



## ExploraVAC System Data Sheet

| Part Number                  | P1012095  | Space Simulation Vacuum Test System |
|------------------------------|---|-------------------------------------|
|                              |   | Comments/Notes                      |
| <b>System Platform</b>       | ExploraVac Base System                              |                                     |
| <b>Vacuum Chamber</b>        |   |                                     |
| Size                         | 24 x 24 x 24 in (61 x 61 x 61 cm)                   | Internal dimensions                 |
| Material                     | 304 stainless steel                                 | Welded chamber                      |
| Volume                       | 8 cu ft (226 L)                                     | Internal volume                     |
| <b>Vacuum Pumping</b>        |   |                                     |
| Rough Pump                   | Edwards nXDS20i                                     | Dry scroll pump                     |
| Roughing Speed               | 13.0 cfm (22.0 m <sup>3</sup> hr <sup>-1</sup> ) ** |                                     |
| Turbo Pump                   | Pfeiffer HiPace 300                                 |                                     |
| Turbo Speed                  | 300 L/s**   |                                     |
| <b>Vacuum Gauges</b>         |   |                                     |
| Gauge Models                 | Granville 358 Ion(1) + Convectron(2)                |                                     |
| Measurement Range            | 1x10 <sup>-9</sup> Torr to atmosphere               |                                     |
| <b>Control Interface</b>     | Integrated button panel                             | Illuminated tactile controls        |
| <b>System Pressure</b>       |   |                                     |
| Operating Pressure           | 1x10 <sup>-7</sup> Torr to 1 atmosphere             |                                     |
| Altitude Control             | N/A*  |                                     |
| <b>Thermal Platen</b>        |   |                                     |
| Temperature Range            | -70 °C to 400 °C                                    |                                     |
| Heating Power                | 5000 W  | Resistive heating                   |
| Cooling Power                | 600 W**   | Cascade refrigerated, closed loop   |
| <b>System Package</b>        |   |                                     |
| System Weight                | 1300 lbs (590 kg)                                   | Approximate dry weight              |
| System Size                  | 33 x 36 x 83 in (84 x 91 x 210 cm)                  |                                     |
| <b>Onboard Air Source</b>    | 150 psi regulated, 2 gallon capacity                | Power for pneumatic valves          |
| <b>System Power</b>          |   |                                     |
| Input Voltage                | 208-240 VAC w/neutral, single phase                 |                                     |
| Input Frequency              | 50-60 Hz  |                                     |
| Input Current                | 50 Amps (at max load)                               |                                     |
| Recommended Service          | 50 Amps, 220 Volts                                  |                                     |
| <b>Operating Environment</b> |   |                                     |
| Temperature                  | 50 °F to 86 °F (10 °C to 30 °C)                     | Ambient room temp                   |
| Humidity                     | 5% - 80%  |                                     |
| <b>Connections</b>           |   |                                     |
| 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.

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