

### PRODUCT DATA SHEET

# VmSD49-N





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

**Surface Dimensions / Area** 6.5 x .7.5 inch (16.5 x 19 cm) 49 Sq. Inches (315 Sq.cm)

Surface Material / Finish 6061 Aluminum No Finish or coating

External Dimensions / Max. Height Cart 30 x 28 x 30 Inches (L x W x H) With Bell Jar Approx. 49 Inches overall

Chassis Material / Finish Steel Cart / Stainless Steel Chamber Powder Coat / Mechanically Polished

Approximate Weight 350 lbs. (159kg) Packed with a **Synergy Nano** on Pallet

**Ultimate Pressure** 1x10-6 Torr Pump Speed 290 Liters Per Second

-65 to 175°C **Temperature Range** Extended Range and Hot Only available

**Heating Rate** 6 - 30 °C/Min Wattages Varies Wattage can be specified

**Cooling Rate** 8 - 30°C/Min Coolant can be specified

**Temperature Controller Options** Synergy Nano Color Touchscreen Watlow PM6 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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### **Space Simulation Options, Accessories & Replacement Parts**



Pyrex Bell Jar



Bell Jar Cage





Vacuum Rated Grease





Ultra High Vacuum CF Flanged Feed Thru with



6.5" x 7.5" Usable Surface

Sizes Available

There are Five Other



Greatly reduces the noise level of coolant being spent

14-0010 Super Quiet Muffler (SQM)

Comes with six feet of exhaust hose





Coolant Delivery Hoses For Use With Cryogenic Fluids Pressure Relief Valve for added safety



28-00101 Data logger with 16 Channel Type T Thermocouple Temperature Sensors

# **Temperature Controller Choices**

(A) Synergy Nano Benchtop Programmable Temperature Controller has a Color LCD touch screen Easy to use, easy to read with graphing capability, logging, multi sensor, multi conditional outputs, comm ready, GPIB Upgradeable and free drivers available

(B) Watlow PM6 is a very robust, economical temperature controller

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