



55-180 KW VARIABLE SPEED ROTARY SCREW COMPRESSOR

VST Series™

Ultimate Efficiency

The VST Series™ two-stage variable speed compressors from Gardner Denver not only deliver the standard 8-12% energy savings over a single-stage compressor, but will be the most efficient compressor you will ever purchase. Designed to provide tremendous energy savings at part load points, the compressor matches the supply of compressed air at the specified target pressure to your system's specific demand while minimizing the power required to compress the air.

The VST Series™ is comprised of two independent compressors and drive systems. The first stage is designed for greater volume at lower pressure while the second stage is designed for the most efficient compression ratio. Utilizing an independent compressor design allows our intelligent AirSmart™ controller to synchronize the second stage compressor speed to the exact needs of the first stage—optimizing the input power of the package.

When air is not needed, the VST Series™ compressors stop running and do not vent to atmosphere, thus eliminating any wasted compressed air. The “soft” starting capability of

the AirSmart™ controller allows the motor to start against a pressurized system at any time and will do so as often as required by the system. Focusing on the details has allowed us to deliver the most efficient compressor in the world.

Information at your Fingertips

All VST Series™ compressors come equipped with an AirSmart™ microprocessor controller. VST Series™ compressors use microprocessor control technology because it's the simplest, yet most powerful compressor control design available. The AirSmart™ from Gardner Denver is built on the foundation of being easy to operate and an industry leader in self-diagnostic, protective shutdown, service advisory and full text digital display capabilities.

Gardner
Denver

VST 55-180 ROTARY SCREW COMPRESSOR, 60 HZ

MODEL	DRIVE MOTOR		NOMINAL PRESSURE		FAD ¹		NOISE LEVEL ²	WEIGHT		DIMENSIONS L x W x H IN. (MM)
	HP	KW	PSIG	BAR	ACFM	M ³ /MIN	DB(A)	LBS	KG	
VST55	75	55	100 125 175	6.9 8.6 12.0	436 389 336	12.35 11.02 9.52	68	7150	3243	130 x 80 x 78 (3302 x 2032 x 1981)
VST75	100	75	100 125 175	6.9 8.6 12.0	564 513 446	15.98 14.53 12.63	71	7300	3311	
VST90	125	90	100 125 175	6.9 8.6 12.0	677 622 546	19.18 17.62 15.47	75	7475	3391	
VST110	150	110	100 125 175	6.9 8.6 12.0	816 751 663	23.12 21.27 18.78	75			158 x 92 x 84 (4013 x 2337 x 2134)
VST150	200	150	100 125 175	6.9 8.6 12.0	1050 986 877	29.75 27.93 24.84	78	11000	4990	
VST180	250	180	100 125 175	6.9 8.6 12.0	1382 1285 1082	39.15 36.40 30.65	81			

1) Data measured and stated in accordance with ISO1217, Ed. 4, Annex C & Annex E at the following conditions:
Air Intake Pressure 1 bar A, Air Intake Temperature 20° C, Humidity 0% (Dry)

2) Measured in free field conditions in accordance with ISO 2151, tolerance +/- 3 dB

VST Series™ Features (55-180 kW)

- Direct drive, oil flooded, two-stage rotary screw air compressor
- AEON 9000TH lubricant
- AirSmart™ microprocessor controller
- Air-cooled standard
- Allen Bradley inverter drive
- CSA labeled and approved electrical controls and wiring
- cUL labeled electronics (UL 508A)
- IP54 electrical enclosure
- Moisture separator
- Optional automatic water temperature regulator
- Optional Communication Module
- Optional EMC filter
- Optional line reactor (shipped loose)
- Optional water cooling
- Quiet enclosure
- TEFC main motor
- Smart thermostatic mixing valve
- Voltage: 460V (3 phase only)

Gardner Denver®

Gardner Denver, Inc.

1800 Gardner Expressway
Quincy, IL 62305
866-440-6241

www.gardnerdenverproducts.com



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