

PMV200 Vacuum Probe System

Facility Planning Guide



This guide contains information to help prepare your facility for the arrival of your PMV200 probe system.

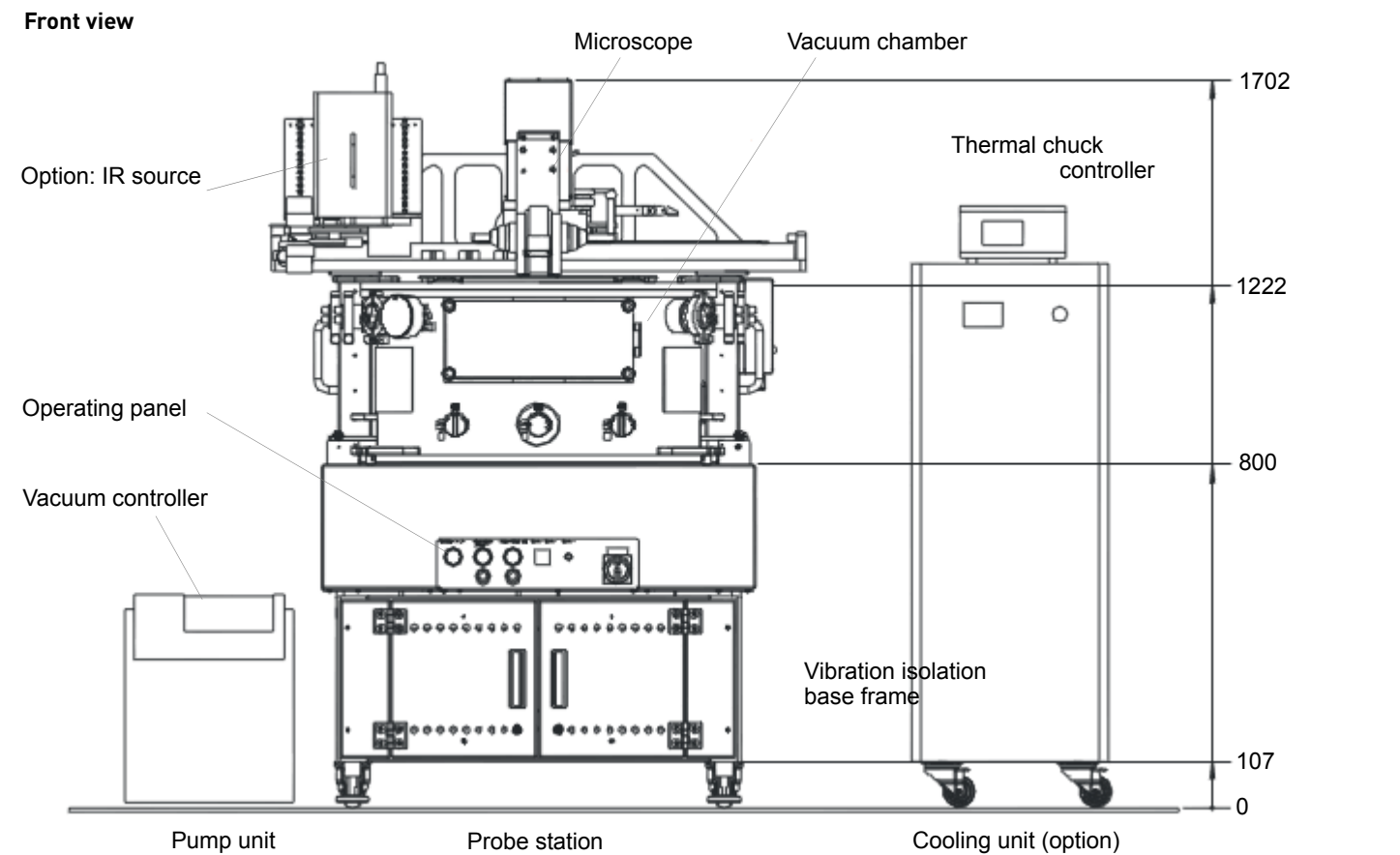
Probe System Requirements

Air and Vacuum	Compressed air, station	• Filtered, dry and oil-free • Minimum 5 bar to 6 bar maximum • Flow rate insignificant • 8 mm OD hose (US 5/16-inch)
	Compressed air, thermal chuck	• +25°C: 200 l/min @6bar, dew point <0°C, hose d = 8 mm OD • -40°C/-60°C: 450 l/min @6bar, dew point <0°C, hose d = 10 mm OD (ISO 8573.1 Class 1.4.1) WARNING <i>Cascade Microtech does not endorse or recommend using nitrogen instead of CDA, except for chamber purge, with any Cascade Microtech system due to the risk of oxygen depletion in the working environment.</i> <i>If your testing configuration requires the use of nitrogen instead of CDA for chamber purge, you should 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>
	Dry nitrogen input	Class 4.5 (Purity 99,995%) or better, input 2 bar; 200 l per purging cycle (8 mm OD hose)
Power	Power supply, station	1-Phase 230 V 50/60 Hz, or Phase-Phase 208 V 50/60 Hz
	Connection, station	• CEE 7/7 Schuko grounded (250 V, 16 A plug P-N-G), or • NEMA L6-20P (250 V, 20 A plug, P-P-G)
	Power supply, thermal chuck	• Controller: 100-127 V / 208-240 V, 50/60 Hz, 800 VA • Chiller (-40°C/-60°C): 200 / 208 / 230 V, 50/60 Hz, 2500 VA; separate power supply required
	Protection class	• 1 (IEC 61140)
	Transient overvoltage	• Overvoltage category II (IEC 60364-4-443)
	Fuse for main power connector	• 20 A (sluggish fine delayed)
Environmental Conditions	Humidity	• 25% to 60%
	Temperature	• Operating range: 19° C to 24° C • Target temperature: 22°C
	Pollution Level	• 1 (IEC 60664)
	Heat output	• Typ. 1000W
	Vibrations	The facility should be free of vibrations caused by other equipment.
Dimensions	Station	• With microscope bridge: 1250 mm (W) x 1492 mm (D) x 1702 mm (H) • With microscope swivel: 1016 mm (W) x 1342 mm (D) x 1741 mm (H)
	Pump station	• 392 mm (W) x 538 mm (D) x 559 mm (H)
	Chiller	• 460 mm (W) x 600 mm (D) x 1270 mm (H)
	Thermal chuck controller	• 250 mm (W) x 480 mm (D) x 120 mm (H)
Weight	Probe station	• 600 kg
	Pump station	• 36 kg
	Chiller	• 180 kg
	Thermal chuck controller	• 11 kg

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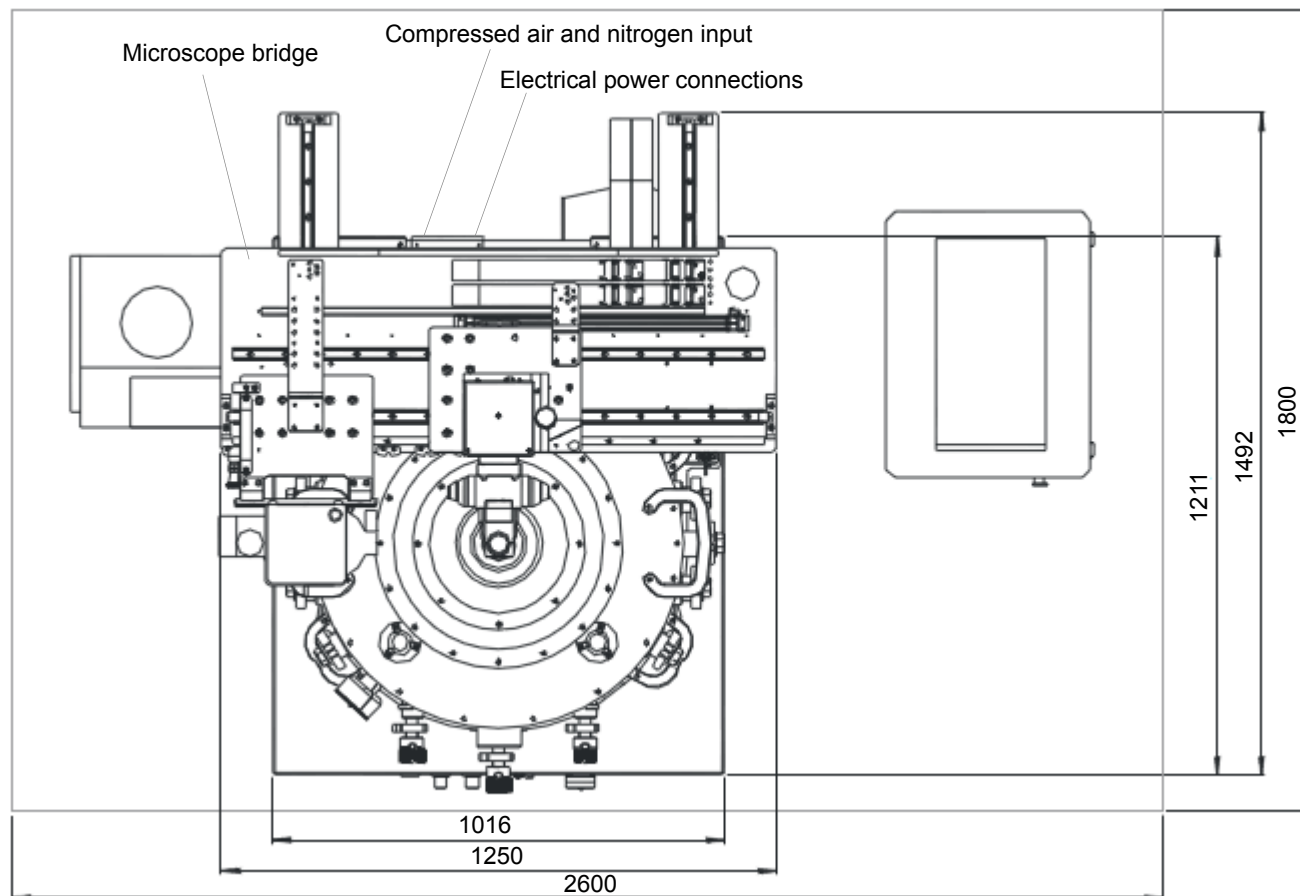
Shipping Dimensions and Weight	<i>i</i> NOTE A forklift with 1.3 m (minimum) fork is required to move the station.	
	Station	• With microscope bridge: 1790 mm (W) x 1510 mm (D) x 2210 mm (H) • With microscope swivel: 1670 mm (W) x 1280 mm (D) x 2020 mm (H) • Weight: 750 kg
	Accessories	• 1240 mm (W) x 860 mm (D) x 1150 mm (H) • Weight: 130 kg
	Optional chiller	• 820 mm (W) x 1000 mm (D) x 1700 mm (H) • Weight: 215 kg

Dimensions (in mm)



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Top view



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