



FRECON PLUS 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 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 high volumetric efficiency, 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

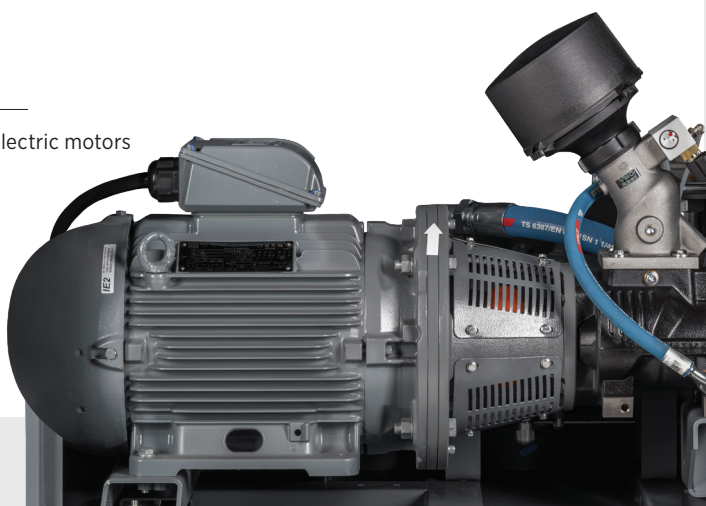
MAIN MOTOR AND DRIVE SYSTEM

High efficiency 400V/3 phase/50Hz, IE3 IP55 electric motors with F Class insulation

Star delta motor starting system

Easy of assembly and disassembly with bush pulleys on belt-pulley models

Direct coupled, long-lasting and efficient transfer system thanks to use of elastic couplings





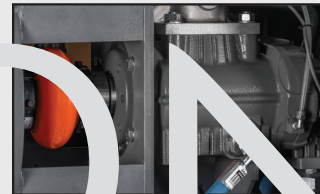
FRECON PLUS SERIES Rotary Screw Air Compressors

HERTZ FRECON PLUS series variable-speed compressors drive the motor with the frequency converter to adjust the compressor operation speed according to your 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. Responds to all requirements between 5.5 and 315 KW.

ADVANTAGES

- Up to 35% energy saving*
- Operation at constant output pressure
- Wide operating pressure range (5-14 bars)
- Soft & Smooth start up
- Protection against the adverse effects of peak currents
- Effective production of pressurized air even in case of highly variable pressure and air requirements

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



MAIN MOTOR AND DRIVE SYSTEM

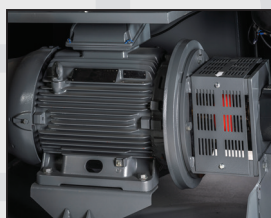
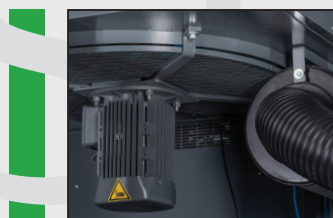
- Directly coupled one on one (1:1) with the elastic coupling
- Variable-speed starting with frequency converter
- High temperature protection with motor bearings (FRECON 55-315 Plus)
- High speed premium efficiency electric motor

AIR/OIL SEPARATOR

- Easy-to-detach spin-on type separator (FRECON 5-37 Plus)
- High-efficiency immersion type separator with long service life (FRECON 45-315 Plus)

COOLING SYSTEM

- Temperature controlled fan (FRECON 5-30 Plus)
- Axial cooling fans controlled with secondary fan inverter (FRECON 30-315 Plus)



OTHER FEATURES

- High temperature sensor for motor bearings (FRECON 55-315 plus)

ADDITIONAL OPTIONS TO THE GENERAL OPTIONS LIST

- Model options with Tank, without Tank, with or without separator (FRECON 5-315 Plus)
- Automatic greasing system

TECHNICAL DATA

Model	Pressure		Capacity*				Motor Power	Connection Size	Receiver Volume/ Dryer Model	Dimensions (mm)			Weight	Noise**
	bar	psi	Minimum		Maximum					Length	Width	Height	kg	dB(A)
			m³/min	cfm	m³/min	cfm	kW/HP							
FRECON 5 PLUS	7,5 10 13	110 145 190	0,38 0,37 0,36	11 10 14	1,03 0,83 0,64	32 27 23	5,5/7,5	G 1/2"	200-250L HRD 30	1025	650	950	235	69
FRECON 7 PLUS	7,5 10 13	110 145 190	0,42 0,43 0,43	14 13 12	1,40 1,20 0,95	42 35 29	7,5/10	G 1/2"	200-250L HRD 40	1025	650	950	255	70
FRECON 11 PLUS	7,5 10 13	110 145 190	0,77 0,81 0,74	27 29 16	1,80 1,61 1,30	64 57 46	11/15	G 3/4"	500L HRD 40	1175	730	1000	305	69
FRECON 15 PLUS	7,5 10 13	110 145 190	0,99 0,97 0,99	35 34 35	2,85 2,33 2,07	101 82 73	15/20	G 3/4"	500L HRD 50	1175	730	1000	345	71
FRECON 18 PLUS	7,5 10 13	110 145 190	1,10 1,00 1,10	37 36 38	3,50 3,00 2,60	124 106 92	18,5/25	G 1"	-	1275	850	1465	465	71
FRECON 22 PLUS	7,5 10 13	110 145 190	1,30 1,30 1,20	32 32 29	4,20 3,80 3,00	140 124 99	22/30	G 1"	-	1275	850	1465	500	71
FRECON 30 PLUS	7,5 10 13	110 145 190	1,22 1,22 1,21	43 43 43	5,30 4,60 4,00	187 162 141	30/40	G 1 1/4"	-	1575	1030	1750	695	71
FRECON 37 PLUS	7,5 10 13	110 145 190	1,30 1,30 1,30	46 45 44	6,80 5,80 5,00	240 205 177	37/50	G 1 1/4"	-	1575	1030	1750	715	71
FRECON 45 PLUS	7,5 10 13	110 145 190	1,30 1,20 1,20	46 43 44	7,60 6,80 5,90	268 240 208	45/60	G 1 1/4"	-	1575	1030	1750	945	73
FRECON 55 PLUS	7,5 10 13	110 145 190	2,50 2,40 2,60	88 84 91	9,90 8,20 7,40	350 290 261	55/75	G 1 1/2"	-	2000	1200	1810	1290	75
FRECON 75 PLUS	7,5 10 13	110 145 190	2,60 2,50 2,50	91 88 88	12,90 10,90 9,60	456 385 339	75/100	G 1 1/2"	-	2000	1200	1810	1390	77
FRECON 90 PLUS	7,5 10 13	110 145 190	6,20 6,00 6,20	220 213 221	16,80 14,40 12,30	593 509 434	90/125	G 2"	-	2500	1400	2037	2020	78
FRECON 110 PLUS	7,5 10 13	110 145 190	6,63 7,11 7,04	234 251 249	20,10 17,30 15,00	710 611 530	110/150	G 2"	-	2500	1400	2037	2380	78
FRECON 132 PLUS	7,5 10 13	110 145 190	6,90 6,80 9,74	244 239 344	24,30 20,30 18,10	858 717 639	132/180	G 2 1/2"	-	2750	1805	2000	2555	78
FRECON 160 PLUS	7,5 10 13	110 145 190	6,80 7,13 8,50	239 252 299	28,20 24,60 21,70	996 869 766	160/220	G 2 1/2"	-	2750	1805	2000	2760	78
FRECON 200 PLUS	7,5 10 13	110 145 190	14,03 13,90 13,81	495 490 488	37,50 32,30 28,80	1324 1141 1017	200/270	DN80	-	3250	2250	2450	4460	79
FRECON 250 PLUS	7,5 10 13	110 145 190	13,60 13,51 13,50	479 477 475	45,20 38,50 33,50	1596 1360 1183	250/340	DN100	-	3250	2250	2450	5600	79
FRECON 315 PLUS	7,5 10 13	110 145 190	13,20 13,23 12,93	466 467 457	54,10 44,30 38,00	1911 1564 1342	315/430	DN100	-	3250	2250	2450	6000	79

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

