



## HPC SINGLE AND DOUBLE STAGE 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 400V/3 phase/50Hz IP55 electric motor
- Special loadless start system and automatic discharge system for loadless 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 with high strength
- Dynamically-balanced cast steel crankshaft and counterweight
- Special alloy aluminium pistons and steel cast connecting rods
- Specially designed finger-type, high-capacity stainless steel suction-discharge valves
- Stainless steel suction-discharge valves, specially designed for high pressure strength





## HPC SINGLE AND DOUBLE STAGE Reciprocating Air Compressors

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

- Belt-pulley drive system
- Specially designed fan type fly wheel pulley
- Easy tensioning of belt



### SAFETY SYSTEMS

- Solenoid discharge valve for loadless start (on models over 4 kW)
- Pressure switch
- Check valve
- Belt pulley guard
- Relief valve
- Easy tensioning of belt

### OTHER FEATURES

- CE Certified air tanks complying with SPVD (Simple Pressure Vessel Directive) and designed as per EN 286-1 standard



- Bearings with a long service life
- Air suction filter and silencer
- Impact lubrication system
- Starting panel (For 1.1 - 4 kW models)



### OPTIONS

- Automatic Condensate Discharge Valve for the Air Tank
- Star delta motor starting panel (For 5.5-7.5kW models)



## TECHNICAL DATA

Model	Pressure		Capacity (intake)		Motor Power	Connection Size	Dimensions (mm)			Weight	Air Receiver
	bar	psi	L/min	cfm	kW/HP		Length	Width	Height	kg	L
Single-Stage Reciprocating Series											
HPC-S1	8	115	205	7.2	1,1/1,5	G 1/2"	1202	426	894	93	80
HPC-S2	8	115	327	11.5	1,5/2,0	G 1/2"	1202	426	914	106	80
HPC-S3	8	115	410	14.5	2,2/3,0	G 1/2"	1531	450	1037	135	200
HPC-S5	8	115	607	21.4	4,0/5,5	G 1/2"	1830	466	1145	209	250
HPC-S7	8	115	1013	35.8	5,5/7,5	G 3/4"	1927	664	1291	308	500
HPC-S10	8	115	1657	58.5	7,5/10	G 3/4"	1926	668	1413	390	500
Double-Stage Reciprocating Series											
HPC-T2/200	12	175	205	7.2	1,5/2,0	G 1/2"	1532	450	983	145	200
HPC-T5	15	215	507	17.9	4/5,5	G 3/4"	1832	474	1097	230	250
HPC-T7	12	175	856	30.2	7,5/10	G 3/4"	1920	658	1298	374	500
HPC-T10	15	215	828	29.2	7,5/10	G 3/4"	1925	669	1406	439	500

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## HPC SERIES STARTING AIR HIGH PRESSURE RECIPROCATING AIR COMPRESSORS



### STANDARD EQUIPMENT

High quality components such as IP55 electric motors with the IE3 efficiency class, star delta motor starter system, electrical materials selected according to IEC, UL/cUL, CE standards as per the market requirements, durable compressor blocks are provided as standart in all our products.



### RELIABILITY

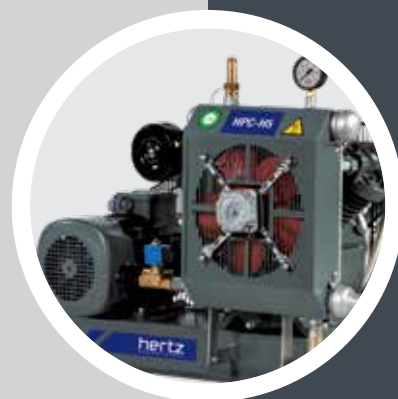
HERTZ proudly introduces HPC SERIES of high pressure reciprocating compressors, which are developed in order to be used in all applications requiring high pressure, especially in the maritime sector, where HERTZ has shown a keen interest and served from the day of its establishment until today.





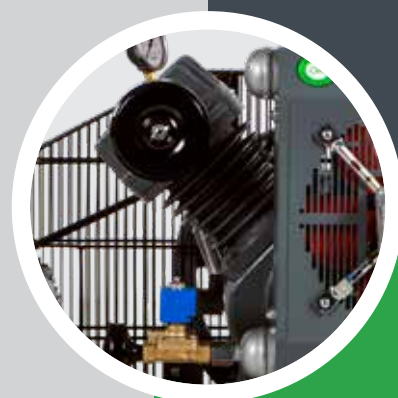
## MAIN MOTOR AND DRIVE SYSTEM

- High efficiency 400V/3 phase/50Hz IE3 IP55 electric motor
- Special loadless start system and automatic discharge system for loadless 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 with high strength
- Dynamically-balanced cast steel crankshaft and counterweight
- Special alloy aluminium pistons and steel cast connecting rods
- Specially designed finger-type, high-capacity stainless steel suction-discharge valves
- Stainless steel suction-discharge valves, specially designed for high pressure strength





# HPC SERIES STARTING AIR High Pressure Reciprocating Air Compressors

HERTZ proudly introduces HPC series of high pressure reciprocating compressors, which are 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 until today.

## MAIN MOTOR AND DRIVE SYSTEM

- Belt-pulley drive system
- Specially designed fan type cast iron fly wheel pulley
- Easy belt tensioning system

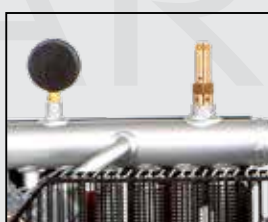


## SAFETY SYSTEMS

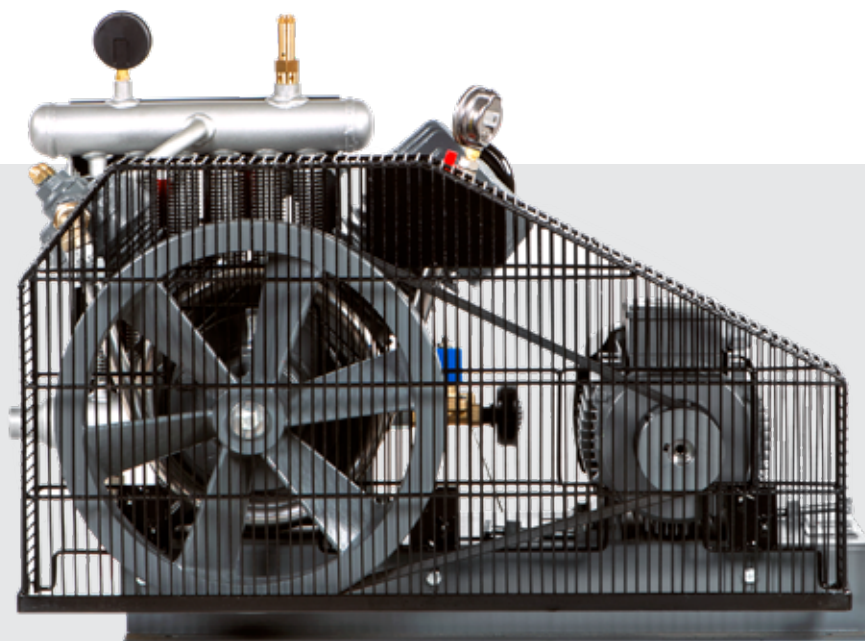
- Manual discharge valve
- Integrated check valve on the air discharge line
- Belt pulley housing grill
- High pressure switch
- First and second stage safety valves
- Outlet pressure manometer
- First stage pressure manometer

## OTHER FEATURES

- Turkish and French Lloyd Bureau Veritas type-approval certifications



- Automatic discharge system for loadless start
- Bearings with a long service life
- Outlet air cooling radiator
- Air suction filter and silencer



#### OPTIONS

- High Pressure dryer
- High Pressure air tank made of CE certified P265GH pressurized container steel
- Star delta motor starting system
- Main motor with IE4 efficiency class



### TECHNICAL DATA

Model	Pressure		Capacity (intake)		Motor Power kW/HP	Connection Size	Dimensions (mm)			Weight kg
	bar	psi	L/min	cfm			Length	Width	Height	
HPC-H5	40	580	507	17,9	4/5.5	G 3/4"	933	576	662	153
HPC-H15	40	580	1060	37,4	11/15	G 1"	1312	1213	718	363
HPC-H20	40	580	1657	58,5	15/20	G 1"	1295	897	832	422

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## HPC BOOSTER SERIES RECIPROCATING BOOSTER AIR COMPRESSORS



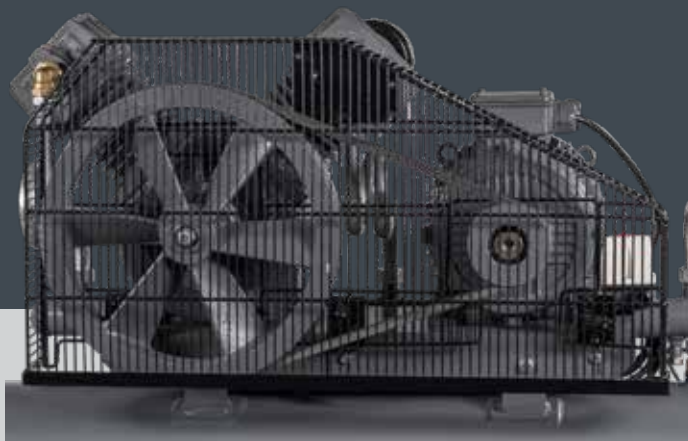
### STANDARD EQUIPMENT

High quality components such as IP55 electric motors with the IE3 efficiency class, star delta motor starter system, electrical materials selected according to IEC, UL/cUL, CE standards as per the market requirements, durable compressor blocks are provided as standart in all our products.



### RELIABILITY

HERTZ pressurizes the air entering the compressor at 7 13 bar up to 40 bars with the HPC series booster compressors in its production range. The HPC booster series products have been preferred by pet bottle manufacturers for many years and have been successfully used in many companies



## MAIN MOTOR AND DRIVE SYSTEM

- High efficiency 400V/3 phase/50Hz IE3 IP55 electric motor
- Special loadless start system and automatic discharge system for loadless 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 with high strength
- Dynamically-balanced cast steel crankshaft and counterweight
- Special alloy aluminium pistons and steel cast connecting rods
- Specially designed finger-type, high-capacity stainless steel suction-discharge valves
- Stainless steel suction-discharge valves, specially designed for high pressure strength





## HPC BOOSTER SERIES

### Reciprocating Booster Air Compressors

HERTZ pressurizes the air entering the compressor at 7-13 bar up to 40 bars with the HPC Boosters Series booster compressors in its production range. The HPC Boosters Series products have been preferred by pet bottle manufacturers for many years and have been successfully used in many companies.

#### MAIN MOTOR AND DRIVE SYSTEM

- Belt-pulley drive system
- Specially designed fan type cast iron pulley
- Easy belt tensioning system

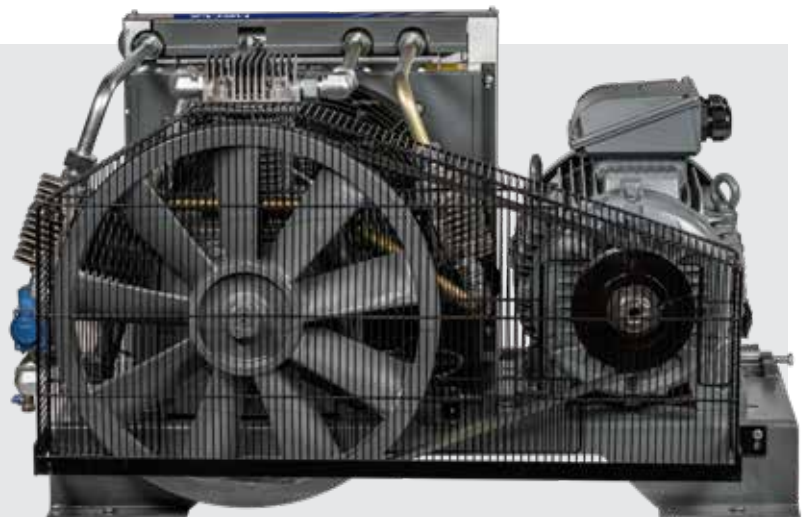


#### SAFETY SYSTEMS

- Intake air control system
- High pressure switch
- Manual discharge valve
- Integrated check valve on the air outlet line
- Belt pulley housing grill
- Outlet pressure manometer
- High pressure relief valve

#### OTHER FEATURES

- Automatic discharge system for loadless start
- Bearings with a long service life
- Outlet air cooling radiator
- Loaded-Unloaded operating options



- Air suction filter and silencer for unloaded operation
- Lubrication system with whisking rod
- Oil level gauge
- Special discharge system preventing oil leakage from blowdown valve



### OPTIONS

- High pressure air dryer
- High pressure air tank made of CE certified P265GH pressurized container steel (EN 286-1)
- Air filtering system with oil trap
- Food grade oil option
- Main motor with IE4 efficiency class



## TECHNICAL DATA

Model	Pressure				Capacity (intake)						Motor Power	Connection Size	Dimensions (mm)			Weight
	Minimum		Maximum		7 bar (inlet)		10 bar (inlet)		13 bar (inlet)				Length	Width	Height	
	bar	psi	bar	psi	m³/min	cfm	m³/min	cfm	m³/min	cfm	kW/HP					kg
HPC BOOSTER 10	15	218	40	580	2,10	74	2,89	102	3,67	130	7,5/10	G 1"	1286	825	753	268
HPC BOOSTER 15	15	218	40	580	2,45	87	3,37	119	4,29	152	11/15	G 1"	1286	825	753	285
HPC BOOSTER 20	15	218	40	580	3,71	131	5,10	180	6,49	229	15/20	G 1"	1357	820	758	300
HPC BOOSTER 25	15	218	40	580	4,90	173	6,73	238	8,57	303	18,5/25	G 1 1/4"	1423	874	736	345
HPC BOOSTER 30	15	218	40	580	5,56	196	7,65	270	9,74	344	22/30	G 1 1/4"	1423	881	736	390
HPC BOOSTER 40	15	218	40	580	6,68	236	9,18	324	11,68	413	30/40	G 1 1/4"	1423	972	736	426

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## HPC PET PLUS SERIES RECIPROCATING BOOSTER COMPRESSORS



### STANDARD EQUIPMENT

High quality components such as IP55 electric motors with the IE3 efficiency class, star delta motor starter system, electrical materials selected according to IEC, UL/cUL, CE standards as per the market requirements, durable compressor blocks are provided as standart in all our products.



### ADVANTAGES

Hertz Hpc 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. 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

- High efficiency 400V/3 phase/50Hz IE3 IP55 electric motor
- Special loadless start system and automatic discharge system for loadless 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 with high strength
- Dynamically-balanced cast steel crankshaft and counterweight
- Special alloy aluminium pistons and steel cast connecting rods
- Specially designed finger-type, high-capacity stainless steel 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 boilers.

### 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 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 tank made of CE certified P265GH pressurized container steel
- Air filtering system with oil trap
- Food grade oil option
- Main motor with IE4 efficiency class
- Soft starter



## TECHNICAL DATA

Model	Pressure		Capacity (intake)						Motor Power	Connection Size	Dimensions (mm)			Weight
	bar	psi	7 bar (inlet)		10 bar (inlet)		13 bar (inlet)				Length	Width	Height	
			m³/min	cfm	m³/min	cfm	m³/min	cfm	kW/HP					kg
HPC PET PLUS 25	40	580	4,5	158	6,2	218	7,9	277	18,5/25	1"	1380	1100	1030	450
HPC PET PLUS 40	40	580	7,0	248	9,7	341	12,3	434	30/40	1"	1485	1100	1030	510
HPC PET PLUS 50	40	580	9,7	342	13,3	471	17,01	599	37/50	1 1/2"	1690	1175	1100	745
HPC PET PLUS 60	40	580	11,6	409	16,0	563	20,2	716	45/60	1 1/2"	1690	1175	1100	775

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## WAVE SERIES HIGH PRESSURE RECIPROCATING AIR COMPRESSORS



### STANDARD EQUIPMENT

High quality components such as IP55 electric motors with the IE3 efficiency class, star delta motor starter system, electrical materials selected according to IEC, UL/cUL, CE standards as per the market requirements, durable compressor blocks are provided as standart in all our products.



### RELIABILITY

Wave series high pressure reciprocating compressors taking advancing the HPC 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 esteblishement until today.



## MAIN MOTOR AND DRIVE SYSTEM

- High efficiency 400V/3 phase/50Hz IE3 IP55 electric motor
- Special loadless start system and automatic discharge system for loadless 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 with high strength
- Dynamically-balanced cast steel crankshaft and counterweight
- Special alloy aluminium pistons and steel cast connecting rods
- Specially designed finger-type, high-capacity stainless steel 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



\*Only on Pet Plus and Wave reciprocating models with high pressure





# 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 until today.

### MAIN MOTOR AND DRIVE SYSTEM

- Directly coupled with the elastic coupling
- Star 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
- High pressure air tank made of CE certified P265GH pressurized container steel
- Air filtering system with oil trap
- Food grade oil option
- Main motor with IE4 efficiency class
- Soft starter



## TECHNICAL DATA

Model	Pressure				Capacity (Intake)		Voltage Frequency	Motor Power	Connection Size	Dimensions (mm)			Weight	Noise
	Minimum		Maximum							Length	Width	Height		
	bar	psi	bar	psi	L/min	cfm	V/Hz	kW/HP					kg	dB(A)
HW 52	40	580	12	174	862	30,5	460/60	11/15	G 1"	1300	1100	1030	425	80
HW 64	40	580	12	174	1077	38,1	400/50	11/15	G 1"	1300	1100	1030	411	80
					1445	51,1	460/60	15/20		1580	1175	1100	461	81
HW 108	40	580	12	174	1806	63,8	400/50	15/20	G 1"	1580	1175	1100	421	81
					2214	78,2	460/60	22/30					685	83
HW 166	40	580	12	174	2767	97,7	400/50	30/40	G 1"	1580	1175	1100	630	83
					2821	99,6	460/60	30/40		1640			772	84
HW 210	40	580	12	174	3526	124,5	400/50	37/50	G 1"	1640	1175	1100	680	84

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## PET MASTER OIL-FREE RECIPROCATING COMPRESSORS



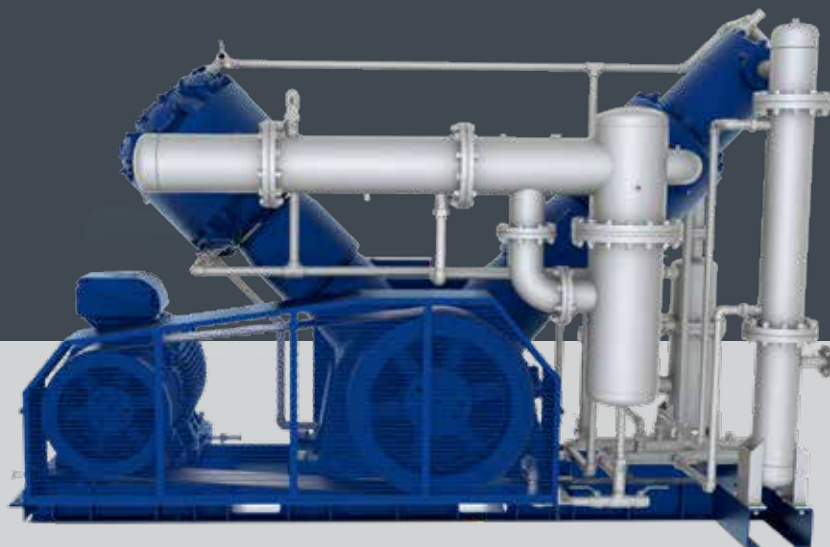
### STANDARD EQUIPMENT

High quality components such as IP55 electric motors with the IE3 efficiency class, star delta motor starter system, electrical materials selected according to IEC, UL/cUL, CE standards as per the market requirements, durable compressor blocks are provided as standard in all our products.



### ADVANTAGES

HERTZ PET MASTER Series are reliable and high performance oil free reciprocating air compressors used in the pet bottling, food and health industries. Pet Master Compressors provide 100% oil free pressurized air as no oil is used in the compression chamber. They operate between 0 and 40 Bar. As they have an integrated structure, they occupy less space and provide ease of installation.



## MAIN MOTOR AND DRIVE SYSTEM

- High efficiency 400V/3 phase/50Hz IE3 IP55 electric motor
- Special loadless start system and automatic discharge system for loadless start



## CONTROLLER\*

- Advanced, high-definition, userfriendly 7" color touchscreen
- High speed, industrial type PLC infrastructure with robust construction
- Encrypted Access Protection system with various levels of authorization.
- Display of relevant data on the screen clearly, trend graph recording and active monitoring
- Alarm History Record for the last 100 alarms
- Ethernet / ModBus communication functions as standard
- Remote monitoring and control feature /
- Compliance with GSM, internet and Industry 4.0
- Flexible programmable/expandable Input /Output structure



\*Only on Pet Plus and Wave reciprocating models with high pressure





## PET MASTER

### Oil-Free Reciprocating Compressors

HERTZ PET MASTER Series are reliable and high performance oil free reciprocating air compressors used in the pet bottle blowing, food and health industries.

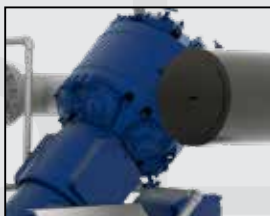
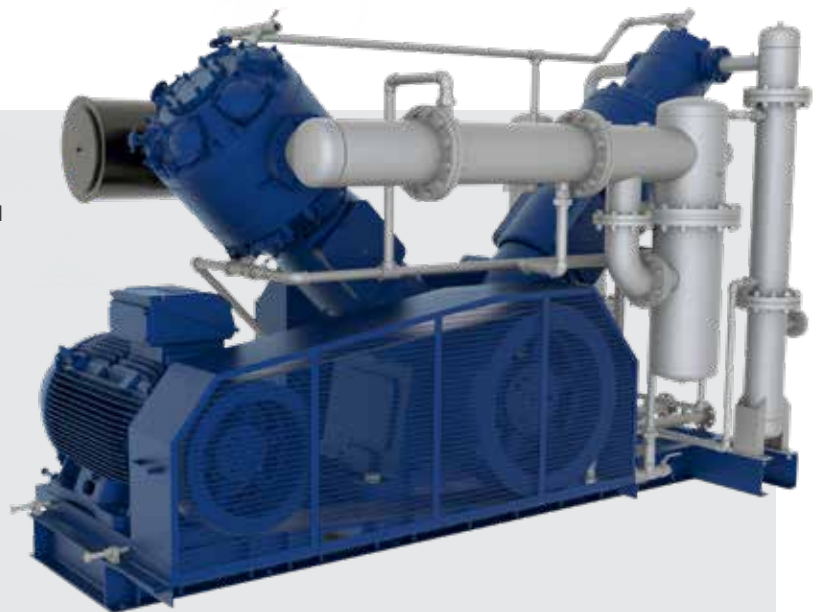
#### ADVANTAGES

- Pet Master Compressors provide 100% oil-free pressurized air as no oil is used in the compression chamber.
- They operate between 0 and 40 Bar. As they have an integrated structure, they occupy less space and provide ease of installation and installation.



#### GENERAL SPECIFICATION

- For intercoolers and aftercoolers, stainless steel pipe is used which is more efficient in terms of heat transfer and more resistant to corrosion.
- The structure of the coolers is designed to transfer air through the pipe and water through the body wall. Thanks to their compact design, pipe-type coolers are easy-to-maintain and their cooling efficiency is high.
- Compressor provides energy saving by operating with Load / Unload control system within maximum and minimum pressure set values determined according to system requirements.
- The integrated electrical system provides user-friendly operation.





## CONTROLLER

- Advanced, high-definition, user friendly 7" color touchscreen
- High speed, industrial type PLC infrastructure with robust construction
- Encrypted Access Protection system with various levels of authorization.
- Display of relevant data on the screen clearly, trend graph recording and active monitoring
- Alarm History Record for the last 100 alarms
- Ethernet / ModBus communication functions as standard
- Remote monitoring and control feature / Compliance with GSM, internet and Industry 4.0
- Flexible programmable/expandable Input /Output structure



## TECHNICAL DATA

Model	Pressure		Capacity		Motor Power	Connection Size	Dimensions (mm)			Weight
	bar	psi	m³/min	cfm			Length	Width	Height	
PET MASTER 50	40	580	3,6	127	37/50	G 1 1/4"	3647	1669	2395	5500
PET MASTER 75	40	580	5,5	194	55/75	G 1 1/4"	3647	1669	2395	5500
PET MASTER 100	40	580	7,4	261	75/100	G 1 1/4"	3673	1744	2470	6500
PET MASTER 125	40	580	9,10	321	90/125	G 1 1/4"	3673	1744	2470	6500
PET MASTER 150	40	580	11,6	410	110/150	G 2"	4192	1977	2814	7500
PET MASTER 180	40	580	13,5	477	132/180	G 2"	4192	1977	2814	7500
PET MASTER 220	40	580	16,4	579	160/220	G 2"	4192	1977	2814	7800
PET MASTER 270	40	580	21,3	752	200/270	G 2"	4234	2203	2841	9200
PET MASTER 300	40	580	23,0	812	220/300	G 2"	4234	2203	2841	9200

Model	Pressure		Capacity				Motor Power	Connection Size	Dimensions (mm)			Weight
			Minimum		Maximum				Length	Width	Height	
	bar	psi	m³/min	cfm	m³/min	cfm	kW/HP					kg
PET MASTER 75 VSD	40	580	4,1	145	5,5	194	55/75	G 1 1/4"	3533	1811	2403	5600
PET MASTER 125 VSD	40	580	6,8	240	9,10	321	90/125	G 1 1/4"	3550	1812	2431	6650
PET MASTER 180 VSD	40	580	10,1	357	13,5	477	132/180	G 2"	4168	1975	2814	7750
PET MASTER 220 VSD	40	580	12,3	434	16,4	579	160/220	G 2"	4168	1975	2814	8000
PET MASTER 300 VSD	40	580	17,3	611	23,0	812	220/300	G 2"	4223	2212	2840	9500

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