



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
- Cooled designs 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 kg	Noise** dB(A)
	bar	psi	m ³ /min	cfm			Length	Width	Height		
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.

