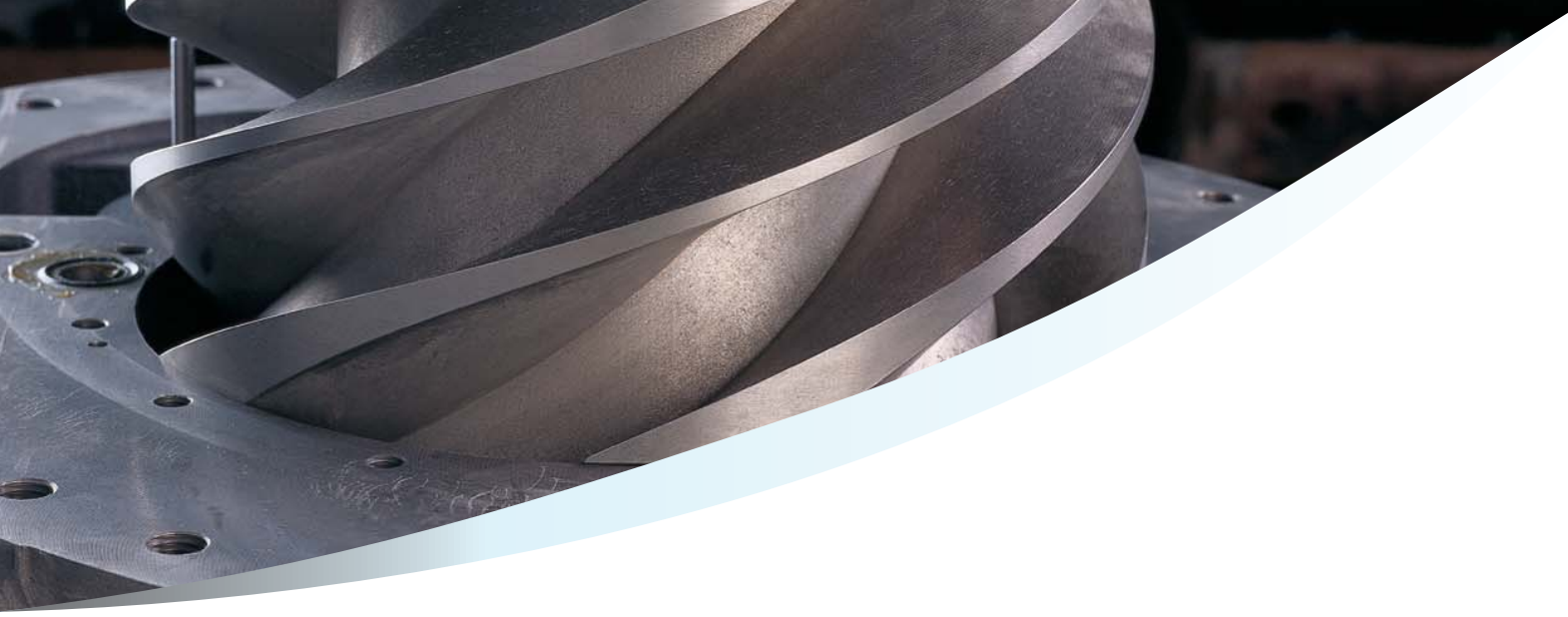


VILTER[®]
Since 1867

Vilter Single Screw Compressors For Industrial Refrigeration




EMERSON[™]
Climate Technologies



Vilter Single Screw Compressor Design & Operation

Vilter Single Screw Refrigeration Compressors

Vilter's VSM & VSS single screw compressors deliver longer life, higher reliability, and better energy efficiency than twin screw compressors and have fewer moving parts than reciprocating compressors. The key to the single screw compressor's reliability is in its balanced design. The balanced design results in ultra-low bearing loads with significantly decreased vibration and sound levels. The inherent balanced design advantages allow Vilter to offer the exclusive 5/15 Warranty, including 5 years on the compressor and 15 years on the bearings. The key to the single screw compressor's high efficiency is Vilter's exclusive Paralex™ slide system allowing the compressor to run at optimum efficiency through its full range of capacity. Providing the highest reliability and unsurpassed energy efficiency...

Vilter Single Screw Compressor Features

Paralex™ Slide System

It's the key to part load efficiencies which are far superior to twin screw compressors. Capacity and volume slides (with an expanded volume ratio of 1.2 to 7.0) move independently of each other based on load, eliminating over or under compression and saving energy costs.

Vision 20/20™

- Microprocessor Control
- Reliable Operation
- Enhanced Communications
- Easy to Use
- Flexible and Expandable

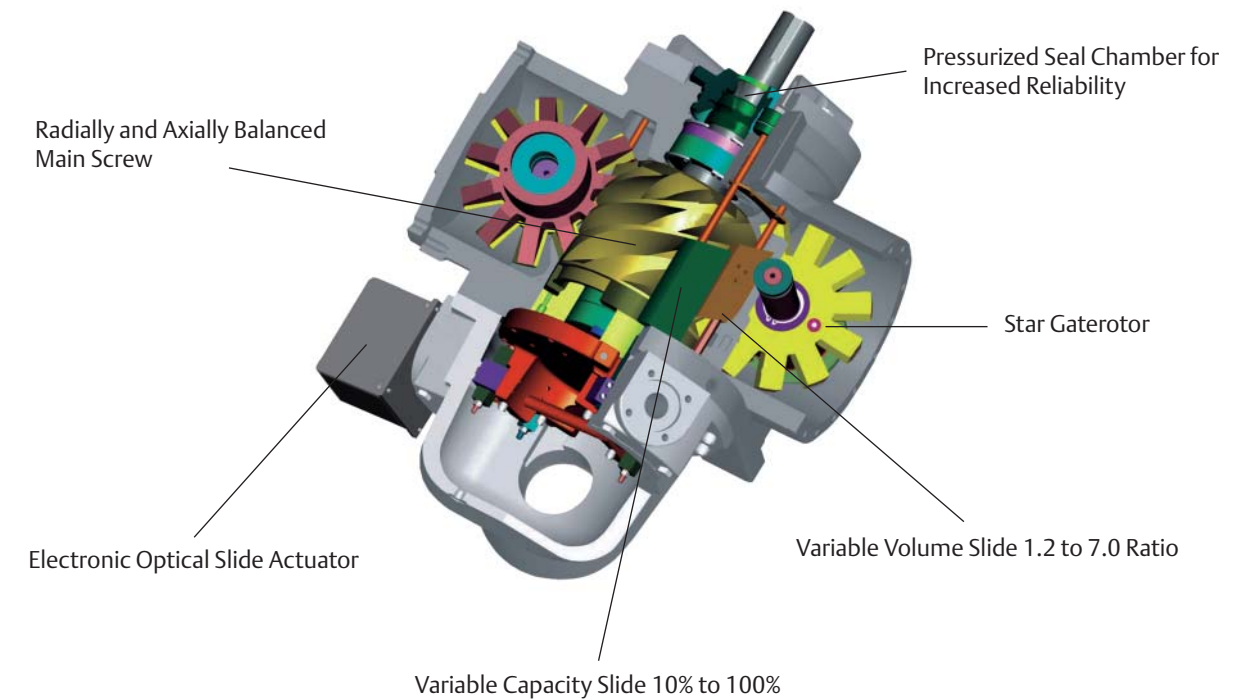
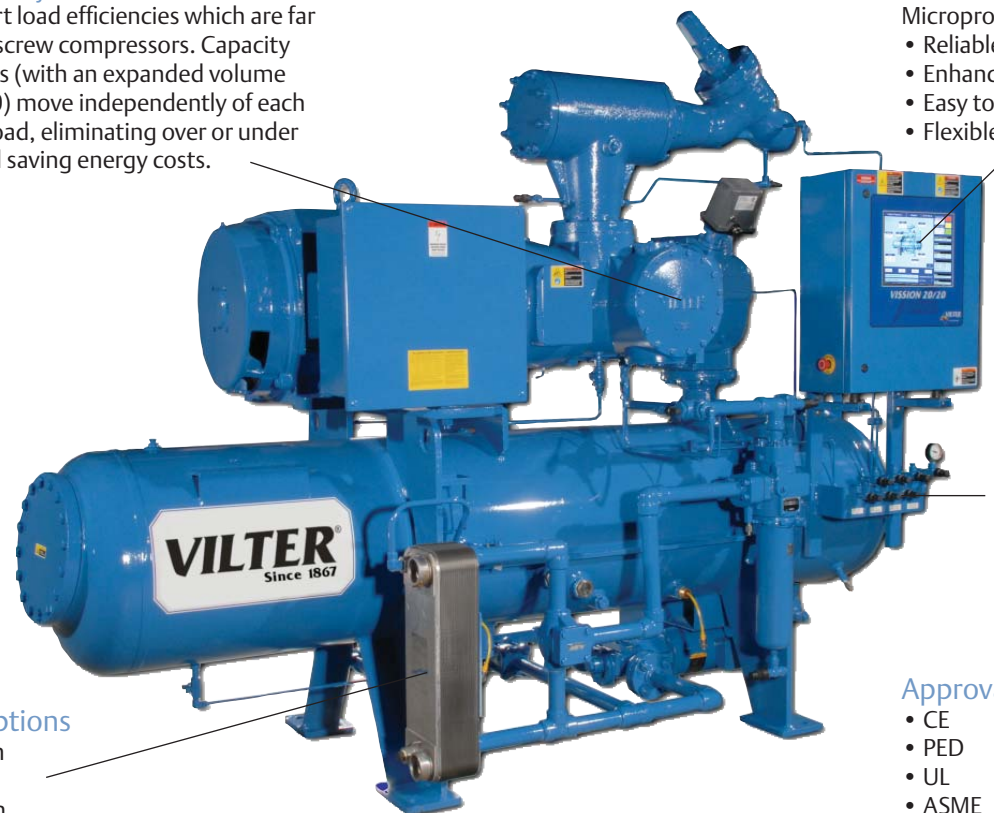
Block and Bleed Valves are Standard For ease of service and calibration of pressure transducers.

Approvals

- CE
- PED
- UL
- ASME

Oil Cooling Options

- Thermosyphon
- Water Cooled
- Liquid Injection
- V-Plus



Energy Savings

Variable Capacity & Volume Control

- Paralex™ slide valves - Only available on Vilter single screw compressors
- Capacity slide - 10% to 100% of gas flow
- Volume slide - 1.2 to 7.0 volume ratio
- Independent capacity & volume control - optimized efficiency at part load conditions



Low Maintenance

Balanced Loading

- No Radial Loads - Compression occurs simultaneously on opposite sides of the screw
- No Axial Loads - Main screw is vented such that both ends are at suction pressure
- All bearings are only exposed to suction pressure
- Results in reliable bearing performance, backed by exclusive 5/15 Warranty

Scan here to see how the Single Screw compressor works:



Get the free mobile app at <http://gettag.mobi>



Model*	Displacement m ³ /hr	-35°C Evap/-10°C Cond.**		-10°C Evap/+35°C Cond.**		-35°C Evap/+35°C Cond. Eco Flash type**	
		Compressor Capacity (kW)	Required Power (kW)	Compressor Capacity (kW)	Required Power (kW)	Compressor Capacity (kW)	Required Power (kW)
VSM-301	431	103,0	26,9	252,5	75,4	82,1***	55,2***
VSM-361	502	119,4	29,8	295,9	85,7	97,6***	63,6***
VSM-401	577	141,7	33,1	350,9	97,2	117,9***	72,7***
VSM-501	713	178,8	38,1	443,0	120,4	150,4	95,2
VSM-601	863	218,3	43,9	544,9	143,2	192,1	114,1
VSM-701	984	251,6	48,3	625,6	162,4	218,6	127,3
VSS-751	1106	291,4	60,1	726,9	198,1	257,6	149,0
VSS-901	1251	330,1	65,7	825,9	217,3	298,3	166,6
VSS-1051	1521	395,3	83,4	988,0	277,4	345,4	212,6
VSS-1201	1696	450,3	89,6	1128,8	302,2	406,7	230,4
VSS-1301	1849	Data available soon		1243,9	322,8	Data available soon	
VSS-1551	2169	571,7	124,2	1431,7	392,5	511,7	323,3
VSS-1851	2544	687,7	138,4	1726,7	449,4	630,6	366,5
VSS-2101	2871	775,2	149,3	1950,8	493,1	719,4	405,6
VSS-2401	Data available soon						
VSS-2601							
VSS-2801							
VSS-3001							

* Models operate at 2970 RPM (50 Hz)
 ** EN12900: 0°K Subcooling, 5°K Superheating,
 *** Contact Vilter for rating
 Ammonia as refrigerant

OTH001-EN-0512

For more details, see www.emersonclimate.eu

Emerson Climate Technologies GmbH - European Headquarters - Pascalstrasse 65 - 52076 Aachen, Germany
 Tel. +49 (0) 2408 929 0 - Fax: +49 (0) 2408 929 570 - Internet: www.emersonclimate.eu

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