



# PRODUCT DATA SHEET

## VmSD144-N



Above images represent typical design

THERMAL PLATFORM VACUUM CHAMBER USED FOR PRECISION TEST (TVAC System)

INCLUDES: Complete Turbo Cart with vacuum release valve and 5 User Ports

### DESCRIPTION

TVAC systems increase understanding of how components and materials respond in a Space Simulated Environments

### PRODUCT INFORMATION

|  |  |  |
|--|--|--|
| <b>Surface Dimensions / Area</b>         | 12 x 12 inch (30.5 x 30.5 cm)                  | 144 Sq. Inches (929 Sq.cm)                         |
| <b>Surface Material / Finish</b>         | 6061 Aluminum                                  | No Finish or coating                               |
| <b>External Dimensions / Max. Height</b> | Cart 30 x 28 x 30 Inches (L x W x H)           | With Bell Jar Approx. 49 Inches overall            |
| <b>Chassis Material / Finish</b>         | Steel Cart / Stainless Steel Chamber           | Powder Coat / Mechanically Polished                |
| <b>Approximate Weight</b>                | 385 lbs. (175 kg)                              | Packed with a <u>Synergy Nano</u> on Pallet        |
| <b>Ultimate Pressure</b>                 | 1x10 <sup>-6</sup> Torr                        | Pump Speed 290 Liters Per Second                   |
| <b>Temperature Range</b>                 | -65 to 175°C                                   | Extended Range and Hot Only available              |
| <b>Heating Rate</b>                      | 6 - 30 °C/Min Wattages Varies                  | Wattage can be specified                           |
| <b>Cooling Rate</b>                      | 8 - 30°C/Min                                   | Coolant can be specified                           |
| <b>Temperature Controller Options</b>    | <a href="#">Synergy Nano</a> Color Touchscreen | <a href="#">Watlow PM6</a> Alternate Economy Model |

### FACILITY REQUIREMENT

Power requirements may vary. Most common heater arrangement requires a dedicated 120 Volt 15 Amp circuit.

Coolant: Cryogenic gas suppliers in your area can supply either Nitrogen and Carbon Dioxide to your facility.

**High Pressure (HP) L-N2 75-125 psi is the Standard Coolant**

Low Pressure (LP) L-N2 Pressure below 30 PSI Available Upon Request for improved performance on bulk systems

High Pressure L-CO2 Pressure 900 PSI Available Upon Request recommended for infrequent cooling requirements

Low Pressure L-CO2 Pressure below 300 PSI Available Upon Request for improved performance on bulk systems or Dewars

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