



ExploraVAC MAX System Data Sheet

Part Number	P1012110	Advanced Freeze Drying Test System
		Comments/Notes
System Platform	ExploraVac MAX System	
Vacuum Chamber		
Size	24 x 24 x 24 in (30 x 30 x 30 cm)	Internal dimensions
Material	6061 aluminum	Welded chamber
Volume	8 cu ft (226 L)	Internal volume
Vacuum Pumping		
Rough Pump	Edwards nXDS20iC	Dry scroll pump, corrosive rated
Roughing Speed	13.0 cfm (22.0 m ³ hr ⁻¹) **	
Turbo Pump	N/A*	
Turbo Speed	N/A*, **	
Vacuum Gauges		
Gauge Models	Granville 475 single Convectron	
Measurement Range	1x10 ⁻⁴ Torr to atmosphere	
Control Interface	Integrated touch screen	AutoExplor Software
System Pressure		
Operating Pressure	2x10 ⁻² Torr to 1 atmosphere	
Altitude Control	N/A*	
Thermal Platen		
Temperature Range	-70°C to 400°C	
Heating Power	5000 W	Resistive heating
Cooling Power	600 W**	Cascade refrigerated, closed loop
Chamber Heating		
Temperature Range	Ambient to 140 °C	
Heating power	7,000 W	Resistive heating
System Package		
System Weight	1075 lbs (488 kg)	Approximate dry weight
System Size	33 x 36 x 80 in (84 x 91 x 203 cm)	
Onboard Air Source	150 psi regulated, 2 gallon capacity	Power for pneumatic valves
System Power		
Input Voltage	208-240 VAC, 50-60 Hz	w/neutral, single phase
Input Current	85 Amps (at max load)	
Recommended Service	85 Amps, 220 Volts	
Operating Environment	50 °F to 86 °F (10 °C to 30 °C) 5% - 80% Humidity	Ambient room conditions
Connections		
Chamber Vent	KF-16 (to atmosphere)	Chamber vents to atmosphere
Chamber Gas Purge	½" Swagelok (to gas source)	250 psig max input
Pump Exhaust	KF-25	Connectable to facility exhaust

*Options marked as N/A are not included in this system build.

**Peak capability shown. Refer to detailed option specifications for performance curve data.