



HPR D SERIES ROTARY SCREW AIR COMPRESSORS



STANDARD EQUIPMENT

High quality components such as IP55 electric motors with the IE3 efficiency class, IP54 fan motors, star-delta motor starter system, electrical materials selected according to IEC, UL/cUL, CE standards as per the market requirements, high-efficiency screw blocks consuming less energy are provided as standard in all our products.



SERVICEABILITY

Service-friendly design implemented using a layout that provides instant access to all consumable items, with quick-release protective covers and easy-to-use controllers minimizes downtime and reduces maintenance costs.



ELECTRONIC CONTROL

Hertz screw type compressors are equipped with easy-to-use, durable and long-lasting microprocessor controllers with communication capabilities as per the product line to ensure smooth operation and uninterrupted production.



SCREW BLOCK

Patented durable screw block which can supply the system with air in high-capacity and has been specially selected according to each model's requirements
Production of air with less loss of air thanks to the new rotor profiles, and lower torque requirements
New generation bearing design with increased load carrying capabilities



AIR OIL SEPARATOR

Immersed type separator
High performance separation with three-stage design
More effective separation in lower volume via deep-wound interlocking separation segments
Low amount of oil mist in outlet air ≤ 3 ppm



MAIN MOTOR AND DRIVE SYSTEM

High efficiency 400V/3 phase/50Hz,
F-class insulation,
IP55 electric motors with F protection class
Direct coupled models,
Long lasting and efficient power transfer thanks to the use of elastic coupling.





HPR D SERIES Rotary Screw Air Compressors

HERTZ HPR D series compressors deliver high performance by reducing the power transfer losses with their directly-coupled motor and screw block. Operation expenses are reduced thanks to usage of the latest generation screw block and motor. Stops are minimized with continuously supplied air.

HPR D series compressors are designed with a compressor design in compliance with European energy efficiency directives (2009/125/EC). Responds to all requirements between 18 and 315 kW.

MAIN MOTOR AND DRIVE SYSTEM

- IE3 Efficiency class (with IE4 Option)
- Motors with class B temperature increase
- Motor design suitable for 50 °C ambient temperature



ADVANTAGES

- Low vibration
- Cooler design with high cooling capacity
- Overhead exhaust air outlet design in all models
- Easy access thanks to the service doors that can be opened sideways
- Multiple-machine control feature (up to 5 machines) (55 kW and above)

AIR/OIL SEPARATOR

- 3 stage oil and air separation
- Low pressure drop
- Immersed type separator
- Long service life



COOLING SYSTEM

- Efficient cooling
- Low speed radial fan (18.5-160 kW)
- High efficiency impeller design with backward curved impeller
- Design suitable with high ambient temperatures (46 °C)
- Cooler design with reduced thermal stress
- High back-pressure resistance
- Low sound level

TECHNICAL DATA

| Model | Pressure | | Capacity* | | Motor Power kW/HP | Connection Size | Dimensions (mm) | | | Weight | Noise** |
|-----------|----------|-----|---------------------|------|-------------------|-----------------|-----------------|-------|--------|--------|---------|
| | bar | psi | m ³ /min | cfm | | | Length | Width | Height | kg | dB(A) |
| HPR-D 18 | 7.5 | 110 | 3,22 | 114 | 18/25 | G 1" | 1600 | 833 | 1385 | 600 | 71 |
| | 8.5 | 125 | 3,00 | 106 | | | | | | | |
| | 10 | 145 | 2,60 | 92 | | | | | | | |
| | 13 | 185 | - | - | | | | | | | |
| HPR-D 22 | 7.5 | 110 | 4,10 | 145 | 22/30 | G 1" | 1600 | 833 | 1385 | 635 | 71 |
| | 8.5 | 125 | 3,99 | 141 | | | | | | | |
| | 10 | 145 | 3,28 | 116 | | | | | | | |
| | 13 | 185 | 2,67 | 94 | | | | | | | |
| HPR-D 30 | 7.5 | 110 | 5,71 | 202 | 30/40 | G 1 1/4" | 2025 | 1130 | 1635 | 1020 | 73 |
| | 8.5 | 125 | 5,35 | 189 | | | | | | | |
| | 10 | 145 | 4,99 | 176 | | | | | | | |
| | 13 | 185 | 3,96 | 140 | | | | | | | |
| HPR-D 37 | 7.5 | 110 | 7,12 | 251 | 37/50 | G 1 1/4" | 2025 | 1130 | 1635 | 1310 | 74 |
| | 8.5 | 125 | 6,72 | 237 | | | | | | | |
| | 10 | 145 | 6,49 | 229 | | | | | | | |
| | 13 | 185 | 4,90 | 173 | | | | | | | |
| HPR-D 45 | 7.5 | 110 | 8,66 | 306 | 45/60 | G 1 1/4" | 2025 | 1130 | 1635 | 1530 | 75 |
| | 8.5 | 125 | 8,21 | 290 | | | | | | | |
| | 10 | 145 | 7,09 | 250 | | | | | | | |
| | 13 | 185 | 6,53 | 231 | | | | | | | |
| HPR-D 55 | 7.5 | 110 | 10,5 | 371 | 55/75 | G 2" | 2313 | 1350 | 2085 | 2050 | 75 |
| | 8.5 | 125 | 9,44 | 333 | | | | | | | |
| | 10 | 145 | 8,40 | 297 | | | | | | | |
| | 13 | 185 | 7,02 | 248 | | | | | | | |
| HPR-D 75 | 7.5 | 110 | 14,8 | 523 | 75/100 | G 2" | 2313 | 1350 | 2085 | 2250 | 77 |
| | 8.5 | 125 | 12,3 | 435 | | | | | | | |
| | 10 | 145 | 12,0 | 423 | | | | | | | |
| | 13 | 185 | 9,60 | 340 | | | | | | | |
| HPR-D 90 | 7.5 | 110 | 17,6 | 623 | 90/125 | G 2" | 2800 | 1600 | 2250 | 3000 | 79 |
| | 8.5 | 125 | 16,8 | 593 | | | | | | | |
| | 10 | 145 | 14,0 | 497 | | | | | | | |
| | 13 | 185 | 12,3 | 434 | | | | | | | |
| HPR-D 110 | 7.5 | 110 | 22,1 | 782 | 110/150 | G 2" | 2800 | 1600 | 2250 | 3150 | 79 |
| | 8.5 | 125 | 20,8 | 735 | | | | | | | |
| | 10 | 145 | 18,2 | 643 | | | | | | | |
| | 13 | 185 | 14,6 | 515 | | | | | | | |
| HPR-D 132 | 7.5 | 110 | 26,2 | 926 | 132/180 | G 2" | 2800 | 1600 | 2250 | 3400 | 81 |
| | 8.5 | 125 | 24,0 | 849 | | | | | | | |
| | 10 | 145 | 21,9 | 774 | | | | | | | |
| | 13 | 185 | 18,7 | 659 | | | | | | | |
| HPR-D 160 | 7.5 | 110 | 33,6 | 1185 | 160/220 | G 2 1/2" | 2950 | 1700 | 2250 | 3780 | 81 |
| | 8.5 | 125 | 29,6 | 1045 | | | | | | | |
| | 10 | 145 | 25,9 | 915 | | | | | | | |
| | 13 | 185 | 23,2 | 821 | | | | | | | |
| HPR-D 200 | 7.5 | 110 | 39,7 | 1401 | 200/270 | DN80 | 3530 | 2260 | 2465 | 4460 | 83 |
| | 8.5 | 125 | 38,1 | 1346 | | | | | | | |
| | 10 | 145 | 34,9 | 1231 | | | | | | | |
| | 13 | 185 | 28,7 | 1014 | | | | | | | |
| HPR-D 250 | 7.5 | 110 | 48,4 | 1710 | 250/340 | DN80 | 3530 | 2260 | 2465 | 4850 | 83 |
| | 8.5 | 125 | 44,3 | 1564 | | | | | | | |
| | 10 | 145 | 42,0 | 1484 | | | | | | | |
| | 13 | 185 | 35,9 | 1267 | | | | | | | |
| HPR-D 315 | 7.5 | 110 | 62,4 | 2204 | 315/430 | DN100 | 3530 | 2260 | 2465 | 5100 | 84 |
| | 8.5 | 125 | 59,7 | 2110 | | | | | | | |
| | 10 | 145 | 53,3 | 1882 | | | | | | | |
| | 13 | 185 | 45,6 | 1611 | | | | | | | |

- Unit performances measured in reference conditions which are 1 bar absolute air pressure, %0 relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature and use of Smartoil.

- HERTZ KOMPRESSOREN reserves its rights to make changes in its products and specifications without prior notice.

* Refers to free air delivery measured according to ISO 1217:2009, Annex C standard.

** Refers to sound pressure level measured according to ISO 2151:2004 and ISO 9614/2 with ± 3 dB(A) tolerance.

