

1. GENERAL SPECIFICATIONS

1.1. The unit shall be manufactured with quality, durability, and professionalism.

1.1.1. The unit shall be designed to be functional and look distinctive.

1.2. The unit will have the capability for many versatile uses of drying.

1.2.1. The unit shall have the capability to safely dry up to a 5" diameter hose with couplings attached.

1.2.2. The unit will also be able to safely dry turnout gear.

1.3. The unit shall have the capabilities to dry:

1.3.1. 10 - 1 1/2" or smaller hoses.

1.3.2. 10 - 2 1/2" hose

1.3.3. 8 - 3" hose

1.3.4. 8 - 5" hose

1.3.5. 4 full sets of Turnout Gear

1.4. The unit shall be designed to dry fire hose in 10 hours or less and Turnout Gear in 3 hours or less.

1.5. The unit shall be designed to have many years of useful service (with replacement parts).

1.6. The following Dryer configuration choices are available to the customer:

1.6.1. Series 100, D612 (240 VOLT - 1PH - 60HZ, 6000 WATTS)

1.6.2. Series 100, D613 (208 VOLT - 1PH - 60HZ, 6000 WATTS)

1.6.3. Series 100, D633 (240 VOLT - 3PH - 60HZ, 6000 WATTS)

1.6.4. Series 100, D634 (208 VOLT - 3PH - 60HZ, 6000 WATTS)

1.7. Unit shall be shipped with an Operation & Maintenance Manual complete with:

1.7.1. Exploded view of the unit, all parts labeled with name and part number.

1.7.2. Adequate safety procedure shall be part of the assembly and operating instructions.

1.7.3. Unit shall be shipped with comprehensive assembly and operating instructions.

1.7.4. The unit shall be completely factory assembled and tested before being crated for shipment.

MATERIALS AND CONSTRUCTION

2. Main Frame Assembly

2.1. The main frame uprights to be constructed of four 1 3/4" high x 2 1/4" wide channel iron made of a minimum 12 gauge steel.

2.2. The top and bottom to be constructed of 1 3/4" angle iron made of a minimum 12 gauge steel.

2.3. The shelf runners and shelf stops are to be constructed of a minimum 12 gauge steel.

2.4. The assembly is to be electrically welded to provide maximum strength.

2.5. Welded into the base, the floor is to be a minimum 12 gauge galvanized sheet of steel.

2.6. The feet are to be made of a minimum 10 gauge steel and welded to the corner gussets.

2.7. The leveling bolt is to be attached to a 3" x 3" iron that is to be welded to the feet at the bottom.

2.8. The corner gussets are to be of a minimum 8 gauge steel and welded to the bottom four corners of the main frame assembly.

2.9. The assembly unit is to be painted gray in color after welding.

3. Side and Back Walls

3.1. The back wall panel is to be of single wall construction of a

minimum 20 gauge steel, bent on the top, and is to be insulated with foil back fiberglass insulation.

3.2. The two side wall panels are to be of single wall construction of a minimum 20 gauge steel, bent in the front, back, and top, to wrap around the frame assembly. It is to be mechanically fastened to the frame, and to be insulated with foil back fiberglass insulation.

3.3. All these parts are to be painted gray.

4. Doors

4.1. The doors to be double wall construction of a minimum 20 gauge steel.

4.2. The doors to be hinged by a pin in both the top and bottom outside corners so doors can open if placed flush against the wall.

4.3. Doors to be painted gray and insulated.

5. Cabinet Top Assembly

5.1. The top panel to be single wall construction of a minimum 20 gauge steel and attached to the front and rear panels by means of mechanical fasteners.

5.2. The front panel to be single wall construction of a minimum 20 gauge steel formed into the finished design and attached to the top panel by means of mechanical fasteners.

5.3. The rear panel to be single wall construction of a minimum 20 gauge steel and attached to the top panel by means of mechanical fasteners.

5.4. Parts to be painted gray in color.

6. Fan Guard

6.1. The fan guard to be made of one piece of 16 gauge galvanized metal punched with 2.50 x 0.50 oblong round holes for air movement

and attached to the cabinet top with tech screws or rivets.

6.2. The bottom panel of the fan guard will have a 14" x 14" access opening with a removable cover for getting access to the fan motor.

6.3. Attached to the fan guard is to be two rods for hanging turnout gear from for drying in the dryer cabinet.

7. Shelf Racks

7.1. The shelf racks to be made so they are durable and unbending under the weight of the hose.

7.2. The shelf racks to be removable and adjustable for any hose size up to 5" in diameter.

8. Heater

8.1. The heater strips to be mounted to the back of the unit and consist of 6 - 1000 watt 240 volt heater elements.

8.2. The heater to be designed to dry at 15 to 25 degrees above the ambient air outside of the unit when empty.

8.3. The heater elements to be mounted to the heater strip mounting brackets. The mounting brackets are made of a minimum 10 gauge galvanized steel.

8.4. The heater chute to be made of a minimum 20 gauge galvanized steel. It will direct the flow across the heater elements and into the back of the dryer at the bottom.

8.5. The heater parts to be unpainted.

9. Air Floor Plenum

9.1. The air floor plenum to be constructed of a minimum 16 gauge galvanized steel and formed to sit 3" off the floor of the unit.

9.2. The air floor plenum to be designed with holes in the top. This will disperse the air that comes in through the heater chute across

the base of the dryer, to keep an even flow throughout the dryer.

9.3. This part to be unpainted.

10. Blower

10.1. The blower is to consist of a motor with a direct drive fan blade to be bolted onto the fan frame. To be welded to the cabinet top assembly.

10.2. The blower to be designed to pull the air through the heater chute. To be mounted on back, and into the bottom of dryer, and out the top of the unit.

11. Electrical Controls

11.1. The controls used for operating the dryer are to be mounted on the front top panel above the doors.

11.2. The control panel measures 5 1/2" x 12" and is to be made of metal with a decal label covering the circuit board.

11.3. The control panel will display both a count down timer and the temperature in the drying cabinet.

11.4. The control panel is intended to sense, display and control temperature and time around selected set points.

11.5. Temperature sensing will be by means of a 10k thermistor in a stainless steel, closes end tube.

11.6. With the push of the selected push button you can set the timer for drying fire hose or turnout gear.

11.7. Three LED indicators will be employed on the front panel.

11.7.1. Green Led - indicates when power is ON.

11.7.2. Yellow Led - indicates Fan only operation, no heat.

11.7.3. Red Led - indicates Fan and Heat are ON.

11.8. The main electrical panel is to be mounted to the back of the unit and the end users main power supply is to be connected into this junction box.