

ERS AirCool Thermal System for Summit



Temperature Range +20 to +300°C



Facility Planning Guide

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

Thermal System Requirements

Environmental Conditions	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 • The thermal system should be positioned on the left side of the station due to the length of the thermal hose and cable connection length. Longer thermal hose and cables are available, but may affect performance.
	Temperature	Ambient temperature: +18°C to +28°C
	Humidity	Relative humidity: 20% to 60%
	Compressed air requirements	<ul style="list-style-type: none"> • Volume: Max. 350 liters/minute (12.4 SCFM) recommended, at standard atmospheric pressure and temperature. • Pressure: 0.6 Mpa (87 psi); minimum supply pressure while at full flow. • Dew point: <ul style="list-style-type: none"> – Microchamber® stations: ≤ -45C – Non-MicroChamber stations: 5°C, dry, clean, oil free (coalescing filter required) • Temperature: ≤ +26°C • Purity: 99.9%, 3mm filtered • Residual oil volume: 0.01 mg/m3 @ 20°C and 0.7 Mpa
Electrical Data	Power for controller	<ul style="list-style-type: none"> • 100 V through 230 V AC, 50/60 Hz • 530 VA
	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  NEMA L6-15 • 100-115V  NEMA 5-20
Coolant	Clean, dry air	
Communications	RS-232 or IEEE 488	



WARNING

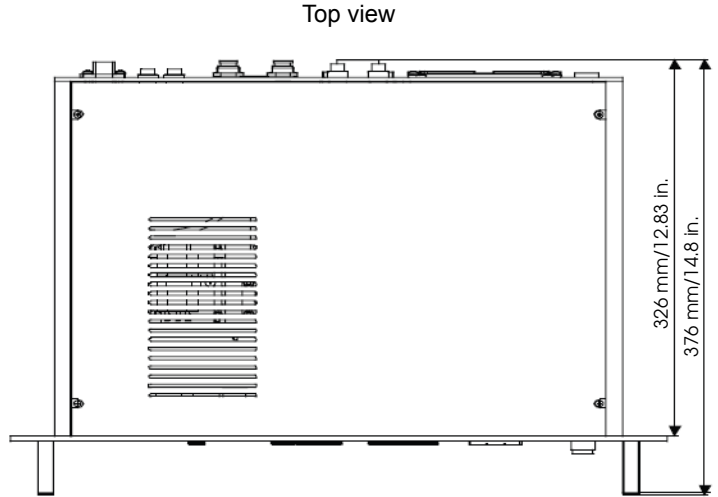
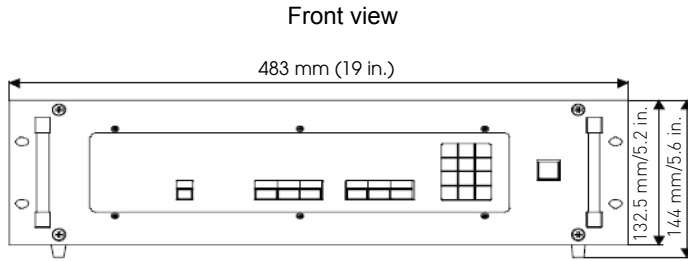
Cascade Microtech does not endorse or recommend using nitrogen instead of CDA for thermal system operation with any Cascade Microtech system due to the risk of oxygen depletion in the working environment.

If your testing configuration requires the use of nitrogen instead of CDA for MicroChamber purge, time in Quick Purge mode should be controlled. Discuss your setup with your safety and facilities departments to ensure that the oxygen flow in your working environment is adequate to dissipate any nitrogen build up. The use of oxygen sensor alarms is also recommended.

For MicroChamber purge requirements, refer to your probe station Facility Planning Guide.

ERS AirCool Thermal System for Summit

Dimensions and Weight	Controller	<ul style="list-style-type: none"> • 483 mm/19 in. (W) x 376 mm/14.8 in. (D) x 144 mm/5.6 in. (H) • 10 Kg (22-pound)
	Shipping Dimensions and Weight	<ul style="list-style-type: none"> • Chuck (if standalone) • 590 mm/23.22 in. (W) x 900 mm/35.43 in. (D) x 660 mm/25.98 in. (H) • Controller • 500 mm/19.68 in. (W) x 900 mm/35.43 in. (D) x 280 mm/11 in. (H) • Weight: 50 Kg (110-pound)



© Copyright 2012 Cascade Microtech, Inc. All rights reserved. Cascade Microtech and MicroChamber are registered trademarks, and Summit is a trademark of Cascade Microtech, Inc. All other trademarks are the property of their respective owners.

Data subject to change without notice.

Cascade Microtech, Inc.
Corporate Headquarters
 toll free: +1-800-550-3279
 phone: +1-503-601-1000
 email: cmj_sales@cmicro.com

Germany
 phone: +49-89-9090195-0
 email: cmg_sales@cmicro.com

Japan
 phone: +81-3-5615-5150
 email: cmj_sales@cmicro.com

China
 phone: +86-21-3330-3188
 email: cmc_sales@cmicro.com

Singapore
 phone: +65-6873-7482
 email: cms_sales@cmicro.com

Taiwan
 phone: +886-3-5722810
 email: cmt_sales@cmicro.com

