

# EAGLE SERIES

OIL FREE ROTARY SCREW COMPRESSORS



**hertz**  
KOMPRESSOREN

# GENERAL FEATURES



## % 100 OIL FREE

HERTZ Eagle Series 2 Stage Dry Screw oil-free compressors maintain 100 % oil-free air for industries which require clean and oil-free compressed air. Eagle series use the latest technology oil-free air ends which has superior lifetime and less maintenance intervals.



## TECHNOLOGY

Special coated rotors “No Teflon wear”, Simple reliable air end design with timing gears, special bearings and seals. “No maintenance for diaphragm and balancing pistons”, Efficient special air cooling design, Simple and easy to maintenance machine layout, Latest technology PLC controllers with remote communication and start/stop capability.



## PLC CONTROLLER

- Additional sensors provide trouble free operation in 2 stage compressors
- Remote communication capability
- Remote start/stop option
- Advanced, high-definition, user friendly 7" color touchscreen
- High speed, industrial type PLC infrastructure with robust construction
- Encrypted Access Protection system with various levels of authorization.
- Display of relevant data on the screen clearly, trend graph recording and active monitoring
- Alarm History Record for the last 500 alarms
- Ethernet / ModBus communication functions as standard
- Remote monitoring and control feature / Compliance with GSM, internet and Industry 4.0
- Flexible programmable/expandable Input / Output structure



## STANDARD FEATURES

- Sound insulated canopy
- Electrostatic powder coated components for high corrosion resistance
- Electric motor protection for preventing over loading
- IE4 class electric motors



## OTHER OPTIONS

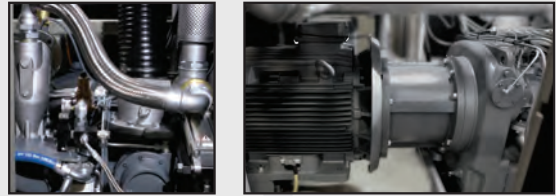
- Variable Speed Drive
- Automatic greasing system
- Heat Recovery System
- Air or water cooled alternetines



## EAGLE SERIES Oil Free Rotary Screw Compressors

Completely oil-free compressed air according to ISO 8573-1 Class- ZERO. Compressors tested and was approved by TUV Rheinland.

- High performance compliant with ISO 1217, Annex C/E
- Direct-Drive driving system with efficient IE4 class electric motor and flexible coupling with bellhousing.
- Proven reliability
- Sound proof canopy, low noise levels through the use of special texture isolation material



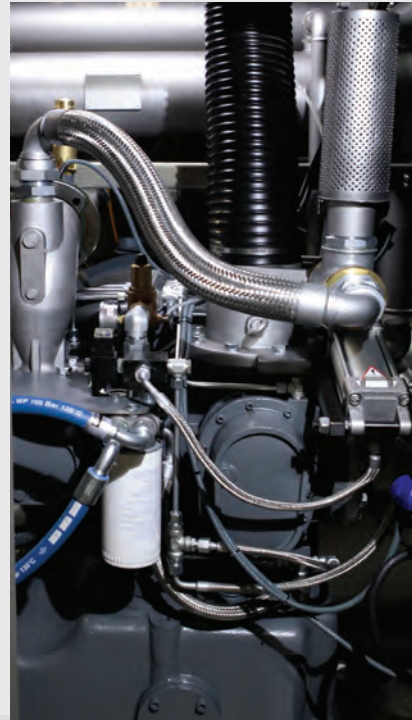
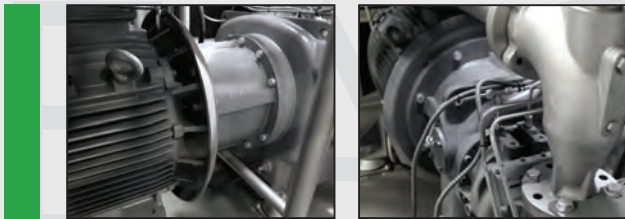
- Hydraulic actuated suction control valve with installed unloading system
- Water separator both of stages
- Silenced air intake system design with two stage air filter which has high dust collecting efficiency and long service life
- Air water- cooled alternatives
- Minimised level of maintenance and running cost by trouble free production cycle
- Full stainless steel cooling system parts for both air cooling and water cooling



### STAR DELTA STARTER

- Standard star delta starter system eliminates current surges and extends component life for increasing system reliability.

- Efficient **IE4** class electric motor and flexible coupling with bellhousing.
- Proven reliability
- Sound proof canopy, low noise levels through the use of special texture isolation material
- Hydraulic actuated suction control valve with installed unloading system



## THE HIGHLIGHTS OF OUR AIRENDS

### ■ **Totally oil free air**

Very reliable and field proved sealing arrangement ensures separation oil free area from the oil needed for lubrication of gears and bearings

### ■ **Robust design reliable in operation under the most difficult condition**

Working in dusty, wet, cold and hot environment possible

### ■ **Bearing arrangement guarantees long life without vibrations**

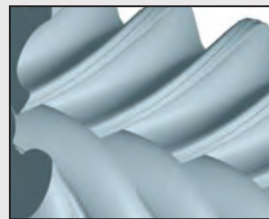
The radial forces are compensated by cylindrical roller bearings, the axial forces are compensated by four-point bearings arranged on the discharge side.

### ■ **Low vibration and noise level**

Tight clearances between rotors themselves and between rotors and housing allow low rotation of the rotors and less power consumption

### ■ **High engineered gear driven Design**

The gear box is equipped with helical bullgear running in an anti-friction bearing. Rotors are dynamically balanced ensuring excellent running properties of the screw airends



### ■ **Non-abrassive “Ultracoating” for long term high efficiency**

Excellent Coating of rotors and inner part of housing allows reduction of clearances to a minimum and increases efficiency.

### ■ **Stainless steel rotors in the HP-stage**

Elimination damage through corrosion and rusting after longer shutdown times.

## TECHNICAL DATA

MODEL	PRESSURE		CAPACITY FAD		MOTOR POWER kW/HP	DIMENSIONS mm			WEIGHT kg
	Bar	PSI	m <sup>3</sup> /min	SCFM		Length	Width	Height	
EAGLE W 90	7	100	15,8	559,6	90/125	3000	1800	2200	3250
	8.5	125	13,3	469,0					
	10	145	13,2	467,3					
EAGLE W 110	7	100	19,9	702,5	110/150	3000	1800	2200	3450
	8.5	125	17,3	611,6					
	10	145	15,8	556,5					
EAGLE W 132	7	100	22,1	779,9	132/180	3000	1800	2200	3450
	8.5	125	21,3	753,0					
	10	145	19,8	699,5					
EAGLE W 160	7	100	25,9	916,1	160/220	3000	1800	2200	3900
	8.5	125	25,9	914,8					
	10	145	24,7	872,3					
EAGLE W 200	7	100	28,6	1011,2	200/270	3000	1800	2200	3900
	8.5	125	28,6	1010,0					
	10	145	28,6	1008,7					
EAGLE W 200 B	7	100	37,2	1314,1	200/270	3600	2100	2500	5020
	8.5	125	34,7	1224,7					
	10	145	32,2	1138,0					
EAGLE W 250	7	100	45,2	1594,7	250/340	3600	2100	2500	5260
	8.5	125	41,3	1460,1					
	10	145	37,1	1309,8					
EAGLE W 315	7	100	51,1	1804,7	315/430	3600	2100	2800	5260
	8.5	125	49,7	1753,7					
	10	145	45,1	1591,0					
EAGLE W 355	7	100	-	-	355/480	3600	2100	2500	5680
	8.5	125	51,0	1802,7					
	10	145	51,0	1800,7					

1. Refers to free air delivery measured according to ISO 1217:2009, Annex C standard. HERTZ reserves its rights to make changes in its products and specifications without prior notice.

## TECHNICAL DATA

MODEL	PRESSURE		CAPACITY FAD				MOTOR POWER kW/HP	DIMENSIONS mm			WEIGHT kg
			m <sup>3</sup> /min		SCFM			Length	Width	Height	
	Bar	PSI	min	max	min	max					
EAGLE W 110 VS	7	100	9,7	20,1	341,1	708,4	110/150	3000	1800	2200	3500
	8,5	125	9,6	18,6	339,1	657,0					
	10	145	9,6	17,3	337,2	611,2					
EAGLE W 132 VS	7	100	10,4	22,6	366,9	799,6	132/180	3000	1800	2200	3600
	8,5	125	10,3	21,4	364,9	757,6					
	10	145	10,3	20,0	362,9	704,7					
EAGLE W 160 VS	7	100	10,0	27,4	354,2	969,3	160/220	3000	1800	2200	4050
	8,5	125	9,8	26,0	346,2	918,9					
	10	145	9,8	23,9	344,2	845,3					
EAGLE W 200 VS	7	100	10,3	30,1	362,2	1064,4	200/270	3000	1800	2200	4100
	8,5	125	10,2	28,7	360,2	1012,0					
	10	145	10,1	23,9	358,2	949,4					
EAGLE W 200 B VS	7	100	18,2	35,8	640,9	1265,1	200/270	3600	2100	2500	5150
	8,5	125	18,1	32,0	637,7	1130,5					
	10	145	17,1	29,1	634,3	1027,3					
EAGLE W 250 VS	7	100	17,3	45,5	603,1	1605,9	250/340	3600	2100	2500	5440
	8,5	125	17,2	42,0	599,7	1482,8					
	10	145	17,1	38,4	596,1	1357,1					
EAGLE W 315 VS	7	100	17,5	50,8	617,3	1756,7	315/430	3600	2100	2800	5450
	8,5	125	17,4	47,6	614,0	1679,7					
	10	145	17,3	45,8	610,6	1618,3					

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EAGLE A 110	7	100	19,9	702,5	110/150	3000	1800	2500	3850
	8,5	125	17,3	611,6					
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EAGLE A 132	7	100	22,1	779,9	132/180	3000	1800	2500	3850
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EAGLE A 160	7	100	25,9	916,1	160/220	3000	1800	2500	4300
	8,5	125	25,9	914,8					
	10	145	24,7	872,3					
EAGLE A 200	7	100	28,6	1011,2	200/270	3000	1800	2500	4300
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EAGLE A 315 VS	7	100	17,5	50,8	617,3	1756,7	315/430	3600	2100	2800	5850
	8,5	125	17,4	47,6	614,0	1679,7					
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