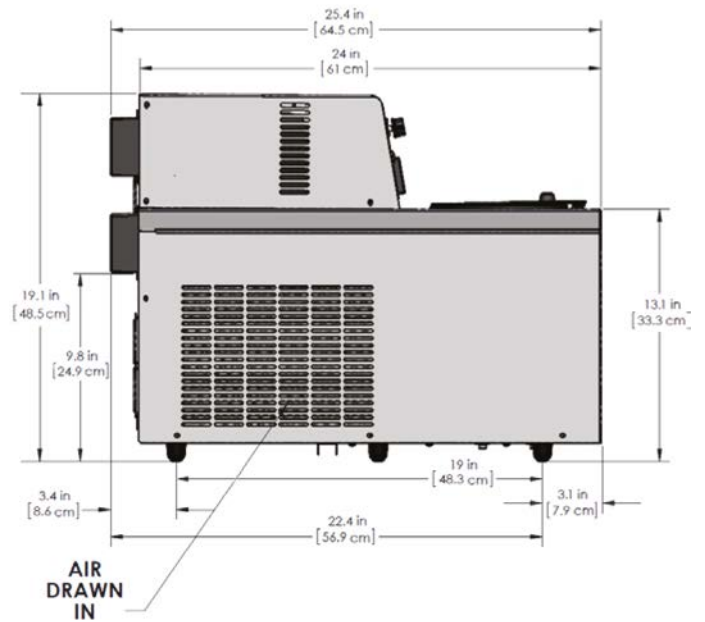
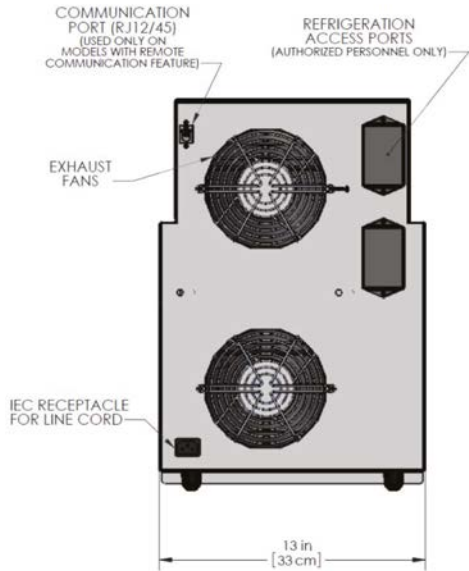
Electrical Requirements

Description	CC480, CC880
60 Hz Option	120 V, 12 A ²
50 Hz Option ¹	220 V, 6 A ^{1,2}

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.



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Dimensional Data

Description	CC480	CC880
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)	43.5 kg (96 lbs)
Chamber Diameter	16.5 cm (6.5 in)	19.8 cm (7.8 in)
Chamber Depth ³	18.5 cm (7.3 in)	22.9 cm (9 in)
Height to Work Surface Above Bench Top	34.3 cm (13.5 in)	34.3 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 1.9 cm (0.75 in) in cylindrical chambers

Optional Accessories

Charpy Rack	For 4-liter baths (CRA-4)	For 8-liter baths (CRA-8)
Racks	5	7
Maximum Specimens Per Rack	13	13
Maximum Specimens Total	65	91
Vortex Breaker	For 4-liter baths (VB-4)	For 8-liter baths (VB-8)
Tongs	Centering tongs with V-notch (CC-T)	
Communication Kit	6.5 ft RJ12 Cable, RS-485 to USB Adapter with drivers, software (COMMKIT)	



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