



PASCAL
MODULAR BELT-DRIVEN
ROTARY SCREW
COMPRESSORS



**POWER
SYSTEM**
AIR COMPRESSORS

from 2.2 to 15 kW
from 8 to 13 bar

PASCAL

Belt-driven rotary screw compressors

A true modular compressor

The integration of the fundamental components of a compressed air system (screw compressor, dryer, controller and air-receiver) into a single modular device, provides an extremely compact space saving solution, with numerous significant advantages:

- Drastically reduced installation time and cost;
- High quality of compressed air;
- A fully automatic, self monitoring and complete system;
- Excellent access for simple maintenance to the filters, refrigerated dryer and other components;
- Dry air receiver providing a constant flow of high quality compressed air and reduced corrosion;
- Low operating costs;
- Automatic condensate discharge operated and adjusted from the dryer controller.



REFRIGERATION AIR DRYER

The PASCAL range is available with an air treatment module (DF models) including a high performance refrigerating air dryer.

This allows the compressor in the DF version to provide both dry and clean compressed air to quality standard classification Class 4 for humidity, in accordance with ISO 8573-1.



A FLEXIBLE RANGE MATCHING YOUR PRECISE REQUIREMENTS

From 2.2 to 15 kW as floor mounted models, or with dryer, or air receiver mounted (270/500 ltr. from 2.2 to 7.5 kW and 500 ltr. from 11 to 15 kW), or complete with dryer and tank. Pressure range at 8 - 10 and 13 bar (13 bar from 7.5 kW).



PREMIUM EFFICIENCY IE3 MOTORS

High efficiency IE3 motors are fitted as standard.



UNBEATABLE FEATURES

- OUR OWN AIR ENDS
- OUR OWN CONTROLLERS
- OUR OWN AIR IN-TAKE VALVES



ADVANTAGES

- NOW FEATURING our DNAir controllers standard across the range!
- Modular air compressors.
- Complete range from 2.2 to 15 kW.
- Pressure range at 8 , 10 and 13 bar (13 bar from 7.5 kW)
- Compact and modern design.
- Advanced cooling system.
- Poly-V belt-drive system.
- Simple installation and maintenance.
- High quality compressed air.
- Long life and maximum reliability.
- Extremely quiet operation.
- Designed for continuous use.
- Reduced energy consumption.



■ LOW NOISE LEVEL

The centrifugal fan design along with the careful arrangement of all other components within the machine added to extensive sound insulation results in the PASCAL, offering very low operating noise levels.

■ EASE OF ACCESS TO ALL COMPONENTS

All main components can be readily accessed from the large front access door. This allows convenient inspection with fast and simple maintenance.

■ COMPACT, SPACE SAVING DESIGN

The compact design is ideal for installation when space is restricted or in situations when the compressor needs to be installed near the production activity.



Intelligent controllers

The advanced controllers fitted to the PASCAL range have been specifically developed to guarantee optimum monitoring and regulation of the compressor's operation, allowing flexibility and full programming of the complete compressed air station for maximum efficiency and safety.



DNAir2 Electronic Controller (installed on models from 11 to 15 kW)

The user-friendly interface consists of a large backlit LCD display, with simple and clearly understood icons. All commands and functions are accessed easily using multilingual drop-down menus.

The main screen display indicates:

- operating pressures;
- oil temperature;
- compressor status (stand-by, un-loaded, loaded);
- fan status (off/on);
- date and time;
- remaining hours for maintenance;
- visual indicator of the dryer's dew point (integrated dryer versions).

SMS Device (Service Management System)

SMS is an innovative new device that allows operators and service centres the possibility to remotely control and perform preventive maintenance checks on screw compressors equipped with a DNAir2 controller. These facilities are provided when the device is configured for local internet network via Wi-Fi or Ethernet connectivity. The SMS system allows for e-mails to be sent automatically in the case of a fault or other anomalies and/or for automatic regular e-mails (hourly, daily or weekly) to be sent to monitor the proper operation of the compressor and to define the remaining hours for service. Other Information and settings can be accessed remotely aimed at safeguarding the reliability of the system.

Compressor rotation management

It is possible for up to 4 compressors to be connected simultaneously.

The controller software provides the ability to balance each machine's operating hours and at the same time the pre-set pressure values are rotated along with the machine sequence.



DNAir1 Electronic Controller (installed on models from 2.2 to 7.5 kW)

The complete functioning of the compressor is precisely monitored by the advanced DNAir1 controller. This highly developed system allows the machine's operation to be fully programmed in several languages and also allows remote on-off, access to the maintenance schedule, etc.

The backlight display shows: working pressure, working/load hours, load/idle running, oil temperature.

The controller stores a fault log for easier troubleshooting.

A single start/stop command is easily accessible.

It includes a phase sequence relay to check motor direction of rotation.



PASCAL

Belt-driven rotary screw compressors

Our own design and production

Compact, heavy duty, quiet and highly reliable belt driven rotary screw compressor, available in different versions to satisfy all the requirements.

The PASCAL Series comprises a comprehensive range of premium quality rotary screw air compressors from 2.2 kW to 15 kW. Each model is constructed to the highest standard using the best quality components in order to ensure a long life and total reliability.

The design of the PASCAL series benefits from years of experience in the production of innovative high quality air compressors where attention to detail and quality are at the highest level. All the components are produced and assembled in our Italian production plant.



OUR OWN INTAKE REGULATOR

Normally open electro-pneumatic system: adjusts the compressor operation to guarantee minimum pressure when idle running and maximum saving upon start-up. All this translates into an optimal energy cost/air delivery ratio.



SEPARATED COOLING SYSTEM

The centrifugal fan is activated automatically by the thermostatic control through the DNAir controller. This allows the machine to quickly reach and precisely maintain the ideal operating temperature.



THERMOSTATIC VALVE

The thermostatic valve regulates the oil temperature, preventing the formation of condensate inside the oil-separator vessel.



BELT-DRIVEN TRANSMISSION

The POLY-V belt-drive ensures significantly lower power losses and three times the service life compared to standard range "V" type belts fitted to other compressors on the market. Belt tensioning is carried out through a slider system.



PS 26 and PS 14 AIR-ENDS

Our high performance and extremely reliable air-ends are entirely designed and produced in our Italian facilities.





PASCAL 11 - 15 kW

▲ PASCAL 11-10

▲ PASCAL 11-10 DF

▲ PASCAL 11-10-270 DF

▲ PASCAL 15-10-500 DF

| Model | Code | Tank | Power | | Air delivered | | | Max. Pressure | | Sound level dB(A) | Connection G | Net Weights | | Net Dimensions L x W x H (cm) |
|--------------------------------------|---------------|------|-------|----|---------------|------|------|---------------|--------|----------------------|-----------------|-------------|------|-------------------------------------|
| | | lt | kW | HP | m³/min. | m³/h | CFM | bar | p.s.i. | | | Kg | Lbs | |
| FLOOR MOUNTED | | | | | | | | | | | | | | |
| PASCAL 11-08 | V60TM92PWS280 | – | 11 | 15 | 1.65 | 99 | 58.2 | 8 | 116 | 69 | 3/4" | 228 | 503 | 104 x 70 x 100 |
| PASCAL 11-10 | V60TX92PWS280 | – | 11 | 15 | 1.50 | 90 | 53 | 10 | 145 | 69 | 3/4" | 228 | 503 | 104 x 70 x 100 |
| PASCAL 11-13 | V60TN92PWS280 | – | 11 | 15 | 1.15 | 69 | 40.6 | 13 | 188 | 69 | 3/4" | 228 | 503 | 104 x 70 x 100 |
| PASCAL 15-08 | V60TY92PWS280 | – | 15 | 20 | 2.15 | 129 | 75.9 | 8 | 116 | 70 | 3/4" | 238 | 525 | 104 x 70 x 100 |
| PASCAL 15-10 | V60TZ92PWS280 | – | 15 | 20 | 1.85 | 111 | 65.3 | 10 | 145 | 70 | 3/4" | 238 | 525 | 104 x 70 x 100 |
| PASCAL 15-13 | V60TP92PWS280 | – | 15 | 20 | 1.55 | 93 | 54.7 | 13 | 188 | 70 | 3/4" | 238 | 525 | 104 x 70 x 100 |
| FLOOR MOUNTED WITH DRYER (DF) | | | | | | | | | | | | | | |
| PASCAL 11-08 DF | V60TM92PWS380 | – | 11 | 15 | 1.65 | 99 | 58.2 | 8 | 116 | 69 | 3/4" | 280 | 617 | 140 x 70 x 100 |
| PASCAL 11-10 DF | V60TX92PWS380 | – | 11 | 15 | 1.50 | 90 | 53 | 10 | 145 | 69 | 3/4" | 280 | 617 | 140 x 70 x 100 |
| PASCAL 11-13 DF | V60TN92PWS380 | – | 11 | 15 | 1.15 | 69 | 40.6 | 13 | 188 | 69 | 3/4" | 280 | 617 | 140 x 70 x 100 |
| PASCAL 15-08 DF | V60TY92PWS380 | – | 15 | 20 | 2.15 | 129 | 75.9 | 8 | 116 | 70 | 3/4" | 290 | 639 | 140 x 70 x 100 |
| PASCAL 15-10 DF | V60TZ92PWS380 | – | 15 | 20 | 1.85 | 111 | 65.3 | 10 | 145 | 70 | 3/4" | 290 | 639 | 140 x 70 x 100 |
| PASCAL 15-13 DF | V60TP92PWS380 | – | 15 | 20 | 1.55 | 93 | 54.7 | 13 | 188 | 70 | 3/4" | 290 | 639 | 140 x 70 x 100 |
| WITH TANK | | | | | | | | | | | | | | |
| PASCAL 11-08-270 | V91TM92PWS280 | 270 | 11 | 15 | 1.65 | 99 | 58.2 | 8 | 116 | 69 | 3/4" | 300 | 662 | 155 x 70 x 153 |
| PASCAL 11-10-270 | V91TX92PWS280 | 270 | 11 | 15 | 1.50 | 90 | 53 | 10 | 145 | 69 | 3/4" | 300 | 662 | 155 x 70 x 153 |
| PASCAL 11-13-270 | V91TN92PWS280 | 270 | 11 | 15 | 1.15 | 69 | 40.6 | 13 | 188 | 69 | 3/4" | 328 | 723 | 155 x 70 x 153 |
| PASCAL 11-08-500 | V83TM92PWS280 | 500 | 11 | 15 | 1.65 | 99 | 58.2 | 8 | 116 | 69 | 3/4" | 402 | 886 | 200 x 70 x 165 |
| PASCAL 11-10-500 | V83TX92PWS280 | 500 | 11 | 15 | 1.50 | 90 | 53 | 10 | 145 | 69 | 3/4" | 402 | 886 | 200 x 70 x 165 |
| PASCAL 11-13-500 | V83TN92PWS280 | 500 | 11 | 15 | 1.15 | 69 | 40.6 | 13 | 188 | 69 | 3/4" | 435 | 959 | 200 x 70 x 165 |
| PASCAL 15-08-270 | V91TY92PWS280 | 270 | 15 | 20 | 2.15 | 129 | 75.9 | 8 | 116 | 70 | 3/4" | 310 | 684 | 155 x 70 x 153 |
| PASCAL 15-10-270 | V91TZ92PWS280 | 270 | 15 | 20 | 1.85 | 111 | 65.3 | 10 | 145 | 70 | 3/4" | 310 | 684 | 155 x 70 x 153 |
| PASCAL 15-13-270 | V91TP92PWS280 | 270 | 15 | 20 | 1.55 | 93 | 54.7 | 13 | 188 | 70 | 3/4" | 338 | 745 | 155 x 70 x 153 |
| PASCAL 15-08-500 | V83TY92PWS280 | 500 | 15 | 20 | 2.15 | 129 | 75.9 | 8 | 116 | 70 | 3/4" | 412 | 908 | 200 x 70 x 165 |
| PASCAL 15-10-500 | V83TZ92PWS280 | 500 | 15 | 20 | 1.85 | 111 | 65.3 | 10 | 145 | 70 | 3/4" | 412 | 908 | 200 x 70 x 165 |
| PASCAL 15-13-500 | V83TP92PWS280 | 500 | 15 | 20 | 1.55 | 93 | 54.7 | 13 | 188 | 70 | 3/4" | 445 | 981 | 200 x 70 x 165 |
| WITH TANK AND DRYER (DF) | | | | | | | | | | | | | | |
| PASCAL 11-08-270 DF | V91TM92PWS380 | 270 | 11 | 15 | 1.65 | 99 | 58.2 | 8 | 116 | 69 | 3/4" | 352 | 776 | 155 x 70 x 153 |
| PASCAL 11-10-270 DF | V91TX92PWS380 | 270 | 11 | 15 | 1.50 | 90 | 53 | 10 | 145 | 69 | 3/4" | 352 | 776 | 155 x 70 x 153 |
| PASCAL 11-13-270 DF | V91TN92PWS380 | 270 | 11 | 15 | 1.15 | 69 | 40.6 | 13 | 188 | 69 | 3/4" | 380 | 838 | 155 x 70 x 153 |
| PASCAL 11-08-500 DF | V83TM92PWS380 | 500 | 11 | 15 | 1.65 | 99 | 58.2 | 8 | 116 | 69 | 3/4" | 454 | 1001 | 200 x 70 x 165 |
| PASCAL 11-10-500 DF | V83TX92PWS380 | 500 | 11 | 15 | 1.50 | 90 | 53 | 10 | 145 | 69 | 3/4" | 454 | 1001 | 200 x 70 x 165 |
| PASCAL 11-13-500 DF | V83TN92PWS380 | 500 | 11 | 15 | 1.15 | 69 | 40.6 | 13 | 188 | 69 | 3/4" | 487 | 1074 | 200 x 70 x 165 |
| PASCAL 15-08-270 DF | V91TY92PWS380 | 270 | 15 | 20 | 2.15 | 129 | 75.9 | 8 | 116 | 70 | 3/4" | 362 | 798 | 155 x 70 x 153 |
| PASCAL 15-10-270 DF | V91TZ92PWS380 | 270 | 15 | 20 | 1.85 | 111 | 65.3 | 10 | 145 | 70 | 3/4" | 362 | 798 | 155 x 70 x 153 |
| PASCAL 15-13-270 DF | V91TP92PWS380 | 270 | 15 | 20 | 1.55 | 93 | 54.7 | 13 | 188 | 70 | 3/4" | 390 | 860 | 155 x 70 x 153 |
| PASCAL 15-08-500 DF | V83TY92PWS380 | 500 | 15 | 20 | 2.15 | 129 | 75.9 | 8 | 116 | 70 | 3/4" | 465 | 1025 | 200 x 70 x 165 |
| PASCAL 15-10-500 DF | V83TZ92PWS380 | 500 | 15 | 20 | 1.85 | 111 | 65.3 | 10 | 145 | 70 | 3/4" | 465 | 1025 | 200 x 70 x 165 |
| PASCAL 15-13-500 DF | V83TP92PWS380 | 500 | 15 | 20 | 1.55 | 93 | 54.7 | 13 | 188 | 70 | 3/4" | 497 | 1096 | 200 x 70 x 165 |

Free air delivery as per ISO 1217 Annex C, at 7.5 - 9.5 - 12.5 bar at the compressor outlet. ± 3 dB (A) as PNEUROP/CAGI PN-NTC 2.3.

Since 1992 Power System has been an indisputable leader in the design, development, production and worldwide distribution of industrial premium quality Rotary Screw Compressors in a power range from 2.2 to 315 kW satisfying air demands up to 50 m³/min. suitable for any technology sector, from the largest industry to the smallest enterprise. Power System has, since its very beginning, been engaged in a Research mission aimed to create advanced solution to compress air with the lowest possible energy impact.



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