COMPRESSOR

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Building the Future!

Hertz is committed to developing the technology of compressors with a continued focus on performance and energy efficiency with our motto “Building the Future”.

It’s an endless journey, and whatever the conditions, Hertz will accompany you throughout this journey. We build the future together with an approach that encourages collaboration and creative problem-solving.

As Hertz, we understand all your needs for high-quality compressed air and offer products and services that will provide maximum added value to you and your processes with our quality standards and advanced engineering approach with our productive and dynamic teammates.

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ABOUT US

Hertz Kompressoren is the premium export brand of Dalgakiran, one of the leading air compressor producers in the world which has developed a truly international compressed air sales & service network worldwide.

Hertz Kompressoren was founded in Germany in 2005. Today, we use our more than 20 years of design and manufacturing experience to provide you the ideal air solutions for your business.

Building the Future!

With our visionary orientation, we continuously develop our products and services under the guidelines of efficiency and sustainability. We are continuously working on more efficient and robust compressors that provide the specific requirements of each industry in order to contribute to sustainability by reducing the energy consumption of the facilities.

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COMPRESSOR RANGE

Hertz manufactures to suit your compressed air needs with a wide range product portfolio.

Our compressors are designed to provide maximum uptime and reliability with a low total cost of ownership.

We provide the specific requirements of each industry. Our air compressors ensure all industry-specific demands such as cost-efficiency, robustness, easy serviceability.

ROTARY SCREW, RECIPROCATING, SCROLL, TURBO, GAS

ROTARY SCREW & SCROLL COMPRESSORS

INDEX


315
IMPETUS
WATER COOLED
HEAT RECOVERY

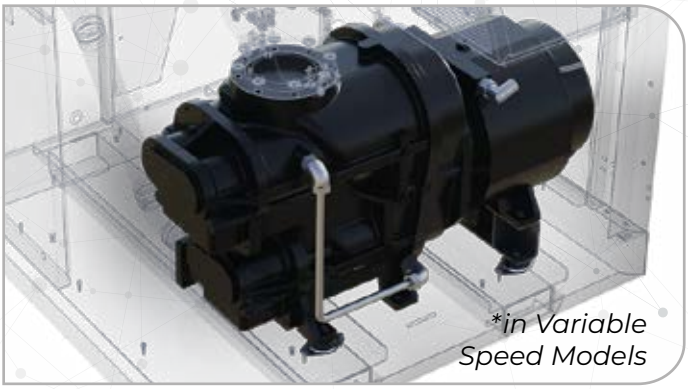
1,03-18,95 m³/min

22-90 kW

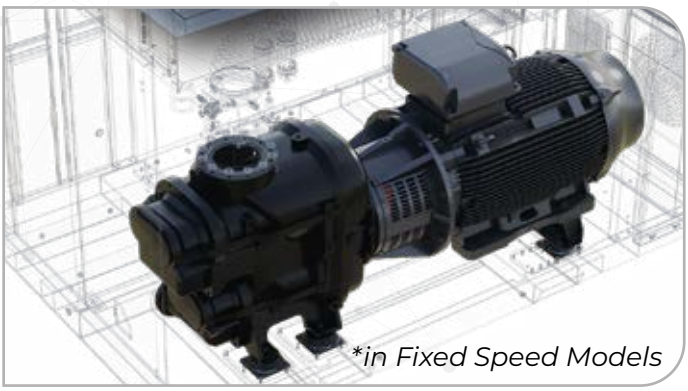
7,5-8,5-10-13 bar

General Features

- IE4 efficiency-class electric motors in fixed speed models
- IE5 efficiency-class IPM electric motors in variable speed models
- Two-stage screw block
- Water cooling (37 kW and above)
- Variable and fixed speed motor power options
- Soft start with variable speed power transmission
- Heat recovery (optional)
- Operating with low noise level
- Integrated dryer (optional)



*in Variable Speed Models



*in Fixed Speed Models

Screw Block

- Direct coupled
- Two-stage screw produces energy efficiency by up to 10%
- Higher flow rate by up to 10% with two-stage screw
- With two-stage compression near isothermal compression
- Compact design with no power transmission element requirement in variable speed models
- Zero transmission losses by compact direct power transmission in variable speed models
- Thanks to low compression rate low axial and compression forces between screw blocks
- Thanks to low rotor speeds, a long service life
- Reliable operation thanks to elastomer coupling on fixed speed models
- Low noise and vibration levels

Electric Motor

In Fixed Speed Models;

- IE4 energy efficiency-class electric motors
- Optimised air cooling
- Motors have B-class temperature increase

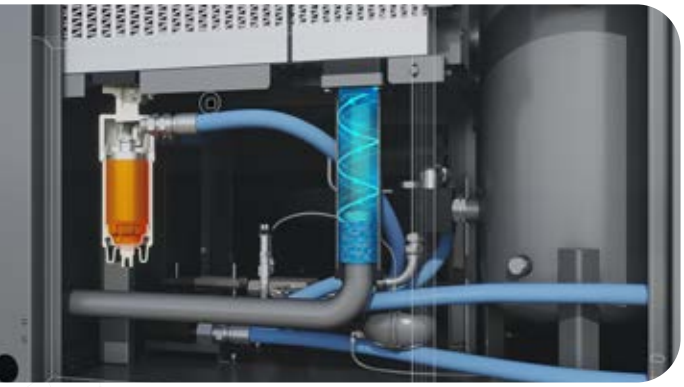
In Variable Speed Models;

- Ultra Premium IE5 energy efficiency-class electric motors
- Internal Permanent Magnet Motor (IPM)
- Compact design
- F-class insulation
- Optimum oil cooling at all speeds for high efficiency
- Grease-free lubricated motor bearings

Electric Motor Drive*

- The drive and IMP meet the requirements of IES2 (EN50598)
- Functionality in a single unit
- Uses fewer components
- Long service life helps minimize environmental impact

*Applicable for variable speed models.



Air Filter

- Two-stage filtration (Initial filtration/precision filtration)
- 99.9% efficiency in particle separation down to microns
- Low pressure loss (starting pressure fall<3mbar)
- Easy maintenance
- Long service life

Oil Filter

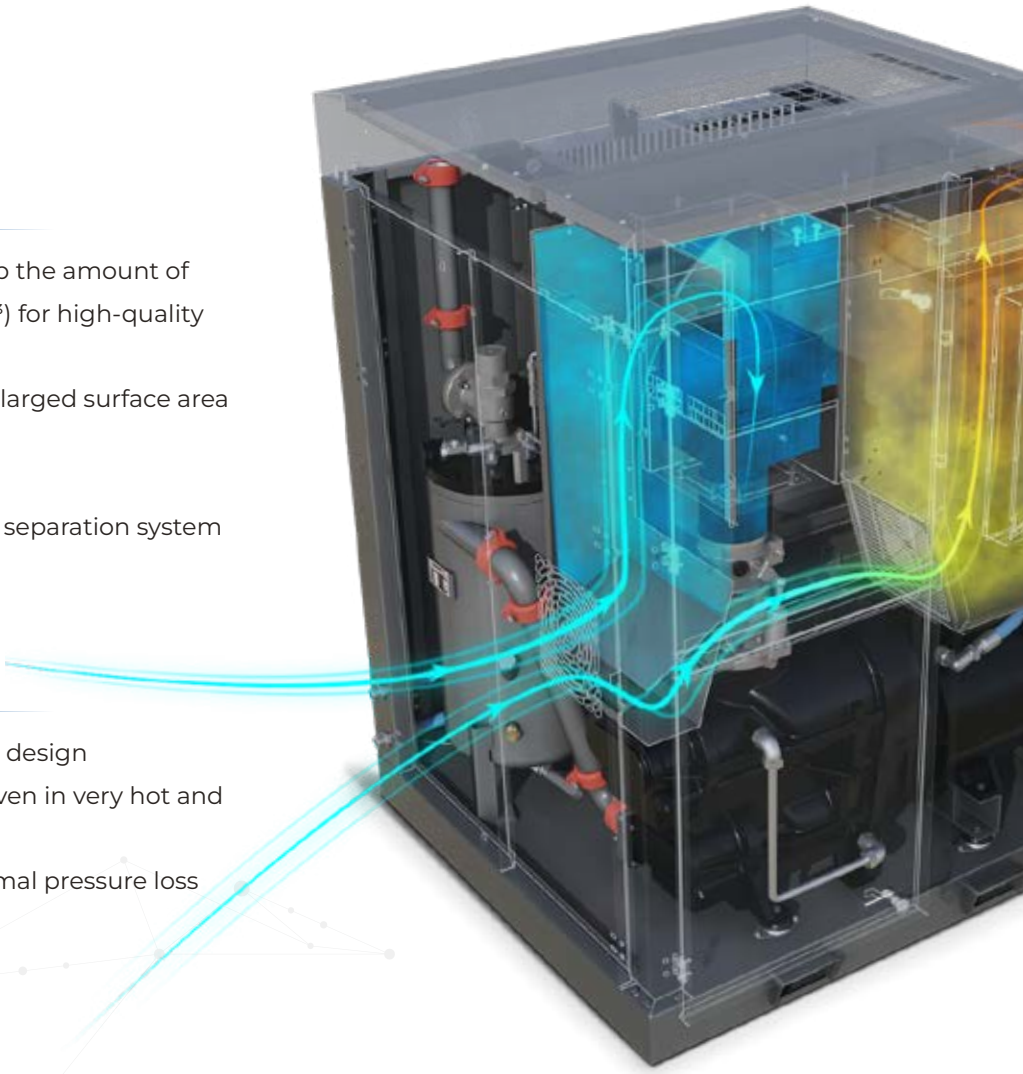
- Non-metallic, environmentally friendly and recyclable oil filter
- Aluminium housing
- Easy maintenance
- Compact design

Separator System

- Effective separator elements keep the amount of oil in the outlet air low (1-3 mg/m³) for high-quality compressed air
- Sep-n-sep type separator with enlarged surface area (55 kW and above)
- Easy to service
- High efficiency three stage air-oil separation system

Water Separator

- Compact, integrated, and unique design
- Separation performance is %99 even in very hot and humid conditions
- High energy efficiency with minimal pressure loss



Model	Pressure		Capacity*				Motor Power	Connection Size	Dimensions (mm)			Controller	Weight	Noise
			Minimum		Maximum									
	bar	psi	m³/min	cfm	m³/min	cfm	kW/hp		Length	Width	Height		kg	dB (A)
IMPETUS VSD 22	7,5	110	1,03	36	4,35	154	22/30	G 1 1/4"	955	1095	1580	Smartronic Pro	750	72
	8,5	125	1,04	37	4,17	147								
	10	145	1,03	36	3,76	133								
IMPETUS VSD 30	7,5	110	1,64	58	6,36	225	30/40	G 1 1/4"	955	1095	1580	Smartronic Pro	875	72
	8,5	125	1,62	57	5,91	209								
	10	145	1,59	56	5,41	191								
IMPETUS VSD 37	7,5	110	1,79	63	7,76	274	37/50	G 1 1/2"	1195	1250	1860	Smartronic Pro	1220	71
	8,5	125	1,79	63	7,27	257								
	10	145	1,77	63	6,52	230								
IMPETUS VSD 45	7,5	110	2,33	82	9,30	329	45/60	G 1 1/2"	1195	1250	1860	Smartronic Pro	1400	72
	8,5	125	2,31	82	8,73	308								
	10	145	2,30	81	8,01	283								
IMPETUS VSD 55	7,5	110	2,62	93	11,60	410	55/75	G 2"	1400	1450	1965	Smartronic Pro	1620	72
	8,5	125	2,56	90	10,85	383								
	10	145	2,55	90	9,54	337								
IMPETUS VSD 75	7,5	110	3,57	126	16,01	565	75/100	G 2"	1400	1450	1965	Smartronic Pro	1760	72
	8,5	125	3,63	128	15,27	539								
	10	145	3,55	125	13,22	467								
IMPETUS VSD 90	7,5	110	5,21	184	18,95	669	90/125	DN65	2775	1805	1926	Smartronic c300	2846	75
	8,5	125	5,21	184	17,99	635								
	10	145	5,18	183	16,46	581								

Model	Pressure		Capacity*		Motor Power	Connection Size	Dimensions (mm)			Weight	Noise
	bar	psi	m³/min	cfm	kW/HP		Length	Width	Height	kg	dB (A)
IMPETUS 22	7,5	110	3,93	139	22/30	G 1 1/4"	990	1670	1580	1055	70
	8,5	125	3,36	119							
	10	145	3,39	120							
	13	190	2,54	90							
IMPETUS 30	7,5	110	5,91	209	30/40	G 1 1/4"	990	1670	1580	1220	70
	8,5	125	5,07	179							
	10	145	5,08	179							
	13	190	4,3	151							
IMPETUS 37	7,5	110	7,08	250	37/50	G 1 1/2"	1345	1905	1860	1790	63
	8,5	125	7,07	250							
	10	145	6,07	214							
	13	190	5,19	183							
IMPETUS 45	7,5	110	8,94	316	45/60	G 1 1/2"	1343	1905	1860	2060	63
	8,5	125	8,79	310							
	10	145	7,79	275							
	13	190	6,66	235							
IMPETUS 55	7,5	110	10,97	388	55/75	G 2"	1565	2220	1965	2220	66
	8,5	125	10,96	387							
	10	145	8,8	311							
	13	190	7,58	268							
IMPETUS 75	7,5	110	14,98	529	75/100	G 2"	1565	2220	1965	2590	70
	8,5	125	13,98	494							
	10	145	12,59	445							
	13	190	9,99	353							

- Unit performances measured 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 reserves its rights to make changes in its products and specifications without prior notice.

* Refers to free air delivery measured according to ISO 1217:2009, Annex E and C standard.

5,1-62,3 m³/min

90-315 kW

7,5-8,5 10-13 bar

General Features

- IE4 efficiency-class electric motors
- Two-stage screw block
- Variable and fixed speed motor power options
- Water cooling and heat recovery (optional)
- Operating with low noise level

Screw Block

- Two-stage screw block produces energy efficiency by up to 10%
- Higher flow rate by up to 10% comparing to single stage
- Direct coupled
- Reduced internal losses
- Thanks to low compression rate, low axial and compression forces
- Thanks to low rotor speeds, a long service life
- With two-stage compression near isothermal compression
- Reduced axial and compression forces resulting in longer screw and bearing service life

Electric Motor

- IE4 efficiency-class electric motors
- B-class temperature increase
- Continuous operating feature

Intake Chamber

- Intake in cold air directly from the environment contributes to energy efficiency by up to 2%
- High energy efficiency with minimized intake pressure losses
- Improved acoustic designs result in low noise levels

Cooling System

- High cooling efficiency in compact air and oil heat exchangers
- Suitable design for operating up to 45°C
- Low noise level with low speed radial fans
- Energy efficiency with optimum oil temperature thanks to VSD-controlled radial fans

Model	Pressure		Capacity*				Motor Power	Connection Size	Dimensions (mm)			Weight	Noise
			Minimum		Maximum								
	bar	psi	m³/min	cfm	m³/min	cfm	kW/HP		Length	Width	Height	kg	dB (A)
IMPETUS VSD 90	7,5	110	5,38	189	18,44	651	90/125	DN65	2775	1805	1926	3835	75
	8,5	125	5,36	189	17,33	612							
	10	145	5,24	185	15,87	560							
	13	190	5,15	181	13,66	482							
IMPETUS VSD 110	7,5	110	7,08	250	23,12	816	110/150	DN65	2775	1805	1926	4200	75
	8,5	125	6,9	243	21,68	766							
	10	145	6,88	242	20,2	713							
	13	190	6,82	240	17,25	609							
IMPETUS VSD 132	7,5	110	7,94	280	27,88	985	132/180	DN80	2950	1950	2000	4675	75
	8,5	125	7,9	278	26,4	932							
	10	145	7,59	268	24,51	866							
	13	190	7,5	264	21,35	754							
IMPETUS VSD 160	7,5	110	8,5	299	32,45	1146	160/220	DN80	2950	1950	2000	5300	76
	8,5	125	8,25	291	30	1059							
	10	145	8,39	296	28	989							
	13	190	9,14	322	24,98	882							
IMPETUS VSD 200	7,5	110	11,8	416	42,86	1514	200/270	DN 100	3500	2250	2350	6550	78
	8,5	125	11,8	416	39,94	1410							
	10	145	11,6	410	37,01	1307							
	13	190	11,4	402	30,54	1079							
IMPETUS VSD 250	7,5	110	17,34	612	52,41	1851	250/340	DN 100	3500	2250	2350	9400	79
	8,5	125	17,12	604	49,13	1735							
	10	145	16,76	591	45,86	1620							
	13	190	17,33	612	38,84	1372							
IMPETUS VSD 315	7,5	110	16,86	595	62,01	2190	315/430	DN 100	3500	2250	2350	9680	80
	8,5	125	16,85	595	59,31	2095							
	10	145	16,81	593	55,24	1951							
	13	190	30,33	1071	45,96	1623							

Model	Pressure		Capacity*		Motor	Connection Size	Dimensions (mm)			Weight	Noise
	bar	psi	m³/min	cfm	kW/HP		Length	Width	Height	kg	dB (A)
IMPETUS 90	7,5	110	18,42	650	90/125	DN65	2775	1805	1926	3660	75
	8,5	125	14,72	520							
	10	145	14,65	517							
	13	190	13,65	482							
IMPETUS 110	7,5	110	23,89	844	110/150	DN65	2775	1805	1926	4000	75
	8,5	125	21,76	768							
	10	145	18,49	653							
	13	190	14,57	515							
IMPETUS 132	7,5	110	26,25	927	132/180	DN80	2950	1950	2000	4500	75
	8,5	125	26,07	921							
	10	145	23,62	834							
	13	190	21,82	771							
IMPETUS 160	7,5	110	31,72	1120	160/220	DN80	2950	1950	2000	5000	76
	8,5	125	31,29	1105							
	10	145	25,78	910							
	13	190	25,60	904							
IMPETUS 200	7,5	110	43,49	1536	200/270	DN 100	3500	2250	2350	6220	78
	8,5	125	40,70	1437							
	10	145	34,77	1228							
	13	190	30,62	1081							
IMPETUS 250	7,5	110	53,40	1886	250/340	DN 100	3500	2250	2350	9120	79
	8,5	125	50,49	1783							
	10	145	42,15	1524							
	13	190	40,53	1431							
IMPETUS 315	7,5	110	62,67	2213	315/430	DN 100	3500	2250	2350	9400	80
	8,5	125	56,95	2011							
	10	145	55,18	1949							
	13	190	44,13	1558							

- Unit performances measured 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.
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* Refers to free air delivery measured according to ISO 1217:2009, Annex E and C standard.

PM Technologies by smartpower

0,25-14,58 m³/min

5-75 kW

7,5-8,5 10-13 bar

General Features

- IE5 high efficiency-class IPM electric motor
- Operating with low noise level
- Soft start with variable speed power transmission
- Dryer and tank mounted option (up to 22 kW)
- Integrated dryer and heat recovery recovery option (18 kW and above)

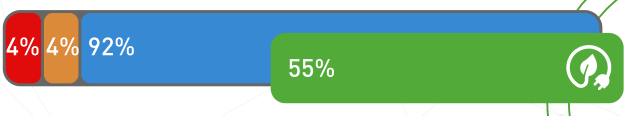
Advantages

- One of the products in its class that takes up
- the least footprint.
- It saves up to 55% energy.*
- It operates at constant output pressure value.
- It has wide operating pressure range (5-13 bar).**
- It provides effective and energy efficient compressed air production even in case of highly variable compressed air requirements.
- Long component life cycle thanks to soft start.
- It has the feature of protecting against the adverse effects of peak currents.

* When compared with compressors without an inverter for applications with variable requirements

** If requested, it is produced specially according to the need.

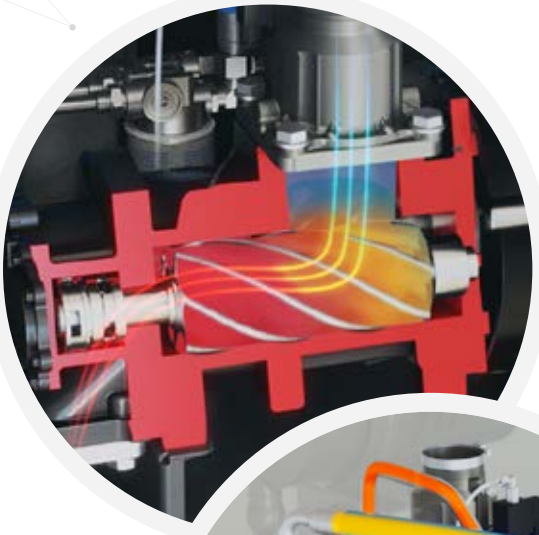
up to 55%* energy savings



- Energy Consumption
- Energy Savings With VSD Motor
- Initial Investment
- Maintenance

Screw Block

- Zero transmission losses by compact direct power transmission
- High performance even at low speeds
- New rotor profiles for reduced loss air production
- Next gen bearing design for improved load bearing capabilities
- Thanks to low rotor speeds, a long service life



Electric Motor

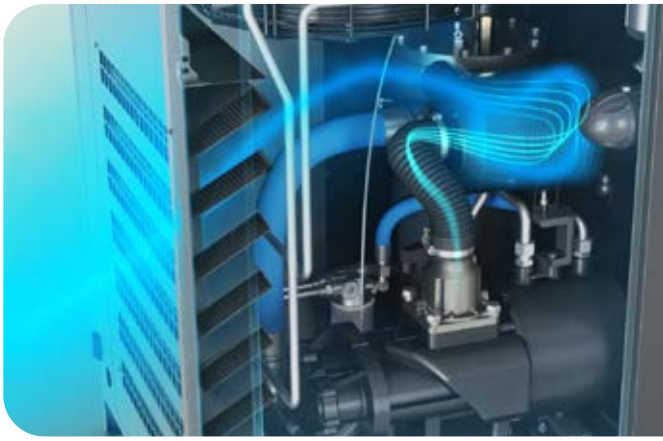
- IE5 Ultra Premium energy efficient Internal Permanent Magnet (IPM) electric motor
- Compact design
- Low noise level
- F-class insulation
- Optimum oil cooling at all speeds for high efficiency
- Grease-free lubricated motor bearings

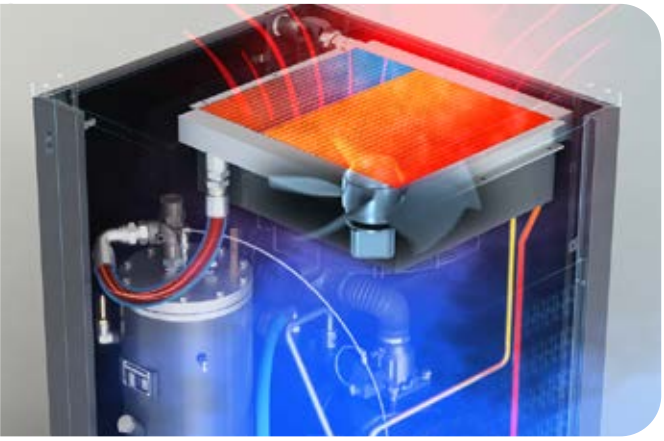
Intake System

- Air circulation inside the cabin with negative pressurized cabin and sealed cover structure
- Fresh air intake thanks to hot air evacuated at a point away from the suction
- Low noise level thanks to intake blinds (11 kW and above)

Air Filter

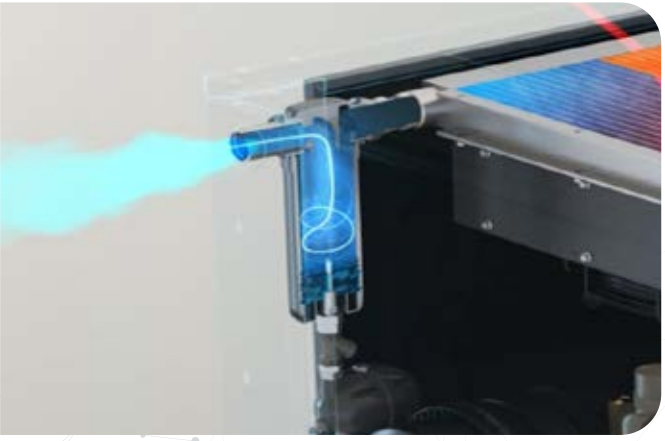
- 99.9% efficiency in particle separation down to 3 microns
- Low pressure loss (starting pressure fall <3mbar)
- Easy maintenance
- Long service life





Cooling System

- Temperature controlled axial fan (Frecon Plus PM 5-15)
- Optimum working temperature thanks to inverter controlled fans, provides additional energy efficiency (18 kW and above)



Water Separator

- Separation performance is >%99 even in very hot and humid conditions
- Compact, integrated and unique design (18 kW and above)
- High energy efficiency with minimal pressure loss (18 kW and above)

Model	Pressure		Capacity*				Motor	Connection	Dimensions [Length x Width x Height] (mm)		Weight (kg)		Air Receiver	Noise
			Minimum		Maximum									
	bar	psi	m³/min	cfm	m³/min	cfm	kW/HP		Base Mounted	Tank + Dryer	Base Mounted	Tank + Dryer		dB (A)
FRECON PLUS PM 5	7,5	110	0,27	9,5	0,91	32,1	5,5/7	G1/2"	755 x 630 x 1100	1870 x 680 x 1600	153	316	250L	63
	8,5	125	0,28	9,9	0,83	29,3								
	10	145	0,25	8,8	0,71	25,1								
	13	190	0,25	8,8	0,53	18,7								
FRECON PLUS PM 7	7,5	110	0,32	11,3	1,24	43,9	7,5/10	G1/2"	755 x 630 x 1100	1870 x 680 x 1600	153	335	250L	64
	8,5	125	0,31	10,9	1,13	39,8								
	10	145	0,27	9,5	1,00	35,3								
	13	190	0,42	14,8	0,74	26,2								
FRECON PLUS PM 11	7,5	110	0,58	20,5	2,01	70,9	11/15	G3/4"	835 x 730 x 1200	1870 x 730 x 1700	210	394	250L	69
	8,5	125	0,56	19,8	1,89	66,8								
	10	145	0,54	19,1	1,69	59,6								
	13	190	0,51	18,0	1,13	39,8								
FRECON PLUS PM 15	7,5	110	0,75	26,5	2,5	88,3	15/20	G3/4"	835 x 730 x 1200	1870 x 730 x 1700	236	423	250L	69
	8,5	125	0,73	25,8	2,3	81,3								
	10	145	0,6	21,2	1,94	68,4								
	13	190	0,59	20,8	1,36	48								
FRECON PLUS PM 18	7,5	110	0,81	28,6	3,4	120	18,5/25	G1"	870 x 905 x 1400	2150 x 1225 x 1950	350	766	2x270L	64
	8,5	125	0,77	27,2	3,2	113								
	10	145	0,72	25,4	2,83	99,8								
	13	190	0,66	23,3	2,39	84,5								
FRECON PLUS PM 22	7,5	110	1,08	38,1	3,9	138	22/30	G1"	870 x 905 x 1400	2150 x 1225 x 1950	338	759	2x270L	68
	8,5	125	0,97	34,3	3,66	129								
	10	145	0,99	35,0	3,26	115								
	13	190	0,92	32,5	2,65	93,4								
FRECON PLUS PM 30	7,5	110	1,36	48,0	5,61	198	30/40	G1 1/2"	1030 x 935 x 1400	-	468	-	-	70
	8,5	125	1,32	46,6	5,2	184								
	10	145	1,32	46,6	4,73	167								
	13	190	1,2	42,4	3,87	137								
FRECON PLUS PM 37	7,5	110	1,84	65,0	6,64	235	37/50	G1 1/2"	1030 x 935 x 1400	-	475	-	-	73
	8,5	125	1,71	60,4	6,27	221								
	10	145	1,51	53,3	5,55	196								
	13	190	1,31	46,3	4,54	160								
FRECON PLUS PM 45	7,5	110	1,42	50,6	8,43	298	45/60	G1 1/2"	1095 x 1300 x 1600	-	760	-	-	73
	8,5	125	1,41	49,8	7,93	280								
	10	145	1,37	48,4	7,22	255								
	13	190	-	-	-	-								
FRECON PLUS PM55	7,5	110	2,5	88,3	10,42	368	55/75	G1 1/2"	1095 x 1300 x 1600	-	910	-	-	74
	8,5	125	2,44	86,2	9,65	341								
	10	145	2,42	85,5	8,76	310								
	13	190	-	-	-	-								
FRECON PLUS PM 75	7,5	110	3,42	121	14,58	515	75/100	G 2"	1295 x 1400 x 1700	-	1130	-	-	75
	8,5	125	3,31	117	13,92	492								
	10	145	3,25	115	12,76	451								
	13	190	-	-	-	-								

- Unit performances measured 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 reserves its rights to make changes in its products and specifications without prior notice.

* Refers to free air delivery measured according to ISO 1217:2009, Annex E standard.

6-54,10 m³/min

90-315 kW

7,5-10-13 bar

Advantages

- Up to 65% energy saving*
- Operation at constant output pressure value
- Wide operating pressure range (5-14 bar)**
- Long component life cycle thanks to soft start
- Protection against the adverse effects of peak currents
- Effective and energy efficient compressed air production even in case of highly variable compressed air requirements

* When compared with compressors without an inverter for applications with variable requirements
** If requested, it is produced specially according to the need.

Screw Block

- A durable and specially selected patented screw block that provides high capacity air according to the capacity needs of each model
- New rotor profiles for reduced loss air production
- Next gen bearing design for improved load bearing capabilities

Main Motor and Drive System

- IE3 efficiency-class electric motor
- Direct coupled (1:1)
- Elasting coupling for a maintenance free long-lasting and efficient power transmission system
- Variable-speed starting with frequency converter
- High temperature protection for motor bearings

Air & Oil Separator

- Spin-on or immersion type separator design depending on the product series
- High-efficiency immersion type separator with long service life

Controller

- Internal ModBus communication
- User-friendly on-screen interface
- Multi-operation capability of up to 5 compressors
- The ability to perform both pressure and temperature PID at the same time with its Dual PID feature

Model	Pressure		Capacity*				Motor (kW/HP)	Connection	Dimensions [Width x Length x Height] (mm)	Weight (kg)
	bar	psi	Minimum m³/min	Minimum cfm	Maximum m³/min	Maximum cfm				
FRECON 90 PLUS	7,5	110	6,2	219	16,8	593	90/125	G 2"	2525 x 1440 x 2037	2020
	10	145	6	212	14,4	509				
	13	190	6,2	219	12,3	434				
FRECON 110 PLUS	7,5	110	6,6	233	20,1	710	110/150	G 2"	2525 x 1440 x 2037	2380
	10	145	7,1	250	17,3	611				
	13	190	7	247	15	530				
FRECON 132 PLUS	7,5	110	6,9	244	24,3	858	132/180	G 2 1/2"	2775 x 1820 x 2000	2555
	10	145	6,8	240	20,3	717				
	13	190	9,7	343	18,1	639				
FRECON 160 PLUS	7,5	110	6,8	240	28,2	996	160/220	G 2 1/2"	2775 x 1820 x 2000	2760
	10	145	7,1	251	24,6	869				
	13	190	8,5	300	21,7	766				
FRECON 200 PLUS	7,5	110	14	494	37,5	1324	200/270	DN80	3290 x 2285 x 2455	4460
	10	145	13,9	491	32,3	1141				
	13	190	13,8	487	28,8	1017				
FRECON 250 PLUS	7,5	110	13,6	480	45,2	1596	250/340	DN100	3315 x 2285 x 2455	5600
	10	145	13,5	477	38,5	1360				
	13	190	13,5	477	33,5	1183				
FRECON 315 PLUS	7,5	110	13,2	466	54,1	1911	315/430	DN100	3315 x 2285 x 2455	6000
	10	145	13,2	466	44,3	1564				
	13	190	12,9	456	38	1342				

- Unit performances measured 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 reserves its rights to make changes in its products and specifications without prior notice.

* Refers to free air delivery measured according to ISO 1217:2009, Annex E standard.

0,2-12,5 m³/min

2,2-75 kW

7,5-8,5 10-13 bar

General Features

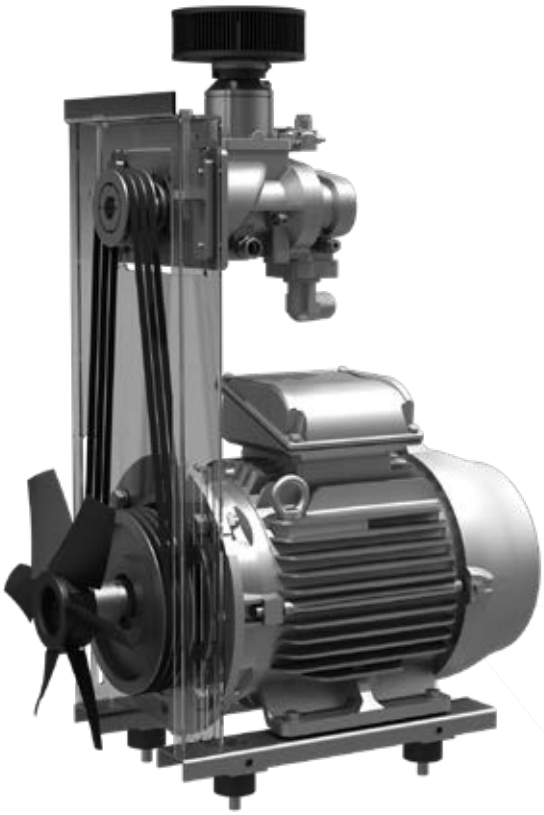
- Next gen screw block and motor
- Electronic control
- Designed for continuous operation
- Dryer and tank-mounted (optional 2,2-22 kW)

Advantages

- One of the products in its class that takes up the least footprint.
- Blind cover allows you to place it up against the wall. Convenient placement makes for easy servicing, maintenance, and access. (22 kW and below)
- Optimized intake chamber and insulated cold air intake increase energy efficiency. (30 kW and above)
- Compact design has the compressed air widget and compressor in a single place.
- Meets your expectations and demands at the optimal level.
- Efficient motor keeps energy use and costs down.
- High-quality components for a long service life and low maintenance costs.

Screw Block

- Durable screw block provides high-capacity air and is specially selected for each model's capacity requirement
- Operated in high ambient temperatures and offers superior reliability
- Air production with less loss thanks to new rotor profiles
- Next gen bearing design which increased load-bearing capacity
- Low maintenance and replacement costs



Main Motor and Drive System

- IE3 efficiency-class electric motor
- Star/delta motor starter
- Belt-pulley drive system
- Easy-to-use belt tensioner
- Pulley bushing for easy servicing

Cooling System

- High efficiency thanks to optimized cooling performance
- Temperature-controlled additional axial fan (30-75 kW)
- Minimum footprint with quiet and effective axial fan coupled directly to the main motor (2,2-22 kW)

Intake System

- Optimized air intake chamber to separate cool air intake and hot air discharge
- Insulated cold air intake for energy efficiency (30 kW and above)
- Optimized noise levels

Air Filter

- Two-stage filtration (initial filtration/precision filtration) (18 kW and above)
- 99.9% efficiency in particle separation down to 3 microns
- Low pressure loss
- Easy maintenance
- Long service life

Oil Separator

- Longer lasting separators keep maintenance costs down
- Effective separator elements keep the amount of oil in the outlet air low (1-3 mg/m³) for high-quality compressed air

Model	Pressure		Capacity*		Motor	Connection	Dimensions [Width x Length x Height] (mm)		Weight (kg)		Air Receiver
	bar	psi	m³/min	cfm	kW/HP		Base Mounted	Tank + Dryer	Base Mounted	Tank + Dryer	
HGS 2	7,5	110	0,3	10,6	2,2/3	G1/2"	757 x 628 x 1057	1830 x 680 x 1557	165	320	250L
	8,5	125	0,28	9,9							
	10	145	0,22	7,6							
HGS 3	7,5	110	0,44	15,4	3/4	G1/2"	757 x 628 x 1057	1830 x 680 x 1557	170	325	250L
	8,5	125	0,36	12,7							
	10	145	0,28	9,7							
HGS 4	7,5	110	0,54	19,2	4/5,5	G1/2"	757 x 628 x 1057	1830 x 680 x 1557	170	325	250L
	8,5	125	0,5	17,7							
	10	145	0,37	12,9							
	13	190	0,29	10,2						350	
HGS 5,5	7,5	110	0,71	25,2	5,5/7,5	G1/2"	785 x 715 x 1106	1880 x 715 x 1606	205	360	250L
	8,5	125	0,66	23,3							
	10	145	0,56	19,8							
	13	190	0,41	14,5						385	
HGS 7,5	7,5	110	1,07	37,8	7,5/10	G3/4"	785 x 715 x 1106	1880 x 715 x 1606	230	405	250L
	8,5	125	1	35,3							
	10	145	0,87	30,9							
	13	190	0,64	22,6						420	
HGS 11	7,5	110	1,65	58,2	11/15	G3/4"	962 x 732 x 1200	1880 x 732 x 1700	295	470	250L
	8,5	125	1,51	53,4							
	10	145	1,35	47,8							
	13	190	1,11	39,2						495	
HGS 15	7,5	110	2,26	79,9	15/20	G3/4"	962 x 732 x 1200	1880 x 732 x 1700	315	490	250L
	8,5	125	2,18	77							
	10	145	2,05	72,4							
	13	190	1,48	53						515	
HSC 18,5	7,5	110	2,92	103	18,5/25	G3/4"	1039 x 948 x 1462	2135 x 1200 x 2010	425	835	2x270L
	8,5	125	2,78	98,2							
	10	145	2,49	87,9							
	13	190	2,07	73,1							
HSC 22	7,5	110	3,45	122	22/30	G3/4"	1039 x 948 x 1462	2135 x 1200 x 2010	465	900	2x270L
	8,5	125	3,09	112							
	10	145	3,03	107							
	13	190	2,53	89,3							
HSC 30	7,5	110	5,42	191	30/40	G1 1/4"	1135 x 1035 x 1600	-	665	-	-
	8,5	125	5,11	183							
	10	145	4,73	167							
	13	190	3,91	138							
HSC 37	7,5	110	6,5	230	37/50	G1 1/4"	1135 x 1035 x 1600	-	725	-	-
	8,5	125	6,17	218							
	10	145	5,37	189							
	13	190	4,41	156							
HSC 45	7,5	110	7,34	259	45/60	G1 1/2"	1345 x 1150 x 1800	-	1030	-	-
	8,5	125	7,02	248							
	10	145	6,75	238							
	13	190	5,23	185							
HSC 55	7,5	110	9,66	341	55/75	G1 1/2"	1345 x 1150 x 1800	-	1130	-	-
	8,5	125	9,2	325							
	10	145	8,46	299							
	13	190	6,8	240							
HSC 75	7,5	110	12,5	441	75/100	G2	1600 x 1191 x 1900	-	1565	-	-
	8,5	125	11,87	419							
	10	145	11,07	391							
	13	190	9,23	326							

- Unit performances measured 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.
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* Refers to free air delivery measured according to ISO 1217:2009, Annex C standard.

11-27,4 m³/min

90-160 kW

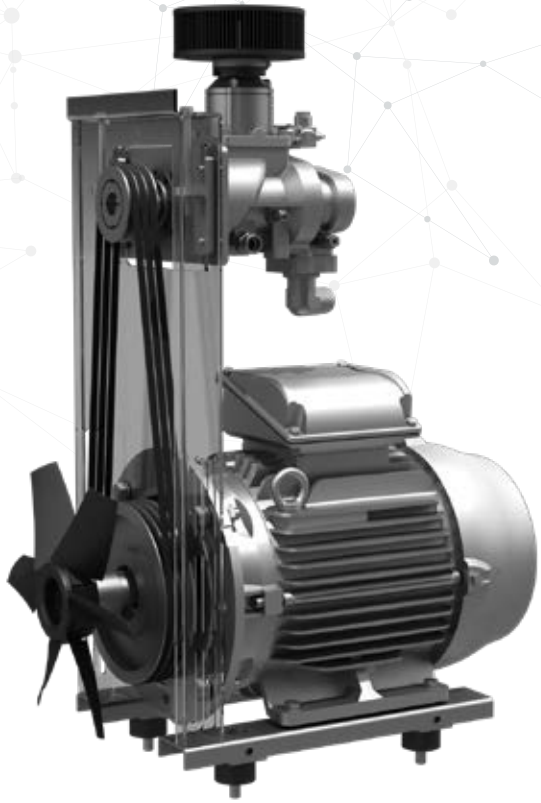
7,5-10-13 bar

General Features

- High-quality, easy-to-replace components with a long service life
- Next gen screw block and motor
- Electronic control
- Soft starter (optional)
- Water cooling (optional)
- Integrated dryer and heat recovery (optional)
- Food grade oil suitable for food production (optional)

Advantages

- Easily accessible parts for reduced maintenance costs.
- Protective covers can be removed and fitted quickly for easy servicing.
- Controllers allow ease of access and use.



Screw Block

- Specially selected, durable screw blocks for different capacity needs
- New rotor profiles for reduced loss air production and lower torque requirements
- Next gen bearing design for improved load resistance capabilities

Main Motor and Drive System

- IE4 efficiency-class electric motor (110 kw and above)
- Star/delta motor starter
- Belt-pulley drive system
- Easy-to-use belt tensioner and pulley bushing for easy servicing, removal, and installation
- Soft start option

Model	Pressure		Capacity*		Motor	Connection	Dimensions (mm)			Weight
	bar	psi	m³/min	cfm	kW/HP		Width	Length	Height	kg
HSC 90	7,5	110	15,8	558	90/125	G 2"	2525	1440	2040	2240
	10	145	13,5	477						
	13	190	11	388						
HSC 110	7,5	110	18,8	664	110/150	G 2"	2525	1440	2040	2500
	10	145	16,5	583						
	13	190	14	495						
HSC 132	7,5	110	22,8	805	132/180	G 2 1/2"	2500	1805	2000	2873
	10	145	19,5	689						
	13	190	16	565						
HSC 160	7,5	110	27,4	968	160/220	G 2 1/2"	2500	1805	2000	3030
	10	145	23	812						
	13	190	19,5	689						

- Unit performances measured 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 reserves its rights to make changes in its products and specifications without prior notice.

* Refers to free air delivery measured according to ISO 1217:2009, Annex C standard.

3,60-53 m³/min

22-315 kW

7,5-10-13 bar

General Features

- High-quality, easy-to-replace components with a long service life
- Continuous operation for minimum stops
- Next gen screw block and motor
- Electronic control
- Integrated dryer (132 kW and below)
- Water cooled and heat recovery (optional)
- Full food grade oil option suitable for food production

Advantages

- Advanced screw block and direct coupled motor ensures saving and high performance by minimizing power transmission losses.
- Service-friendly design reduces maintenance costs.
- Controllers allow ease of access and use.

Screw Block

- A durable and specially selected screw block that provides high capacity air according to the capacity needs of each model
- New rotor profiles for production with reduced loses and lower torque requirements
- Next gen bearing design for improved load bearing capabilities
- Direct coupling

Model	Pressure		Capacity*		Motor	Connection	Dimensions (mm)			Weight
	bar	psi	m³/min	cfm	kW/HP		Width	Length	Height	kg
HSC 22 D	7,5	110	4	141	22/30	G 1"	1280	850	1435	538
	10	145	3,6	127						
HSC 30 B D	7,5	110	5,5	194	30/40	G 1 1/4"	1635	1030	1755	747
	10	145	4,5	159						
	13	190	3,9	138						
HSC 37 D	7,5	110	6,6	233	37/50	G 1 1/4"	1635	1030	1755	869
	10	145	5,6	198						
	13	190	4,6	163						
HSC 45 B D	7,5	110	8,5	300	45/60	G 1 1/2"	2065	1200	1810	1203
	10	145	7,1	251						
	13	190	5,9	208						
HSC 55 D	7,5	110	9,8	346	55/75	G 1 1/2"	2065	1200	1810	1387
	10	145	8,7	307						
	13	190	7	247						
HSC 75 D	7,5	110	12,6	445	75/100	G 1 1/2"	2065	1200	1810	1424
	10	145	11	388						
	13	190	9,2	325						
HSC 90 D	7,5	110	16,2	572	90/125	G 2"	2525	1440	2040	2240
	10	145	13,7	484						
	13	190	11,2	396						
HSC 110 D	7,5	110	19,5	688	110/150	G 2"	2525	1440	2040	2640
	10	145	17,9	632						
	13	190	14	494						
HSC 132 D	7,5	110	23,4	826	132/180	G 2 1/2"	2775	1805	2000	2970
	10	145	20	706						
	13	190	16,5	583						
HSC 160 D	7,5	110	28	989	160/220	G 2 1/2"	2775	1805	2000	3080
	10	145	23,5	830						
	13	190	20	706						
HSC 200 D	7,5	110	37	1307	200/270	DN80	3290	2285	2455	5300
	10	145	30,8	1088						
	13	190	24,5	865						
HSC 250 D	7,5	110	45	1590	250/340	DN100	3315	2285	2455	5600
	10	145	38,6	1363						
	13	190	32,6	1151						
HSC 315 D	7,5	110	53	1872	315/430	DN100	3315	2285	2455	5920
	10	145	45,5	1607						
	13	190	39,5	1395						

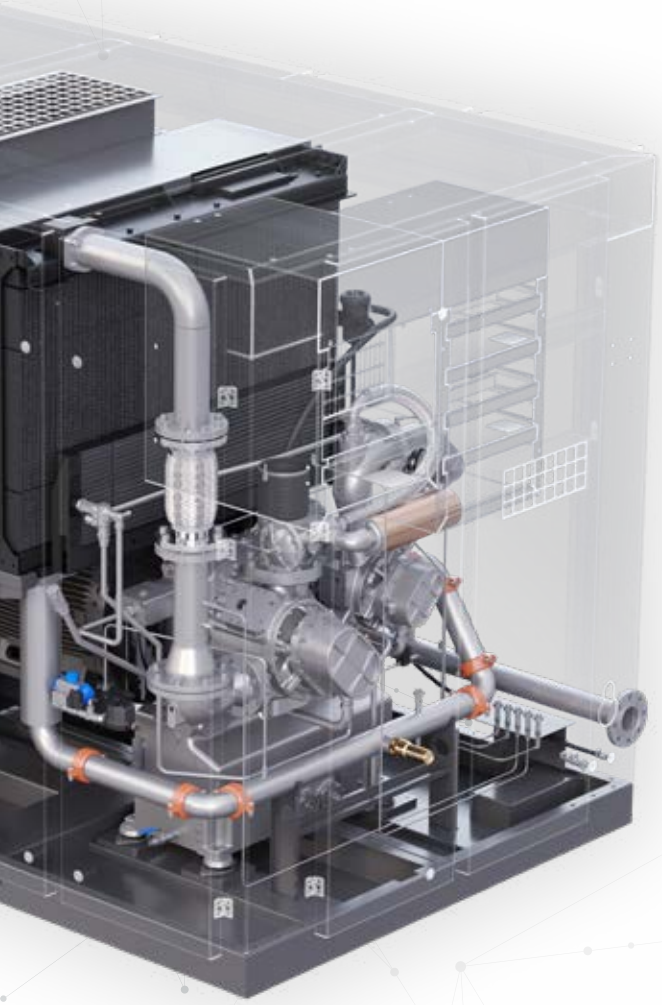
- Unit performances measured in reference conditions which are 1 bar absolute air pressure, 0% relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature and use of Smartoil.
- Hertz reserves its rights to make changes in its products and specifications without prior notice.

* Refers to free air delivery measured according to ISO 1217:2009, Annex C standard.

3,8-48,8 m³/min

37-315 kW

7-8,5-10 bar



General Features

- IE4 efficiency-class electric motors
- Soundproofed canopy
- Electrostatic coated canopy components for high corrosion resistance
- Electric motor protection to prevent overload
- Air-cooled and water-cooled options available
- Fixed and variable speed drive options
- Soft starting at variable speed models
- Soft starter at fixed speed models
- Direct coupled drive system

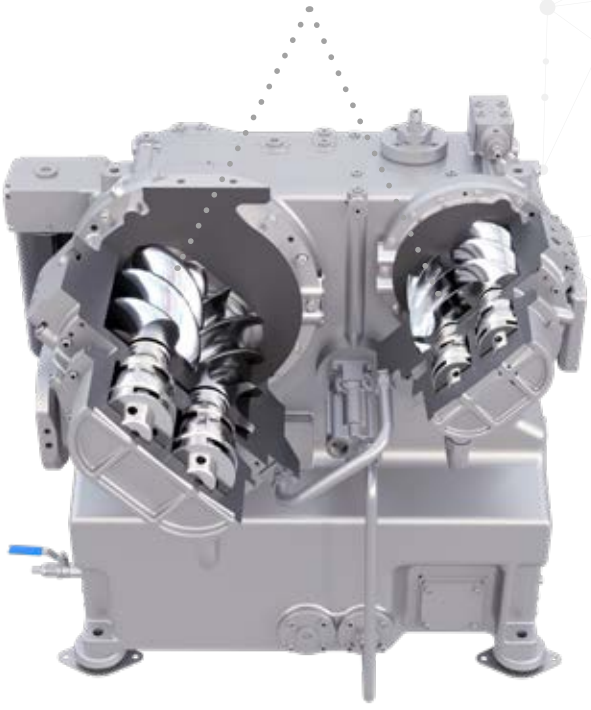
Advantages

- Eco-friendly technology.
- It can be used safely in sensitive industries such as food and pharmaceutical for the highest hygiene.
- Highly durable performance suitable for working in the harshest operational conditions.
- Models with VSD technology save up to 35% energy and reduce your energy costs.
- Special venturi design prevents rapid pressure fluctuations and high-frequency vibrations.

ISO 8573-1 CLASS 0 OIL-FREE

Screw Block

SmartCoat



- Two-stage screw block
- Bearing system developed with the latest technology ensures long life and vibration-free operations
- Lower overall volume achieved by integrating the oil sump into the gearbox (110-250 kW)
- High level sealing system ensures high performance even during long operation periods
- Synchronizing gears for contact-free power transmission between the rotors
- Minimal footprint achieved with the compact screw block featuring an integrated water cooling system (200-250kW)
- Specially coated rotors and rotor housing internal parts for minimum gap tolerance and high efficiency
- Stainless steel rotors to eliminate the risk of corrosion and locking, for a long service life
- SmartCoat special material coating provides superior durability against high temperatures
- Jacket cooling for both stages (110-250 kW)

Cooling System

- A compact cooling block that integrates an intercooler, a pre-cooler, an after cooler, and an oil cooler into a single system (110-250 kW)
- Two-stage cooling with pre-cooler system made of stainless steel pipes and fins
- After-cooler with aluminium bar and plate system
- Efficient cooling and minimal noise levels with low-speed radial fans
- Easy to maintain and clean
- Washable panel filter
- Optimum in-cabinet air circulation to keep the motor and screw block cool

Model	Pressure		Capacity*		Motor	Connection	Dimensions [Air Cooled / Water Cooled] (mm)			Noise (Air Cooled)
	bar	psi	m³/min.	cfm	kW/HP		Width	Length	Height	db
EAGLE 37	7	100	6	212	37/50	G 2"	2588/2690	1721/1740	2633	76
	8,5	125	5,3	187						
	10	145	4,8	170						
EAGLE 45	7	100	7,5	265	45/60	G 2"	2588/2690	1721/1740	2633	76
	8,5	125	6,5	230						
	10	145	5,9	208						
EAGLE 55	7	100	9,4	332	55/75	G 2"	2588/2690	1721/1740	2633	77
	8,5	125	8,6	304						
	10	145	7,5	265						
EAGLE 75	7	100	12,7	449	75/100	G 2"	2588/2690	1721/1740	2633	77
	8,5	125	11,8	417						
	10	145	10,2	360						
EAGLE 90 B	7	100	15,5	547	90/125	DN80	3110	1936/1920	2923/2673	80
	8,5	125	13	459						
	10	145	13	459						
EAGLE 110	7	100	21,6	764	110/150	DN80	3256/3342	2132/2120	2390	75
	8,5	125	19,2	677						
	10	145	19,4	686						
EAGLE 132	7	100	24,1	851	132/180	DN80	3256/3342	2132/2120	2390	72
	8,5	125	22,2	783						
	10	145	18,9	669						
EAGLE 160	7	100	26,9	949	160/220	DN80	3256/3342	2132/2120	2390	75
	8,5	125	26,7	942						
	10	145	24,1	851						
EAGLE 200	7	100	36	1271	200/270	DN100	3506/3587	2280/1980	2530/2100	75
	8,5	125	34	1200						
	10	145	28,3	999						
EAGLE 250	7	100	44,3	1564	250/340	DN100	3506/3587	2280/1980	2530/2100	75
	8,5	125	40,5	1430						
	10	145	35,8	1264						
EAGLE 315	7	100	48,7	1720	315/430	DN100	3714/3460	2225/2220	3188/2923	87
	8,5	125	48,7	1720						
	10	145	44,2	1560						

- Unit performances measured in reference conditions which are 1 bar absolute air pressure, 0% relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature.
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* Refers to free air delivery measured according to ISO 1217:2009, Annex C standard.

Model	Pressure		Capacity*				Motor	Connection	Dimensions [Air Cooled / Water Cooled] (mm)			Noise (Air Cooled)
	bar	psi	Min. m^3/min	Min. cfm	Max. m^3/min	Max. cfm	kW/HP		Width	Length	Height	db
EAGLE 55 VSD	7	100	3,8	134	9,1	321	55/75	G 2"	2588/2690	1721/1740	2633	77
	8,5	125	3,7	131	8,3	293						
	10	145	3,7	131	7,5	265						
EAGLE 75 VSD	7	100	6,2	219	12,8	452	75/100	G 2"	2588/2690	1721/1740	2633	77
	8,5	125	6,2	219	11,9	420						
	10	145	6,2	219	11	389						
EAGLE 90 VSD	7	100	6,2	219	14,6	516	90/125	G 2"	3110	1936/1920	2923/2673	78
	8,5	125	6,2	219	14,2	501						
	10	145	6,2	219	13,2	466						
EAGLE 110 VSD	7	100	9,1	321	18,8	664	110/150	DN80	3256/3342	2132/2120	2390	75
	8,5	125	10,3	364	18,5	653						
	10	145	10,3	364	17,4	614						
EAGLE 132 VSD	7	100	10,4	367	22,2	784	132/180	DN80	3256/3342	2132/2120	2390	72
	8,5	125	10,4	367	21	742						
	10	145	10,3	364	19,6	692						
EAGLE 160 VSD	7	100	10,7	378	26,9	950	160/220	DN80	3256/3342	2132/2120	2390	75
	8,5	125	10,6	374	25,5	901						
	10	145	10,6	374	23,5	830						
EAGLE 200 VSD	7	100	17,4	614	36,2	1278	200/270	DN100	3506/3587	2280/1980	2530/2100	75
	8,5	125	17,3	611	33,3	1176						
	10	145	17,2	607	30,4	1074						
EAGLE 250 VSD	7	100	18,9	667	44,6	1575	250/340	DN100	3506/3587	2280/1980	2530/2100	75
	8,5	125	18,8	664	41,3	1458						
	10	145	18,7	660	38,2	1349						
EAGLE 315 VSD	7	100	22,9	809	48,8	1723	315/430	DN100	3714/3460	2225/2220	3188/2923	88
	8,5	125	22,9	809	46,6	1646						
	10	145	22,9	809	46,3	1635						

- Unit performances measured in reference conditions which are 1 bar absolute air pressure, 0% relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature.
- Hertz reserves its rights to make changes in its products and specifications without prior notice.

* Refers to free air delivery measured according to ISO 1217:2009, Annex E and C standard.

0,16-3,40 m³/min

1,5-30 kW

8-10 bar

ISO 8573-1 CLASS OIL-FREE

General Features

- Compact design
- Soundproofed canopy
- Internal air cooler(s), water separator and stainless pipes
- Robust and durable single unit or stacked design

Advantages

- Low noise level thanks to low-vibration operation.
- User-friendly, robust and long-lasting microprocessor control device with communication features based on the product.
- Smooth operation and interruption-free production.
- Component placement specifically designed to reduce downtimes during maintenance process.

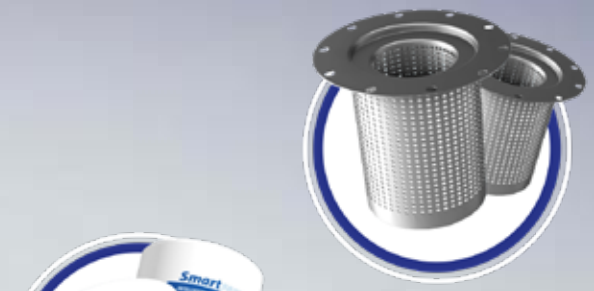
	Model	Pressure		Capacity		Motor	Connection	Dimensions [Width x Length x Height] (mm)			Weight (kg)		
		bar	psi	m³/min	cfm	kW/HP		Base Mounted	Tank Mounted	Tank + Dryer	Base Mounted	Tank Mounted	Tank + Dryer
SINGLE	HS1.5-S	8	115	0,16	5,65	1,5 / 2	G 1/2"	750x731x900	1773x823x1381	1818x823x1381	195	329	372
	HS2.2-S	8	115	0,24	8,48	2,2 / 3	G 1/2"	750x731x900	1773x823x1381	1818x823x1381	200	334	377
		10	145	0,2	7,06								
	HS3.7-S	8	115	0,4	14,13	3,7 / 5,5	G 1/2"	750x731x900	1773x823x1381	1818x823x1381	220	354	397
		10	145	0,34	12,01								
	HS5.5-S	8	115	0,6	21,19	5,5 / 7,5	G 1/2"	750x731x900	1773x823x1381	1818x823x1381	230	364	407
		10	145	0,47	16,6								
	HS7.5-S	8	115	0,85	30,01	7,5 / 10	G 1/2"	750x731x900	1773x823x1381	1818x823x1428	235	369	431
		10	145	0,68	24,01								
DOUBLE	HS7,5-D	8	115	0,8	28,25	2x(3,7 / 5,5)	G 3/4"	1500x821x1050	1972x926x1725	-	405	590	-
		10	145	0,68	24,01								
	HS11-D	8	115	1,2	42,38	2x(5,5 / 7,5)	G 3/4"	1500x821x1050	1972x926x1725	-	425	610	-
		10	145	0,94	33,2								
	HS15-D	8	115	1,7	60,03	2x(7,5 / 10)	G 3/4"	1500x821x1050	1972x926x1725	-	440	625	-
		10	145	1,36	48,02								
TRIPLE	HS11-T	8	115	1,2	42,38	3x(3,7 / 5,5)	G 1"	1500x823x1840	-	-	540	-	-
		10	145	1,02	36,02								
	HS16,5-T	8	115	1,8	63,57	3x(5,5 / 7,5)	G 1"	1500x823x1840	-	-	615	-	-
		10	145	1,41	49,79								
	HS22.5-T	8	115	2,55	90,05	3x(7,5 / 10)	G 1"	1500x823x1840	-	-	625	-	-
		10	145	2,04	72,04								
QUADRUPLE	HS15-Q	8	115	1,6	56,5	4x(3,7 / 5,5)	G 1"	1500x823x1840	-	-	645	-	-
		10	145	1,36	48,03								
	HS22-Q	8	115	2,4	84,75	4x(5,5 / 7,5)	G 1"	1500x823x1840	-	-	745	-	-
		10	145	1,88	66,39								
	HS30-Q	8	115	3,4	120,07	4x(7,5 / 10)	G 1"	1500x823x1840	-	-	755	-	-
		10	145	2,72	96,06								

- Unit performances measured 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 reserves its rights to make changes in its products and specifications without prior notice.

SmartPARTS

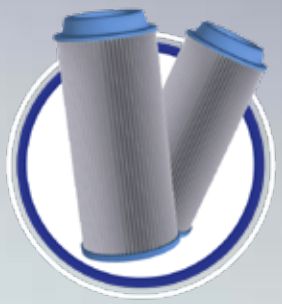
INTELLIGENT SPARE PARTS

The Ultimate Solution for
Trouble-Free** and **Long-Term
Compressor Operation



Air/Oil Separator

Oil Filter



Air Filter

Air Filter

Air/Oil Separator

a brand of
hertz
KOMPRESSOREN

smartronic

Compressor Controllers

- 7-inch Touchscreen Color Display
- Internal ModBus communication
- Compressor control data are managed from a single point

Smartronic C510

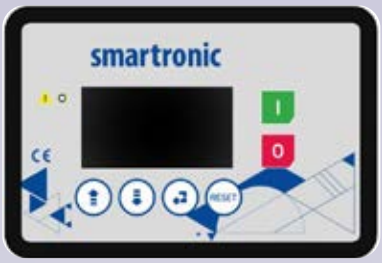
- Group operation of up to 4 compressors
- Fast communication with ModbusTCP
- Ability to connect to customer DCS system via ModbusTCP

Smartronic Pro

- Without the need for an external main controller, ability to work synchronized for up to 5 compressors
- Internal ModBus communication
- Periodic maintenance warnings and log records

Smartronic+

- Can run 2 compressors without the need for an external master controller M/S (Master/Slave- equal ageing)
- Internal ModBus communication
- Built-in phase protection relay



Smartronic

- Can run 2 compressors without the need for an external master controller M/S (Master/Slave- equal ageing)
- Internal ModBus communication
- Periodic maintenance warnings and log records

Smartronic Lite

a brand of

hertz KOMPRESSOREN

RECIPROCATING AIR COMPRESSORS

INDEX


HPC/H5
ertz
MPRESSOREN

HPC BOOSTER

OIL INJECTED | BELT DRIVEN

2,1-11,68 m³/min

7,5-30 kW

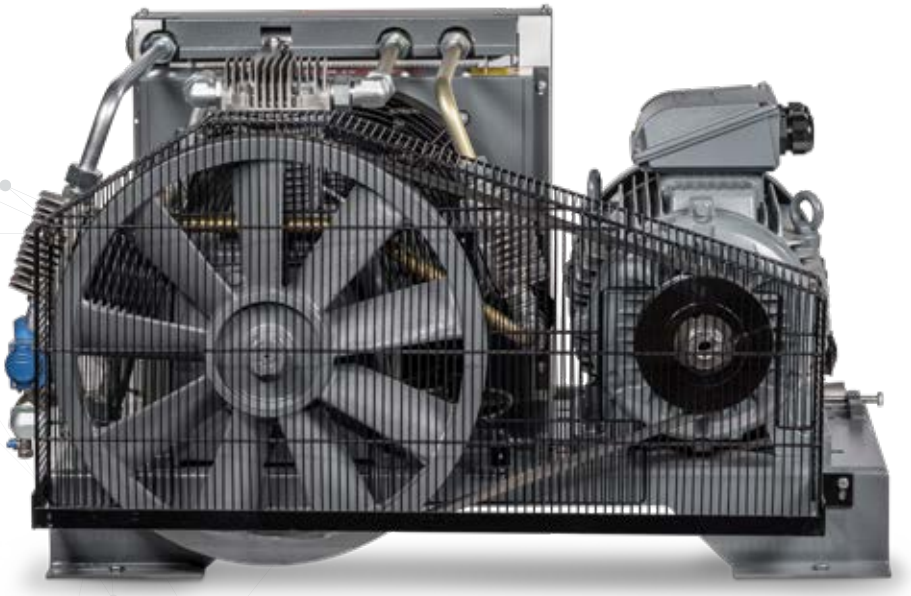
15-40 bar

General Features

- Electric motor protection to prevent overload
- Air-cooled compressor units
- Energy-saving Load/Unload System for efficient operation
- Low speed operation
- Lubrication system with splashing
- Dedicated discharge system to prevent oil discharge from blow-off valve
- Automatic discharge system for loadless start
- Star/delta motor starter
- Soft starter (optional)

Advantages

- Durable sliding bearings prolong maintenance periods and keep maintenance costs low.
- High performance with the high engineering technology and design.
- Oil-trap air filtration system provides cleaner air.
- Energy-saving advanced cooling systems.



Main Motor and Drive System

- Belt pulley drive system
- Specially designed fan type cast pulley
- Easy belt tensioning system
- Star/delta motor starter
- Special loadless start system and automatic discharge system for loadless start
- IE3 efficiency-class electric motors

Safety System

- Inlet air regulator
- High-pressure switch
- Manual condensate drainage valve
- Integrated check valve at air outlet line
- Outlet pressure manometer
- High pressure safety valve
- Oil pressure control
- Integrated particulate filter at inlet air line
- By-pass line for protection against high oil pressure

Compressor Block

- Cast iron cylinder with cooling fins and special aluminium alloy top heads
- Special aluminium alloy pistons and cast connecting rods
- High-strength cast iron sump
- Dynamically balanced cast steel crankshaft and counterweight

Model	Working Pressure				Inlet Capacity						Motor	Connection	Dimensions (mm)			Weight
	Minimum bar - psi		Maximum bar - psi		7 bar m³/min - cfm		10 bar m³/min - cfm		13 bar m³/min - cfm		kW/HP		Length	Width	Height	kg
HPC BOOSTER 10	15	218	40	580	2,1	74	2,89	102	3,67	130	7,5/10	1"	1286	825	753	300
HPC BOOSTER 15	15	218	40	580	2,45	87	3,37	119	4,29	152	11/15	1"	1286	825	753	300
HPC BOOSTER 20	15	218	40	580	3,71	131	5,1	180	6,49	229	15/20	1"	1357	820	758	330
HPC BOOSTER 25	15	218	40	580	4,9	173	6,73	238	8,57	303	18,5/25	1 1/4"	1423	874	736	440
HPC BOOSTER 30	15	218	40	580	5,56	196	7,65	270	9,74	344	22/30	1 1/4"	1423	881	736	523
HPC BOOSTER 40	15	218	40	580	6,68	236	9,18	324	11,68	413	30/40	1 1/4"	1423	972	736	580

- Unit performances measured 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.
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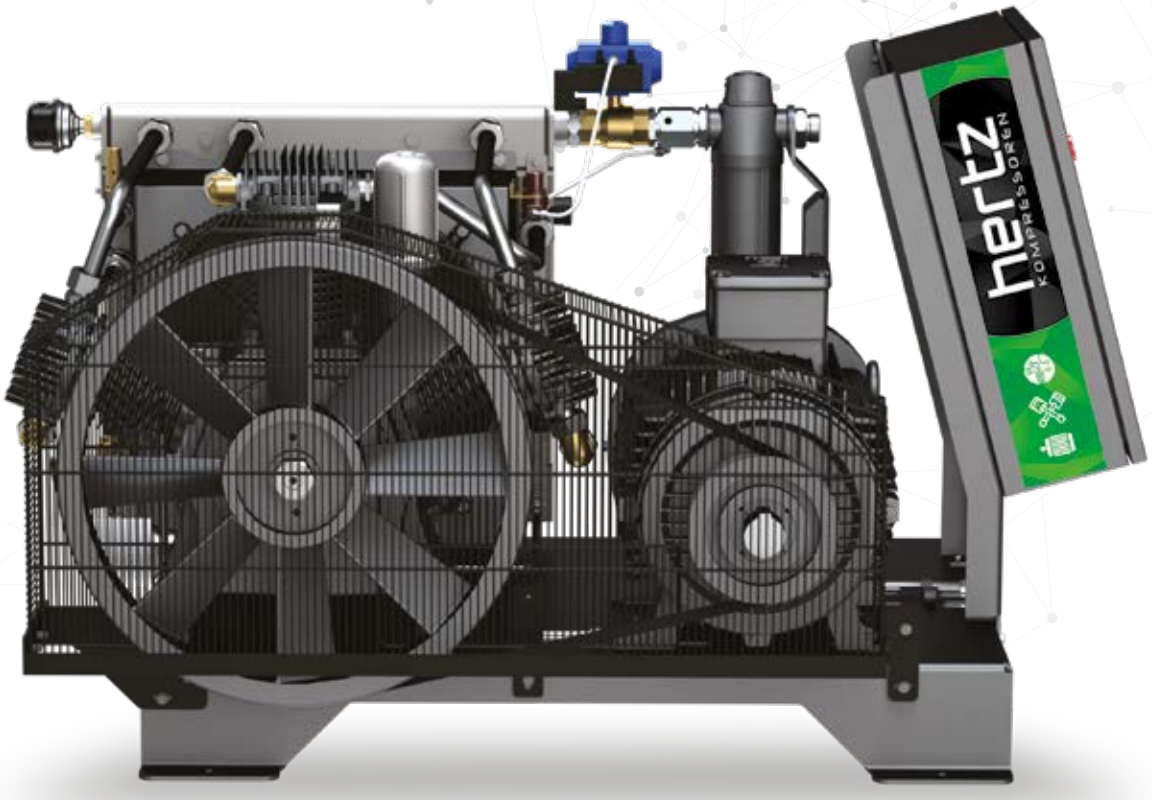
HPC BOOSTER GP

OIL INJECTED | BELT DRIVEN

2,1-11,68 m³/min

7,5-30 kW

15-40 bar



General Features

- Electric motor protection to prevent overload
- Dedicated discharge system to prevent oil discharge from blow-off valve
- Energy-saving Load/Unload System
- Control panel for user-friendly operation
- Automatic discharge system for loadless start
- Air-cooled compressor units
- Gear-driven oil pump
- Star/delta motor starter
- Long life thanks to low speed operation
- Optional soft starter

Advantages

- Integrated oil pump driven by the main motor lubricates the pistons, bearings and pins efficiently.
- Improved vibration level helps to keep maintenance costs down.
- Durable sliding bearings prolong maintenance periods and keep maintenance costs low.
- High performance with the outstanding technology and design.
- Oil-trap air filtration system provides cleaner air.
- Energy-saving advanced cooling and lubrication systems.

Controller

- Mains voltage and phanse monitoring to protect the main motor at certain limits
- Multiple compressor control for up to 8 compressors without the need for an external master controller
- Internal ModBus communication
- Alarm log records the last 9 alarms

Main Motor and Drive System

- IE3 efficiency-class electric motors
- Belt pulley drive system
- Easy belt tensioning system
- Specially designed fan type cast iron pulley
- Star/delta motor starter
- 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 long-life and high-speed stainless steel concentric valves
- High-strength cast iron cranckcase
- Dynamically balanced cast steel crankshaft and counterweight
- Special aluminium alloy pistons and cast connecting rods

Model	Working Pressure				Inlet Capacity						Motor	Connection	Dimensions (mm)			Weight
	Minimum bar - psi		Maximum bar - psi		7 bar m³/min - cfm		10 bar m³/min - cfm		13 bar m³/min - cfm		kW/HP		Length	Width	Height	kg
HPC BOOSTER 10 GP	15	218	40	580	2,1	74	2,89	102	3,67	130	7,5/10	1"	1430	1010	1025	389
HPC BOOSTER 15 GP	15	218	40	580	2,45	87	3,37	119	4,29	152	11/15	1"	1430	1010	1025	397
HPC BOOSTER 20 GP	15	218	40	580	3,75	132	5,15	182	6,55	231	15/20	1"	1430	1010	1025	422
HPC BOOSTER 25 GP	15	218	40	580	4,9	173	6,73	238	8,57	303	18,5/25	1 1/4"	1500	1025	957	465
HPC BOOSTER 30 GP	15	218	40	580	5,56	196	7,65	270	9,74	344	22/30	1 1/4"	1500	1025	957	535
HPC BOOSTER 40 GP	15	218	40	580	6,68	236	9,18	324	11,68	413	30/40	1 1/4"	1500	1025	957	594

- Unit performances measured 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.
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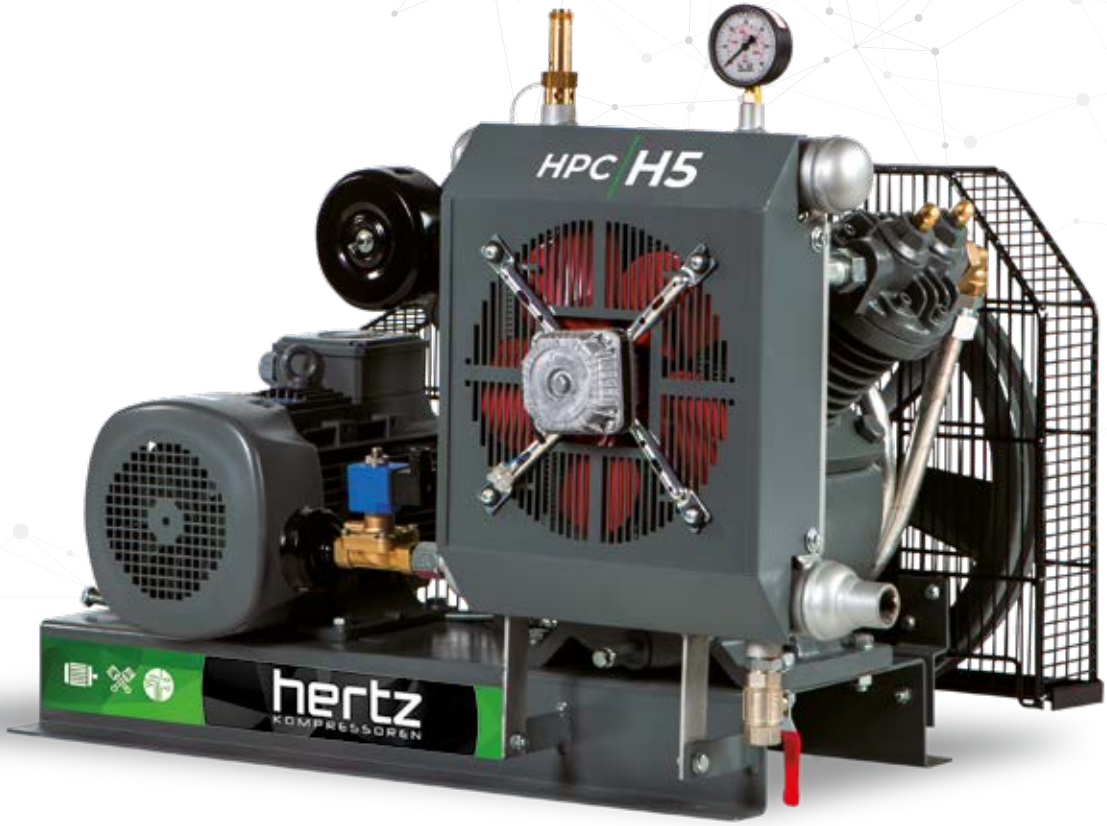
507-1657 l/min

5,5-15 kW

40 bar

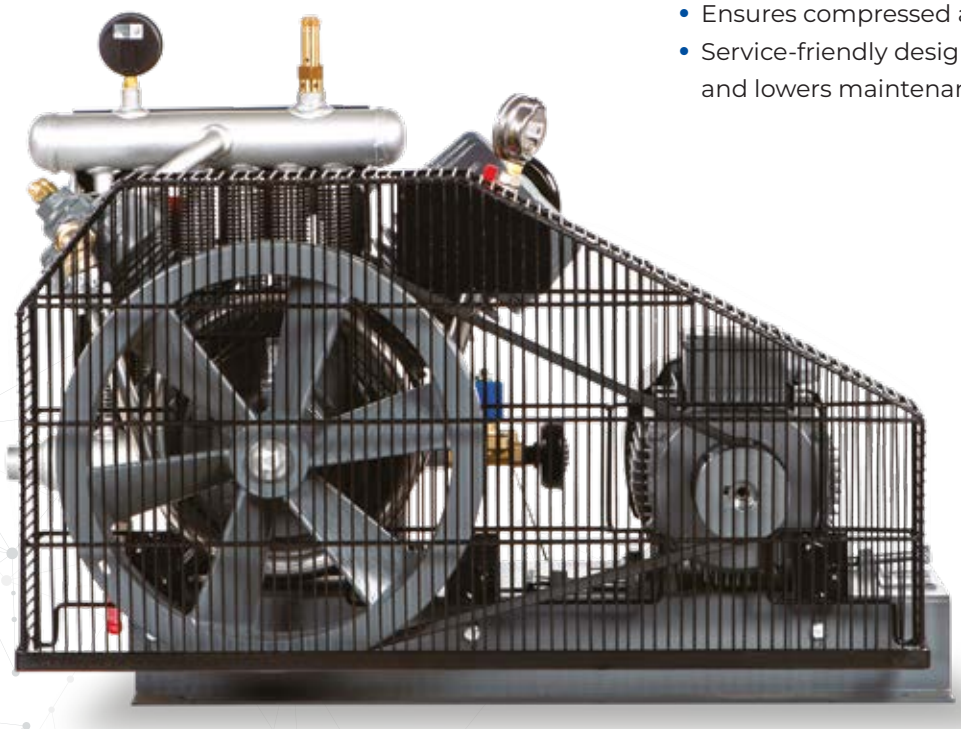


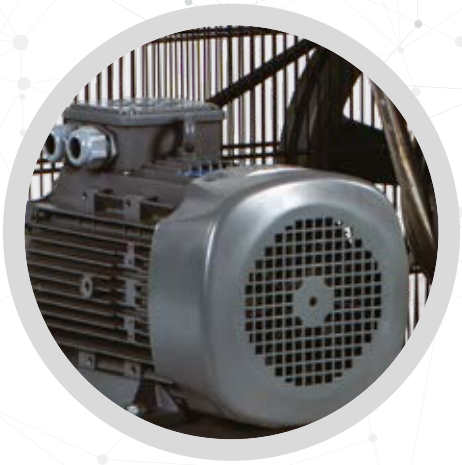
General Features

- Automatic discharge system for loadless start
- After cooler
- Air intake filter and silencer
- Includes safety systems suitable to pressure class

Advantages

- Ideal for applications requiring high pressure, particularly the maritime sector.
- High-quality components for high-efficiency operation.
- Robust cast body.
- Long-life bearings for reduced maintenance and service periods.
- Ensures compressed air needs up to 40 bar.
- Service-friendly design minimizes downtime and lowers maintenance costs.





Main Motor and Drive System

- IE3 efficiency-class electric motor
- Belt-pulley drive system
- Adjustable belt tension reduces losses
- Specially designed fan-type cast iron pulley
- Easy-to-use belt-tensioning system
- Optional star/delta starter

Compressor Block

- Cast iron cylinder and cylinder heads with cooling fins
- Specially designed high-speed stainless steel concentric valves
- High-strength cast iron oil sumps
- Dynamically balanced cast steel crankshaft and counterweight
- Special aluminium alloy pistons and cast steel connecting rods
- Specially designed finger type, high-capacity stainless steel suction-discharge valves
- Stainless steel, high-pressure resistant specially designed suction-discharge valves

Safety System

- Integrated check valve in air outlet line
- Belt pulley housing guard
- High-pressure switch
- First and second stage relief valves
- Outlet pressure manometer
- First stage pressure manometer

Model	Working Pressure		Piston Displacement		Motor	Connection	Dimensions (mm)			Weight
	bar	psi	l/min.	cfm	kW/HP		Length	Width	Height	kg
HPC-H 5	40	580	507	17,9	5,5 / 7	3/4"	933	576	662	153
HPC-H 15	40	580	1060	37,4	11 / 15	1"	1312	1213	718	363
HPC-H 20	40	580	1657	58,5	15 / 20	1"	1295	897	832	422

- Unit performances measured 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.
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1077-3526 l/min

11-37 kW

12-40 bar

General Features

- PLC-based control and system monitoring with digital display panel
- High efficiency motor
- Oil trap air filtration system (Optional)
- Direct coupled

Advantages

- Lightweight and robust composite cabinet provides high-performance cooling, protects the cylinder heads from impacts and prevents the operator from coming into contact with moving and hot components.
- Ease of installation and strong components for longer uptimes and user-friendly operation.
- Safe, low-maintenance operation thanks to integrated flexible coupling

Compressor Block

- Cast iron cylinder with cooling fins and special aluminium alloy cylinder heads
- High-strength cast iron crankcase
- Dynamically balanced steel crankshaft and counterweight
- Special aluminium alloy pistons and cast steel connecting rods
- Specially designed concentric-type, high-capacity stainless steel suction-discharge valves

Main Motor and Drive System

- IE3 efficiency-class electric motor
- Direct coupled with elastic coupling
- Star/delta motor starter
- Special loadless start system and automatic discharge system for loadless start
- Soft starter (optional)

Controller

- Mains voltage and frequency monitoring, protection at certain limits
- Multiple compressor control for up to 8 compressors without the need for an external master compressors
- Internal ModBus communication
- Alarm log records the last 9 alarms

Cooling System

- 4-stage radiator (3 stages for air, 1 stage for oil cooling)
- Cylinder and cylinder heads with cooling fins
- Cooling fan connected directly to the main motor

Model	Working Pressure				Piston Displacement		Voltage / Frequency	Motor	Connection	Dimensions (mm)			Weight
	Minimum bar - psi		Maximum bar - psi		l/min	cfm	V/Hz	kW/HP		Width	Length	Height	kg
HW 64	12	174	40	580	1077,3	38	400/50	11/15	1"	1300	1100	1030	411
					1447,8	51,13	460/60	15/20		1300	1100	1030	421
HW 108	12	174	40	580	1806,7	63,8	400/50	15/20	1"	1300	1100	1030	421
					2210,2	78	460/60	22/30		1580	1175	1100	630
HW 166	12	174	40	580	2767,4	97,6	400/50	30/40	1"	1580	1175	1100	630
					2797,2	98,8	460/60	30/40		1640			680
HW 210	12	174	40	580	3526,4	124,5	400/50	37/50	1"	1640	1175	1100	680

- Unit performances measured 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.
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410-1657 l/min

2,2-7,5 kW

8 bar

General Features

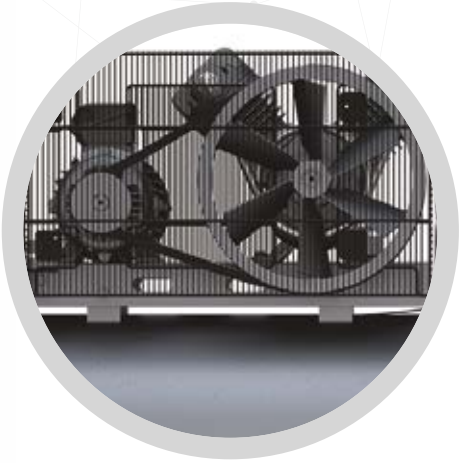
- Suitable for operation even in the most challenging ambient conditions
- Easy to use and low noise levels
- Reliable and efficient compressed air production

Advantages

- Reliable operation.
- High-quality components for long service life.

Main Motor and Safety System

- IE3 efficiency-class electric motor
- Safe operation with pressure switch, check valve and safety valve
- Belt-pulley guard
- Manometer
- Ready-to-run electrical mechanism



Compressor Block

- Cast iron cylinder body
- Cast iron cylinder heads with cooling channels
- Special aluminium alloy pistons and connecting rod
- Cast iron pulley for fan-type efficient cooling
- Air intake filter
- Splash lubrication
- Oil level gauge
- Factory-filled oil

Air Tank

- P235GH / P265GH steel
- Robust drainage valve and air outlet valve
- Electrostatic powder coated

Model	Working Pressure		Piston Displacement		Motor	Connection	Dimensions (mm)			Weight	Air Receiver
	bar	psi	l/min	cfm	kW/HP		Width	Length	Height	kg	l
HPC-S3	8	115	410	14.5	2,2/3,0	1/2"	1531	450	1037	135	200
HPC-S5	8	115	607	21.4	4,0/5,5	1/2"	1830	466	1145	209	250
HPC-S7	8	115	1013	35.8	5,5/7,5	3/4"	1934	642	1308	308	500
HPC-S10	8	115	1657	58.5	7,5/10	3/4"	1926	668	1413	390	500

- Unit performances measured 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.
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145-1766 l/min

1,5-11 kW

7-12,5 bar

General Features

- Reliable design
- Safe to use
- High-quality components and safety systems
- Energy efficient

Advantages

- Offers ideal solutions for small business enterprises.
- Service-friendly design reduces maintenance costs.
- Produces reliable and efficient pressure.
- Uses quality components for a long service life.
- Low noise levels.

Compressor Block

- Cast iron cylinder body
- Aluminium injection-moulded cylinder head
- Special aluminium alloy pistons and connecting rod
- Cast iron pulley for fan-type efficient cooling
- Splash lubrication
- Oil level gauge
- Factory-filled oil
- Star/delta connectors (5.5 kW and above)
- External panel (optional)

Model	Working Pressure (bar)	Piston Displacement (l/min)	Motor Power (kW / HP)	Air Connection	Dimensions (mm)			Weight (kg)	Air Receiver (l)
					Length	Width	Height		
SINGLE STAGE									
H 2-100 M	7	178	1,5/2	2 x G¼''	450	1100	820	81	100
H 3-200 M	7	290	2,2/3	2 x G¼''	450	1445	965	127	200
H 4-300	7	501	3/4	1 x G¼'' + 1 x G¾"	450	1745	1000	147	250
H 5,5-300	7	649	4/5,5	2 x G¼'' + 1 x G¾"	450	1745	1030	180	250
H 5,5-500	7	649	4/5,5	2 x G¼'' + 1 x G¾"	640	1915	1260	264	500
H 7,5-500	7	971	5,5/7,5	2 x G¼'' + 1 x G¾"	640	1915	1350	283	500
H 10-500	7	1222	7,5/10	2 x G¼'' + 1 x G¾"	640	1915	1370	297	500
H 15-500	7	1766	11/15	2 x G¼'' + 1 x G¾"	700	1840	1520	465	500
DOUBLE STAGE									
H 3-200 MT	12,5	145	2,2/3	2 x G¼''	450	1445	965	132	200
H 4-300 T	12,5	334	3/4	1 x G¼'' + 1 x G¾"	450	1755	1000	167	250
H 5,5-300 T	12,5	324	4/5,5	2 x G¼'' + 1 x G¾"	450	1755	1030	198	250
H 5,5-500 T	12,5	324	4/5,5	2 x G¼'' + 1 x G¾"	640	1910	1255	330	500
H 7,5-500 T	12,5	647	5,5/7,5	2 x G¼'' + 1 x G¾"	640	1910	1275	350	500
H 10-500	12,5	726	7,5/10	2 x G¼'' + 1 x G¾"	700	1910	1355	365	500

- Hertz reserves its rights to make changes in its products and specifications without prior notice.

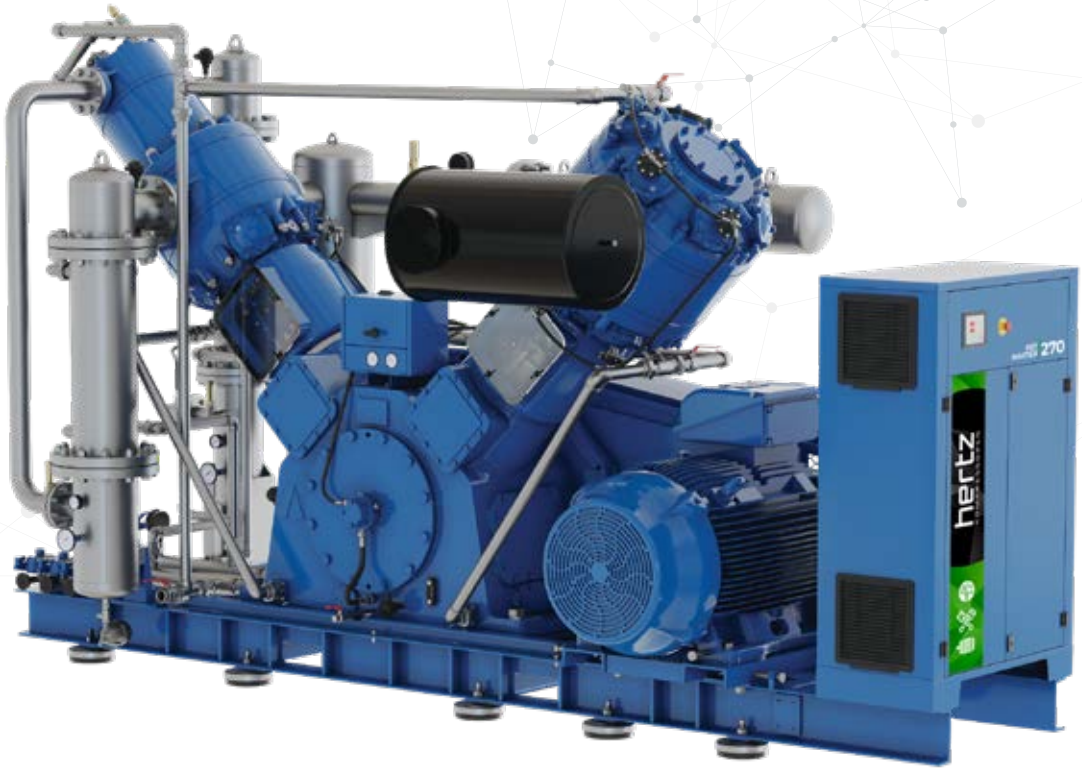
PET MASTER

OIL-FREE | WATER COOLED | FIXED/VARIABLE SPEED

3,6-23 m³/min

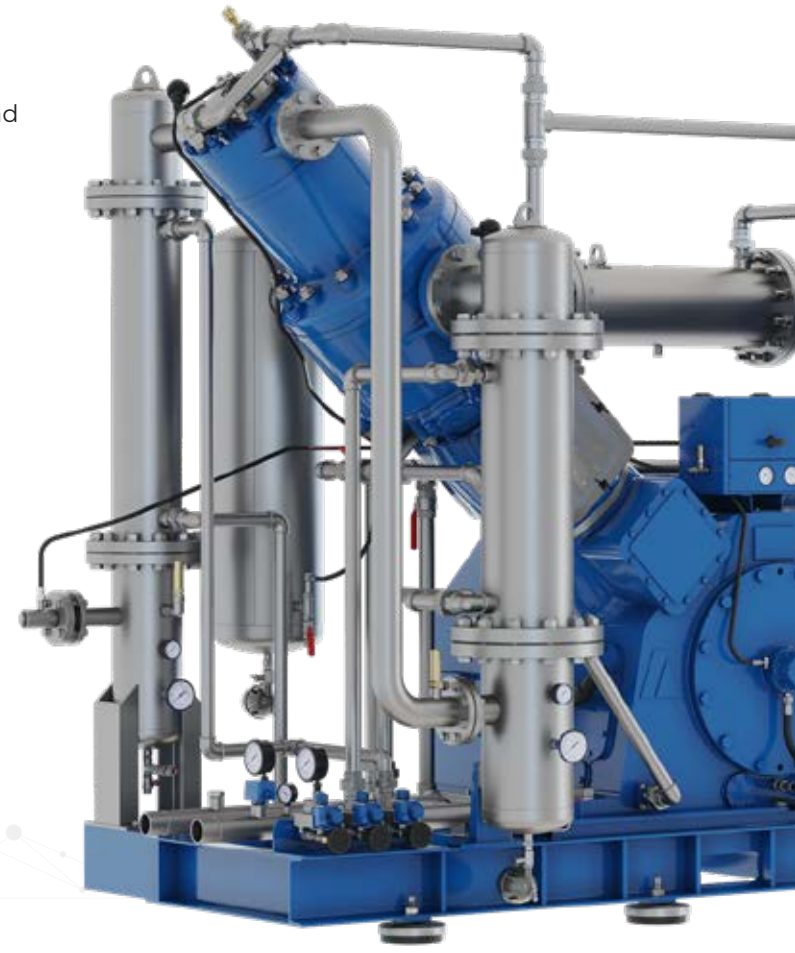
37-220 kW

16-40 bar



General Features

- Reciprocating compressor providing 100% oil-free industrial air
- Electric motor protection to prevent overload
- Water-cooled design for high energy efficiency and ability to work in severe conditions
- Energy-saving Load/Unload System for efficient operation
- Integrated electrical system for user-friendly operation
- 20-40 bar operating range



Advantages

- Compact structure, easy to install and assemble.
- Provides maximum oil-free air capacity in minimum space.
- Wear due to friction is minimized. This positively affects maintenance times and costs.
- Stainless steel water separator increases corrosion resistance.
- Soft start prolongs component life.

Electric Motor

- IE3 efficiency-class electric motors
- Special loadless start system and automatic discharge system for loadless start
- Long life with low RPM thanks to 6 pole feature

Compressor Block

- Water jacketed cast iron cylinders and heads
- Specially designed high-speed stainless steel concentric valves
- High-strength cast iron crankcase
- Dynamically balanced high-strength forged steel crankshaft
- Special aluminium alloy pistons and forged steel connecting rods

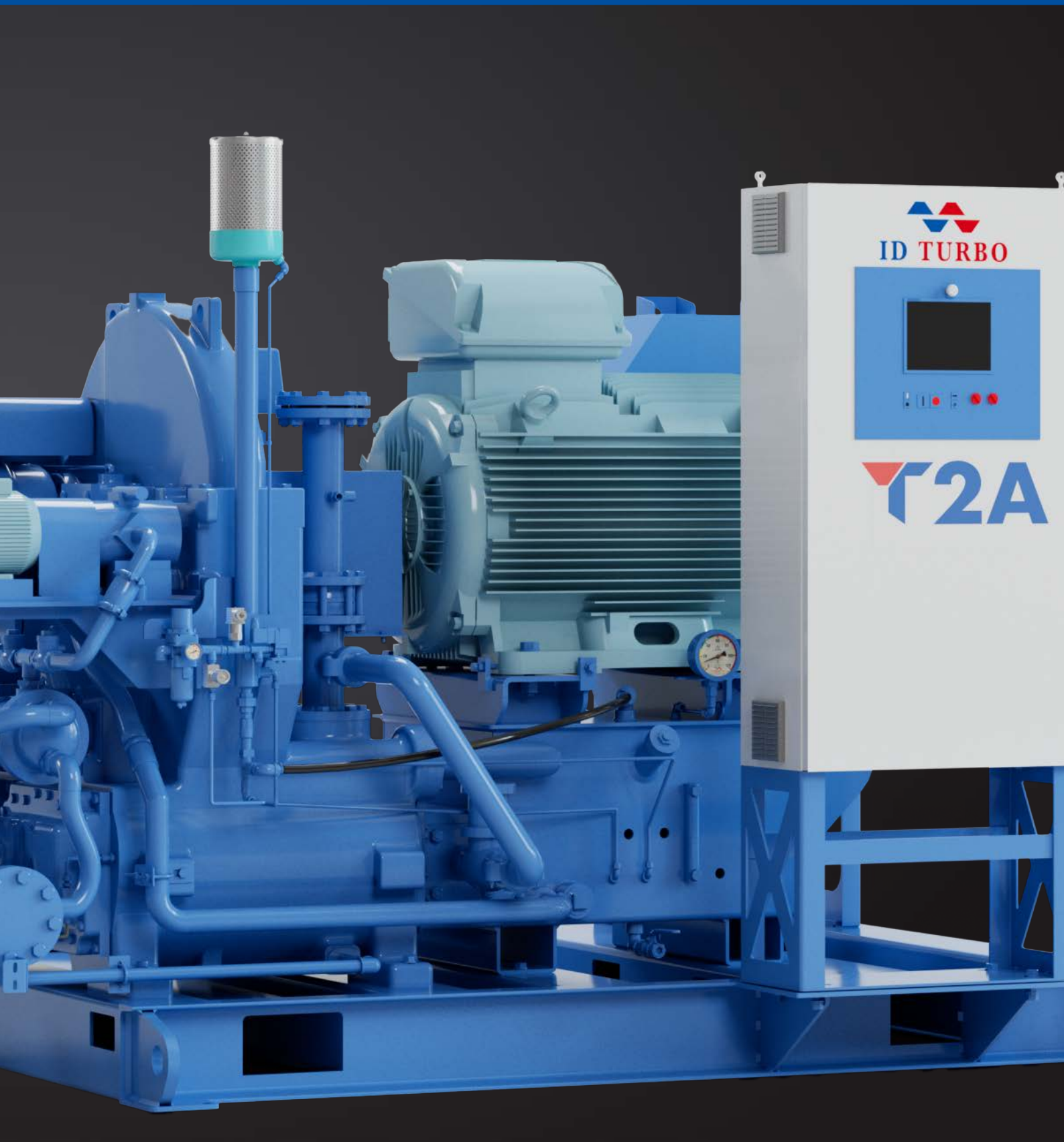
Model	Working Pressure		Capacity		Motor	Connection	Dimensions (mm)			Weight
	bar	psi	m³/min	cfm	kW/HP		Width	Length	Height	kg
PET Master 50	40	580	3,6	127	37/50	G 1 1/4"	3647	1669	2395	5500
PET Master 75	40	580	5,5	194	55/75	G 1 1/4"	3647	1669	2395	5500
PET Master 100	40	580	7,4	261	75/100	G 1 1/4"	3673	1744	2470	6500
PET Master 125	40	580	9,1	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	812	220/300	G 2"	4234	2203	2841	9200

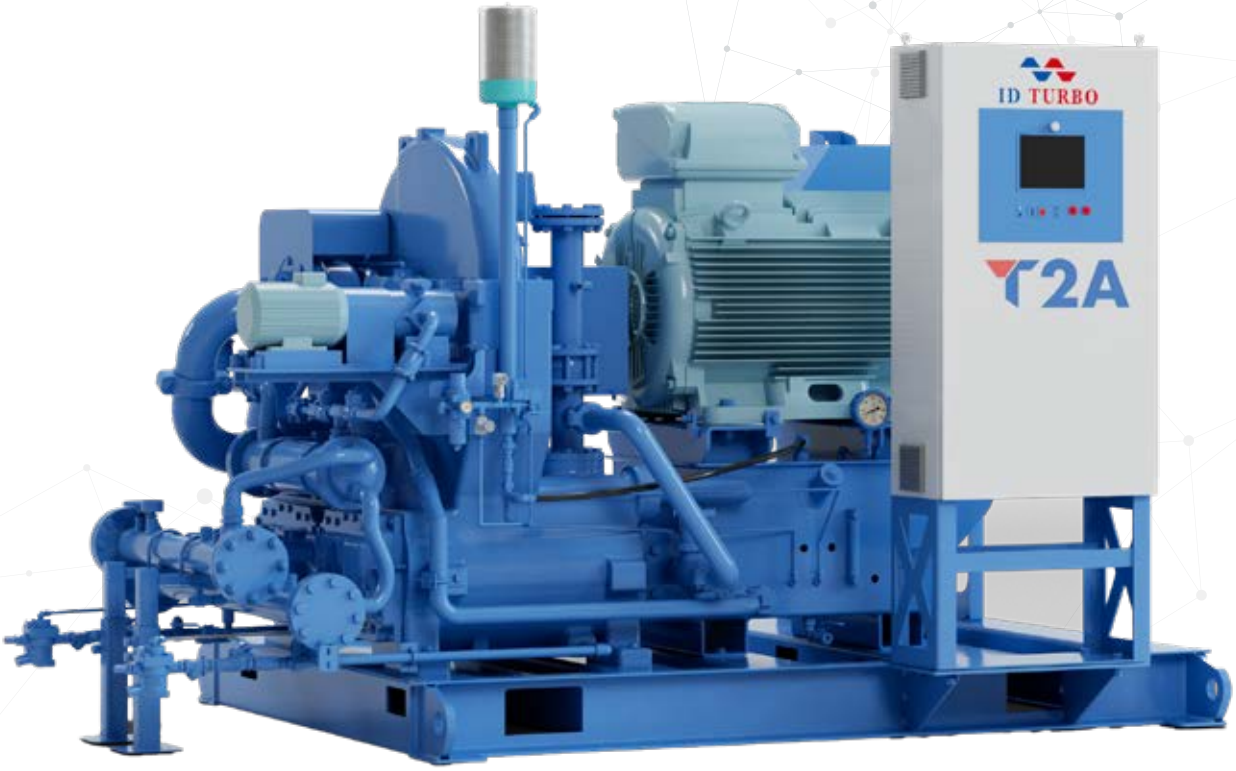
Model	Working Pressure		Capacity				Motor	Connection	Dimensions (mm)			Weight
	bar	psi	Minimum m³/min	Minimum cfm	Maximum m³/min	Maximum cfm	kW/HP		Width	Length	Height	kg
PET Master 75 VSD	40	580	4,1	145	5,5	194	55/75	G 1 1/4"	3647	1670	2395	5600
PET Master 125 VSD	40	580	6,8	240	9,1	321	90/125	G 1 1/4"	3383	2411	2407	6650
PET Master 180 VSD	40	580	10,1	357	13,5	477	132/180	G 2"	4192	1977	2814	7750
PET Master 220 VSD	40	580	12,3	434	16,4	579	160/220	G 2"	4192	1977	2814	8000
PET Master 300 VSD	40	580	17,3	611	23	812	220/300	G 2"	4234	2203	2841	9500

- Unit performances measured 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 reserves its rights to make changes in its products and specifications without prior notice.

TURBO AIR COMPRESSORS

INDEX


ID TURBO
T2A



Energy Saving

For the stringent energy-saving requirements, we face today, IHI DALGAKIRAN provides high-level energy savings with turbo compressors using advanced rotary machine technology that provides first-class energy efficiency.

User Customization

In the manufacturing facilities, compressed air needs are constantly changing. IHI DALGAKIRAN turbo compressors are specially designed based on our customer needs, factory location and climatic conditions to provide the best solution for production operations.

Compressor Frame

The compressor gearbox and air coolers are enclosed in a one-piece die-cast housing, which is durable and compact. The compressor unit and air passages are surrounded by a thick, non-welded wall, minimizing noise and pressure losses during compressor operation.

Impellers

Designed with the power ofa deep-rooted engineering experience, impellers provides the upper segment efficiency and wide operating range for users with the support of CFD technology. They are resistant to structural constraints such as corrosion and particulate abrasion, thanks to Titanium structures.

Diffusers

The kinetic energy generated by the impeller in the rotational motion enhances the system pressure by converting it into potential energy as the flow passes through the diffuser. The air flow passing through the diffuser and impeller is simulated in a coupled manner in the CFD environment to obtain a low turbulence flow profilewith minimum lossand quiet.

IGV (Inlet Guide Vanes)

The compressor's inlet has vanes whose angles can be change in order to reduce the impeller air intake. This is more effective than using a butterfly valve to add pressure loss in order to reduce airflow, and if the same airflow is discharged, the dynamic power can be kept low.

Tilting Pad Journal Bearing

In order for the high speed pinion shafts to be able to bed efficiently, they provide an even distribution of radial loads. They do not need maintenance and replacement under normal operating conditions.

Labyrinth Seal

Labyrinth seals are preferred to ensure sealing between the pressure chamber and the gearbox. The labyrinth seals provide sealing without touching the shaft. Hence it removes the friction losses due to sealing and does not need maintenance.

Suction Filter

The suction filter uses a combined type element, making it very easy to maintain. IHI ID original design, high performance, combined filter element has pre and main filter in one element.

Various Options

Various options such as motor starter panel and group control panel can also be provided by IHI DALGAKIRAN upon request.

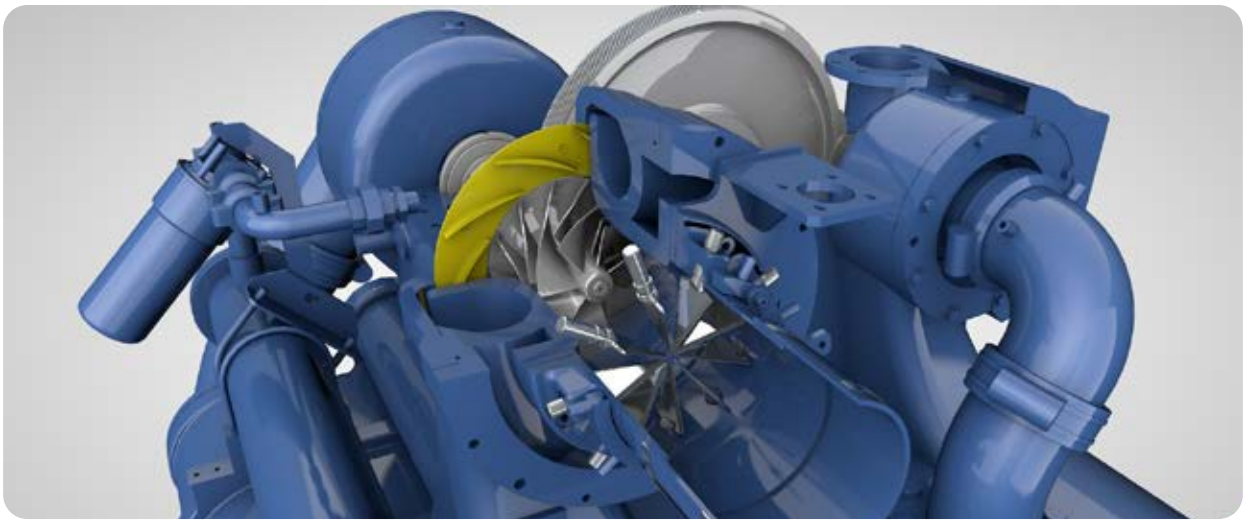
Control Panel

IHI DALGAKIRAN offers advance control panel for T2A, TRA, T3A, TRE and TRX compressors with high speed and high reliability.

Control panel specifications are stated as below;

- High quality touch screen with special functions
- Flexible and high resolution Analog/Digital Inputs, Outputs
- Profinet communication protocol standard, Profibus and Modbus are optional
- Adjustable capacity control methods for machine type
- Easily integrated with DCS or Scada System of the customer

OPERATING PRINCIPLE OF THE TURBO COMPRESSOR



Turbo compressors are the type of compressors that provide kinetic energy to the air or gases by the centrifugal force generated by the impellers and convert this kinetic energy into pressure energy in the diffuser by reducing the air flow path. Pressurized air is cooled before entering the next stage with high performance coolers. This results in higher productivity.

Easy Maintenance

IHI DALGAKIRAN turbo compressors have a simple and robust design, in order to reduce maintenance costs. IHI DALGAKIRAN have worked hard to simplify maintenance procedures so that our products can provide a stable supply of compressed air throughout the year, with minimal maintenance.

General Features

- Fully Air-Cooled
- 100% Oil-Free Air
- 100 kW up to 8,5 Bar (g)
- Integrated refrigerant dryer
- Variable speed drive (VSD) motor for energy efficiency
- Minimum unloading power by reducing motor speed and unloading compressor
- Patented control and automation design
- Completely instrument air-free
- Plug and play installation

Certification

IHI DALGAKIRAN turbo compressors have been audited by an independent third party (TÜV, Germany) and received the best rating, i.e. Class 0 (100%) oil-free certificate.

Model	Motor (kW)	Pressure Range		Flow Rate (m^3/h)	Dimensions (mm)			Weight (kg)
		bar	psi		Length	Width	Height	
TY 100	100	5,9-8,5	85-120	756-1080	2225	3300	2200	4700
T2A	132-250	4-9	59-130	1394-2700	3043	2066	2506	4500
TRA	200-600	2-11	30-160	2400-6600	3700-4940	2000-2100	2000-2400	7100-9500
TRE	355-1060	2-16	30-232	3600-11400	4100-5429	2100-4100	2000-3000	8300-13500
T3A	400-1400	2-11	30-188	8200-15000	4600-6700	2250-2500	2000-3500	10000-16000
TRX	710-2000	2-10	30-145	8200-22000	4850-7260	2400-3900	2150-3400	13500-20000

SmartFLOW
Piping System

ON SEALING
15 YEARS
WARRANTY

Quick

Practical

Reliable

- Patented design
- High corrosion resistance
- Maintenance free
- Minimum pressure loss
- Maximum energy saving
- Aluminum or stainless steel
- **15 years** warranty on sealing

CE CERTIFIED · ASME Planner · TÜV Rheinland CERTIFIED · ISO

a brand of
hertz®
KOMPRESSOREN

SmartBOX
Flexible Compressor Room

SmartBOX is a turnkey solution that meets the needs of modern production facilities with its variable design and superior performance features.

a brand of hertz KOMPRESSOREN

GAS COMPRESSORS

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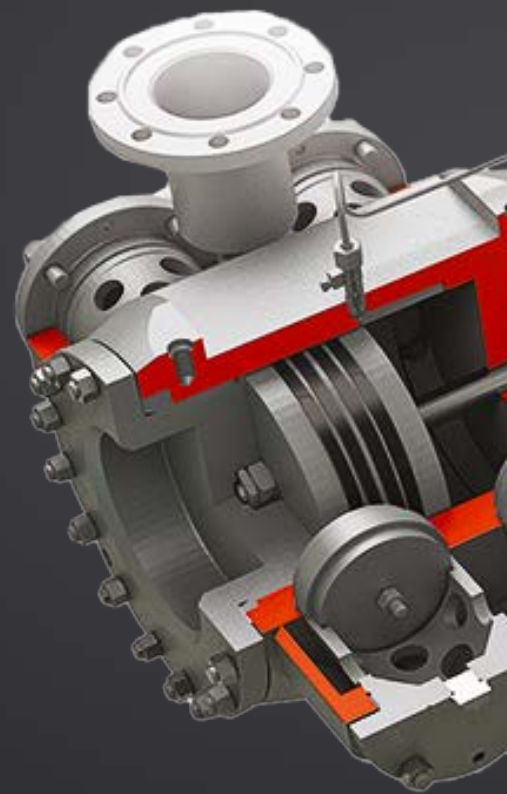
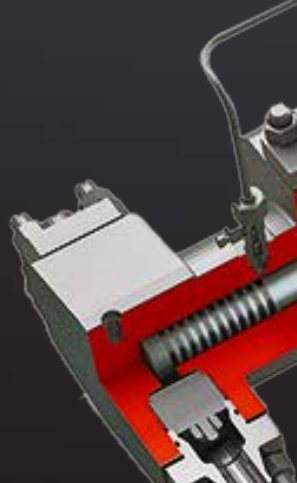
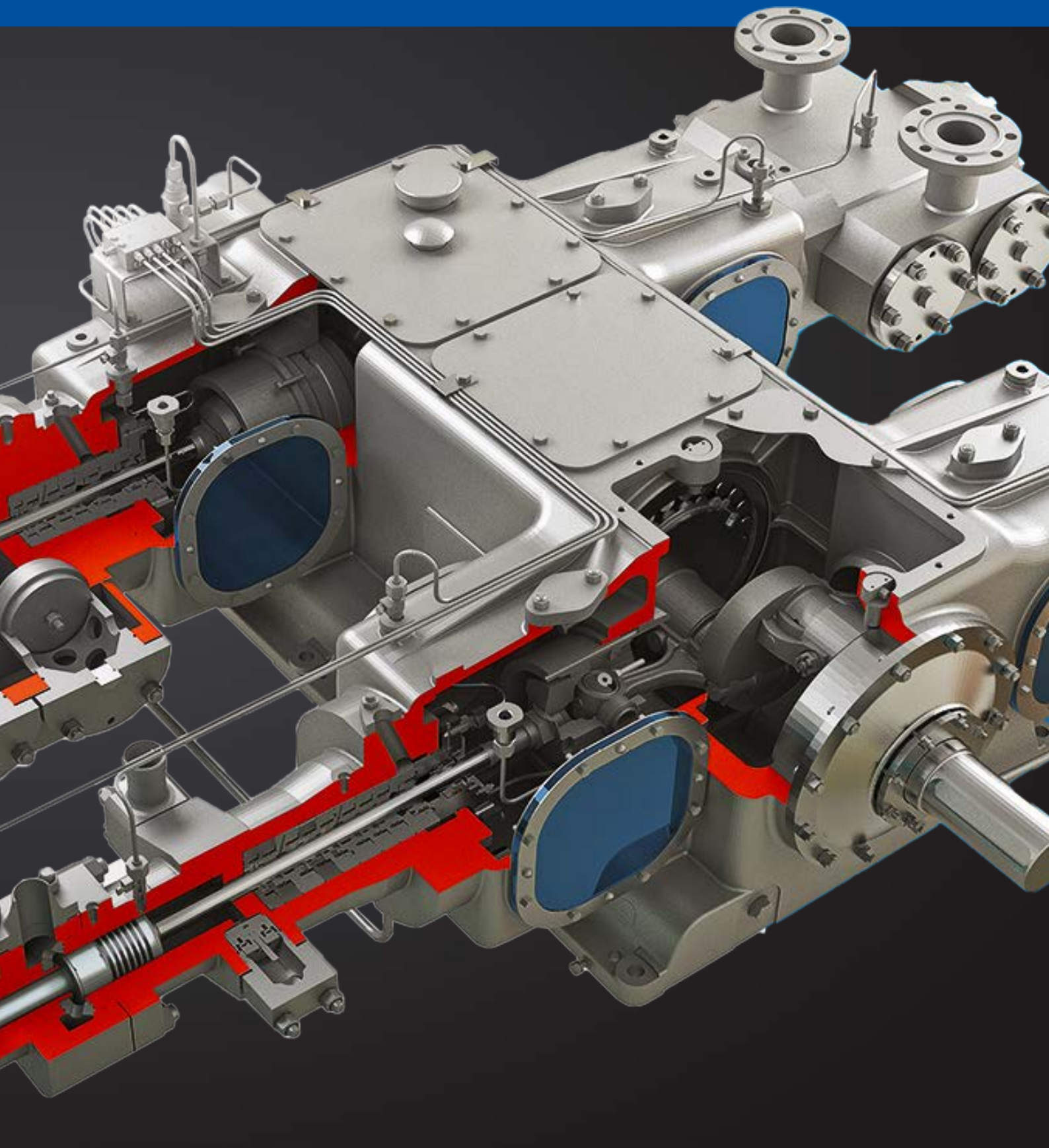
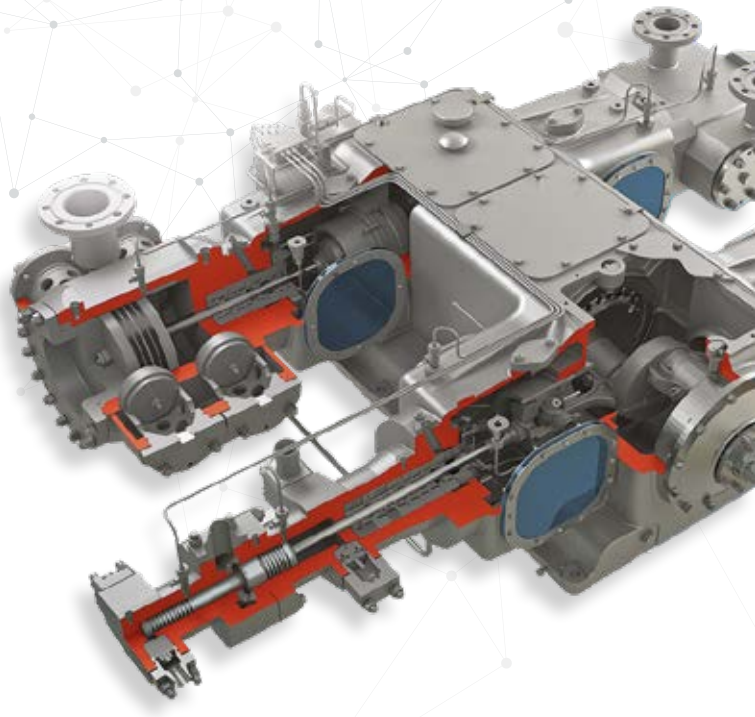






hertz® KOMPRESSOREN | SENSI



SENSI GAS SOLUTIONS

Since 1993, Hertz Kompressoren Sensi Gas Solutions has been offering innovative solutions for world-class energy systems. We successfully combine years of experience with cutting-edge technologies, developing engineering solutions that provide robust support to key industrial sectors worldwide.

Our products are compliant with API 618 reciprocating gas compression standards.

Reciprocating Gas Compressors

Designed for: Supporting technological processes during the operation of gas pumping units, compressing associated petroleum gas (APG) for injection into main pipelines, and serving as booster compressors for pre-compression of natural gas at gas-filling and other stations operating with low inlet pressure from gas networks. Additionally, they are used in air separation plants to produce nitrogen and oxygen.

Medium

- Natural Gas
- Associated Petroleum Gas (APG)
- Inert Gases and Mixed Gases
- Hydrogen
- Biogas
- Fuel Gas
- Air

Cooling

- Air-Cooled
- Liquid-Cooled

Lubrication

- With lubrication of cylinder piston groups
- With limited lubrication
- Without lubrication

Drive Type

- Diesel Engine
- Electric Motor
- Gas Combustion Engine

Configuration

- Opposed
- Vertical

Performance

- Up to 15,000 Nm^3/h

Initial Pressure

- From atmospheric pressure to 50 bar

Final Pressure

- Up to 400 bar

MODELS

1.5SGI

Number of rows: **2**
Loading, t: **1,5**
Max. power, kW: **75**
Max. performance, m³/h: **800**

3SGI

Number of rows: **2**
Loading, t: **3**
Max. power, kW: **160**
Max. performance, m³/h: **2000**

3SGH

Number of rows: **4**
Loading, t: **3**
Max. power, kW: **320**
Max. performance, m³/h: **4000**

3SGHI

Number of rows: **6**
Loading, t: **3**
Max. power, kW: **500**
Max. performance, m³/h: **6000**

6SGI

Number of rows: **2**
Loading, t: **6**
Max. power, kW: **400**
Max. performance, m³/h: **4600**

10SGI

Number of rows: **2**
Loading, t: **10**
Max. power, kW: **500**
Max. performance, m³/h: **8000**

S – for **SENSI** manufacturer
Compressed medium: **G** – any gas **A** – air;
Compressor row configuration: **I** – two-row **H** – four-row **HI** – 6-row

Skid-Mounted Compressors

Used for compressing gases without the use of oil for lubrication, ensuring the cleanliness of the compressed gas. They operate for up to 8,000 hours without maintenance.

Advantages

Explosion safety:
The absence of oil reduces the risk of explosions and fires, making them safe in hazardous environments.

Tailor-Made solutions:
Every compressor is customized to meet specific customer needs, ensuring maximum efficiency and performance.

Resistance to aggressive environments:
Special materials and coatings allow operation with aggressive gases without the risk of corrosion or equipment damage.

Energy efficiency at the core:
By integrating cutting-edge technologies and adhering to the stringent API 618 standards, we ensure our compressors deliver best performance while minimizing energy consumption.

API 618

BUREAU VERITAS
Certification
ISO 9001:2015

Mobile Compressor Solutions

Hertz Kompressoren | SENSI GAS Stations on wheeled platforms are designed for gas compression from atmospheric pressure up to 400 bar. They are used in various industries, including oil extraction, gas processing and energy.

Designed For

- Injecting nitrogen or air into pipelines for leak testing
- Evacuating gas from emergency pipeline sections
- Testing, commissioning, and repairing oil and gas wells
- Producing nitrogen from air

Gas-Set Compressors

Designed for gas compression at production sites in remote areas with limited infrastructure. They operate autonomously or in conjunction with similar units within a common system.

Advantages

- Transported by appropriate standard transport
- Installed at the site in a short period
- Do not require a pile foundation
- Capability to operate in a fully autonomous mode

Building the Future!

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