

ESPEC ETC-200L Thermal System for Summit

Temperature Range -60 to +200°C



Facility Planning Guide

This guide contains information to help prepare your facility for the arrival of your ESPEC thermal system.

Thermal System Requirements

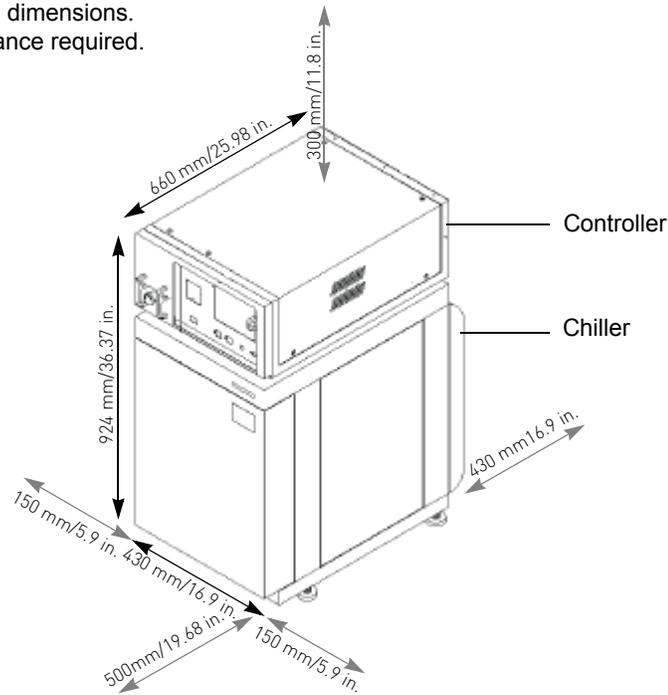
General	Site requirements	<ul style="list-style-type: none"> • A flat, level floor which is strong enough to bear the weight of the equipment • Minimal mechanical vibrations • Well-ventilated and without exposure to direct sunlight • Near to power and drainage facilities • Not exposed to combustible or corrosive gases
Air	Compressed air	n/a
Environmental Conditions	Temperature	Ambient temperature: +20°C to +32°C
	Humidity	Relative humidity: 20% to 60%
Electrical Data	Power	<p>Power for both the chiller and controller is supplied via a single power cord from the mains to the controller.</p> <p>Voltage fluctuation must be within $\pm 5\%$ of the rated voltage (within $\pm 10\%$ while the thermal chuck system is running).</p> <p>Use only a high harmonic applicable leakage breaker as a primary power switch. Other types of breakers will cause equipment malfunction.</p>
	Maximum current per voltage specification, minimum cable diameter and switch fuse capacity	<ul style="list-style-type: none"> • Power Supply Voltage: 200V AC 50/60 Hz • Rated Maximum Current (A): 10 • Minimum Wire Size: 2.0 mm² • Switch Fuse Capacity: 15A
		<ul style="list-style-type: none"> • Power Supply Voltage: 208V AC, 60 Hz • Rated Maximum Current (A): 9.6 • Minimum Wire Size: 2.0 mm² • Switch Fuse Capacity: 15A
		<ul style="list-style-type: none"> • Power Supply Voltage: 220V AC, 60 Hz • Rated Maximum Current (A): 9.1 • Minimum Wire Size: 2.0 mm² • Switch Fuse Capacity: 15A
		<ul style="list-style-type: none"> • Power Supply Voltage: 230V AC, 50 Hz • Rated Maximum Current (A): 8.7 • Minimum Wire Size: 2.0 mm² • Switch Fuse Capacity: 15A
North American style plugs (contact a Cascade Microtech representative for details on what type of plug is appropriate for your facility configuration.)	<ul style="list-style-type: none"> • 200-220V  <p>NEMA L6-20</p>	
Coolant		R23 and R404 liquid refrigerants
Communications		RS-232

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Dimensions	Chiller	430 mm/16.92 in. (W) x 660 mm/25.98 in. (D) x 680 mm/26.77 in. (H)
	Controller	430 mm/16.92 in. (W) x 647 mm/25.47 in. (D) x 243.5 mm/9.58 in. (H)
Weight	Controller	35 kg (77-pound)
	Chiller	100 kg (220-pound)
	Lifting requirements	Generally, two people are required to safely lift the thermal system.
Shipping Dimensions and Weight	Chuck (if standalone)	<ul style="list-style-type: none"> • 864 mm; 34 in. (W) x 635 mm/25 in. (D) x 432 mm/17 in. (H) • Weight: 18 kg (40-pound)
	Chiller, controller	<ul style="list-style-type: none"> • 864 mm/34 in. (W) 940 mm/37 in. (D) x 1245 mm/49 in. (H) • Weight: 164 kg (362-pound)

Chiller with controller

Black arrows represent thermal system dimensions.
Gray arrows represent additional clearance required.



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