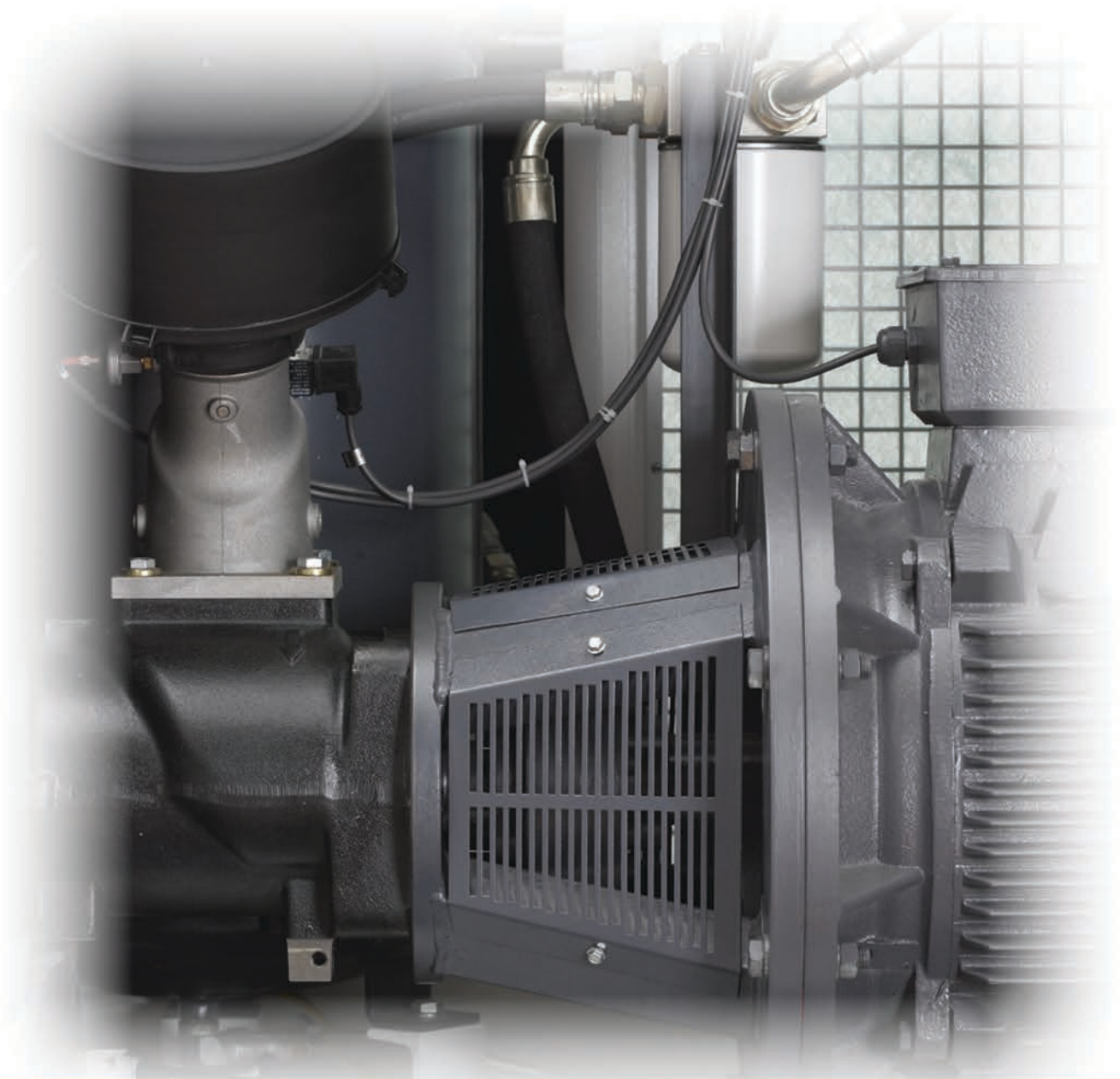




hertz[®]
KOMPRESSOREN

FRECON PLUS
Rotary Screw Air Compressors

Quality *in* details



FRECON PLUS Rotary Screw Air Compressors

BASE MOUNT VERSION



COMPACT VERSION
(Includes, tank, dryer, pre & post filter)

COMMITTED TO EXCELLENCE

HERTZ offers a complete range of compressors with proven quality through exceptional experience and know-how.

HERTZ FRECON PLUS series rotary screw air compressors provide highly efficient solutions. All **HERTZ** FRECON PLUS series compressor models are equipped with an exclusive **HERTZ** rotary screw block, manufactured with the most durable materials to ensure exceptional performance, efficiency and many years of operation.

CONTINUOUS SATISFACTION

Thanks to continuous development and innovation of material, machining and assembly techniques, we're confident

HERTZ FRECON PLUS series compressors will perform beyond your expectations.

USER FRIENDLY DESIGN

All **HERTZ** models are manufactured to suit a broad range of applications, easy & minimum maintenance, have long maintenance intervals and low operating costs. All spare parts are easily accessible from several CAPS service locations nationwide.

WORLDWIDE DISTRIBUTION

HERTZ offers the most reliable solutions for all kind of applications worldwide. The brand is represented by subsidiary companies and authorised partners in over 50 countries, with CAPS Australia the national sales and service agent in Australia.



ROTARY SCREW BLOCK

- New generation rotary screw blocks, designed with latest technological tools like “Computational Fluid Dynamics (CFD)” and “Finite Element Method (FEM)” and manufactured using high-end manufacturing techniques, provide high efficiency, durability and low energy consumption with new rotor profile and lobe combination.
- Each block contains new generation bearing system in which the bearings with three times more load carrying capacity than the standard designs are employed.
- The new rotor profile reduces air leakage with optimal lobe combination and decreases the torque needed to operate, less energy is needed to operate which leads to lower operating costs.

MAIN MOTOR AND DRIVE SYSTEM

- High efficiency MEPS2 class IP55 motors working with 3 phase/50Hz power inlet are used as standard in the FRECON PLUS series.
- Aside from driving motor with star-delta connection and soft starter, motor speed is adjusted according to the airflow demand by the inverter which adjusts the supply frequency of the motor leading to less energy consumption.
- The rotor shaft is driven by direct-drive with a flexible coupling placed between rotary screw block and main motor shaft.
- As a result the mechanical transmission losses are lower.
- The direct-drive mechanism is approximately three percent more efficient than the belt-pulley mechanism and it is mostly maintenance-free.
- The absence of belt and pulley means noise and vibration levels become noticeably lower.

AIR SUCTION SYSTEM

- Developed by using sophisticated engineering analysis tools like FEM and “Fluid Dynamics”.
- Simple design consisting of three control block units, a solenoid valve and a control cylinder, periodical maintenance services of the suction regulators are done easily and quickly.
- First class materials used in the suction regulator manufacturing provide reliable operating performance up to 8000 hours.
- The suction valve is fully perpendicular when opened, providing almost straight and unidirectional airflow and increased air outlet area by 25%. This new profile design of the suction regulator gives low pressure drops and high performance.
- Two stage air suction filter system consisting of replaceable front-panel filter from micro-glass fiber, replaceable cassette type air intake filter with paper element minimizes the problems caused in dirty environments by providing clean air for the rotary screw block and the cooling system.

AIR / OIL SEPARATORS

- More effective separation, deep bedded and meshed separation layers.
- These separators have high performance design providing three-stage separation.
- Less than 3 mg/m³ of oil density is transferred with compressed air during separation.

COOLING SYSTEM

- Aluminium combi cooler with long-life bar/plate system guarantees trouble-free operation in all conditions.
- Four-way thermostatic valve lengthens the lifecycle of oil and eliminates the risks of malfunctioning by preventing condensation at low temperatures.
- New blade profiles are supported with silent and effective axial fans operated by a standalone electric motor.
- New fan seats provide easy access and short time periods for clean-up during maintenance.
- Effective efficient cooling is achieved with variable speed drive (VSD) fan motor.

(except FRECON 5-18 PLUS and water cooled models)

ELECTRICAL SYSTEM

- FRECON PLUS series has LCD control panel indicating operational and service functions in a way that users from every level of experience can easily understand.
- Mechanical safety systems are supported with PLC controlled safety switches and relays to increase reliability.

CANOPY DESIGN

- Canopy design requires minimum floor space.
- Ergonomic design provides easy access for maintenance service by enabling access to every part of the compressor.
- Easily demountable-mountable service covers.
- Vibration pads produced from special rubber material to eliminate vibration.
- Electrostatic powder coat paint that is durable against corrosion and impacts.
- Flameproof foam canopy overlay that minimizes noise.

SAFETY AND WARNING SYSTEMS

- Main motor and fan motor overload control.
- Phase order, absence and instability control.
- Main motor overheat monitoring with PTC.
- Rotary screw overheat control.
- High pressure control.
- Separator clogging warning system.
- Intake filter warning system.
- Safety valve for separator tank.
- High pressure safety valve.
- Emergency stop button.
- Maintenance time warning system.

STANDARD FEATURES

- High efficiency rotary screw block.
- MEPS 2, IP55 main motor suitable for inverter application.
- Heavy-duty inverter.
- Direct-drive system with flexible coupling.
- VSD fan motor.

(except FRECON 5-18 PLUS and water cooled models)

- Demountable acoustic canopy.
- Rigid base plate.
- Micro-glass fiber pre-filter in EU3 norm.
- Air/oil separator providing ≤ 3 mg/m³ oil density and its tank.
- Dry type air intake filter at 3 micron resolution.
- Full flow oil filter at 10 micron resolution.
- Electro-pneumatic on-off controlled suction valve.
- Minimum pressure switch.
- Thermostatic valve.
- Fast discharge valve and its silencer.
- PLC control unit with LCD panel.

OPTIONS

- Water cooling system
- Water + air (hybrid) cooling system with heat recovery
- Oil heater
- Cold start
- Water separator with automatic drainage system



| MODEL ⁽¹⁾ | PRESSURE [bar] | | | CAPACITY ⁽²⁾ [lt/min] | MOTOR POWER [kW/HP] | CONNECTION SIZE | DIMENSIONS [mm] | | | WEIGHT [kg] | NOISE ⁽³⁾ [dBA] |
|----------------------|---------------------|--------------------|-------------------|-------------------------------------|---------------------------|--------------------|-----------------|-------|--------|----------------|-------------------------------|
| | Maximum | Nominal | Minimum | | | | Width | Depth | Height | | |
| FRECON 5 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 910 750 640 | 5.5 / 7.5 | 1/2" | 1100 | 650 | 950 | 235 | 69 |
| FRECON 7 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 1200 1000 830 | 7.5 / 10 | 1/2" | 1100 | 650 | 950 | 255 | 70 |
| FRECON 11 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 1800 1610 1300 | 11 / 15 | 3/4" | 1172 | 730 | 1000 | 305 | 69 |
| FRECON 15 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 2850 2330 2070 | 15 / 20 | 3/4" | 1172 | 730 | 1000 | 345 | 71 / 70 |
| FRECON 18 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 3500 3000 2600 | 18.5 / 25 | 1" | 1275 | 850 | 1465 | 465 | 71 / 70 |
| FRECON 22 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 4000 3500 2800 | 22 / 30 | 1" | 1275 | 850 | 1465 | 500 | 71 / 70 |
| FRECON 30 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 5300 4600 4000 | 30 / 40 | 1 1/4" | 1575 | 1030 | 1755 | 695 | 71 / 70 |
| FRECON 37 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 6800 5800 5000 | 37 / 50 | 1 1/4" | 1575 | 1030 | 1755 | 715 | 71 / 70 |
| FRECON 45 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 7600 6800 5900 | 45 / 60 | 1 1/4" | 1575 | 1030 | 1755 | 945 | 73 / 72 |
| FRECON 55 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 9900 8200 7400 | 55 / 75 | 1 1/2" | 2000 | 1200 | 1810 | 1290 | 75 / 74 |
| FRECON 75 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 12900 10900 9600 | 75 / 100 | 1 1/2" | 2000 | 1200 | 1810 | 1390 | 77 / 76 |
| FRECON 90 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 16800 14400 12300 | 90 / 125 | 2" | 2500 | 1400 | 2037 | 2020 | 78 / 77 |
| FRECON 110 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 20100 17300 15000 | 110 / 150 | 2" | 2500 | 1400 | 2037 | 2380 | 78 / 77 |
| FRECON 132 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 24300 20300 18100 | 132 / 175 | 2 1/2" | 2765 | 1805 | 2000 | 2555 | 78 / 77 |
| FRECON 160 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 28200 24600 21700 | 160 / 220 | 2 1/2" | 2765 | 1805 | 2000 | 2760 | 78 / 77 |
| FRECON 200 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 37500 32300 28800 | 200 / 270 | NW80 | 3250 | 2250 | 2450 | 4460 | 79 / 78 |
| FRECON 250 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 45200 38500 33500 | 250 / 340 | NW100 | 3250 | 2250 | 2450 | 5600 | 79 / 78 |
| FRECON 315 PLUS | 7.5 10.0 13.0 | 7.0 9.5 12.5 | 5.5 5.5 5.5 | 54100 44300 38000 | 315 / 430 | NW100 | 3250 | 2250 | 2450 | 6000 | 79 / 78 |

1. Values are recorded 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.



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