



## HDD 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.



Hertz rotary screw compressors performances are verified with third party testing by Compressed Air and Gas institute (CAGI). CAGI data sheets of our rotary screw compressors are available at [www.hertz-kompressoren.us](http://www.hertz-kompressoren.us)



## 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

Immersed type separator design depending on the product line

### Immersed type separator

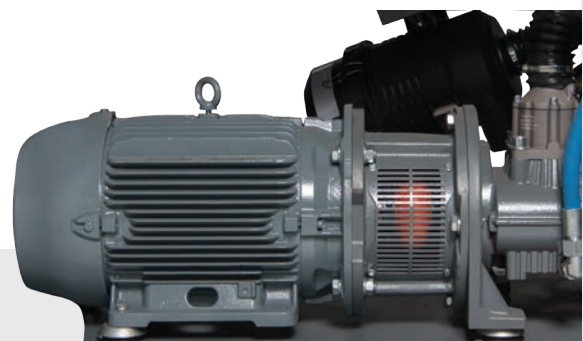
High performance separation with three-stage design

More efficient separation at lower volume with deeply wrapped, intertwined separation layers

Low amount of oil mist in outlet air  $\leq 3$  ppm

## MAIN MOTOR AND DRIVE SYSTEM

Premium 230/460V/3 phase/60Hz, IE4 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.





## HDD SERIES

### Direct Drive Rotary Screw Air Compressors 22-335 kW

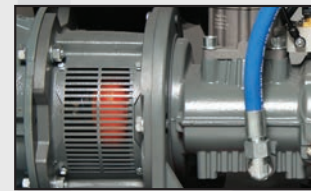
HERTZ HDD series compressors deliver high performance by reducing the power transfer losses with their directly-coupled motor and screw block. Operation expenses are reduced thanks to usage of the latest generation screw block and motor. Responds to all requirements between 22 and 335 KW.

#### ADVANTAGES

- Wide operating pressure range (100-175 psi)
- Easy and fast service with removable and hinged door and panels

#### MAIN MOTOR DRIVE SYSTEM

- Durable and efficient power transfer thanks to the use of elastic coupling
- Fast (30 min.) coupling system serviceability with its special design
- High temperature protection with motor bearings
- PTC on motor windings



#### AIR/OIL 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  $\leq 3$  ppm
- High-efficiency immersion type separator with long service life
- Service friendly oil tank cover

#### COOLING SYSTEM

- Cooling fans controlled with secondary fan inverter (HDD SERIES 22-335)
- Independent radiator segments
- Silent and slow speed Radial fan (HDD SERIES 22-335)

#### ADDITIONAL OPTIONS TO THE GENERAL OPTIONS LIST

- Oil Tank heater for cold environments



#### OTHER FEATURES

- Usage up to 110 degrees Fahrenheit ambient temperature
- Suction filter with silencer casing and pre-filtration
- Hinged oil tank cover for easy and fast service
- Flexible pipe coupling joints used for water separator
- Optimum inner cabinet air flow for better cooling and air suction
- All air and oil tanks comply with ASME standards

# HDD SERIES

## Direct Drive Rotary Screw Air Compressors

### TECHNICAL DATA

60 Hz version

Model	Pressure		Capacity*		Motor Power kW/hp	Connection Size	Dimensions (in.)			Weight lbs	Noise** dB(A)
	bar	psi	m <sup>3</sup> /min	cfm			Length	Width	Height		
HDD 22	7	100	3.77	133	22/30	1" NPT	64	33	55	1400	71
	8.5	125	3.73	132							
	10	150	3.03	107							
HDD 30	7	100	5.85	207	30/40	1 1/4" NPT	80	45	64	2248	75
	8.5	125	5.18	183							
	10	150	4.60	162							
	12	175	3.95	140							
HDD 37	7	100	6.73	238	37/50	1 1/4" NPT	80	45	64	2535	75
	8.5	125	6.48	229							
	10	150	5.75	203							
	12	175	5.03	178							
HDD 45	7	100	8.30	293	45/60	1 1/4" NPT	80	45	64	2843	76
	8.5	125	7.80	275							
	10	150	6.99	247							
	12	175	6.25	221							
HDD 55	7	100	10.6	374	55/75	2" NPT	91	54	82	4520	76
	8.5	125	9.80	346							
	10	150	8.20	290							
	12	175	7.85	277							
HDD 75	7	100	14.0	495	75/100	2" NPT	91	54	82	4895	79
	8.5	125	12.9	456							
	10	150	11.4	402							
	12	175	10.8	381							
HDD 90	7	100	17.0	601	90/125	2" NPT	110	63	87	6614	82
	8.5	125	15.6	550							
	10	150	14.1	498							
	12	175	12.5	440							
HDD 110	7	100	21.0	741	110/150	2" NPT	98	55	80	6058	82
	8.5	125	19.5	689							
	10	150	16.7	588							
	12	175	14.8	521							
HDD 132	7	100	25.7	908	132/180	2" NPT	110	63	87	7275	83
	8.5	125	23.4	826							
	10	150	20.5	724							
	12	175	18.1	639							
HDD 160	7	100	31.4	1109	160/220	2 1/2" NPT	116	67	89	8333	83
	8.5	125	27.9	985							
	10	150	25.1	886							
	12	175	22.5	795							
HDD 185	7	100	37.0	1307	185/250	3" FLANGE	118	78	86	8812	85
	8.5	125	34.1	1205							
	10	150	29.5	1041							
	12	175	27.5	971							
HDD 220	7	100	44.1	1416	220/300	4" FLANGE	127	89	96	11675	85
	8.5	125	35.2	1243							
	10	150	31.0	1095							
	12	175	26.9	950							
HDD 260	7	100	48.2	1701	260/350	4" FLANGE	127	89	96	12336	86
	8.5	125	44.7	1579							
	10	150	39.9	1409							
	12	175	35.5	1254							
HDD 300	7	100	52.0	1836	300/400	4" FLANGE	127	89	96	13218	86
	8.5	125	46.4	1639							
	10	150	43.0	1518							
	12	175	39.7	1402							
HDD 335	7	100	61.4	2168	335/450	5" FLANGE	127	89	96	14209	87
	8.5	125	55.2	1949							
	10	150	51.3	1810							
	12	175	45.9	1619							

- 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.
- 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 2151:2008 and ISO ISO 3744:2010 with ± 3 dB(A) tolerance.

