

Rotary Screw Compressors

PS 1300 SERIES - DIRECT DRIVE

THE AIREND UNIT HAS A HIGH YIELD AND IS DESIGNED TO WORK FOR A LONG TIME

It is composed by two rotors with 5/6 (male/female) lobes combination with asymmetrical profiles. The forged steel rotors are cut using machines with numerical control and are fitted on roller and ball bearings which support their radial loads and axial thrust. The compression takes place in a single stage. The compression heat is eliminated by the oil injected between the two rotors.

ELECTRIC MOTOR

Totally enclosed with forced ventilation, protection IP 55 class F with temperature rise in class B. Chosen to guarantee maximum reliability in the hardest working conditions, together with the lowest running cost.

AIR-OIL COOLING UNIT

With a large radiating surface, to reduce pressure drop and allow the maximum value of the unit.

AXIAL ELECTRIC FAN

With high static pressure.

HIGH EFFICIENCY CARTRIDGE OIL FILTER

Complete with by-pass.

PRE-FILTER IN SYNTHETIC FIBRE

For protection against impurities in the intake air.

THREE-STAGE AIR-OIL SEPARATOR

(Mechanical coalescing and filtration) with spin-off cartridge. CRN approved for Canada.

TANK MOUNTED (optional)

PS 1300 Series models may be tank mounted on a 80 or 120gal. ASME approved air receivers. CRN approved for Canada. (ie. PS-1307-10 on a 80gal. air receiver becomes model number PS-1307-10-80T)

DRYER (optional)

With cooling cycle, designed to work in the hardest conditions. The dimensions of the heat exchangers have been calculated to withstand high temperatures and humidity of the compressed air. The system is complete with condensate discharge with eliminates air loss in the discharge phase. Also complete with prefilter, bypass and 80 or 120gal. air receiver. (ie. PS-1307-10 on a 120gal. air receiver becomes PS-1307-10-120TD)

HIGH PERFORMANCE AND SILENT DRIVE SYSTEM

The compressor element is driven directly by the electric motor by means of a couple of helical gears. This drive system guarantees perfect alignment of the screw-motor unit along with silent operation, lasting reliability and lower consumption. The performances are increased if compared to compressors equipped with the conventional belt transmission.

EPS4.2 ELECTRONIC CONTROLLER

is an advanced electronic controller. It allows optimum compressor regulation. The system also allows a sequential network up to six compressors. EPS 4.2 is equipped with an alphanumeric LCD display for showing the functions, the maintenance and the instructions for machine reset, together with the programming of the work parameters. It is also equipped with a date clock and weekly timer for displaying the time and the date, together with the daily programming of the machine start. The system can be remote-controlled with a serial interface connecting to a terminal. The EPS4.2 controller display the presence of malfunctioning alarm and the expiration of maintenance intervals.



PS 1300



PS 1300 with optional air receiver

OMEGA
POWER SYSTEM

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Specifications

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| Model | Max Pressure | | F.A.D. | | Power | | Noise lev. dB(A) |
|------------|--------------|-------------|--------|-----|-------|----|---------------------|
| | bar max | Psig max | m3/min | CFM | kW | Hp | |
| PS 1307-10 | 10 | 145 | 0.98 | 35 | 7.5 | 10 | 64 |
| PS 1311-10 | 10 | 145 | 1.53 | 54 | 11 | 15 | 64 |
| PS 1315-10 | 10 | 145 | 1.92 | 68 | 15 | 20 | 65 |

| Compressor | Weight | | Dimensions LxWxH |
|------------|--------|-----|---------------------|
| | kg | lbs | |
| PS 1307 | 210 | 463 | 1160x597x1034 |
| PS 1311 | 230 | 507 | 1160x597x1034 |
| PS 1315 | 240 | 529 | 1160x597x1034 |

The air flow rates have been measured at the following working pressure.
9.5 bar for mod. 10 bar

The data and performances were recorded in accordance with standard ISO 1217. The sound level was measured in accordance with PNEURO/ CAGI standards.

Notes:

- All models are CSA approved.
- All models complete with CRN approval.
- All models factory tested prior to shipment.
- All dimensional data in millimetres.

