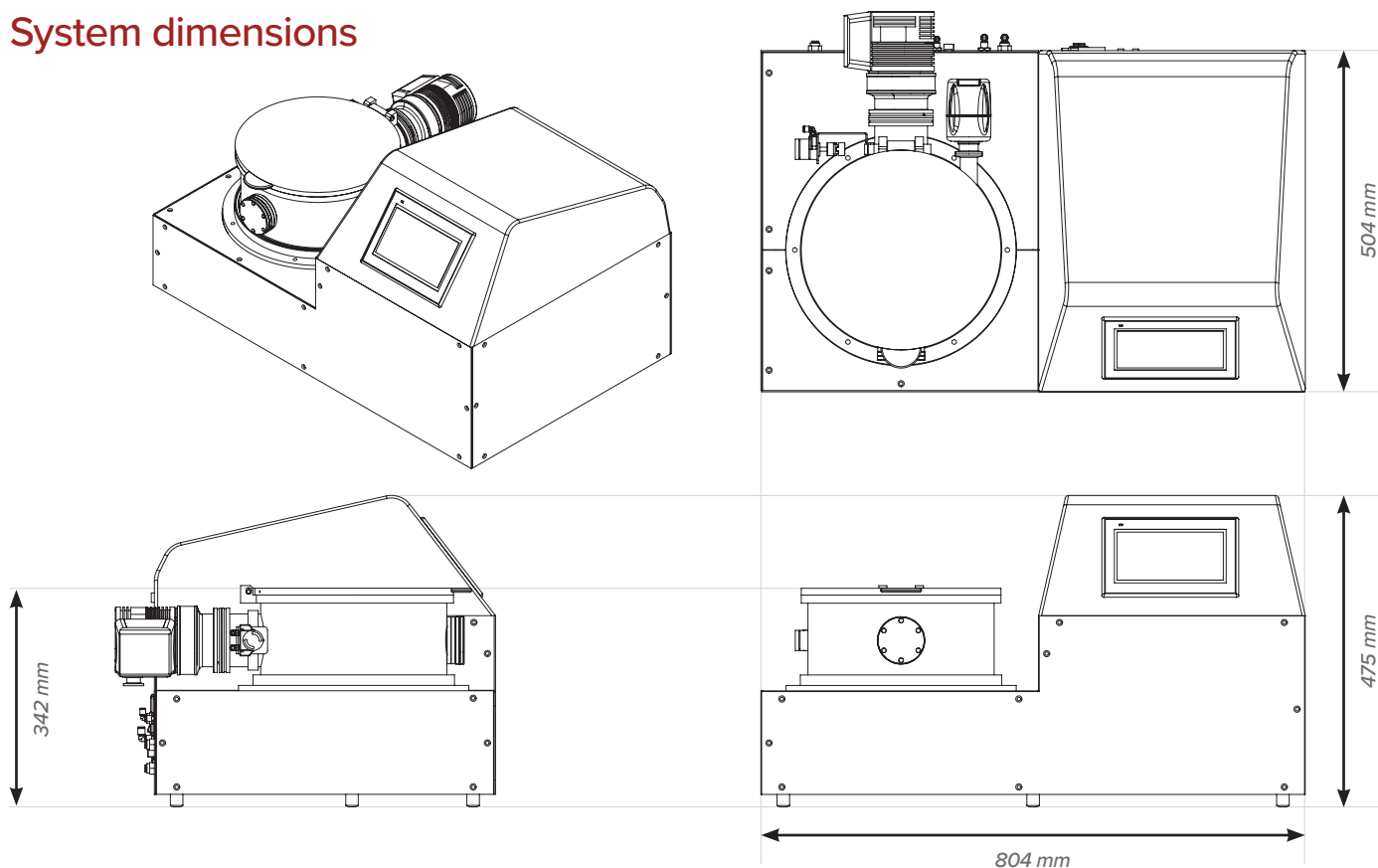


ANNEAL by Moorfield.

Tech specs

System dimensions



Technical specification

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

Requirements

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