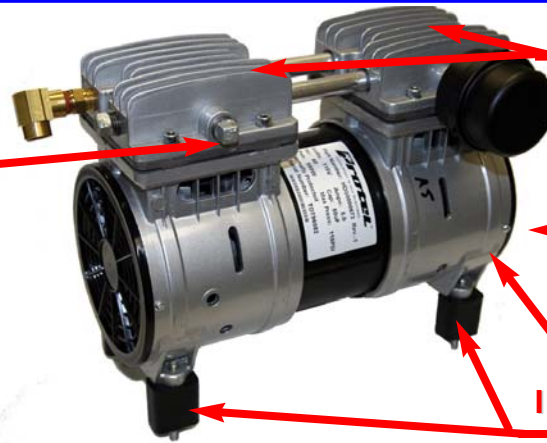


Protel's Dual Cylinder 3/4 hp 120 VAC Compressor

Protel's Cool Run 3/4 hp Compressor

ASY0000332
HDS0000673

4 Input Ports
4 Output Ports
with 1/4" Female NPT
Fittings



Dual Head Cylinders

Air Filter

Cool Run
Long Life Operation

Quiet Vibrate Free
Operation

Includes 4 rubber feet

Compressor kit
ASY0000332 includes:
* Starting Capacitor
* Air Filter
* Bleeder/Unloader Valve
* Check Valve
* Regulator Valve
* Brass Air-Output Coupling
* 4-Rubber Feet
* All Mounting Hardware

Compressor (**HDS0000673**) can be Purchased Separately without Accessory Hardware. Compressor HDS0000673 includes Starting Capacitor

Motor / Compressor Specifications:

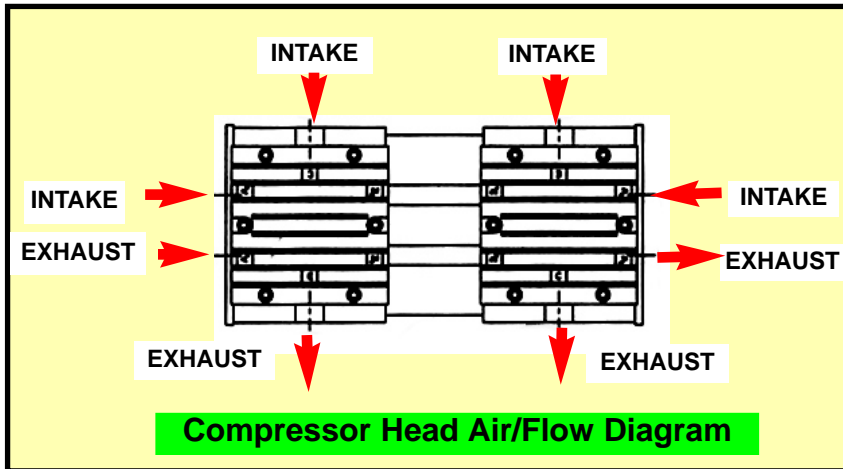
- * Twin Cylinder, Low Noise, Oil-Less Compressor
- * Maximum Pressure 115 psi
- * Noise level: Low
- * Power: 3/4hp (550w), 120VAC @ 4.5 Amps, 60Hz, Thermally Protected
- * Start Capacitor: 50 uF
- * Dimensions: 10.5" long x 5.75" wide x 8" high
- * 4 - Rubber mounted feet included
- * Reduces Out-of Service down time due to the following:
 - 1) Breaker tripping caused by LRA (Locked Rotor Amperage)
 - 2) Cold Weather freeze-up caused by moisture in cylinder head
 - 3) Breaker tripping caused by high head pressure compressor start-ups

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Protel's Dual Cylinder Compressor Comparison Sheet



Compressor Head Design

Equipped with eight (8) Input/Output ports tapped with 1/4" female NPT threads

- * **4- Air Intake ports** allow for maximum compressor cooling, lower temperatures extends compressor life
- * **4 - Exhaust ports** accommodate flexibility in compressor mounting
- * **Dual Pistons/Heads** reduces compressor load allowing for smaller drive motor and reduced electrical load

Single Compressor Action

Pulsed uneven air flow (50% duty Cycle). Compression & Motor Load occurs only on the half cycle. The results are:

- 1) Requirement for large heavy weight piston
 - 2) Requirement for motors with double the Hp rating compared to a Dual Piston machine
- * The larger piston size increases machine vibration
 - * A single piston action compressor has no counter piston offset thrust to balance the piston inertia. The increased vibration can lead to premature component failures and higher levels of noise
 - * Many single cylinder compressors are subjected to LRA (Lock Rotor Amperage) resulting in tripped circuit breaker leading to costly service calls. LRA Currents can exceed 40 Amps

Protel's Dual Compressor Design

Constant Air Output (100% Duty Cycle).

With Dual Piston compressors the pistons share the compressor load. The results are:

- * Operates with smaller and lighter weight pistons
- * Can operate on 1/2 the motor size (4.5 Amps, not 14 Amps)
- * Smaller pistons reduce vibration
- * Piston action is balanced. As one piston goes up the other one goes down cancelling thrust and vibration
- * Reduced piston size also reduces start-up current surges.
- * There is no LRA factor (Locked Rotor Amperage) with this compressor, therefore eliminates LRA Circuit Breaker Trips
- * Protel's compressor will allow both the Air Compressor and most Air Vacuum motors to operate from a single 20 Amp Circuit Breaker, therefore reducing installation and operating costs
- * Cooler operating temperature exponentially extends Motor / Compressor life

Additional Features

* **Check Valve**

- * Assures Air Flow in one direction only. Prevents:
 - a Air from air-hose returning to compressor,
 - b Moisture from air-hose and/or from tire returning to compressor cylinder heads. This lessens the chance that the compressor will freeze up when operating in cold temperatures.
 - c Gunk in tire i.e.flat tire chemicals from gumming or corroding cylinder head.

* **Regulator Valve** provides adjustable maximum Air Pressure Setting. Factory set to 95 lbs.

* **Bleeder / Unloader Valve** allows compressor to start under 0 pressure load

* **Air Filter** with replaceable paper air filter.