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.