

Rotary Screw Compressors

FRECON PLUS Series

FRECON PLUS 5 / 7 / 11 / 15 / 18 / 22 / 30 / 37 / 45 / 55
75 / 90 / 110 / 132 / 160 / 200 / 250 / 315

hertz[®]
KOMPRESSOREN



HERTZ FRECON PLUS series variable speed drive (VSD) compressors are designed to reduce energy consumption of the facilities. Using high quality equipments and well engineered design satisfy all customer needs and provide efficient and flexible operation.

BENEFITS OF FRECON SERIES COMPRESSORS

- Energy savings up to 35%
- Constant pressure
- Wide working pressure range
- Soft starting
- Virtually infinite starts
- Prevent from negative effect of current peaks
- Effective air supply even in high fluctuation of air demand

AIR END

- New generation rotary screw air end with high capacity efficiency, durability and low energy consumption
- New generation bearing design with high load carrying capacity
- New rotor profile decreasing air leakages and required torque values

MAIN MOTOR AND DRIVE SYSTEM

- High efficiency 400V/3 phase/50Hz IE3 class IP55 electric motor
- Direct-drive system with flexible coupling
- VSD drive with heavy-duty frequency converter

AIR / OIL SEPARATORS

- Progressive type, deep bedded and meshed separation layers
- High performance design with three-stage separation
- Low oil carryover ≤ 3 ppm

AIR INTAKE SYSTEM

- Featured with three control block units, a solenoid valve and a control cylinder
- Low maintenance intake system
- Two stage air intake filter system

COOLING SYSTEM

- Aluminum combi-cooler for oil and compressed air with Bar/Plate system
- Four-way thermostatic valve
- Silent and effective axial fan
- Variable speed drive (VSD) fan motor (except FRECON 5-22 PLUS and water cooled models)

OTHER FEATURES

- Removable acoustic canopy & rigid base plate
- PLC control unit with LCD panel

OPTIONS

- Water cooling system
- Heat recovery system
- Cold start
- Water separator with automatic drainage system
- Power supply options other than 400V/3 phase/50Hz
- Food grade lubricant for food production need to add other features



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SPECIFICATIONS



MODEL ⁽¹⁾	PRESSURE		CAPACITY				MOTOR POWER kW/HP	CONNEC- TION SIZE	DIMENSIONS mm			WEIGHT kg	NOISE ⁽³⁾ dB(A)
	Bar	PSI	Minimum		Maximum				Width	Depth	Height		
			m³/min	SCFM	m³/min	SCFM							
FRECON 5 PLUS	7,5 10 13	110 145 190	0,30 0,29 0,40	11 10 14	0,91 0,75 0,64	32 27 23	5,5/7,5	1/2"	1025	650	950	235	69
FRECON 7 PLUS	7,5 10 13	110 145 190	0,40 0,37 0,35	14 13 12	1,20 1,00 0,83	42 35 29	7,5/10	1/2"	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	3/4"	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	3/4"	1175	730	1000	345	71
FRECON 18 PLUS	7,5 10 13	110 145 190	1,05 1,03 1,10	37 36 38	3,50 3,00 2,60	124 106 92	18,5/25	1"	1275	850	1465	465	71
FRECON 22 PLUS	7,5 10 13	110 145 190	0,91 0,91 0,83	32 32 29	3,95 3,50 2,80	140 124 99	22/30	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	1 1/4"	1575	1030	1750	695	71
FRECON 37 PLUS	7,5 10 13	110 145 190	1,29 1,28 1,25	46 45 44	6,80 5,80 5,00	240 205 177	37/50	1 1/4"	1575	1030	1750	715	71
FRECON 45 PLUS	7,5 10 13	110 145 190	1,29 1,22 1,24	46 43 44	7,60 6,80 5,90	268 240 208	45/60	1 1/4"	1575	1030	1750	945	73
FRECON 55 PLUS	7,5 10 13	110 145 190	2,48 2,38 2,58	88 84 91	9,90 8,20 7,40	350 290 261	55/75	1 1/2"	2000	1200	1810	1290	75
FRECON 75 PLUS	7,5 10 13	110 145 190	2,58 2,50 2,48	91 88 88	12,90 10,90 9,60	456 385 339	75/100	1 1/2"	2000	1200	1810	1390	77
FRECON 90 PLUS	7,5 10 13	110 145 190	6,22 6,03 6,25	220 213 221	16,80 14,40 12,30	593 509 434	90/125	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	2"	2500	1400	2037	2380	78
FRECON 132 PLUS	7,5 10 13	110 145 190	6,90 6,76 9,74	244 239 344	24,30 20,30 18,10	858 717 639	132/180	2 1/2"	2750	1805	2000	2555	78
FRECON 160 PLUS	7,5 10 13	110 145 190	6,77 7,13 8,46	239 252 299	28,20 24,60 21,70	996 869 766	160/220	2 1/2"	2750	1805	2000	2760	78
FRECON 200 PLUS	7,5 10 13	110 145 190	14,03 13,87 13,81	495 490 488	37,50 32,30 28,80	1324 1141 1017	200/270	NW80	3250	2250	2450	4460	79
FRECON 250 PLUS	7,5 10 13	110 145 190	13,56 13,51 13,46	479 477 475	45,20 38,50 33,50	1596 1360 1183	250/340	NW100	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	NW100	3250	2250	2450	6000	79

1. 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.

2. Refers to free air delivery measured according to ISO 1217:2009, Annex C standard.

3. 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.

