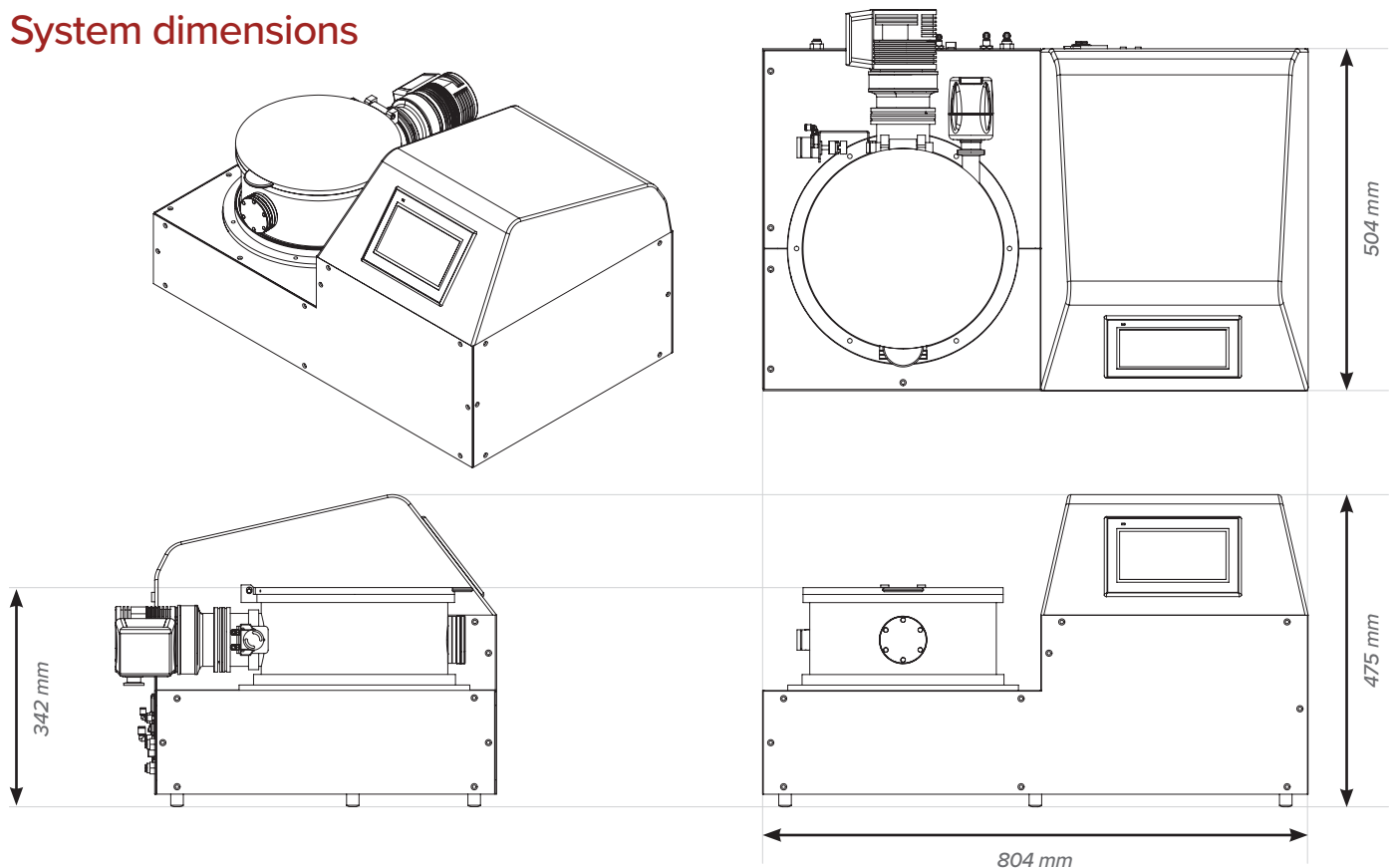


ANNEAL by Moorfield.

Tech specs

System dimensions



Technical specification

Vacuum chamber:	Stainless-steel (304 grade), approx. 13 L internal volume
Substrate stage:	Stainless-steel (304 grade); 4" diameter
Process gas control:	Mass-flow controllers (MFCs), up to 3 (subject to configuration); flow-rate or optional automatic pressure control with PID feedback loop
Pressure measurement:	Wide-range gauge; 10^{-9} to 1000 mbar
Pumping system:	Edwards nEXT85D turbomolecular pump; Edwards RV3/RV8 rotary-type (3 or 8 m ³ /hour), or Edwards nXDS6i scroll-type (6 m ³ /hour) backing pump
User interface:	7" colour high-resolution touchscreen HMI; fully automatic control
Cooling:	Coolant circulation
Interlocks:	Coolant flow switch; low and high vacuum
Weight (main unit):	45–70 kg (depending on options)

Requirements

Electrical power:	Single-phase; 50–60 Hz; 230 V; 10 A
Service gas:	Dry compressed air; 60–80 psi; 6 mm push-in (female on system)
Process gas:	15–25 PSI; max. 50 SCCM (per gas); research-grade purity; 1/4" Swagelok® compression fitting (male on system)
Vent gas (optional):	Nitrogen; 99.995% purity; 5 psi.; 6 mm push-in (female on system)
Chilled coolant:	1 L/min; 18–20 °C; 2 bar max.; must contain corrosion/bio inhibitor; 6 mm push-in flow/return (female on system)