

# ESPEC ETC-200L Thermal System for Summit

Temperature Range -65 to +200°C



## Facility Planning Guide

This guide contains information to help prepare your facility for the arrival of your ESPEC® 200mm thermal system.

### Thermal System Requirements

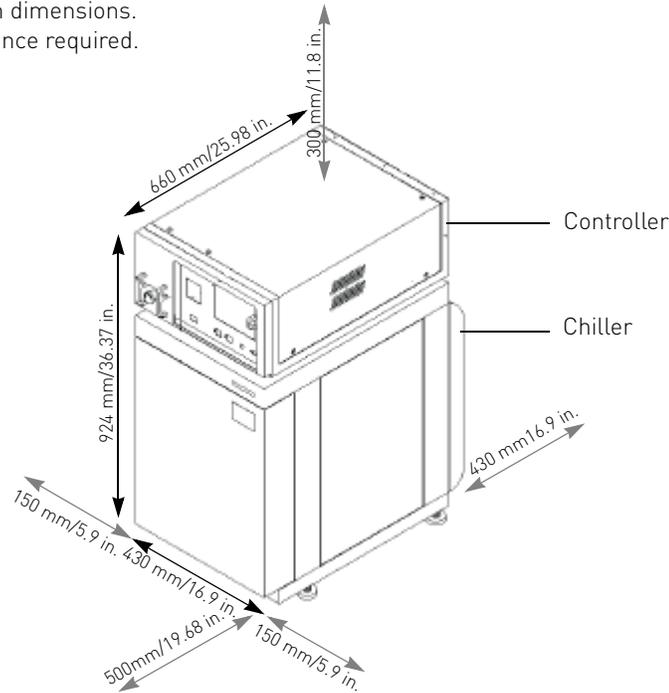
<b>General</b>	Site requirements	<ul style="list-style-type: none"> <li>• A flat, level floor which is strong enough to bear the weight of the equipment</li> <li>• Minimal mechanical vibrations</li> <li>• Well-ventilated and without exposure to direct sunlight</li> <li>• Near to power and drainage facilities</li> <li>• Not exposed to combustible or corrosive gases</li> </ul>
	<b>Air</b>	Compressed Air n/a
<b>Environmental Conditions</b>	Temperature	Ambient temperature: +20°C to +32°C
	Humidity	Relative humidity: 20% to 60%
<b>Electrical Data</b>	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 <math>\pm 5\%</math> of the rated voltage (within <math>\pm 10\%</math> 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"> <li>• Power Supply Voltage: 200V AC 50/60 Hz</li> <li>• Rated Maximum Current (A): 10</li> <li>• Minimum Wire Size: 2.0 mm<sup>2</sup></li> <li>• Switch Fuse Capacity: 15A</li> </ul>
		<ul style="list-style-type: none"> <li>• Power Supply Voltage: 208V AC, 60 Hz</li> <li>• Rated Maximum Current (A): 9.6</li> <li>• Minimum Wire Size: 2.0 mm<sup>2</sup></li> <li>• Switch Fuse Capacity: 15A</li> </ul>
		<ul style="list-style-type: none"> <li>• Power Supply Voltage: 220V AC, 60 Hz</li> <li>• Rated Maximum Current (A): 9.1</li> <li>• Minimum Wire Size: 2.0 mm<sup>2</sup></li> <li>• Switch Fuse Capacity: 15A</li> </ul>
		<ul style="list-style-type: none"> <li>• Power Supply Voltage: 230V AC, 50 Hz</li> <li>• Rated Maximum Current (A): 8.7</li> <li>• Minimum Wire Size: 2.0 mm<sup>2</sup></li> <li>• Switch Fuse Capacity: 15A</li> </ul>
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"> <li>• 200-220V</li> </ul>  <p><b>NEMA L6-15</b></p>	
<b>Coolant</b>	R23 and R404 liquid refrigerants	
<b>Communications</b>	RS-232	
<b>Dimensions</b>	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)

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

## Chiller with controller

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



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**Cascade Microtech, Inc.**  
**Corporate Headquarters**  
 toll free: +1-800-550-3279  
 phone: +1-503-601-1000  
 email: [cmi\\_sales@cmicro.com](mailto:cmi_sales@cmicro.com)

**Germany**  
 phone: +49-89-9090195-0  
 email: [cmg\\_sales@cmicro.com](mailto:cmg_sales@cmicro.com)

**Japan**  
 phone: +81-3-5615-5150  
 email: [cmj\\_sales@cmicro.com](mailto:cmj_sales@cmicro.com)

**China**  
 phone: +86-21-3330-3188  
 email: [cmc\\_sales@cmicro.com](mailto:cmc_sales@cmicro.com)

**Singapore**  
 phone: +65-6873-7482  
 email: [cms\\_sales@cmicro.com](mailto:cms_sales@cmicro.com)

**Taiwan**  
 phone: +886-3-5722810  
 email: [cmt\\_sales@cmicro.com](mailto:cmt_sales@cmicro.com)

