



## WAVE SERIES HIGH PRESSURE RECIPROCATING AIR 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 main 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





## WAVE SERIES

### High Pressure Reciprocating Air Compressors

Hertz proudly introduces new generation Wave of high pressure reciprocating compressors taking advancing the WAVE Series, which were developed in order to be used in all applications requiring high pressure, especially in the maritime sector, where Hertz has shown a keen interest and served from the day of its establishment.

#### MAIN MOTOR AND DRIVE SYSTEM

- Directly coupled with the elastic coupling
- Wye delta motor starting system



#### COOLING SYSTEM

- 4-stage radiator (3 stage for air, 1 stage for oil cooling)
- Pre-cooling with concentric valves 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.

#### ELECTRICAL SYSTEM

- Flexible operation with multiple user controlled parameters (such as input, output air pressure, temperature, maximum operating pressure, maximum oil pressure, maximum operating temperature)
- PLC based control and system monitoring with digital display panel



### 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 valves.

### CABINET DESIGN

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

### OPTIONS

- High pressure air dryer
- Air filtering system with oil trap
- Food grade lubricant
- Main motor with IE4 efficiency class
- Soft starter



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#### TECHNICAL DATA

Model	Pressure				Capacity (intake)		Voltage Frequency	Motor Power	Connection Size	Dimensions (in.)			Weight
	Maximum		Minimum							Length	Width	Height	
	bar	psi	bar	psi	m <sup>3</sup> /min	cfm							V/Hz
HW 52	**40	580	12	174	0.86	30	230/460/60	11/15	1" NPT	51.2	43.3	40.6	937
HW 64	**40	580	12	174	1.45	51	230/460/60	15/20	1" NPT	51.2	43.3	40.6	1016
HW 108	**40	580	12	174	2.21	78	230/460/60	22/30	1" NPT	62.2	46.3	43.3	1510
HW 166	**40	580	12	174	2.82	100	230/460/60	30/40	1" NPT	64.6	46.3	43.3	1702

\* HERTZ KOMPRESSOREN reserves its rights to make changes in its products and specifications without prior notice.

\*\* Max. discharge pressure is 40 bar/580 psi for marine applications, 45 bar/653 psi for industrial applications