



## 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  $\leq 3$  ppm

### Spin-on separator

Easy replacement, ease of assembly and disassembly

Design that does not require a separator tank

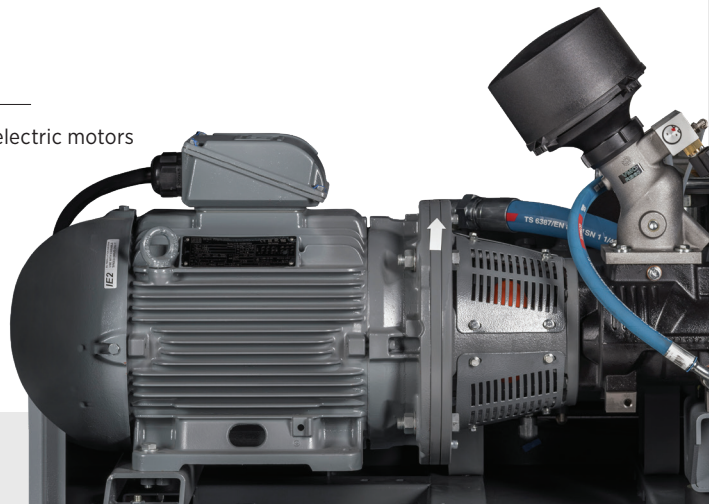
## MAIN MOTOR AND DRIVE SYSTEM

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

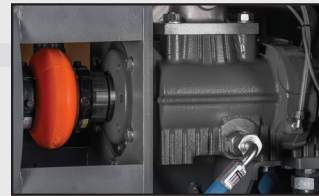
## Rotary Screw Air Compressors

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 value
- 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 pressurized air requirements

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



### MAIN MOTOR AND DRIVE SYSTEM

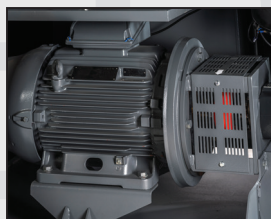
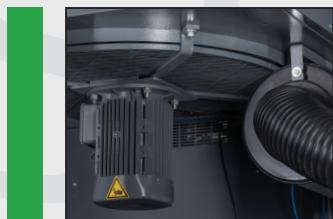
- Directly coupled one on one (1:1) with the elastic coupling
- Variable-speed starting with frequency converter
- High temperature protection with motor bearings (FRECON 55-315 Plus)
- High speed premium efficiency electric motor

### 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 Tank dryer (FRECON 5-15 Plus)
- Automatic greasing system

## TECHNICAL DATA

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

- 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.

