

# STINGRAY VACUUM DRYER SPECIFICATIONS



## **Work Area:**

Work Diameter: Maximum 75 inches;  
Work Height: Maximum 84 inches;  
Vacuum chamber volumetric capacity: 240 cubic feet.

## **Heat:**

Radiant Electric strip heaters inside;  
Heat input to vacuum chamber: 30 kW;  
1-inch fiberglass insulation with 16 gage cold-roll steel skin.

## **Vacuum Pump:**

9.5 HP Busch Cobra NX Dry Screw, high vapor and particle tolerance;  
COBRA NX dry screw vacuum pumps feature dry compression, a specially developed screw profile, and unimpeded gas discharge.  
Flow rate: 247 CFM minimum;  
Lowest pressure attainable: Less than 0.1 Torr;  
Sound Level (ISO 2151): 70 Dba.

## **Construction:**

3/8" Thick wall Carbon Steel pressure vessel;  
Minimum Factor of Safety of 15 on Yield steel stress;  
Flanged cylindrical chamber with mating flanged lid;  
O-ring seal in machined groove in cylinder flange;  
Concave lid and bottom with grill near bottom for part load;  
Hinged hydraulic actuated lid with speed controls and actuating solenoid valve.

## **Controls:**

Main operator panel shall include:  
Push button station for lid open/closed;  
Thermocouple with digital temperature indication;  
Vacuum pressure measurement: with digital readout;  
Differential pressure switch to determine proper lid opening time.

## **Safety:**

Over-center lid open position;  
Lid allowed to open only if inside pressure is at atmospheric;  
Support structure designed with a factor of safety of 3 to 1 normal capacity Electrical system to ANSI/NFPA 79 latest issue;  
Disconnect on electrical panel.

## **Finish:**

External surfaces: 2- part epoxy finish 2 coats 3 mil minimum thickness;  
Insulated areas rust resistant primed prior to insulation installation.

## **Performance:**

Processing sequence reduces drying time to 45 minutes max;  
Vacuum shall pulse between high & low pressures ;  
Progressively lower pressures;  
Dry air is used a replenishment for excavated air for each progression.

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