

COMPRESSOR



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 55 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.

hertz
KOMPRESSOREN

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



ROTARY SCREW & SCROLL COMPRESSORS

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315



IMPETUS

**WATER
COOLED** 

**HEAT
RECOVERY** 



15-243
cfm

5,5-50
HP

100-125
150-175
psi



General Features

- High quality screw block and motor
- Electronic control
- Optional pressure air tank made from high pressure vessel steel (up to 30 HP)
- Easy installation and quick implementation thanks to its compact design
- All air and oil tanks comply with ASME standards



Advantages

- Economic, service-friendly design minimizes downtime and reduces maintenance costs.
- Models with tanks and integrated dryers are compact and take up little space leaving room for other machinery.



Screw Block

- Durable screw block provides high-capacity of air and is specially selected for each model's capacity requirement
- New rotor profiles for reduced loss air production and lower torque requirements
- Next gen bearing design for improved load bearing capabilities



Main Motor and Drive System

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

Model	Pressure		Capacity*		Motor HP/kW	Connection	Dimensions (in.)			Weight lbs
	psi	bar	cfm	m³/min			Length	Width	Height	
HBD 4	100	6,9	21	0,6	5,5/4	1/2" NPT	34	22	34	397
	125	8,6	19	0,5						
	150	10,3	17	0,5						
	175	12,1	15	0,4						
HBD 5	100	6,9	29	0,8	7,5/5,5	1/2" NPT	34	22	34	441
	125	8,6	28	0,8						
	150	10,3	25	0,7						
	175	12,1	23	0,7						
HBD 7	100	6,9	44	1,2	10/7,5	3/4" NPT	40	22	33	496
	125	8,6	39	1,1						
	150	10,3	34	1						
	175	12,1	28	0,8						
HBD 11	100	6,9	68	1,9	15/11	3/4" NPT	48	26	36	661
	125	8,6	63	1,8						
	150	10,3	55	1,6						
	175	12,1	51	1,4						
HBD 15	100	6,9	81	2,3	20/15	3/4" NPT	48	26	36	750
	125	8,6	75	2,1						
	150	10,3	70	2						
	175	12,1	66	1,9						
HBD 15 L	100	6,9	97	2,7	20/15	1" NPT	50	33	58	1058
	125	8,6	87	2,5						
	150	10,3	77	2,2						
	175	12,1	71	2						
HBD 18	100	6,9	119	3,4	25/18,5	1" NPT	50	33	58	1102
	125	8,6	106	3						
	150	10,3	94	2,7						
	175	12,1	88	2,5						
HBD 22	100	6,9	140	3,9	30/22	1" NPT	50	33	58	1168
	125	8,6	128	3,6						
	150	10,3	113	3,2						
	175	12,1	107	3						
HBD 30	100	6,9	195	5,5	40/30	1 1/4" NPT	63	41	69	1742
	125	8,6	171	4,8						
	150	10,3	156	4,4						
	175	12,1	141	4						
HBD 37	100	6,9	243	6,9	50/37	1 1/4" NPT	63	41	69	1830
	125	8,6	220	6,2						
	150	10,3	201	5,7						
	175	12,1	180	5,1						

- Unit performances measured in reference conditions which are 1 bar /14.5 psig absolute air pressure, %0 relative humidity, 20°C / 68°F inlet air temperature, 71°C/160 °F 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.



107-495
cfm

30-100
HP

100-125
150-175
psi



General Features

- Usage up to 113 degrees Fahrenheit ambient temperature
- Suction filter with silencer casing and pre-filtration
- Flexible pipe coupling joints used for water separator
- Optimum inner cabinet air flow for better cooling and air suction
- Oil tank heater for cold environments (optional)



Advantages

- Wide operating pressure range (100-175 psi)
- Easy and fast service with removable and hinged door and panels
- Hinged oil tank cover for easy and fast service



Cooling System

- Cooling fans controlled with secondary fan inverter (HDD 22-75)
- Independent radiator segments
- Silent and slow speed radial fan (HDD 22-75)





Screw Block

- 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 losses and lower torque requirements
- Next gen bearing design for improved load bearing capabilities
- Direct coupling with minimum transition losses

Model	Pressure		Capacity*		Motor HP/kW	Connection	Dimensions (in.)			Weight lbs
	psi	bar	cfm	m³/min			Width	Length	Height	
HDD 22	100	6,9	133	3,8	30/22	1" NPT	64	33	55	1400
	125	8,6	132	3,7						
	150	10,3	107	3						
HDD 30	100	6,9	207	5,8	40/30	1 1/4" NPT	78	44	64	2248
	125	8,6	183	5,2						
	150	10,3	162	4,6						
	175	12,1	140	3,95						
HDD 37	100	6,9	238	6,7	50/37	1 1/4" NPT	78	44	64	2535
	125	8,6	229	6,5						
	150	10,3	203	5,7						
	175	12,1	178	5						
HDD 45	100	6,9	293	8,3	60/45	1 1/2" NPT	78	44	64	2843
	125	8,6	275	7,8						
	150	10,3	247	7						
	175	12,1	221	6,2						
HDD 55	100	6,9	374	10,6	75/55	1 1/2" NPT	91	54	82	4520
	125	8,6	346	9,8						
	150	10,3	290	8,2						
	175	12,1	277	7,8						
HDD 75	100	6,9	495	14	100/75	1 1/2" NPT	91	54	82	4895
	125	8,6	456	13						
	150	10,3	402	11,4						
	175	12,1	381	10,8						

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18-490
cfm

7,5-100
HP

100-125
150-175
psi



General Features

- High-quality, easy-to-replace components with a long service life
- Next generation screw block and motor
- Electronic control
- Direct coupled
- Soft starter (optional)
- Water cooling (optional)
- Tank mounted (up to 20 hp)
- Heat recovery (optional)
- Food grade oil suitable for food production (optional)



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



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.
- Provides energy saving with variable speed feature.





Oil Filter

- Highly efficient immersion-type separator with long service life
- Easy maintenance
- Compact design



Model	Pressure		Capacity*				Motor	Connection	Dimensions (in.)			Weight
	psi	bar	Minimum		Maximum		HP/kW		Length	Width	Height	lbs
			cfm	m³/min	cfm	m³/min						
HVD 5	100	6,9	21	0,6	31	0,9	7,5/5,5	1/2" NPT	41	26	38	569
	125	8,6	19	0,5	28	0,8						
	150	10,3	19	0,5	24	0,7						
HVD 7	100	6,9	18	0,5	46	1,3	10/7,5	1/2" NPT	41	26	38	686
	125	8,6	20	0,6	42	1,2						
	150	10,3	18	0,5	35	1						
	175	12,1	18	0,5	30	0,8						
HVD 11	100	6,9	19	0,5	66	1,9	15/11	3/4" NPT	47	30	46	683
	125	8,6	19	0,5	63	1,8						
	150	10,3	19	0,5	56	1,6						
	175	12,1	23	0,6	49	1,4						
HVD 15	100	6,9	28	0,8	92	2,6	20/15	3/4" NPT	47	30	46	772
	125	8,6	28	0,8	83	2,3						
	150	10,3	27	0,7	77	2,2						
	175	12,1	35	1	65	1,8						
HVD 18	100	6,9	38	1,1	113	3,2	25/18,5	1" NPT	64	33	55	1385
	125	8,6	38	1,1	104	2,9						
	150	10,3	37	1	96	2,7						
	175	12,1	36	1	83	2,3						
HVD 22	100	6,9	38	1,1	137	3,9	30/22	1" NPT	64	33	55	1429
	125	8,6	38	1,1	131	3,7						
	150	10,3	37	1,1	122	3,5						
	175	12,1	38	1,1	112	3,2						
HVD 30	100	6,9	37	1	193	5,4	40/30	1 1/4" NPT	80	44	64	2610
	125	8,6	36	1	172	4,9						
	150	10,3	36	1	162	4,6						
	175	12,1	36	1	147	4,2						
HVD 37	100	6,9	60	1,7	236	6,7	50/37	1 1/4" NPT	80	44	64	2831
	125	8,6	60	1,7	217	6,1						
	150	10,3	60	1,7	203	5,7						
	175	12,1	61	1,7	185	5,2						
HVD 45	100	6,9	99	2,8	311	8,8	60/45	1 1/4" NPT	80	44	64	2976
	125	8,6	99	2,8	283	8						
	150	10,3	111	3,1	254	7,2						
	175	12,1	152	4,3	224	6,3						
HVD 55	100	6,9	94	2,6	351	9,9	75/55	2" NPT	91	54	82	4840
	125	8,6	97	2,7	334	9,4						
	150	10,3	97	2,7	309	8,7						
	175	12,1	153	4,3	266	7,5						
HVD 75	100	6,9	237	6,7	490	13,9	100/75	2" NPT	91	54	82	5390
	125	8,6	233	6,6	438	12,4						
	150	10,3	226	6,4	409	11,6						
	175	12,1	226	6,4	366	10,3						

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30-120,8
cfm

30-100
hp

100-125-150
psi



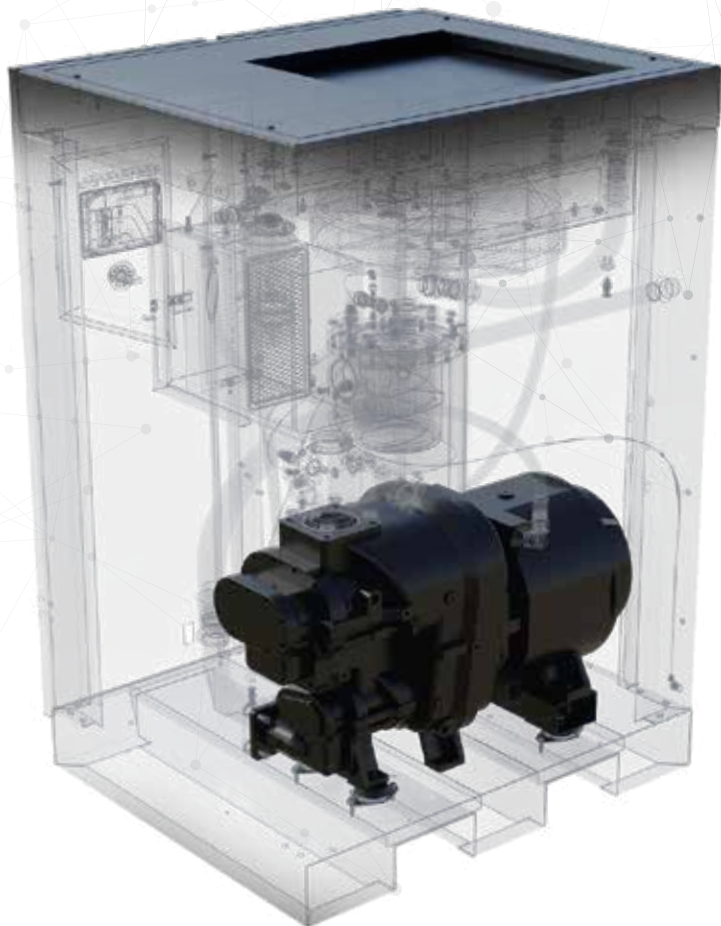
General Features

- IE5 efficiency-class IPM electric motors
- Two-stage screw block
- Water cooling (50 hp/37 kW and above)
- Soft start with variable speed power transmission
- Operating with low noise level
- Integrated dryer (optional)
- Heat recovery (optional)



Electric Motor Drive

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



Electric Motor

- 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
- Low noise levels
- Grease-free lubricated motor bearings



Cooling System

- High cooling efficiency in compact air and oil heat exchangers
- Suitable design for operating up to 113°F
- Radial fan for high cooling efficiency (50 hp/37 kW and above)
- Low noise level with low speed radial fans
- Cooling fan driver for maximum energy efficiency



Screw Block

- Two-stage screw block produces energy efficiency by up to 10%
- Higher flow rate by up to 10%.
- Thanks to low compression rate low axial and compression forces
- Zero transmission losses by compact direct power transmission
- No requirement for a power transmission element results in a compact design
- Low axial and compression forces due to low compression ratio between screw blocks
- Long service life, thanks to low rotor speeds
- Low noise and vibration levels, thanks to two-stage compression



Intake Chamber

- High acoustic performance in noise dampening
- Insulated cold air intake for energy efficiency





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



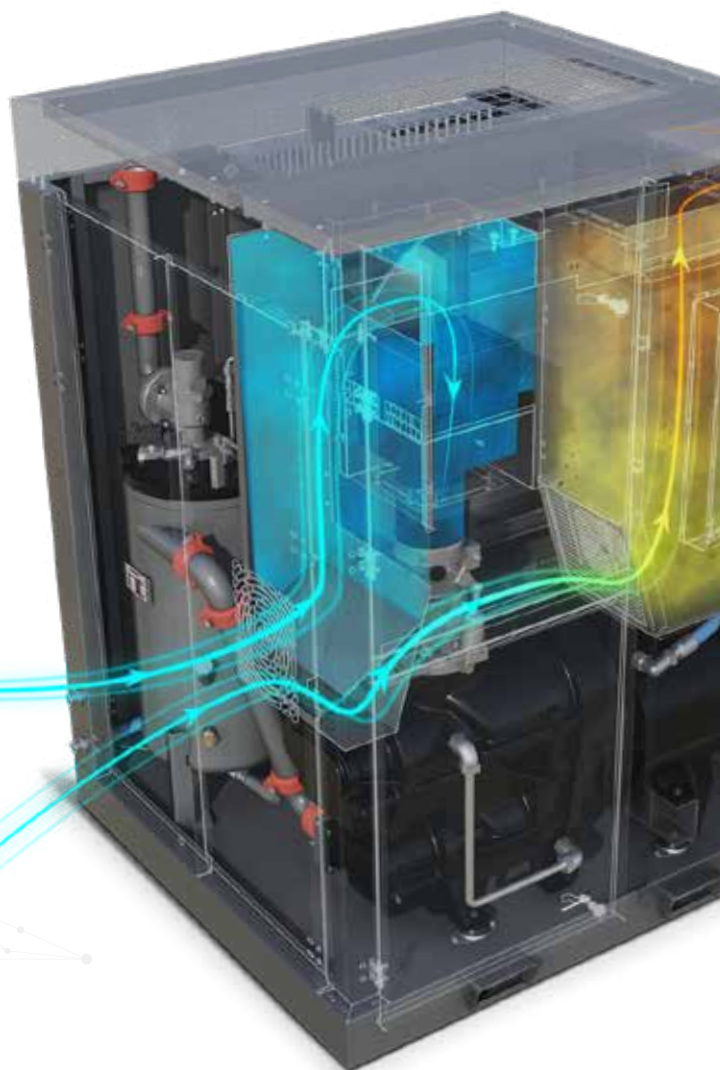
Separator System

- 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
- 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 (in.)			Weight	Noise
			Minimum		Maximum				lbs				
	psi	bar	cfm	m³/min	cfm	m³/min	hp/kW		Length	Width	Height		dB (A)
IMPETUS VSD 22	100	6,9	36	1,02	152,2	4,31	30/22	NPT 1 1/4"	38	43	62	1654	72
	125	8,6	35,3	1	138,1	3,91							
	150	10,3	30	0,85	122,5	3,47							
IMPETUS VSD 30	100	6,9	61,4	1,74	219,7	6,22	40/30	NPT 1 1/4"	38	43	62	1929	72
	125	8,6	55,1	1,56	203,4	5,76							
	150	10,3	52,3	1,48	180,8	5,12							
IMPETUS VSD 37	100	6,9	62,5	1,77	271,2	7,68	50/37	NPT 1 1/2"	47	49	73	2690	71
	125	8,6	57,9	1,64	241,9	6,85							
	150	10,3	60,4	1,71	213,7	6,05							
IMPETUS VSD 45	100	6,9	81,6	2,31	327	9,26	60/45	NPT 1 1/2"	47	49	73	3087	72
	125	8,6	74,9	2,12	291,3	8,25							
	150	10,3	72,7	2,06	250	7,08							
IMPETUS VSD 55	100	6,9	98,2	2,78	410	11,61	75/55	NPT 2"	55	57	77	3572	72
	125	8,6	92,2	2,61	369,4	10,46							
	150	10,3	78	2,21	323,1	9,15							
IMPETUS VSD 75	100	6,9	120,8	3,42	570,7	16,16	100/75	NPT 2"	55	57	77	4079	72
	125	8,6	120,4	3,41	511,7	14,49							
	150	10,3	119,7	3,39	12,71	448,8							

- 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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171-2242
cfm

125-430
HP

110-125
145-190
psi



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
- Motors have 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
- With 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 113 °F
- Low noise level with low speed radial fans
- Energy efficiency with optimum oil temperature thanks to VSD-controlled radial fans



Model	Pressure		Capacity*		Motor HP/kW	Connection	Dimensions (in.)			Weight lbs	Noise dB (A)
	psi	bar	cfm	m³/min			Length	Width	Height		
IMPETUS 90	100	6,9	631	17,9	125/90	ANSI 1 1/2"	109	71	76	8069	75
	125	8,6	628	17,8							
	150	10,3	497	14,1							
	175	12,1	494	14,0							
IMPETUS 110	100	6,9	790	22,4	150/110	ANSI 1 1/2"	109	71	76	8818	75
	125	8,6	786	22,3							
	150	10,3	628	17,8							
	175	12,1	626	17,7							
IMPETUS 132	100	6,9	946	26,8	180/132	ANSI 3"	116	77	79	9921	75
	125	8,6	937	26,5							
	150	10,3	813	23,0							
	175	12,1	783	22,2							
IMPETUS 160	100	6,9	1106	31,3	220/160	ANSI 3"	116	77	79	11023	76
	125	8,6	1059	30,0							
	150	10,3	957	27,1							
	175	12,1	916	25,9							
IMPETUS 200	100	6,9	1606	45,5	270/200	ANSI 4"	138	89	93	13713	78
	125	8,6	1456	41,2							
	150	10,3	1286	36,4							
	175	12,1	1077	30,5							
IMPETUS 250	100	6,9	1823	51,6	340/250	ANSI 4"	138	89	93	20106	79
	125	8,6	1703	48,2							
	150	10,3	1567	44,4							
	175	12,1	1444	40,9							
IMPETUS 315	100	6,9	2242	63,5	430/315	ANSI 4"	138	89	93	20723	80
	125	8,6	2103	59,6							
	150	10,3	1859	52,6							
	175	12,1	1674	47,4							

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Model	Pressure		Capacity*				Motor Power	Connection	Dimensions (in.)			Weight	Noise
			Minimum		Maximum				Length	Width	Height	lbs	
	psi	bar	cfm	m³/min	cfm	m³/min	HP/kW						dB (A)
IMPETUS VSD 90	100	6,9	182	5,2	635	18,0	125/90	ANSI 2 1/2"	109	71	76	8455	75
	125	8,6	186	5,3	601	17,0							
	150	10,3	178	5,0	549	15,5							
	175	12,1	171	4,8	481	13,6							
IMPETUS VSD 110	100	6,9	239	6,8	816	23,1	150/110	ANSI 2 1/2"	109	71	76	9259	75
	125	8,6	238	6,7	752	21,3							
	150	10,3	234	6,6	684	19,4							
	175	12,1	230	6,5	617	17,5							
IMPETUS VSD 132	100	6,9	272	7,7	979	27,7	180/132	ANSI 3"	116	77	79	10307	75
	125	8,6	269	7,6	915	25,9							
	150	10,3	263	7,4	834	23,6							
	175	12,1	263	7,4	756	21,4							
IMPETUS VSD 160	100	6,9	297	8,4	1185	33,6	220/160	ANSI 3"	116	77	79	11685	76
	125	8,6	294	8,3	1090	30,9							
	150	10,3	288	8,2	981	27,8							
	175	12,1	288	8,2	842	23,8							
IMPETUS VSD 200	100	6,9	410	11,6	1516	42,9	270/200	ANSI 4"	138	89	93	14440	78
	125	8,6	403	11,4	1404	39,8							
	150	10,3	406	11,5	1272	36,0							
	175	12,1	404	11,4	1163	32,9							
IMPETUS VSD 250	100	6,9	604	17,1	1845	52,3	340/250	ANSI 4"	138	89	93	20723	79
	125	8,6	593	16,8	1698	48,1							
	150	10,3	590	16,7	1559	44,2							
	175	12,1	581	16,5	1366	38,7							
IMPETUS VSD 315	100	6,9	591	16,7	2203	62,4	430/315	ANSI 4"	138	89	93	21341	80
	125	8,6	588	16,7	2067	58,5							
	150	10,3	577	16,3	1908	54,0							
	175	12,1	577	16,3	1640	46,4							

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5,65-120
cfm

2-40
HP

115-145
psi



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 HP/kW	Connection	Dimensions (in.) [Length x Width x Height]			Weight (lbs)		
		psi	bar	cfm	m³/min			Base Mounted	Tank Mounted	Tank + Dryer	Base Mounted	Tank Mounted	Tank + Dryer
SINGLE	HS1.5-S	115	8	5,65	0,16	2/1,5	1/2" NPT	29x29x35	77x34x64	74x33x64	430	996	1067
	HS2.2-S	115	8	8,48	0,24	3/2,2	1/2" NPT	29x29x35	77x34x64	74x33x64	441	1008	1078
		145	10	7,06	0,2								
	HS3.7-S	115	8	14,13	0,4	5,5/3,7	1/2" NPT	29x29x35	77x34x64	74x33x64	485	1052	1122
		145	10	12,01	0,34								
	HS5.5-S	115	8	21,19	0,6	7,5/5,5	1/2" NPT	29x29x35	77x34x64	74x33x64	507	1074	1144
		145	10	16,6	0,47								
	HS7.5-S	115	8	30,02	0,85	10/7,5	1/2" NPT	29x29x35	77x34x64	74x33x64	518	1085	1197
		145	10	24,01	0,68								
	HS7,5-D	115	8	28,25	0,8	2x(5,5/3,7)	3/4" NPT	59x32x41	76x36x70	-	893	1459	-
		145	10	24,01	0,68								
DOUBLE	HS11-D	115	8	42,38	1,2	2x(7,5/5,5)	3/4" NPT	59x32x41	76x36x70	-	937	1504	-
		145	10	33,2	0,94								
	HS15-D	115	8	60,03	1,7	2x(10/7,5)	3/4" NPT	59x32x41	76x36x70	-	970	1537	-
		145	10	48,03	1,36								
TRIPLE	HS11-T	115	8	42,38	1,2	3x(5,5 / 3,5)	1" NPT	59x32x72	-	-	1190	-	-
		145	10	36,02	1,02								
	HS16,5-T	115	8	63,57	1,8	3x(7,5/5,5)	1" NPT	59x32x72	-	-	1356	-	-
		145	10	49,79	1,41								
	HS22.5-T	115	8	90,05	2,55	3x(10/7,5)	1" NPT	59x32x72	-	-	1378	-	-
		145	10	72,04	2,04								
QUADRUPLE	HS15-Q	115	8	56,5	1,6	4x(5,5/3,7)	1" NPT	59x32x72	-	-	1422	-	-
		145	10	48,03	1,36								
	HS22-Q	115	8	84,75	2,4	4x(7,5/5,5)	1" NPT	59x32x72	-	-	1642	-	-
		145	10	66,39	1,88								
	HS30-Q	115	8	120,07	3,4	4x(10/7,5)	1" NPT	59x32x72	-	-	1664	-	-
		145	10	96,06	2,72								

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131-1723
cfm

50-430
HP

100-125
145 psi



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

- Produces less filter waste than oil-injected compressors, which reduces your maintenance costs down.
- 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 65% energy and reduce your energy costs.
- Special venturi design prevents rapid pressure fluctuations and high-frequency vibrations.





Screw Block

- Two-stage screw block
- Bearing system developed with the latest technology ensures long life and vibration-free operation
- High level sealing system ensures high performance even during long operation periods
- Synchronizing gears for contact-free power transmission between the rotors
- 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
- Ultracoat coating for high temperature resistance

Cooling System

- Two-stage cooling with pre-cooler system made of stainless steel pipes and fins
- After-cooler with aluminium bar and plate system
- Easy to maintain and clean
- Washable panel filter
- Optimum in-cabinet air circulation to keep the motor and screw block cool

Water Separator

- Improved design for highly efficient water separation at the cooler outlet with minimum pressure loss
- Energy-efficient and zero-loss electronic drain system drains the water before the compressed air is sent to the dryer



Model	Pressure		Capacity *		Motor HP/kW	Connection	Dimensions (in.)		
	psi	bar	cfm	m³/min.			Length	Width	Height
EAGLE 37	100	7	219	6,2	50/37	2" NPT	96	63	85
	125	8,5	184	5,2					
	145	10	166	4,7					
EAGLE 45	100	7	265	7,5	60/40	2" NPT	96	63	85
	125	8,5	230	6,5					
	145	10	208	5,9					
EAGLE 55	100	7	332	9,4	75/55	2" NPT	96	63	85
	125	8,5	304	8,6					
	145	10	265	7,5					
EAGLE 75	100	7	449	12,7	100/75	2" NPT	96	63	85
	125	8,5	413	11,7					
	145	10	378	10,7					
EAGLE 90	100	7	512	14,5	125/90	2" NPT	96	63	85
	125	8,5	512	14,5					
	145	10	449	12,7					
EAGLE 110	100	7	675	19,1	150/110	ANSI 3"	121	72	96
	125	8,5	572	16,2					
	145	10	565	16					
EAGLE 132	100	7	809	22,9	180/132	ANSI 3"	121	72	96
	125	8,5	766	21,7					
	145	10	671	19					
EAGLE 160	100	7	954	27	220/160	ANSI 3"	121	72	96
	125	8,5	897	25,5					
	145	10	837	23,8					
EAGLE 185	100	7	1024	29	250/185	ANSI 3"	121	72	96
	125	8,5	1021	28,8					
	145	10	943	26,7					
EAGLE 200	100	7	1222	34,5	270/200	ANSI 4"	145	84	127
	125	8,5	1137	32,2					
	145	10	1024	29					
EAGLE 250	100	7	1533	43,4	340/250	ANSI 4"	145	84	127
	125	8,5	1448	41					
	145	10	1219	34,5					
EAGLE 315	100	7	1717	48,6	430/315	ANSI 4"	145	84	127
	125	8,5	1713	48,5					
	145	10	1526	43,2					

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

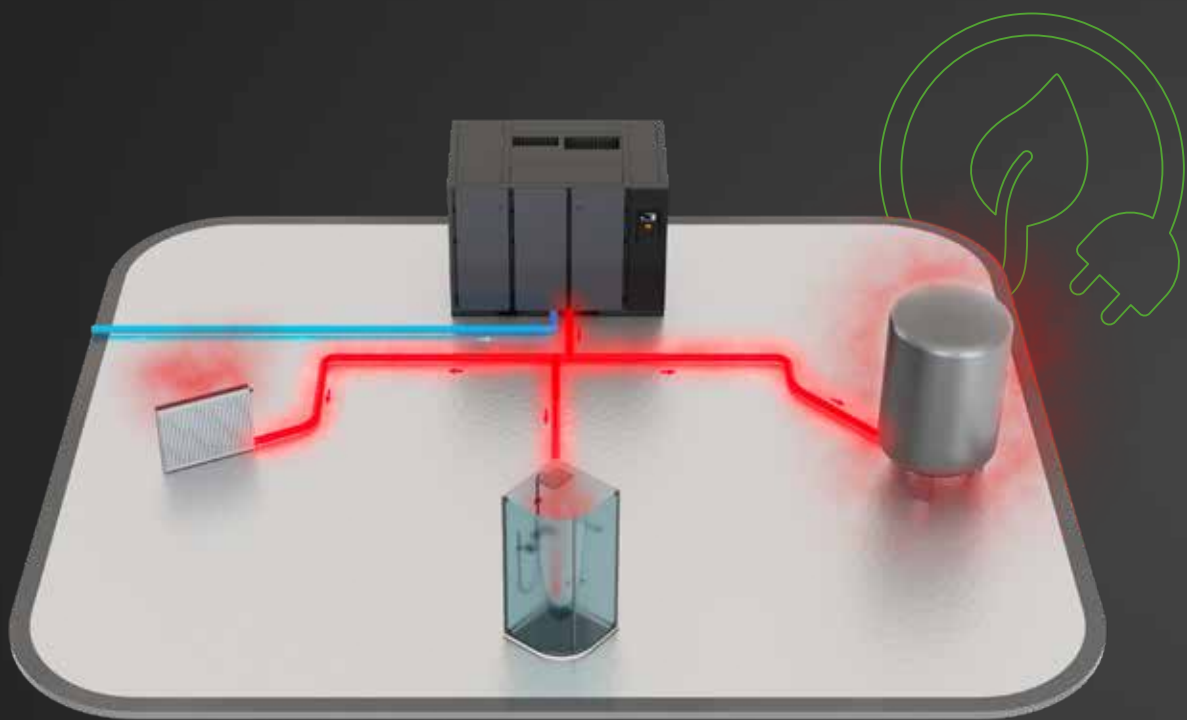
Model	Pressure		Capacity *				Motor HP/kW	Connection	Dimensions (in.)		
	psi	bar	Min. cfm	Min. m³/min	Max. cfm	Max. m³/min			Length	Width	Height
EAGLE 55 VSD	100	7	134	3,8	321	9,1	75/55	2" NPT	96	63	85
	125	8,5	131	3,7	293	8,3					
	145	10	131	3,7	265	7,5					
EAGLE 75 VSD	100	7	219	6,2	452	12,8	100/75	2" NPT	96	63	85
	125	8,5	219	6,2	420	11,9					
	145	10	219	6,2	389	11					
EAGLE 90 VSD	100	7	219	6,2	516	14,6	125/90	2" NPT	96	63	85
	125	8,5	219	6,2	501	14,2					
	145	10	219	6,2	466	13,2					
EAGLE 110 VSD	100	7	367	10,4	724	20,4	150/110	ANSI 3"	121	72	96
	125	8,5	364	10,3	653	18,5					
	145	10	364	10,3	615	17,4					
EAGLE 132 VSD	100	7	367	10,4	784	22,2	180/132	ANSI 3"	121	72	96
	125	8,5	367	10,4	742	21					
	145	10	364	10,3	692	19,6					
EAGLE 160 VSD	100	7	378	10,7	950	26,9	220/160	ANSI 3"	121	72	96
	125	8,5	374	10,6	901	25,5					
	145	10	374	10,6	830	23,5					
EAGLE 185 VSD	100	7	494	14	1045	29,6	250/185	ANSI 3"	121	72	96
	125	8,5	494	14	1042	29,5					
	145	10	491	13,9	978	27,7					
EAGLE 200 VSD	100	7	614	17,4	1278	36,2	270/200	ANSI 4"	145	84	127
	125	8,5	611	17,3	1176	33,3					
	145	10	607	17,2	1074	30,4					
EAGLE 250 VSD	100	7	667	18,9	1575	44,6	340/250	ANSI 4"	145	84	127
	125	8,5	664	18,8	1458	41,3					
	145	10	660	18,7	1349	38,2					
EAGLE 315 VSD	100	7	809	22,9	1723	48,8	430/315	ANSI 4"	145	84	127
	125	8,5	809	22,9	1646	46,6					
	145	10	809	22,9	1635	46,3					

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

ENERGY EFFICIENCY



Heat Recovery Options **For Even More Savings**

In compressor, a high amount of heat is released during the compression of the air.

A large amount of heat is recovered with a suitable oil/water exchanger placed at the oil tank outlet of the compressor. The hot water obtained with the heat recovery can be used in many areas in your facilities. By directing the hot air coming out of the compressor, a room can be heated when heating is required, or hot air can be given outside with thermostatic control, in accordance with seasonal changes.

In this way, savings from the heating system and natural gas are provided.

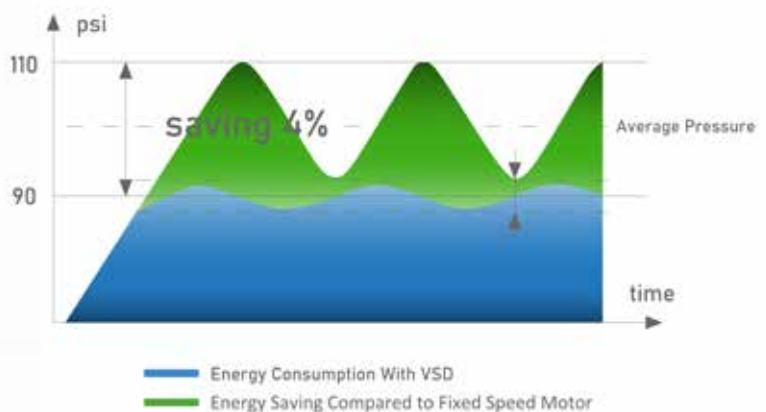
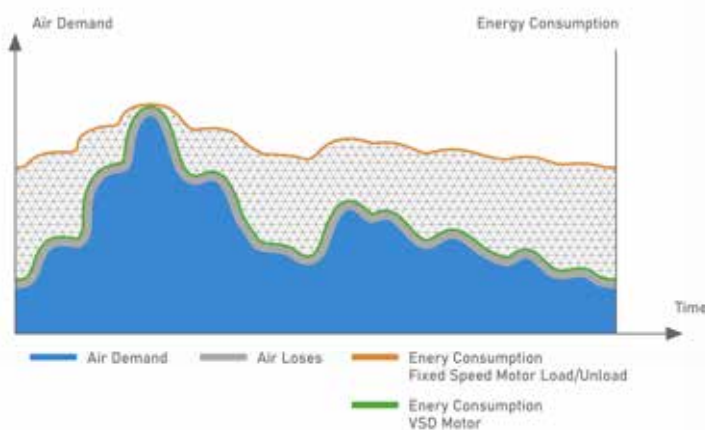
80% of the compressor's total energy consumption can be recovered.

VSD

What is VSD Technology?

The demand for compressed air is variable in some industrial operations. In such conditions our VSD compressors automatically adjust the compressor's operating speed to match air production to demand in real time, saving significant amounts of energy.

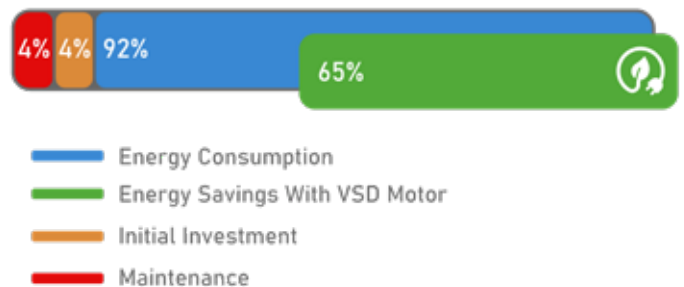
A traditional fixed speed air compressor can only operate at full capacity. Fixed speed compressors consume a lot of energy when less air is required and some of the energy is wasted.

**VSD**

Why Hertz VSD?

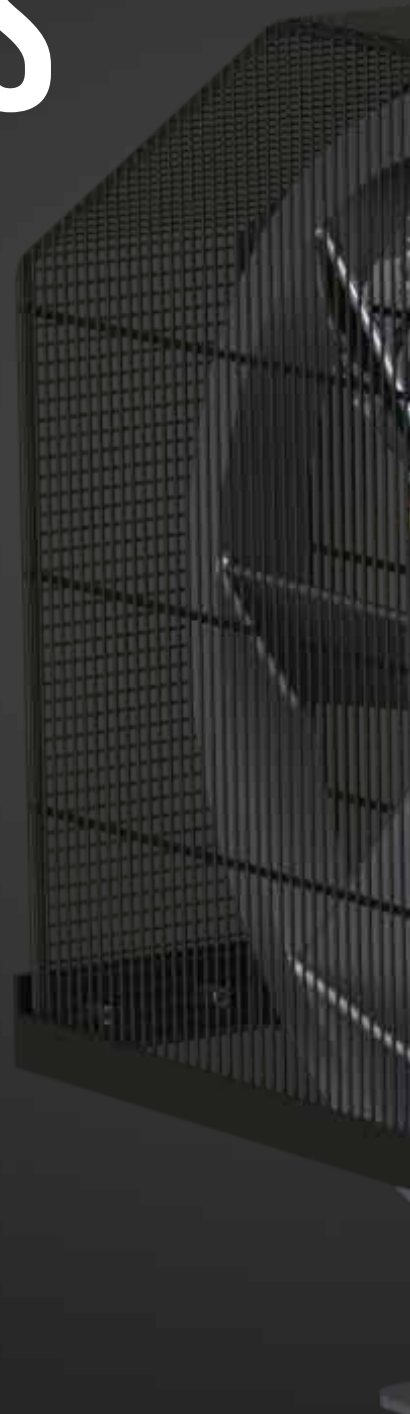
- Whereas VSD compressor works only according to the amount of need, it reduces the energy cost.
- There is no need to unload, which saves both time and energy.
- Air system pressure is more consistent and also lower, minimizing energy consumption and air leaks.
- Motor and inverter are specially designed to provide maximum efficiency.
- The motors have successfully passed tests performed in the harshest conditions such as high temperature and high pressure.
- Variable speed compressors vibrate less than the other models used in the market.

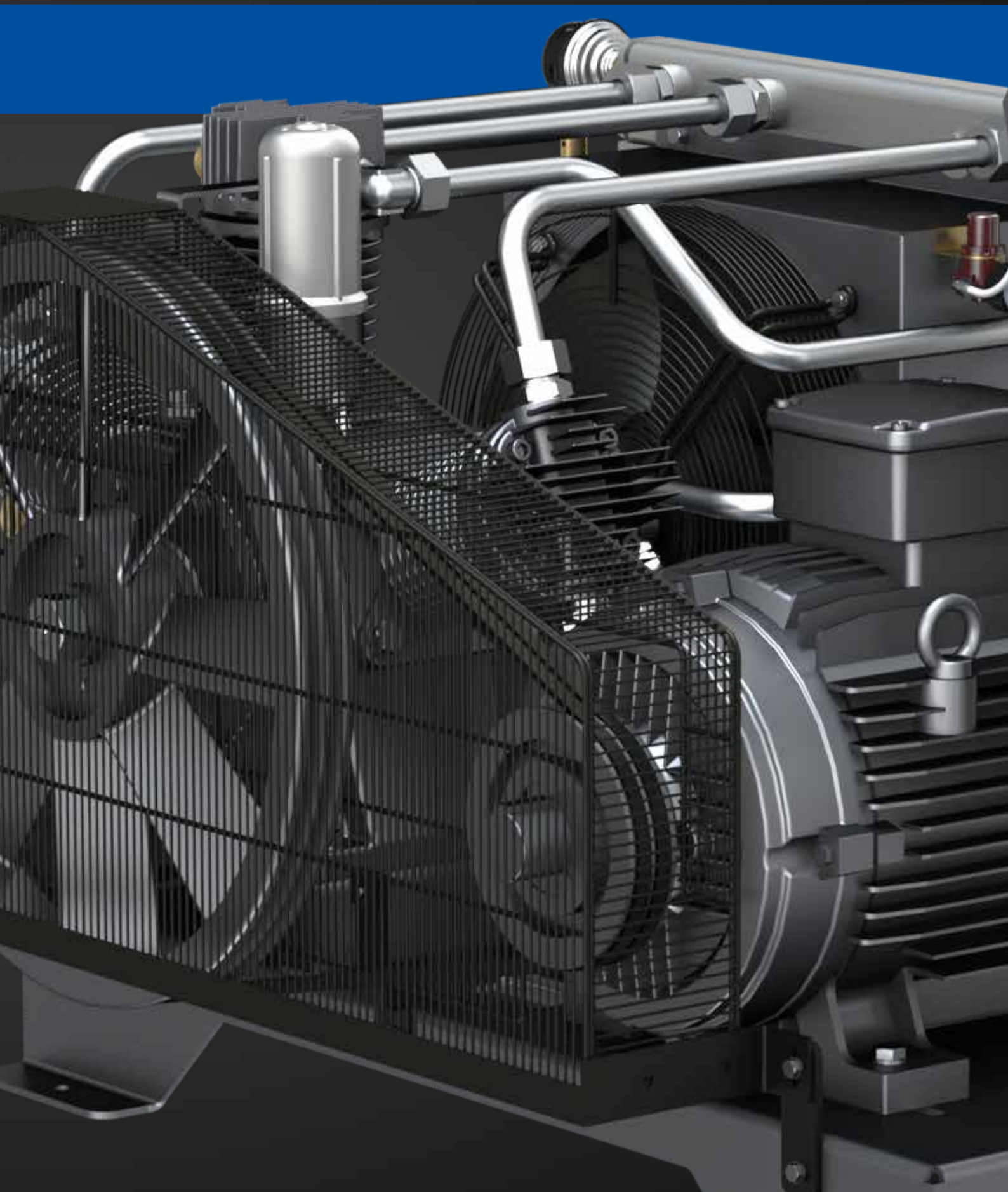
up to **65%***
energy savings



RECIPROCATING AIR COMPRESSORS

INDEX	HPC BOOSTER - Belt Driven	32
	WAVE - Direct Coupled	34
	HPC-E - Silent Air	36
	PET MASTER - Oil Free, Fixed/Variable Speed	38





73-392
cfm

10-40
HP

218-580
psi



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



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 [In.]			Weight
	Minimum psi - bar		Maximum psi - bar		7 bar cfm - m³/min		10 bar cfm - m³/min		12 bar cfm - m³/min				HP/kW	Length	Width	
HPC BOOSTER 10	218	15	580	40	73	2,05	105	2,95	120	3,40	10/7,5	1" NPT	51	32	30	591
HPC BOOSTER 15	218	15	580	40	87	2,46	125	3,53	144	4,07	15/11	1" NPT	51	32	30	628
HPC BOOSTER 20	218	15	580	40	137	3,88	197	5,58	227	6,42	20/15	1" NPT	53	33	30	661
HPC BOOSTER 25	218	15	580	40	184	5,2	264	7,47	304	8,61	25/18,5	1 1/4" NPT	56	34	29	761
HPC BOOSTER 30	218	15	580	40	207	5,86	298	8,42	343	9,7	30/22	1 1/4" NPT	56	34	29	860
HPC BOOSTER 40	218	15	580	40	237	6,70	340	9,63	392	11,1	40/30	1 1/4" NPT	56	38	29	939

- 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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30,5-99,6
cfm

15-40
HP

174-580
psi



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 (in.)			Weight
	Minimum psi - bar		Maximum psi - bar		cfm	m³/min				Length	Width	Height	
HW 52	174	12	580	40	30,5	0,86	460/60	15/11	1" NPT	51	43	40	906
HW 64	174	12	580	40	51,13	1,44	460/60	20/15	1" NPT	51	43	40	928
HW 108	174	12	580	40	78,2	2,21	460/60	30/22	1" NPT	62	46	43	630
HW 166	174	12	580	40	99,6	2,82	460/60	40/30	1" NPT	64	46	43	1500

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19-38
cfm

5-7,5-10
HP

175
psi



Advantages

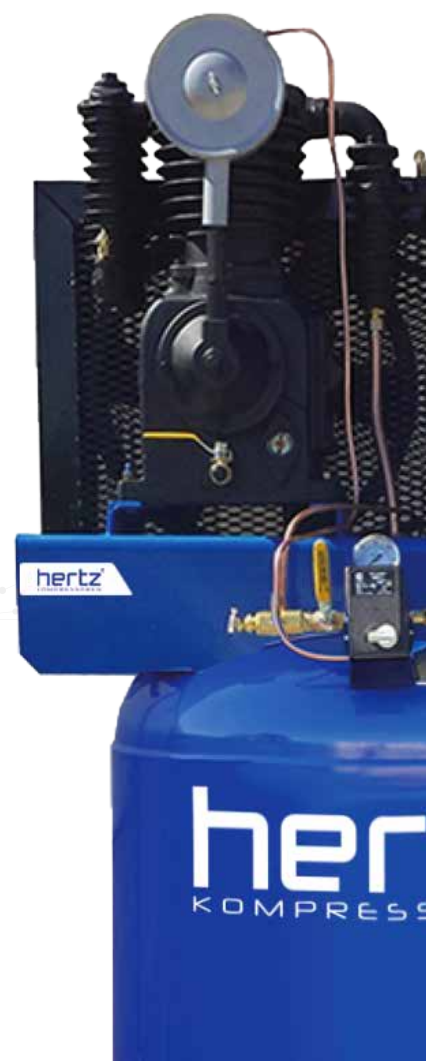
- Patented silent air system reduces the decibels by more than 50% by adding 4 layers of air filtration.
- The magnetic starter provides a safe start method along with the overload protection when starting. (7.5 HP and up models)
- Easy two-turn design of belt tension adjuster reduces vibration and extends belt life.
- It delivers up to 38 CFM from single phase 10 HP models.
- Continuous mode functionality eliminates wear and tear on your magnetic contactor for workloads over 50%.





General Features

- Extended life time thanks to patented pressure lubricated pump
- No daily maintenance with 110-volt dual timer controlled auto tank drain
- Powder coated ASME certified tanks with 200 PSI rating
- B-style belts to ensure smooth operation
- Top quality pressure switches
- 100% brass valves
- 16G steel with premium grade expanded metal belt guards
- Low in take noise by channeling the in take air through a series of baffle plates



Model	Pressure		Intake Capacity		Motor	Voltage	Tank Volume	Dimensions (in.)	Weight
	bar	psi	L/min.	cfm	kW/HP	V/ph/hz	Gal	Length x Width x Height	lbs
HPC 5 E	12.1	175	538	19	4 / 5	230/1/60	80	34 x 42 x 75	620
						230&460/3/460			
HPC 7.5 E	12.1	175	878	31	5.5 / 7.5	230/1/60	80	38 x 42 x 73	743
						230&460/3/460			
HPC 10 E	12.1	175	1076	38	7.5 / 10	230/1/60	120	41 x 43 x 79	1020
						230&460/3/460			

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127-812
cfm

50-300
HP

580
psi



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
- 290-580 psi operating range



Advantages

- Compact structure, easy to install and assemble.
- Takes up less room than other products in its class, providing maximum oil-free air capacity in minimum space.
- Wear due to friction is minimized. This positively affects maintenance times and costs.
- Stainless 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 HP/kW	Connection	Dimensions (in)			Weight lbs
	psi	bar	cfm	m³/min			Length	Width	Height	
PET Master 50	580	40	127	3,6	50/37	1 1/4" NPT	144	66	94	12125
PET Master 75	580	40	194	5,5	75/55	1 1/4" NPT	144	66	94	12125
PET Master 100	580	40	261	7,4	100/75	1 1/4" NPT	133	95	95	14330
PET Master 125	580	40	321	9,1	125/90	1 1/4" NPT	133	95	95	14330
PET Master 150	580	40	410	11,6	150/110	2" NPT	165	78	110	16534
PET Master 180	580	40	477	13,5	180/132	2" NPT	165	78	110	16534
PET Master 220	580	40	579	16,4	220/160	2" NPT	165	78	110	17196
PET Master 270	580	40	752	21,3	270/200	2" NPT	167	87	112	20282
PET Master 300	580	40	812	23	300/220	2" NPT	167	87	112	20282

Model	Working Pressure		Capacity				Motor HP/kW	Connection	Dimensions (in.)			Weight lbs
	psi	bar	Minimum cfm	Minimum m³/min	Maximum cfm	Maximum m³/min			Length	Width	Height	
PET Master 75 VSD	580	40	145	4,1	194	5,5	75/55	1 1/4" NPT	144	66	94	12345
PET Master 125 VSD	580	40	240	6,8	321	9,1	125/90	1 1/4" NPT	133	95	95	14660
PET Master 180 VSD	580	40	357	10,1	477	13,5	180/132	2" NPT	165	78	110	17085
PET Master 220 VSD	580	40	434	12,3	579	16,4	220/160	2" NPT	165	78	110	17635
PET Master 300 VSD	580	40	611	17,3	812	23	300/220	2" NPT	167	87	112	20945

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**Building
the Future!**



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