



This guide defines the facility requirements for operation of your FormFactor PAV200 probe system.

### **Probe System Requirements**

Clearance

Chiller

Probe station

Electronics rack

Weight

Front

Back/left/right

• 1000 kg (2205 lb)

• 300 kg (661 lb)

• 180 kg (397 lb)

Clean Dry Air	Compressed air,	Filtered, dry and oil-free
(CDA)	station	Minimum 5 bar to 6 bar maximum
	otation	Flow rate insignificant
		8 mm OD hose (US 5/16-inch)
	Compressed air,	• +25°C: 200 I/min @6bar, dew point <0°C, hose d = 8 mm OD
	thermal chuck	• -40°C/-60°C: 450 l/min @6bar, dew point <0°C, hose d = 10 mm OD (ISO 8573.1 Class 1.4.1)
Nitrogen	Dry nitrogen input	Class 4.5 (purity 99.995%) or better, input 2 bar minimum
		• 200 I per purging cycle
		• 8 mm OD hose
	DANGER	
	Release of nitrogen gas imposes a potential danger due to oxygen depletion in the working environment. An oxygen-deficient atmosphere can lead to rapid asphyxiation, causing loss of consciousness and potentially resulting in serious injury or death. The use of an oxygen sensor with an alarm is recommended. Consult your safety and facilities departments to ensure that the venting in your working environment is adequate to dissipate any nitrogen build-up.	
Power	Station	3-phase 400 V 50/60 Hz or 3-Phase 208 V 50/60 Hz (depending on system configuration)
	Station connection	Direct connection without plug
	Thermal chuck	Controller: 100-127 V / 208-240 V, 50/60 Hz, 1500 VA
		<ul> <li>Chiller: (-40°C/-60°C): 200 / 208 / 230 V, 50/60 Hz, 2350 VA; separate power supply required</li> </ul>
	Protection class	• 1 (IEC 61140)
	Transient overvoltage	Overvoltage category II (IEC 60364-4-443)
	Fuse for main power connector	20 A (sluggish time delayed)
Environmental Conditions	NOTE	
	Keep electronics rack side ventilators and air expellers clear for air circulation.	
	Relative humidity	• 25% to 60%
	Pollution level	• 1 (IEC 60664)
	Vibration isolation	The probe station is intended for use in an environment having background vibrations at or below the operating theatre level: a maximum level of 4000 micro-in./sec (72 dB) measured using the 1/3-octave-band velocity spectra method.
Dimensions	See Dimensions (in mr	n) on page 2 for details on probe station, electronics rack and optional chiller dimensions.
	NOTE	
	Dimensions and weights may vary according to final system configuration.	

• 1000 mm (39 in.) for operation

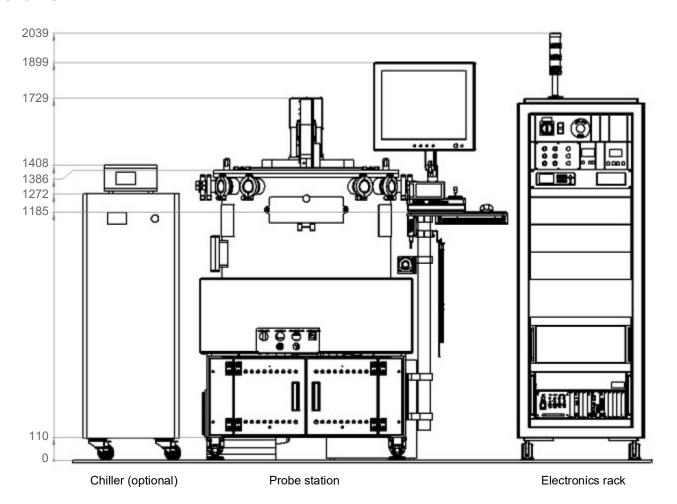
• 500 mm (20 in.) for maintenance access

# PAV200 Vacuum Probe System

Shipping Dimensions (WxDxH)	Probe station	With microscope bridge: 2040 x 1810 x 2300 mm (80.3 x 71.3 x 90.6 in.)     With microscope swivel: 1730 x 1640 x 2190 mm (68.1 x 64.6 x 86.2 in.)	
	Accessories	• 1240 x 860 x 1150 mm (48.8 x 33.9 x 45.3 in.)	
	Electronics rack	• 1050 x 1170 x 2330 mm (41 x 46 x 90 in.)	
	Chiller (optional)	• 820 x 1000 x 1700 mm (32.3 x 39.4 x 66.9 in.)	
Shipping Weight	NOTE  A forklift with 1.3 m (minimum) fork is required to move the station.		
	Probe station	• 1200 kg (2646 lb)	
	Accessories	• 400 kg (882 lb)	
	Electronics rack	• 420 kg (926 lb)	
	Optional chiller	• 215 kg (474 lb)	

# Dimensions (in mm)

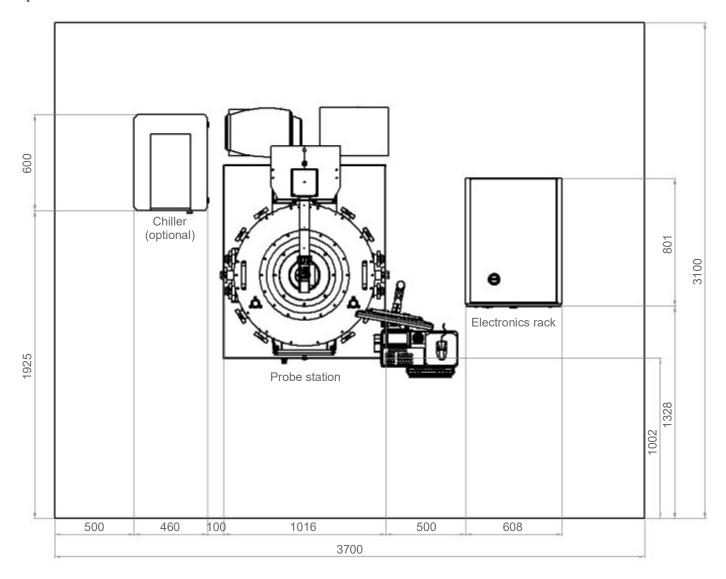
#### **Front View**







## **Top View**









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