PAV200 Vacuum Probe System

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

Probe System Requirements

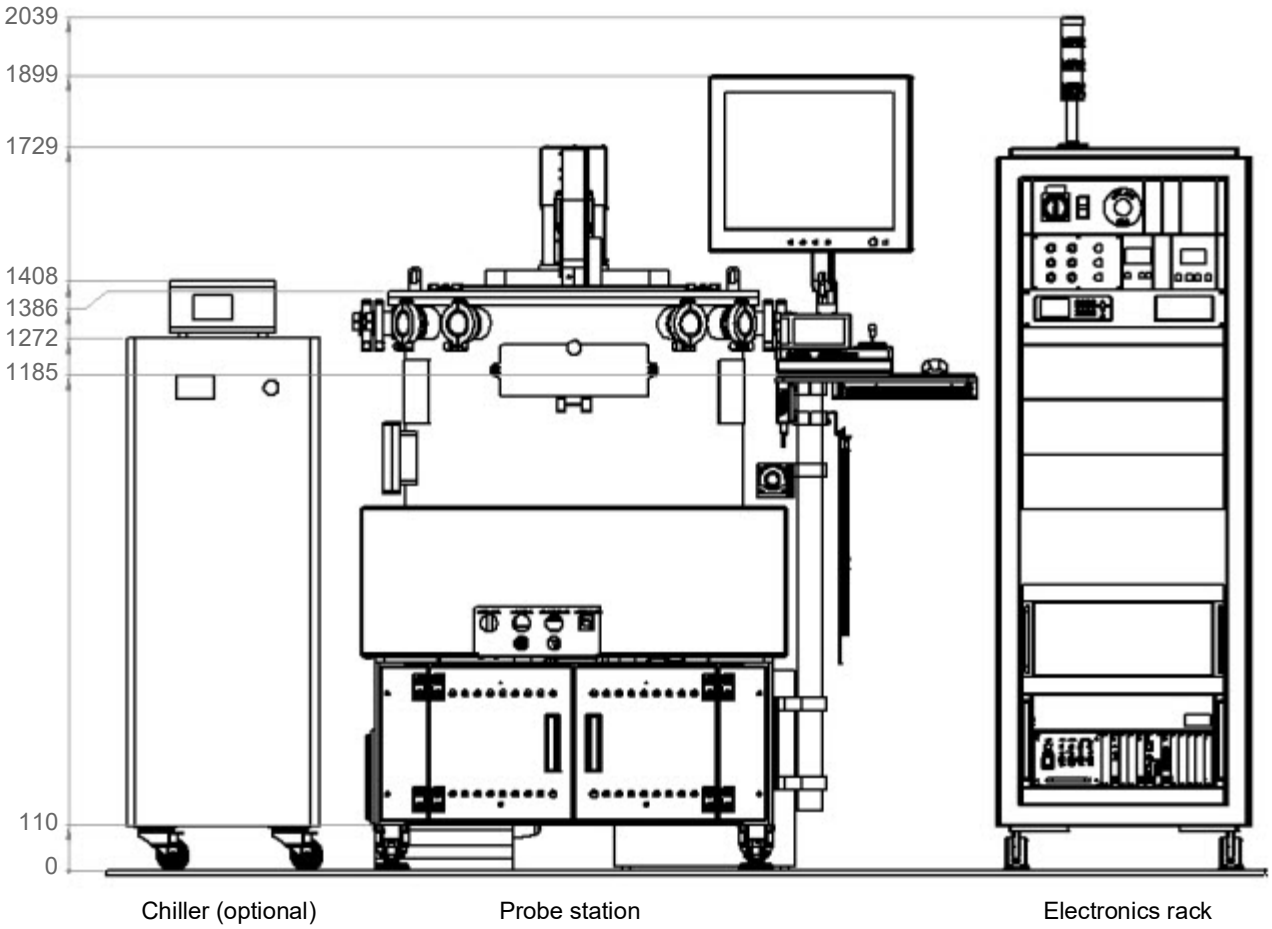
Clean Dry Air (CDA)	Compressed air, station	• Filtered, dry and oil-free • Minimum 5 bar to 6 bar maximum • Flow rate insignificant • 8 mm OD hose (US 5/16-inch)
	Compressed air, thermal chuck	• +25°C: 200 l/min @6bar, dew point <0°C, hose d = 8 mm OD • -40°C/-60°C: 450 l/min @6bar, dew point <0°C, hose d = 10 mm OD (ISO 8573.1 Class 1.4.1)
Nitrogen	Dry nitrogen input	• Class 4.5 (purity 99.995%) or better, input 2 bar minimum • 200 l 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 • Chiller: (-40°C/-60°C): 200 / 208 / 230 V, 50/60 Hz, 2350 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 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 mm) 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.*	
	Clearance	Front • 1000 mm (39 in.) for operation
		Back/left/right • 500 mm (20 in.) for maintenance access
Weight	Probe station	• 1000 kg (2205 lb)
	Electronics rack	• 300 kg (661 lb)
	Chiller	• 180 kg (397 lb)

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)

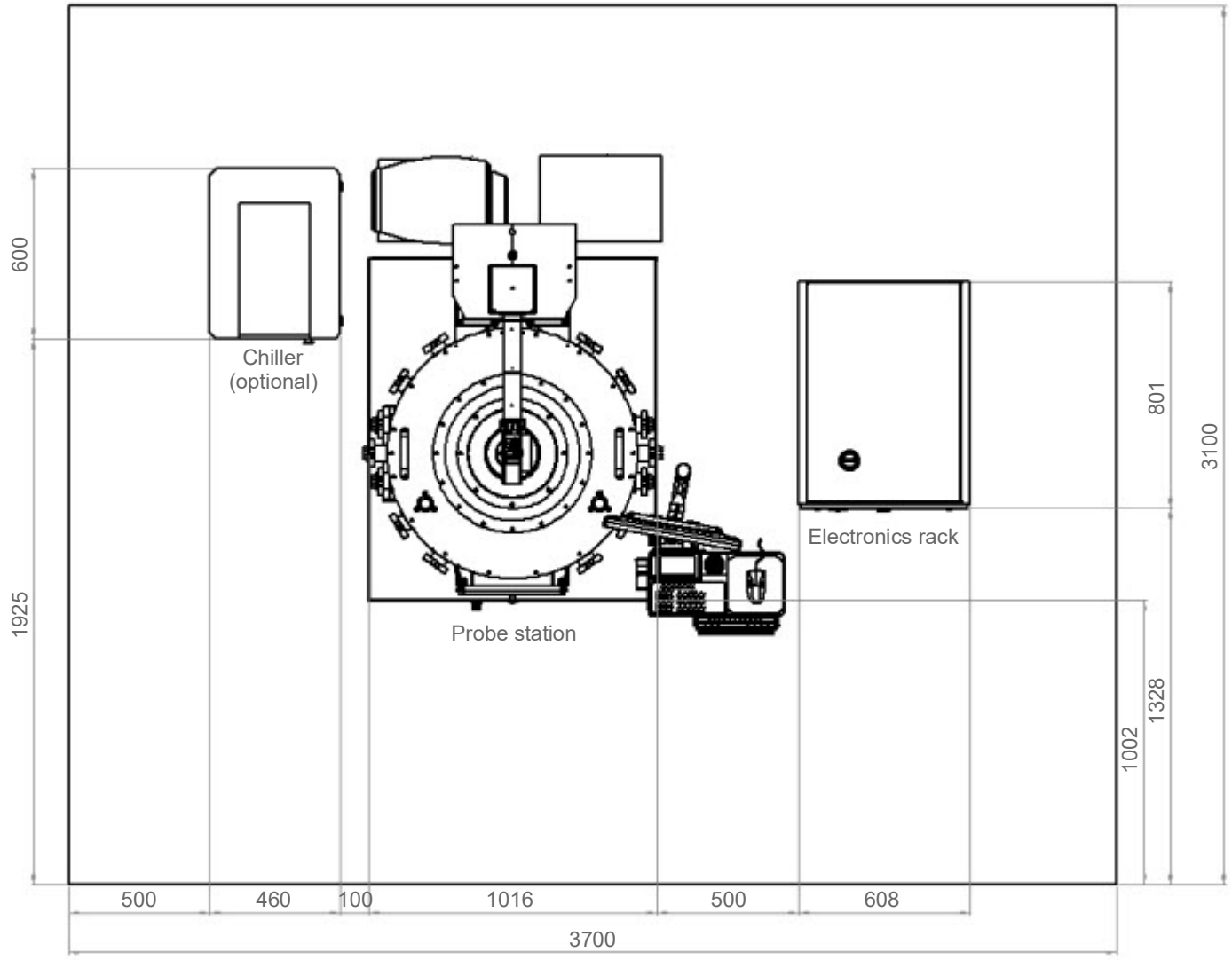
Dimensions (in mm)

Front View



PAV200 Vacuum Probe System

Top View



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