

ERS AirCool3 Thermal System

Temperature Range: -60 to +300°C

This guide contains information to help prepare your facility for the arrival of your ERS AirCool3 thermal system.

Thermal System Requirements

Air	Compressed air requirements	<ul style="list-style-type: none"> • Volume: <ul style="list-style-type: none"> – 200 mm system: max. 380 liters/minute (13.4 SCFM) required, at standard atmospheric pressure and temperature. – 300 mm system: max. 480 liters/minute (17.0 SCFM) required, at standard atmospheric pressure and temperature. <p>NOTE</p> <p><i>Indicated pressure and volume are required to meet full system specifications. Lower pressure or flow will increase transition times and may affect the minimum temperature.</i></p> <ul style="list-style-type: none"> • Pressure: 0.6 Mpa (87 psi); minimum supply pressure while at full flow • Dew point: ≤ -45°C • Temperature: ≤ +26°C • Purity: 99.9% apply to 3 μm • Residual oil volume: 0.01mg/m³ apply to 20°C and 0.7 Mpa
	 <p>WARNING</p> <p><i>FormFactor does not endorse or recommend using nitrogen instead of CDA for thermal system operation with any FormFactor system due to the risk of oxygen depletion in the working environment.</i></p> <p><i>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.</i></p> <p><i>For MicroChamber purge requirements, refer to your probe station Facility Planning Guide.</i></p>	
Power	Mains supply	<ul style="list-style-type: none"> • 200/208/230 VAC, 50/60 Hz (auto switching) • 2400 VA
	North American style plugs	<ul style="list-style-type: none"> • 200 - 220V  <p>NEMA L6-20</p> <p>Contact a FormFactor representative for details on what type of plug is appropriate for your facility configuration.</p>
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 power facilities • Not exposed to combustible or corrosive gases • Position the thermal system on the left side of the station due to the thermal hose and cable connection length. Longer thermal hose and cables are available, but may affect performance.
	Seismic restraints	To use the seismic restraints, 4 anchor bolts must be embedded in the floor at the customer site for seismic restraint use.
	Temperature	<ul style="list-style-type: none"> • Ambient temperature: +18°C to +28°C • Relative humidity: 20% to 60%
	Humidity	<ul style="list-style-type: none"> • Relative humidity: 20% to 60%
Coolant	Clean, dry air	
Communications	RS-232 or IEEE 488	
Dimensions	Chiller	<ul style="list-style-type: none"> • 422 mm/16.6 in. (W) x 500 mm/19.7 in. (D) x 1020 mm/40.2 in. (H)

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Weight	Chiller	• 140kg (308 pounds)
	Lifting requirements	Two people are required to roll the chiller from the cart.
Shipping Dimensions and Weight	Chiller	• 620 mm/24.4 in. (W) x 900 mm/35.4 in. (D) x 1230 mm/48.4 in. (H) • Weight: 220 kg (484 pounds)

TS010 Controller with Integrated Chiller



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