CHAMPION
A Gardner Denver Product

Champion Compressor Specification To Meet NFPA-99 V&W Series

1. **Medical Air Compressors:** The compressor shall be manufactured by Champion Pneumatic. Compressor shall be a totally Oil-Less with no oil required for the operation of the unit. The cylinders shall be cast iron, nickel-plated, hardened, and polished, to resist wear and corrosion. The pistons shall be designed with a thermal heat barrier on top to reduce temperatures for continuous operation with no maintenance lubrication of the wrist pin bearings required. The piston shall move on alloyed heat-resistant filled PTFE guide rings and compression rings, including one step-joint compression ring with spring, two additional compression rings, and two guide rings with o-ring buffers to prevent premature wear. The crankshaft shall be supported by two bearings, permanently lubricated and sealed with synthetic lubricants; the crankshaft shall be cantilevered design with one counterweight on each side of the throw. There shall be no gaskets containing asbestos materials. Each compressor shall have a solenoid unloader to reduce starting torque. The compressors shall be rated for continuous operation, 100% duty cycle.

2. **Champion Model Number** 25TD15WTS55 **Rated For** 113 **CFM @** 100 **PSIG/Pump**

- ☒ Single Stage
- ☐ Two Stage
- ☐ Triplex
- ☒ Duplex
- ☐ Quadraplex

- ☐ Tank Mounted
  - ☐ Horizontal 120 Gallon
  - ☒ Horizontal 240 Gallon
- ☐ Base Mounted
  - ☐ Vertical 120 Gallon
  - ☐ Vertical 240 Gallon
- ☐ Skid Mounted
  - ☐ Vertical 120 Gallon
  - ☐ Vertical 240 Gallon
- ☐ Special
  - ☐ _____
  - ☐ _____

3. **Standard Components:** Each compressor shall include as standard, OSHA approved belt guard, multi-bladed cooling fan (finned flywheel not acceptable), internal spring isolation base, in-line check valve, ASME pressure relief valve in discharge line, elapsed hour meter, copper/brass intake manifold isolation valve, discharge line isolation valve, flexible intake connector and flexible discharge connector.

   a. **Warranty:**

      10,000 hours / 3 years on piston rings, guides, and drive bearings
      20,000 hours / 3 years on crankshaft bearings
      5,000 hours / 1 year on reed valves
      Entire package covered for one year from start-up or 18 months from date of shipment.

4. **Motors:** Electric motor shall be an 1800 RPM, Open Drip-Proof motor.
   - ☒ 15 **Horsepower Each**
   - ☐ 208/3/60
   - ☐ 230/3/60
   - ☒ 460/3/60
   - ☐ TEFC 1.15 SF
   - ☐ High Efficiency

5. **Aftercoolers:** Each compressor shall be equipped with an aftercooler capable of reducing outlet air to within 20ºF of ambient and include moisture separator trap with automatic drain.
   - ☒ Air Cooled
   - ☐ Water Cooled (Includes Solenoid)

6. **Connections:** Each compressor shall be equipped with 4 micron intake filter/silencer with remote plumbing opening, copper/brass intake manifold, intake isolation valve, discharge isolation valve, flexible intake connector and flexible discharge connector.

7. **Receiver Tank:** Tank shall be an ASME coded air receiver rated for MAWP of 200 PSIG and shall be equipped with pressure gauge and pressure relief valve.
   - ☐ Automatic Tank Drain
     - ☒ Electric Drain, 115/1/60
   - ☐ Liquid Sight Glass
   - ☐ 3-Valve Bypass
   - ☐ 5 Mil Vinyl Lining

8. **Controls:** Compressors shall operate in an automatic Lead/Lag arrangement.
   - ☒ Duplex
   - ☐ Quadraplex
   - ☐ Automatic Start/Stop
   - ☒ Dual Control (Start/Stop and Constant Speed)
   - ☐ NEMA 12

9. **Control Panel:**
   - ☒ Mounted
   - ☐ Unmounted

Control Panel shall include the following minimum equipment to meet the NFPA 99 requirements for Medical Air Systems:

- UL Listed rugged steel enclosure per NEMA rating
- Fusible disconnect/switches
- Magnetic contactors with Overload relay protection and door mounted reset
- Control circuit transformers with fused primary and secondary, and Flip-Flop relay
- Amber power/on lights
- Amber transformer failure light
- Automatic alternator
- TEST-OFF-AUTO selector switches, spring return from TEST to OFF
- Compressor selector switch
- Elapsed time meters
- Green compressor run pilot lights
- Red high temperature shutdown lights
- Door mounted High Temperature switch reset
- Green Lag Unit Run Pilot Light
- Start-up Timer (Lag unit)
- Alarm Horn with Silencer button (High Temperature and Lag Unit Run)
- Control wire terminal block
- Remote contacts
- Meets NFPA 99 requirements