

# Rotary Screw Compressors

## PS 1500 - 2000 SERIES DIRECT DRIVE

### A TOTALLY NEW DIRECT DRIVEN COMPRESSOR SERIES

The direct transmission allows a perfect alignment of the airend to the motor for high dependability and performances.



#### TRANSMISSION

The airend-motor coupling is obtained by means of a gear box designed and manufactured by OMEGA POWER SYSTEM. If compared to conventional belt driven screw compressors, the new PS 1500 and 2000 series compressors reach a 5% energy saving. As a further advantage, this kind of transmission eliminates the service operations necessary to tighten and replace the belts

#### THE AIREND IS HIGH EFFICIENT AND IS DESIGNED FOR LONG LIFE OPERATION

Single stage oil-injected double screw compressor, composed by a 5/6 profile 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. It guarantees the highest 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. Air and oil gets cooled by means of an electric fan.

#### AXIAL ELECTRIC FAN

With high static pressure.

#### OIL FILTER CARTRIDGE

Complete with by-pass.

#### THREE-STAGE AIR-OIL SEPARATOR

(Mechanical coalescing and filtration) with spin-off cartridge. The separation takes place in three stages:

1. Centrifugation
2. Condensation
3. Oil separation by means of a multistage oil-separating filter

#### HIGH EFFICIENT CONDENSATE SEPARATOR

It is designed to detect and separate water from oil and is completed by a timed electronic discharge, designed to reduce to a minimum.

#### PRE-FILTER IN SYNTHETIC FIBRE

For protection against impurities in the intake air.

#### EPS 4.2 CONTROL PANEL

EPS 4.2 is an advanced electronic controller. It allows optimum compressor regulation. The system also allows a sequential network of 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.

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PS 1522



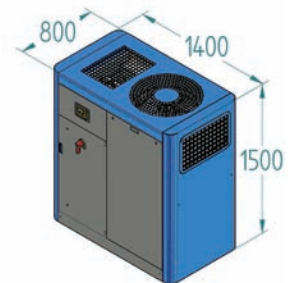
PS 2030

### Specifications

Model	Max Pressure		F.A.D.		Power		Noise lev. dB(A)	Weight	
	bar max	Psig max	m3/min	CFM	kW	Hp		kg	lbs
PS 1518-7.5	7.5	109	2.92	103.1	18.5	25	69	375	827
PS 1518-10	10	145	2.60	91.8	18.5	25	69	375	827
PS 1518-13	13	175	2.10	74.2	18.5	25	69	375	827
PS 1522-7.5	7.5	109	3.60	127.1	22	30	69	375	827
PS 1522-10	10	145	3.10	109.5	22	30	69	375	827
PS 1522-13	13	175	2.60	91.8	22	30	69	375	827



Model	Max Pressure		F.A.D.		Power		Noise lev. dB(A)	Weight	
	bar max	Psig max	m3/min	CFM	kW	Hp		kg	lbs
PS 2030-7.5	7.5	109	4.80	169.5	30	40	69	605	1,334
PS 2030-10	10	145	4.30	151.9	30	40	69	605	1,334
PS 2030-13	13	175	3.60	127.1	30	40	69	605	1,334
PS 2037-7.5	7.5	109	5.80	204.8	37	50	69	625	1,378
PS 2037-10	10	145	5.25	185.4	37	50	69	625	1,378
PS 2037-13	13	175	4.50	158.9	37	50	69	625	1,378



The air flow rates have been measured at the following working pressures:  
7 bar for mod. 7.5 bar - 9.5 bar for mod. 10 bar - 12.5 bar for mod. 13 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 approved for Canada.

All models factory tested prior to shipment.

All dimensional data in millimetres.

**OMEGA**  
POWER SYSTEM