

Oil Injected Direct Driven VSD 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 Kompressoren FRECON PLUS Direct Driven Variable Speed series are designed to reduce energy consumption of the facilities. By using high quality and well engineered design components, we assure to 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

- 1:1 drive system with flexible coupling
- VSD drive with heavy-duty frequency converter

AIR / OIL SEPARATORS

- Easily replaceable spin-on type separator (Frecon 5-37 Plus)
- High capacity, longlife in line separator for (Above Frecon 5-37 Plus)
- Special Air-Oil separator tanks are designed by latest engineering softwares for low pressure drop, high separation efficiency and low acoustic emission.
- High performance design with three-stage separation
- Low oil carryover ≤ 3 ppm

AIR INTAKE SYSTEM

- Normally opened poppet type intake regulation (Frecon 18-75 Plus)
- Normally-closed butterfly type intake regulation (Frecon 75 Plus)
- High intake flow efficiency due to low pressure drop

- Glass-fibre prefilter provides efficient pre-separation and cleaner compressor canopy
- Air intake filter with high dust capacity, long service life and up to 99 % separation efficiency

COOLING SYSTEM

- Four-way thermostatic valve ensures all HERTZ Kompressoren rotary screw compressors work at optimum temperature during the operation
- Thermostatic valve increases cooling performance and eliminates the risk of water condensation inside the air-oil separator tank
- Aluminum bar and plate type compressor cooler which manufactured by vacuum-brazing technology for high efficiency and long life
- Combi-cooler design with oil cooler for compressor oil and integrated aftercooler to ensure low compressed air outlet temperature
- Axial cooling fans on main motor
- Separate, temperature controlled, silent and energy efficient axial cooling fans
- Supreme energy efficiency and constant compressor working temperature with inverter driven fan (Above Frecon 22 Plus)

STANDARD EQUIPMENTS

- Removable acoustic canopy & rigid base plate
- PLC control unit with LCD panel
- Water separator with automatic drain system

OPTIONS

- Water cooling system
- Heat recovery system
- Cold start
- Water separator with automatic drainage system
- Food grade lubricant for food production
- Tank mounted, dryer mounted versions are available

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SPECIFICATIONS

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| MODEL | PRESSURE | | CAPACITY | | | | MOTOR POWER kW/HP | CONNECTION SIZE | DIMENSIONS mm | | | WEIGHT kg | NOISE dB(A) |
|-----------------|----------|-----|----------|------|---------|------|-------------------|-----------------|---------------|-------|--------|-----------|-------------|
| | Bar | PSI | Minimum | | Maximum | | | | Width | Depth | Height | | |
| | | | m³/min | SCFM | m³/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 | | | | | | | |

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.

