



## HPC PET PLUS SERIES RECIPROCATING BOOSTER COMPRESSORS



### STANDARD EQUIPMENT

High quality components, such as IP55 electric motors cast iron cylinder and crank cases dynamically balanced cast steel crank shaft and counter weight, cast steel connecting rods, CE certified air tanks complying with SPVD and designed as per EN 286-1 standard.



### RELIABILITY

HERTZ reciprocating compressors have laid the foundation of the trust for the HERTZ brand as they had been working for many years in many different applications and industries, especially in small enterprises since 1969, when they were first produced. HERTZ reciprocating compressors, which are trouble-free and with a long service life, may be used safely in many applications with single and double stage options.



## MAIN MOTOR AND DRIVE SYSTEM

- High efficiency 230/460V/3 phase/60Hz IE3 IP55 electric motor
- Special starting system with automatic discharge for no-load start



## COMPRESSOR BLOCK

- Cast iron cylinder with cooling fins and special aluminium alloy cylinder heads
- Specially designed high-speed stainless steel concentric valves.
- Cast iron crankcases of high strength
- Dynamically-balanced cast iron crankshaft and counterweight
- Special alloy aluminium pistons and iron cast connecting rods
- Specially designed finger-type, stainless steel high efficiency suction-discharge valves
- Stainless steel suction-discharge valves, specially designed for high pressure strength



## CONTROLLER

- Internal phase protection relay function
- Function for monitoring the mains voltage and frequency and keeping these at specified limits
- Multiple compressor control with up to 8 compressors without requiring an external main controller
- ModBus communication feature
- Alarm History Record for the last 9 alarms





## HPC PET PLUS SERIES Reciprocating Booster Compressors

HERTZ Pet-Plus new generation booster series compressors are designed to meet all the requirements of the customers with its low energy consumption and compact structure. These compressors may operate continuously at low operating temperatures with their integrated oil pumps and aluminium combo receiver tanks.

### ADVANTAGES

- Directly coupled, no loss of power transfer
- Continuous operation with integrated oil pump
- Low output air temperature with aluminium combo radiator
- Coupled power panel and separator



### MAIN MOTOR AND DRIVE SYSTEM

- Directly coupled one on one (1:1) with the elastic coupling

### COOLING SYSTEM

- 2-stage radiator (1 stage for air, 1 stage for oil cooling)
- Pre-cooling with valves and cylinders with cooling fins
- Cooling fan directly connected to the main motor

### LUBRICATION SYSTEM

- Lubrication of the pistons and pins is performed by the integrated oil pump driven by the main motor.

### CONDENSATE DISCHARGE SYSTEM

- Condensation water in the radiator is trapped by the integrated water separator and then it is removed from the system at certain intervals by the solenoid valve.



## CABINET DESIGN

- The lightweight and durable composite cabinet improves cooling performance, protects the upper heads from impact, and protects the operator from moving and hot equipment.

## ELECTRICAL SYSTEM

- PLC based control and system monitoring with digital display panel
- Multi-operation up to 8 compressors with optional equal ageing
- Flexible operation with up to 100 user parameters such as input-output air pressure and temperature, minimum operating, minimum oil pressure and maximum operating temperature

## OPTIONS

- High pressure air dryer
- High pressure air tanks comply with ASME standard
- Air filtering system with oil trap
- Food grade oil option
- Main motor with IE4 efficiency class
- Solid slate starter



# HPC PET PLUS SERIES

## Reciprocating Booster Compressors

### TECHNICAL DATA

| Model           | Pressure |     |         |     | Capacity (intake)*  |     |                     |     |                     |     |                     |     | Motor Power | Connection Size | Dimensions (in.) |       |        | Weight |
|-----------------|----------|-----|---------|-----|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|-----|-------------|-----------------|------------------|-------|--------|--------|
|                 | Minimum  |     | Maximum |     | 7 bar/100 psi       |     | 8.5bar/125 psi      |     | 10 bar/150 psi      |     | 13 bar/190 psi      |     |             |                 | Length           | Width | Height |        |
|                 | bar      | psi | bar     | psi | m <sup>3</sup> /min | cfm | m <sup>3</sup> /min | cfm | m <sup>3</sup> /min | cfm | m <sup>3</sup> /min | cfm |             |                 |                  |       |        |        |
| HPC PET-PLUS 20 | 15       | 218 | **40    | 580 | 3.54                | 125 | 4.31                | 152 | 5.08                | 180 | 5.85                | 207 | 15/20       | 1" NPT          | 54.3             | 43.3  | 40.6   | 963    |
| HPC PET-PLUS 25 | 15       | 218 | **40    | 580 | 5.55                | 196 | 6.76                | 239 | 7.97                | 281 | 9.18                | 324 | 18.5/25     | 1" NPT          | 58.4             | 43.3  | 40.6   | 1080   |
| HPC PET-PLUS 40 | 15       | 218 | **40    | 580 | 7.65                | 270 | 9.33                | 329 | 11.00               | 388 | 12.67               | 447 | 30/40       | 1 1/2" NPT      | 66.5             | 46.3  | 43.3   | 1664   |
| HPC PET-PLUS 50 | 15       | 218 | **40    | 580 | 9.15                | 323 | 11.15               | 394 | 13.15               | 466 | 15.14               | 535 | 37/50       | 1 1/2" NPT      | 66.5             | 46.3  | 43.3   | 1852   |

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\* Max. discharge pressure for 7 bar/100 psi inlet pressure is 35 bar/508 psi.