



HVD SERIES -ROTARY SCREW AIR COMPRESSORS



STANDARD EQUIPMENT

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



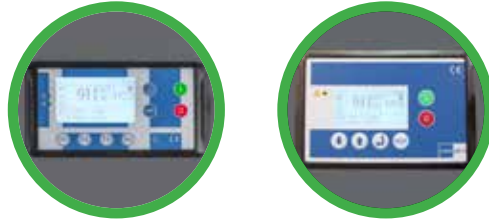
SERVICEABILITY

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



ELECTRONIC CONTROL

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



SCREW BLOCK

- Patented and durable screw block that provides high-capacity of air, and that is specially selected for each model's capacity requirement
- 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

Spin-on or immersed type separator design depending on the product line

Immersed type separator

High performance separation with three-stage design
More efficient separation at lower volume with deeply wrapped, intertwined separation layers
Low amount of oil mist in outlet air ≤ 3 ppm

Spin-on separator

Easy replacement, ease of assembly and disassembly
Design that does not require a separator tank



MAIN MOTOR AND DRIVE SYSTEM

Premium 230/460V/3 phase/60Hz, IE3 IP55 electric motors with F Class insulation, Wye-Delta motor starting system, Easy of assembly and disassembly with bush pulleys on belt-pulley models. Long-lasting and efficient transfer system thanks to use of elastic couplings on direct coupled models.

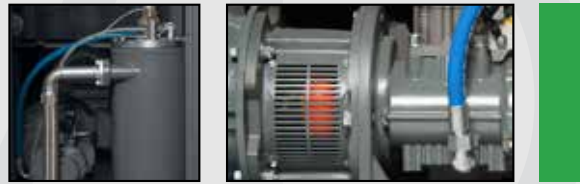




HVD SERIES

Direct Drive & Variable Speed Rotary Screw Air Compressors 5.5-300 kW

HERTZ HVD series variable-speed compressors drive the motor with the frequency converter to adjust the compressor operation speed according to compressed air requirements and save up to 35% energy. Thanks to its high-quality equipment and excellent engineering in its design, it provides a very efficient and flexible use as per requirements.



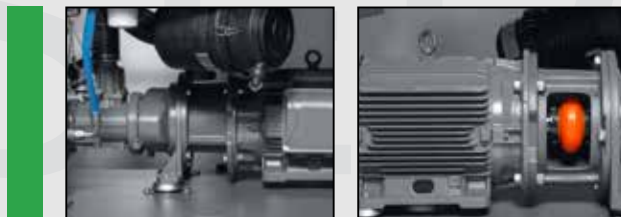
ADVANTAGES

- Up to 35 % energy saving*
- Operation at constant output pressure value
- Wide operating pressure range (100-175 psi)
- Soft starting
- Protection against the adverse effects of peak currents

*When compared with compressors without an inverter for business with variable requirements

MAIN MOTOR AND DRIVE SYSTEM

- Directly coupled one on one (1:1) with the elastic coupling
- Variable-speed starting with frequency converter
- High temperature protection with motor bearings (HVD 5-300)



HVD SERIES

Direct Drive & Variable Speed Rotary Screw Air Compressors

TECHNICAL DATA

60 Hz version

| MODEL | PRESSURE | | CAPACITY | | | | MOTOR POWER kW/HP | DIMENSIONS (in.) | | | WEIGHT lbs | NOISE dB(A) |
|---------|----------|-----|---------------------|-------|---------------------|--------|-------------------|------------------|-------|--------|------------|-------------|
| | psi | bar | Minimum | | Maximum | | | Length | Width | Height | | |
| | | | m ³ /min | cfm | m ³ /min | cfm | | | | | | |
| HVD 5 | 100 | 7 | 0.41 | 14.4 | 0.96 | 33.9 | 5.5/7.5 | 74 | 25 | 69 | 920 | 72 |
| | 125 | 8.5 | 0.40 | 14.1 | 0.79 | 27.9 | | | | | | |
| | 150 | 10 | 0.39 | 13.7 | 0.67 | 23.6 | | | | | | |
| | 175 | 12 | 0.44 | 15.6 | 0.57 | 20.1 | | | | | | |
| HVD 7 | 100 | 7 | 0.44 | 15.6 | 1.26 | 44.5 | 7.5/10 | 74 | 25 | 69 | 970 | 72 |
| | 125 | 8.5 | 0.43 | 15.1 | 1.09 | 38.5 | | | | | | |
| | 150 | 10 | 0.42 | 14.8 | 1.00 | 35.3 | | | | | | |
| | 175 | 12 | 0.48 | 17.0 | 0.87 | 30.7 | | | | | | |
| HVD 11 | 100 | 7 | 0.79 | 27.9 | 1.92 | 67.8 | 11/15 | 67 | 29 | 65 | 1120 | 72 |
| | 125 | 8.5 | 0.78 | 27.6 | 1.67 | 59.0 | | | | | | |
| | 150 | 10 | 0.75 | 26.5 | 1.61 | 56.8 | | | | | | |
| | 175 | 12 | 0.98 | 34.6 | 1.52 | 53.6 | | | | | | |
| HVD 15 | 100 | 7 | 0.80 | 28.2 | 2.60 | 91.8 | 15/20 | 75 | 29 | 69 | 1261 | 72 |
| | 125 | 8.5 | 0.78 | 27.6 | 2.34 | 82.6 | | | | | | |
| | 150 | 10 | 0.75 | 26.5 | 2.17 | 76.8 | | | | | | |
| | 175 | 12 | 0.98 | 34.6 | 1.85 | 65.3 | | | | | | |
| HVD 18 | 100 | 7 | 0.80 | 28.2 | 3.66 | 129.2 | 18.5/25 | 64 | 33 | 55 | 1257 | 72 |
| | 125 | 8.5 | 0.79 | 27.9 | 3.25 | 114.7 | | | | | | |
| | 150 | 10 | 0.77 | 27.2 | 2.95 | 104.1 | | | | | | |
| | 175 | 12 | 0.76 | 26.8 | 2.67 | 94.3 | | | | | | |
| HVD 22 | 100 | 7 | 0.80 | 28.2 | 4.33 | 152.9 | 22/30 | 64 | 33 | 55 | 1345 | 72 |
| | 125 | 8.5 | 0.79 | 27.9 | 3.88 | 137.0 | | | | | | |
| | 150 | 10 | 0.76 | 26.8 | 3.53 | 124.6 | | | | | | |
| | 175 | 12 | 0.76 | 26.8 | 3.22 | 113.7 | | | | | | |
| HVD 30 | 100 | 7 | 1.04 | 36.7 | 5.92 | 209.0 | 30/40 | 80 | 45 | 64 | 2535 | 73 |
| | 125 | 8.5 | 1.03 | 36.3 | 5.29 | 186.6 | | | | | | |
| | 150 | 10 | 1.03 | 36.3 | 4.80 | 169.5 | | | | | | |
| | 175 | 12 | 1.02 | 36.0 | 4.36 | 154.0 | | | | | | |
| HVD 37 | 100 | 7 | 1.41 | 49.8 | 7.45 | 263.1 | 37/50 | 80 | 45 | 64 | 2756 | 75 |
| | 125 | 8.5 | 1.40 | 49.4 | 6.71 | 237.0 | | | | | | |
| | 150 | 10 | 1.37 | 48.3 | 6.11 | 215.7 | | | | | | |
| | 175 | 12 | 1.36 | 48.0 | 5.57 | 196.7 | | | | | | |
| HVD 45 | 100 | 7 | 2.56 | 90.4 | 9.37 | 330.9 | 45/60 | 80 | 45 | 64 | 2888 | 78 |
| | 125 | 8.5 | 2.52 | 89.0 | 8.46 | 298.7 | | | | | | |
| | 150 | 10 | 2.46 | 86.8 | 7.61 | 268.7 | | | | | | |
| | 175 | 12 | 2.39 | 84.4 | 6.81 | 240.5 | | | | | | |
| HVD 55 | 100 | 7 | 2.56 | 90.4 | 10.99 | 388.1 | 55/75 | 91 | 54 | 82 | 4520 | 78 |
| | 125 | 8.5 | 2.52 | 89.0 | 9.91 | 341.0 | | | | | | |
| | 150 | 10 | 2.46 | 86.8 | 9.01 | 318.2 | | | | | | |
| | 175 | 12 | 2.39 | 84.4 | 8.15 | 287.8 | | | | | | |
| HVD 75 | 100 | 7 | 5.00 | 176.6 | 14.77 | 521.6 | 75/100 | 91 | 54 | 82 | 4520 | 79 |
| | 125 | 8.5 | 4.93 | 174.1 | 13.29 | 469.3 | | | | | | |
| | 150 | 10 | 4.77 | 168.4 | 12.11 | 427.6 | | | | | | |
| | 175 | 12 | 4.75 | 167.7 | 11.03 | 389.5 | | | | | | |
| HVD 90 | 100 | 7 | 5.00 | 176.6 | 17.3 | 611.0 | 90/125 | 98 | 55 | 80 | 5510 | 79 |
| | 125 | 8.5 | 4.93 | 174.1 | 15.6 | 550.9 | | | | | | |
| | 150 | 10 | 4.77 | 168.4 | 14.3 | 505.0 | | | | | | |
| | 175 | 12 | 4.75 | 167.7 | 13.1 | 462.6 | | | | | | |
| HVD 110 | 100 | 7 | 5.60 | 197.7 | 22.1 | 780.4 | 110/150 | 98 | 55 | 80 | 6058 | 79 |
| | 125 | 8.5 | 5.52 | 195.0 | 20.0 | 706.3 | | | | | | |
| | 150 | 10 | 5.43 | 191.7 | 18.0 | 635.6 | | | | | | |
| | 175 | 12 | 5.33 | 188.2 | 16.3 | 575.6 | | | | | | |
| HVD 132 | 100 | 7 | 5.60 | 197.7 | 26.0 | 919.0 | 132/180 | 98 | 55 | 80 | 6058 | 79 |
| | 125 | 8.5 | 5.52 | 195.0 | 23.6 | 833.4 | | | | | | |
| | 150 | 10 | 5.43 | 191.7 | 21.4 | 755.7 | | | | | | |
| | 175 | 12 | 5.33 | 188.2 | 19.4 | 685.1 | | | | | | |
| HVD 160 | 100 | 7 | 5.60 | 197.7 | 28.7 | 1013.6 | 160/220 | 118 | 78 | 86 | 7490 | 79 |
| | 125 | 8.5 | 5.52 | 194.9 | 26.4 | 932.3 | | | | | | |
| | 150 | 10 | 5.43 | 191.7 | 24.2 | 854.6 | | | | | | |
| | 175 | 12 | 5.33 | 188.2 | 21.9 | 773.4 | | | | | | |
| HVD 185 | 100 | 7 | 8.40 | 296.6 | 34.1 | 1204.2 | 185/250 | 118 | 78 | 86 | 8812 | 79 |
| | 125 | 8.5 | 8.30 | 293.1 | 30.9 | 1091.2 | | | | | | |
| | 150 | 10 | 8.20 | 289.6 | 28.4 | 1003.0 | | | | | | |
| | 175 | 12 | 8.10 | 286.0 | 26.2 | 925.2 | | | | | | |
| HVD 220 | 100 | 7 | 10.80 | 381.4 | 44.9 | 1585.6 | 220/300 | 127 | 89 | 96 | 11675 | 79 |
| | 125 | 8.5 | 10.60 | 374.8 | 41.0 | 1447.9 | | | | | | |
| | 150 | 10 | 10.42 | 368.0 | 37.3 | 1317.2 | | | | | | |
| | 175 | 12 | 10.20 | 360.2 | 33.9 | 1197.1 | | | | | | |
| HVD 260 | 100 | 7 | 10.80 | 381.4 | 52.1 | 1839.9 | 260/350 | 127 | 89 | 96 | 12336 | 79 |
| | 125 | 8.5 | 10.60 | 374.3 | 47.9 | 1691.6 | | | | | | |
| | 150 | 10 | 10.42 | 368.0 | 43.9 | 1550.3 | | | | | | |
| | 175 | 12 | 10.20 | 360.2 | 40.0 | 1412.6 | | | | | | |
| HVD 300 | 100 | 7 | 10.80 | 381.4 | 54.3 | 1917.6 | 300/400 | 127 | 89 | 96 | 13218 | 79 |
| | 125 | 8.5 | 10.60 | 374.3 | 50.0 | 1765.7 | | | | | | |
| | 150 | 10 | 10.42 | 368.0 | 45.9 | 1621.0 | | | | | | |
| | 175 | 12 | 10.20 | 360.2 | 42.0 | 1483.2 | | | | | | |

- Unit performances measured in reference conditions which are 1 bar /14.5 psig absolute air pressure, %0 relative humidity, 20°C /68 °F inlet air temperature, 71°C/160 °F thermostatic valve set temperature and use of Smartoil.
- Refers to free air delivery measured according to ISO 1217:2009, Annex E standard.
- Refers to sound pressure level measured according to ISO 2151:2008 and ISO 3744:2010 with ± 3 dB(A) tolerance.
- These are the dimensions of the products with tank&dryer HVD 5-15 series models.
- These are the weights of the products with tank&dryer HVD 5-15 series models.
- HERTZ KOMPRESSOREN reserves its rights to make changes in its products and specifications without prior notice.