



Champion Bid Specification
Two-Stage Lubricated
Advantage 5 HP - 25 HP Reciprocating Compressor

GENERAL

The air compressor shall be of the reciprocating piston type, oil lubricated and air cooled. The compressor capacity shall be _____ ACFM at a full load discharge pressure of 175 PSIG. Capacity is the actual ACFM at inlet conditions, delivered at the final discharge of the compressor package. The package to be fully equipped and completely assembled and factory tested under full load conditions.

COMPRESSOR PUMP

Two-stage, reciprocating design. The compressor pump shall be a splash lubricated type. Units must have gasket-free integral cylinder and head to decrease the chance of leakage, aluminum alloy domed first stage piston, cast iron domed second stage piston, two compression rings, one oil ring, disc intake and exhaust valves, fan-bladed flywheel, finned intercooler with pressure relief valve and tapered roller main bearings that support both ends of crankshaft and centrifugal unloader for loadless starts.

MOTOR

Horsepower Shall be ___HP at 1800 RPM, Open Drip-Proof motor . Motor to be 60 Hertz, _____VOLTS with full voltage motor starter. Shall be specifically matched to the horsepower characteristics of the compressor. Motor to be suitable for full voltage starting.

STARTER

Shall be applicable for full voltage starts. Enclosure to be NEMA 1 . Control voltage 120 volts

DRIVE ASSEMBLY

Motor to be connected to the compressor by V-belt. Motor and compressor are to be mounted to rigid steel base using elastomer vibration isolators between legs & floor. The correct belt tension will be achieved with an easily adjustable, motor sliding on top plate.

COMPRESSOR CONTROL SYSTEM

To be start / stop 5 hp--7.5 hp -10 hp & dual control 15 hp -25 hp. Start / stop or constant run

SHUTDOWNS

Protective shutdowns for:

- High temperature fault shutdown (Optional)
- Low oil level shutdown
- High current draw

RECEIVER TANK

Tank shall be an ASME coded air receiver rated for MAWP of 200 PSIG and shall be equipped with pressure gauge and ASME pressure relief valve.

INLET FILTERS

Each compressor shall be equipped with 5 micron intake filters / silencers.

ISOLATOR

Each tank leg shall set on one vibration isolator pad & be lagged to floor.
Reduces tank stress-vibration & tank noise.

LUBRICATION

Compressor to be filled with Champ-Lub mineral based lubricant. Must us durring break-in period app 200 hours run time before changing to Champ-lub synthetic based lubricant.

AFTERCOOLER

Air-cooled aftercooler shall be industrial grade mounted on belt guard to utilize cooling air from the flywheel to cool discharged compressed air to help condense moisture in the air..

TANK DRAIN

Tank drain shall be the electronic timed type. Adjustable on & off times. Drain assemble has built in y-strainer & ball valve for easy of checking & performing maintance.