


Facility Planning Guide

This guide contains information to help prepare your facility for the arrival of your AP200 probe station with loader.

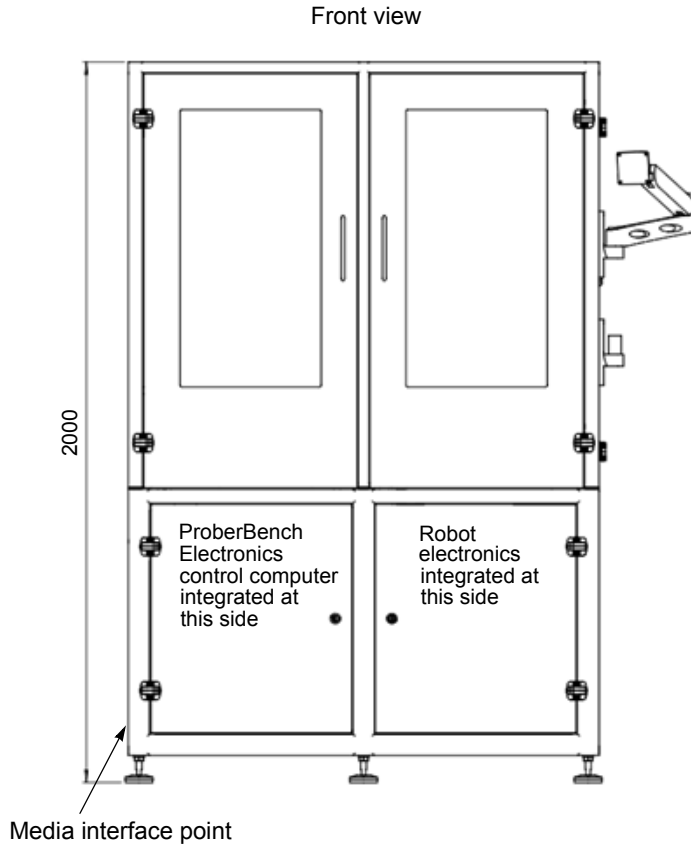
Probe Station Requirements

Air and Vacuum	Vacuum	<ul style="list-style-type: none"> • Less than 200 mbar absolute • Flow rate insignificant • 8 mm hose (US 5/16")
	Compressed air for Vibration Isolation Table	<ul style="list-style-type: none"> • Filtered, dry and oil-free • Minimum 4 bar to 8 bar maximum • Flow rate insignificant • 8 mm hose (US 5/16")
Dimensions	Station	• 1300 mm (W) x 975 mm (D) x 2000 mm (H)
	ProberBench rack	• 450 mm (W) x 400 mm (D) x 230 mm (H), integrated in rack
	Joystick Controller	• 280 mm (W) x 250 mm (D) x 140 mm (H), can be mounted to external control console
	Additional clearance	<p><i>Front</i> • 800 mm for operator/installation</p> <p><i>Back</i> • 200 mm for cables • 600 mm during installation or service</p> <p><i>Left</i> • 200 mm for cables</p> <p><i>Right</i> • 200 mm for cables • 600 mm during installation or service</p> <p><i>Top</i> • 2500 mm</p>
Weight	Station	750 kg
Temperature	Operating range	19° C to 24° C
	Target temperature	22° C
	Tolerance	1K
	ProberBench	Side ventilators and air expellers must be kept clear for air circulation
Humidity	Tool area	25% to 60%
	Support equipment area	25% to 60%
Vibrations	The facility should be free of vibrations caused by other equipment.	
Electrical Data	Power	100–240 V AC nominal, 50/60 Hz, 500 VA
	Protection class	I
	Transient overvoltage	Overvoltage category II (IEC 60364-4-443)
	Main connector–North America	The station has an integrated socket strip (UL-498, CSA, with NEMA 5-15R receptacles) with grounded mains plug NEMA 5-15P, 15A/125V.
	Main connector–Europe	The station has an integrated socket strip (with DIN 49440 sockets) with grounded mains plug CEE 7/7, DIN 49441, 16A/250V (German “Schuko”).
	Facility power line fuse for main connector	Ensure that a 16 A lead fuse is available in your facility power line where the prober main connector is plugged in.
Pollution Level	1 IEC 664	
Clean Room Class	Class 6 corresponding to DIN EN ISO 14644-1	

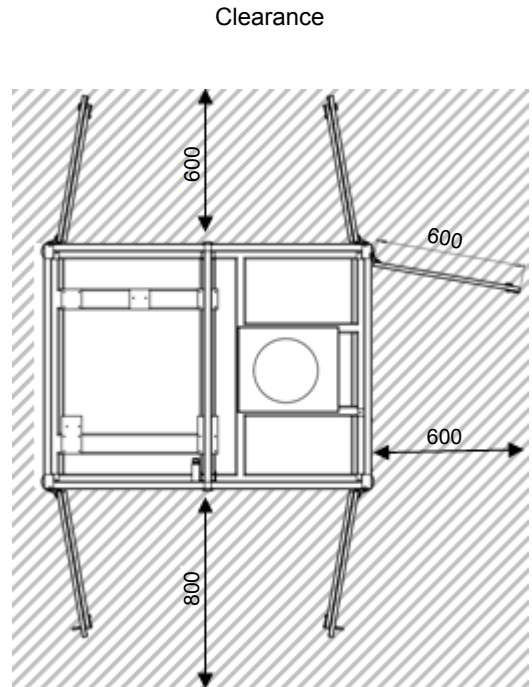
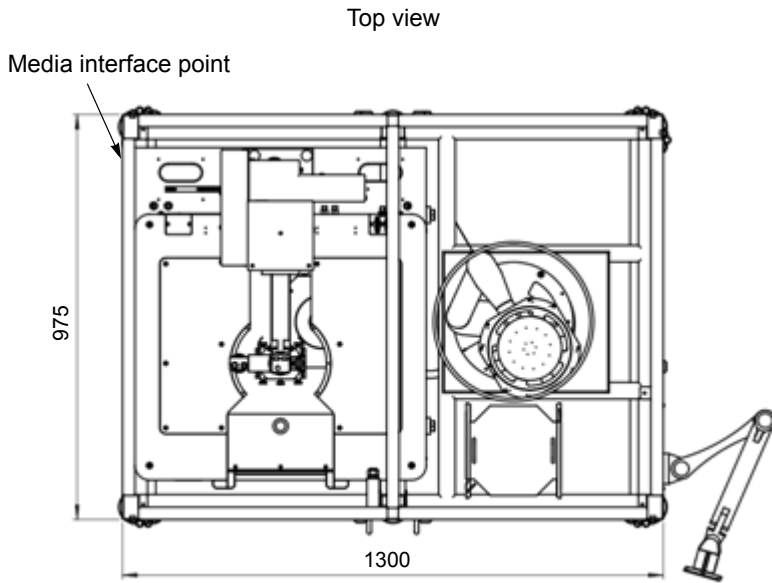
AP200 Probe System with Loader

Additional Equipment	<p>Thermal Chuck</p> <ul style="list-style-type: none"> • Temperature range: room temperature to +150°C. • May require a coolant: - Dry air: 200 l/min at SATP, 0.5 to 0.7 MPa or 5 to 7 bar <p>WARNING</p> <p> 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.</p> <p><i>If your testing configuration requires the use of nitrogen instead of CDA for MicroChamber or shielded environment 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>				
Shipping Dimensions and Weight <small>(approx. values)</small>	<table border="1"> <tr> <td data-bbox="256 583 548 657">Probe station box</td> <td data-bbox="548 583 1529 657"> <ul style="list-style-type: none"> • 1650 mm (W) x 1350 mm (D) x 2350 mm (H) • Weight: 800 kg </td> </tr> <tr> <td data-bbox="256 657 548 726">Accessories, incl. VIT</td> <td data-bbox="548 657 1529 726"> <ul style="list-style-type: none"> • 1000 mm x 1000 mm (D) x 1000 mm (H) • Weight: 100 kg </td> </tr> </table>	Probe station box	<ul style="list-style-type: none"> • 1650 mm (W) x 1350 mm (D) x 2350 mm (H) • Weight: 800 kg 	Accessories, incl. VIT	<ul style="list-style-type: none"> • 1000 mm x 1000 mm (D) x 1000 mm (H) • Weight: 100 kg
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Dimensions (in mm)



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