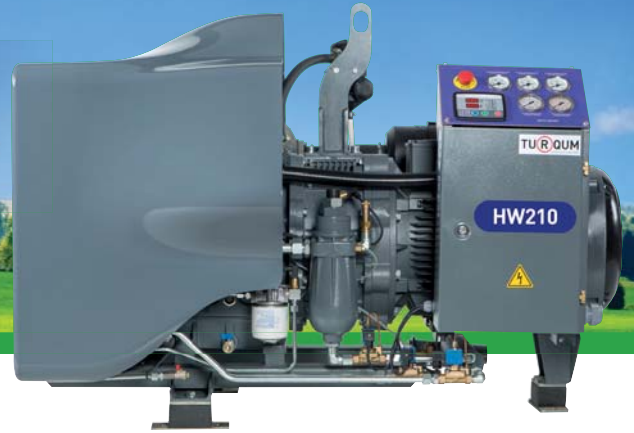


Piston Compressors

WAVE SERIES STARTING AIR

HW64 / HW108 / HW166 / HW210

hertz[®]
KOMPRESSOREN



HERTZ proudly presents its new WAVE Series starting air compressors, HERTZ has taken its previous starting air compressor series one step further by developing it for all applications where medium pressure is a must, especially for the maritime sector where HERTZ has served meticulously since its establishment. Thanks to W type compressor design, low compression ratios can be obtained in WAVE series compressors, which produce low temperature outlet air, resulting in consuming less energy for air cooling. In addition to this, low power transmission losses can be secured with a directly coupled motor shaft and crankshaft. This model shows high stability and performance characteristics even in 55 °C ambient temperatures when operating non-stop in full-load conditions. WAVE series compressors provide flexible operation and effective system control opportunities to its owners with continuous full-load operation, adjustable pressure levels between 12 and 45 bars, and the control panel indicating machine performance data and maintenance periods.

COMPRESSOR BLOCK

- Heavy-duty type cast-iron crankcase with oil level indicator, blowdown valve and oil fill/drain plug
- Cast-iron cylinders with cooling fins
- Sphero cast crankshaft and counter weight
- Pistons casted from special aluminum alloy and sphero cast connecting rods
- Special design high speed concentric valves made from stainless steel
- Compression and oil retaining rings

MAIN MOTOR AND DRIVE SYSTEM

- High efficiency 400V/3 phase/50Hz IE3 class IP55 electric motor
- Direct-drive system with flexible coupling
- Motor drive system with star-delta connection

COOLING SYSTEM

- The radiator unit with four-stage cooling (air cooling at three stages, oil cooling at one stage)
- Precooling by concentric valves which are placed at the first stage of HW64 and HW108 models, and at the first and second stages of HW166 and W210 models
- Radiator fan directly coupled to main motor shaft

LUBRICATION SYSTEM

Oil pump operated by main motor shaft for the lubrication of pistons and connection rod bearings

WATER DRAINING SYSTEM

Water vapor, condensed at radiator cooling stages with conical separator with moisture separator

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SPECIFICATIONS



ENCLOSURE DESIGN

- Lightweight enclosure made from composite material
- Enclosure drains cooling air to cool the entire package
- Enclosure prevents contact with moving and hot parts of the compressor

OPTIONS

- Soft-starter
- Oil heater
- Remote control
- Diesel engine on demand
- Power supply options other than 400V/3 phase/50Hz
- High pressure air dryer

MODEL	PRESSURE				CAPACITY (intake)		MOTOR SPEED rpm	VOLTAGE FREQUENCY V/Hz	MOTOR POWER kW/HP	CONNECTION SIZE	DIMENSIONS mm			WEIGHT kg	NOISE dB(A)
	Maximum		Minimum		lt/min	SCFM					Width	Depth	Height		
	bar	PSI	bar	PSI											
HW64	40	580	12	174	1077 1293	38,1 45,7	1500 1800	380-415/50 440-460/60	11/15 13/18	1"	1300	1100	1030	411	80
HW108	40	580	12	174	1807 2168	63,8 76,6	1500 1800	380-415/50 440-460/60	15/20 22/30	1"	1300	1100	1030	421	81
HW166	40	580	12	174	2767 3321	97,7 117,3	1500 1800	380-415/50 440-460/60	30/40 36/48	1"	1580	1175	1100	630	83
HW210	40	580	12	174	3526 4232	124,6 149,5	1500 1800	380-415/50 440-460/60	37/50 44/59	1"	1640	1175	1100	680	84

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