



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 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

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 value
- Wide operating pressure range (5-14 bars)
- Soft-starting
- 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 business 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)

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)

TECHNICAL DATA

MODEL	PRESSURE		CAPACITY				MOTOR POWER kW/HP	CONNECTION SIZE	DIMENSIONS mm			WEIGHT kg	NOISE dB(A)
	Bar	PSI	Minimum		Maximum				Width	Depth	Height		
			m ³ /min	SCFM	m ³ /min	SCFM							
FRECON 5 PLUS	7,5	110	0,38	11	1,03	32	5,5/7,5	1/2"	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	1/2"	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	3/4"	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	3/4"	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	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	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	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	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	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	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	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	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	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	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	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	NW80	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	NW100	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	NW100	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 C standard.
- Refers to sound pressure level measured according to ISO 2151:2004 and ISO 9614/2 with ± 3 dB(A) tolerance. Second values are for 13 bar versions.

hertz
KOMPRESSOREN