



## 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  $\leq 3$  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-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 <sup>3</sup> /min | SCFM | m <sup>3</sup> /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.

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