

4,3-16
m³/min

22-75
kW

7,5-8,5-10
bar



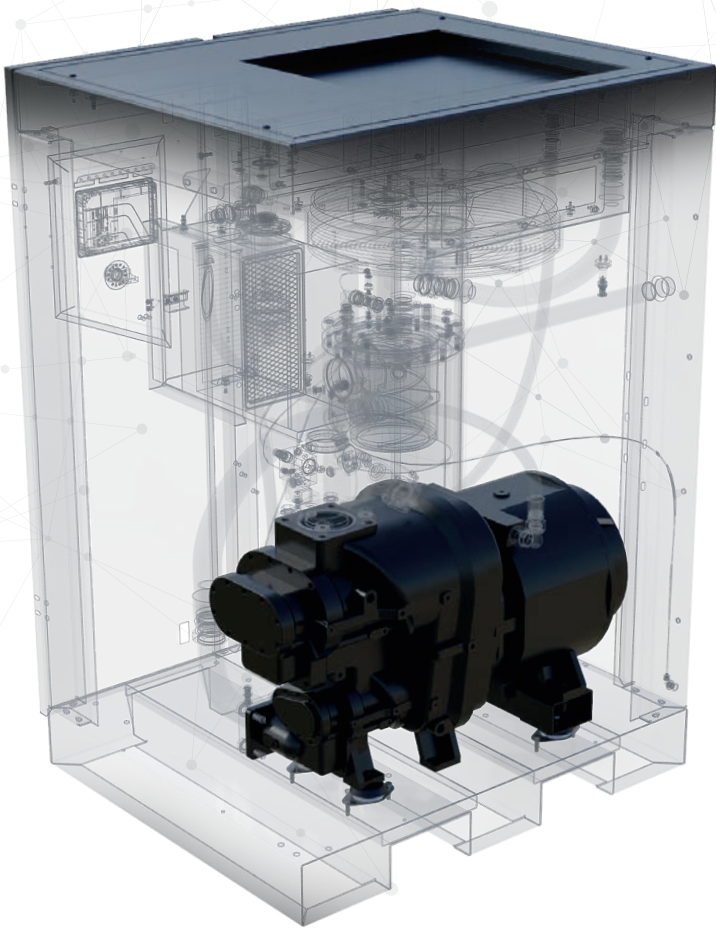
General Features

- IE5 efficiency-class IPM electric motors
- Two-stage screw block
- Water cooling (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

- The 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 45°C
- Radial fan for high cooling efficiency (37 kW and above)
- Low noise level with low speed radial fans
- Cooling fan driver for maximum energy efficiency



Screw Block

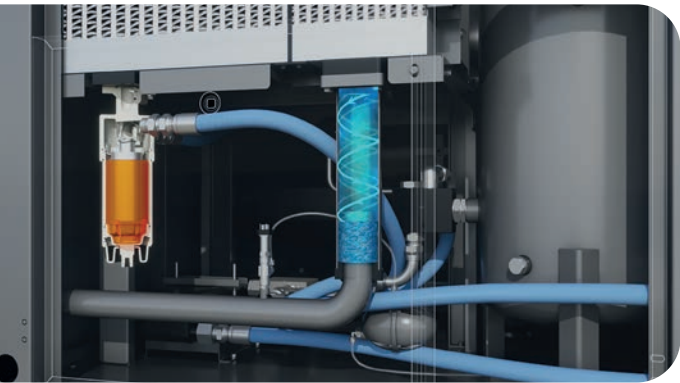
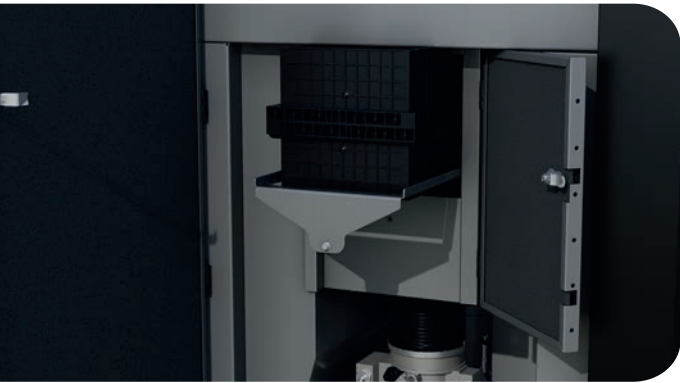
- Two-stage screw block produces energy efficiency by up to 10%
- Higher flow rate by up to 10%.
- Thanks to low compression rate low axial and compression forces
- Zero transmission losses by compact direct power transmission
- No requirement for a power transmission element results in a compact design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



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 <math>< 3\text{mbar}</math>)
- Easy maintenance
- Long service life



Oil Filter

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



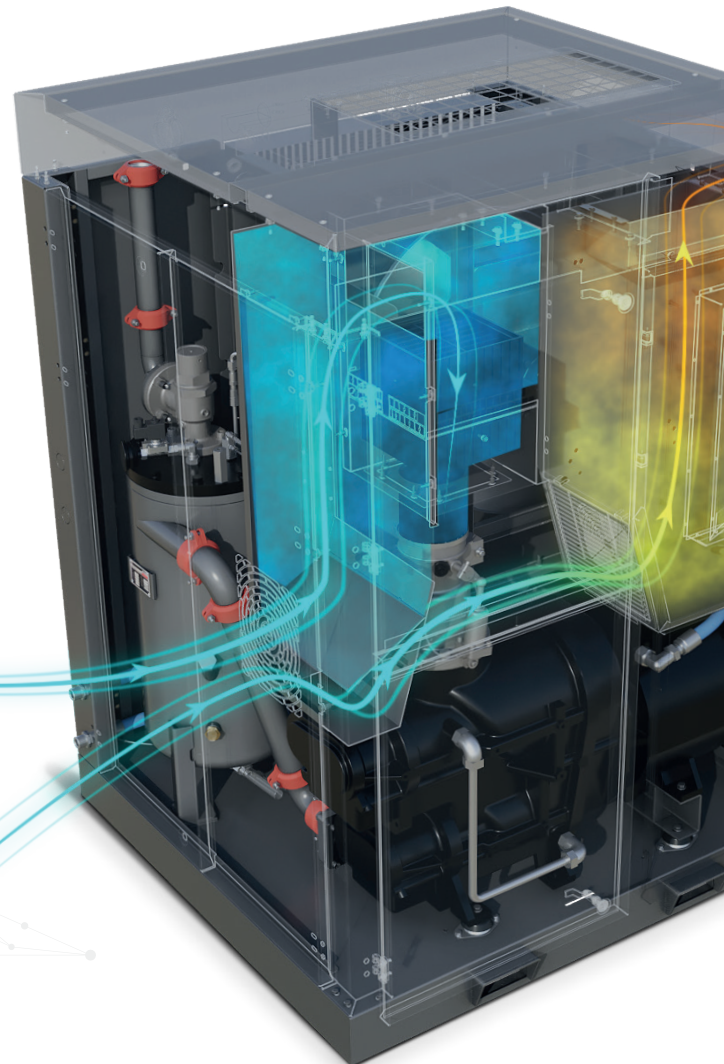
Separator System

- Effective separator elements keep the amount of oil in the outlet air low ($1-3 \text{ mg/m}^3$) 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 (mm)			Weight	Noise
			Minimum		Maximum				Length	Width	Height		
	bar	psi	m ³ /min	cfm	m ³ /min	cfm	kW/hp					kg	dB (A)
IMPETUS VSD 22	7,5	110	1,02	36	4,35	154	22/30	G 1 1/4"	955	1095	1580	750	72
	8,5	125	1,04	37	4,17	147			955	1095	1580		
	10	145	1,03	36	3,76	133			955	1095	1580		
IMPETUS VSD 30	7,5	110	1,63	58	6,36	225	30/40	G 1 1/4"	955	1095	1580	875	72
	8,5	125	1,60	57	5,91	209			955	1095	1580		
	10	145	1,57	55	5,41	191			955	1095	1580		
IMPETUS VSD 37	7,5	110	1,77	63	7,76	274	37/50	G 1 1/2"	1195	1250	1860	1220	71
	8,5	125	1,77	63	7,27	257			1195	1250	1860		
	10	145	1,76	62	6,52	230			1195	1250	1860		
IMPETUS VSD 45	7,5	110	2,30	81	9,30	329	45/60	G 1 1/2"	1195	1250	1860	1400	72
	8,5	125	2,28	80	8,73	308			1195	1250	1860		
	10	145	2,27	80	8,01	283			1195	1250	1860		
IMPETUS VSD 55	7,5	110	2,60	92	11,60	410	55/75	G 2"	1400	1450	1965	1620	72
	8,5	125	2,54	90	10,85	383			1400	1450	1965		
	10	145	2,53	89	9,54	337			1400	1450	1965		
IMPETUS VSD 75	7,5	110	3,51	124	16,01	565	75/100	G 2"	1400	1450	1965	1850	72
	8,5	125	3,63	128	15,27	539			1400	1450	1965		
	10	145	3,57	126	13,22	467			1400	1450	1965		

- 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.