

Gardner Denver

VS25-250 (34-335 HP)
VARIABLE SPEED ROTARY SCREW COMPRESSORS

VS Series™





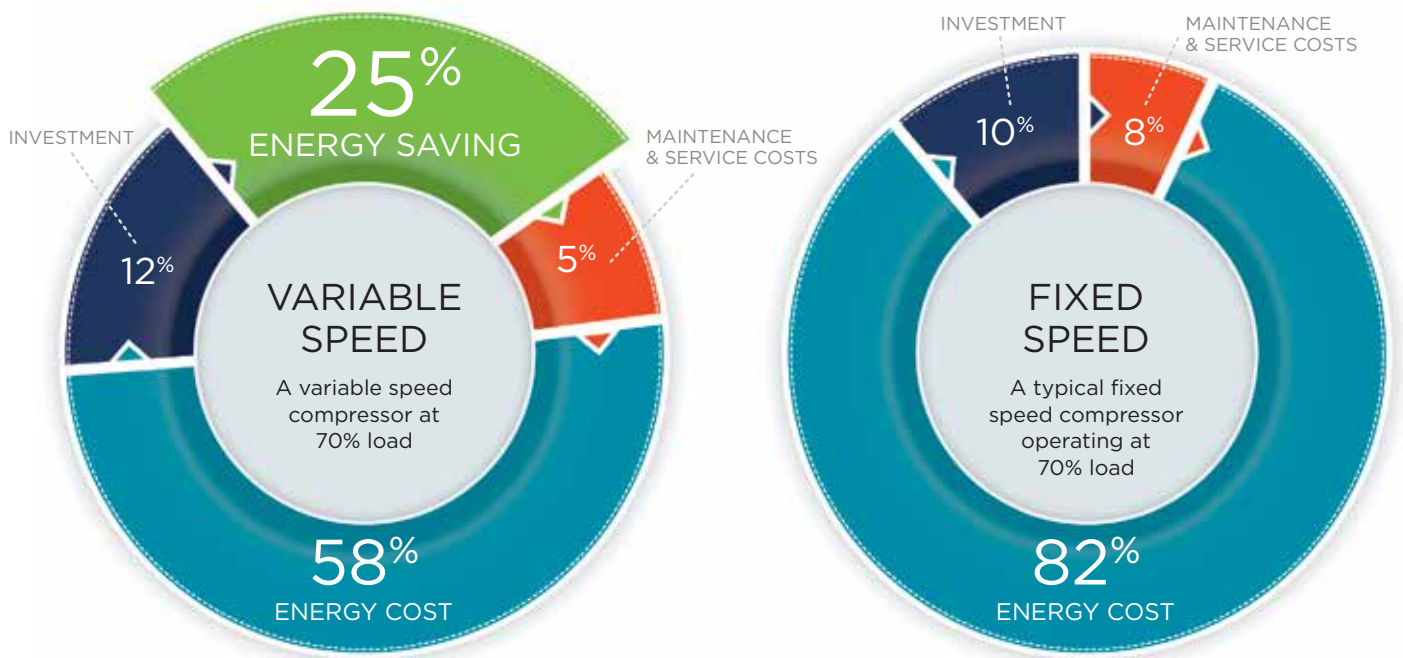
With the widest range of efficient compressors on the market, Gardner Denver has been **focused on energy savings** for decades. The flexibility of VS Series exceeds that of any other compressor. Our philosophy is to develop compressors that **maximize efficiency** and **reduce energy**.

Designed for Variable Air Demand

Variable speed compressors from Gardner Denver can efficiently and reliably handle varying air demand. The right variable speed compressor in the right application delivers significant energy savings and a stable air supply at constant pressure.

Efficient at full load, part load and no load conditions, the VS Series features expertly designed airends and rotor profiles that offer industry leading turndown and performance. We partnered with an industry leader to develop a motor/drive/airend combination that ensures optimum energy efficiency and turndown capability. With several models to choose from, you can better match your needs to a specific compressor and get the best value for your application.

Variable Speed **vs.** Fixed Speed



Using a variable speed compressor can easily **save 25% energy** by using just the right amount of energy required to do the job and no more.

Reduce Energy. Maximize Efficiency. Save Money.

Savings at Part Load

The VS Series provides tremendous power savings at part load points, which save you thousands of dollars in energy costs each year. 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. Every area on these compressors were designed so that air flows with the least possible restriction, eliminating every possible kW. In other words, the VS Series provides efficiency everywhere—full load, part load, no load.

Savings When Air is Not Needed

When air is not needed, the VS Series compressors stop running and do not vent to atmosphere; eliminating any waste of compressed air in the reservoir. 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. Our attention to this energy saving detail is just another example of the energy savings delivered by Gardner Denver.

The smarter solution—VS Series
variable speed compressors





Smarter Design

Our VS Series design utilizes superior technologies so each package is loaded with the critical product benefits you want.

- Smart Injection Technology allows the AirSmart™ controller to maintain the discharge temperature of the compressor above the dew point to prevent condensate from forming in the lubricant.
- Computational Fluid Dynamics (CFD) is employed to minimize pressure drop from the air inlet all the way to the air discharge of the compressor. This maximizes efficiency and minimizes your electrical cost of operation.
- Finite Element Analysis (FEA) allows the strength and rigidity of a component to be completely understood. If a weak area is identified, design changes are made before the product is produced.
- Solid Modeling in the design phase allows these technologies to be applied successfully. In addition, product quality and serviceability are greatly enhanced when viewed and analyzed from a solid model.
- Thermography was utilized to maximize heat transfer and ensure that cool, clean compressed air is delivered to the plant.

The **benefit** of going the extra mile is a line of variable speed compressors that are **efficient and flexible**, providing reliable and stable plant air pressure for **maximum productivity**.

Information at Your Fingertips

Simplicity

The AirSmart™ controller was designed to make the operator's interface with the variable speed drive transparent. You don't need to be an expert on variable speed drives to operate our compressor. The controller takes care of the details.

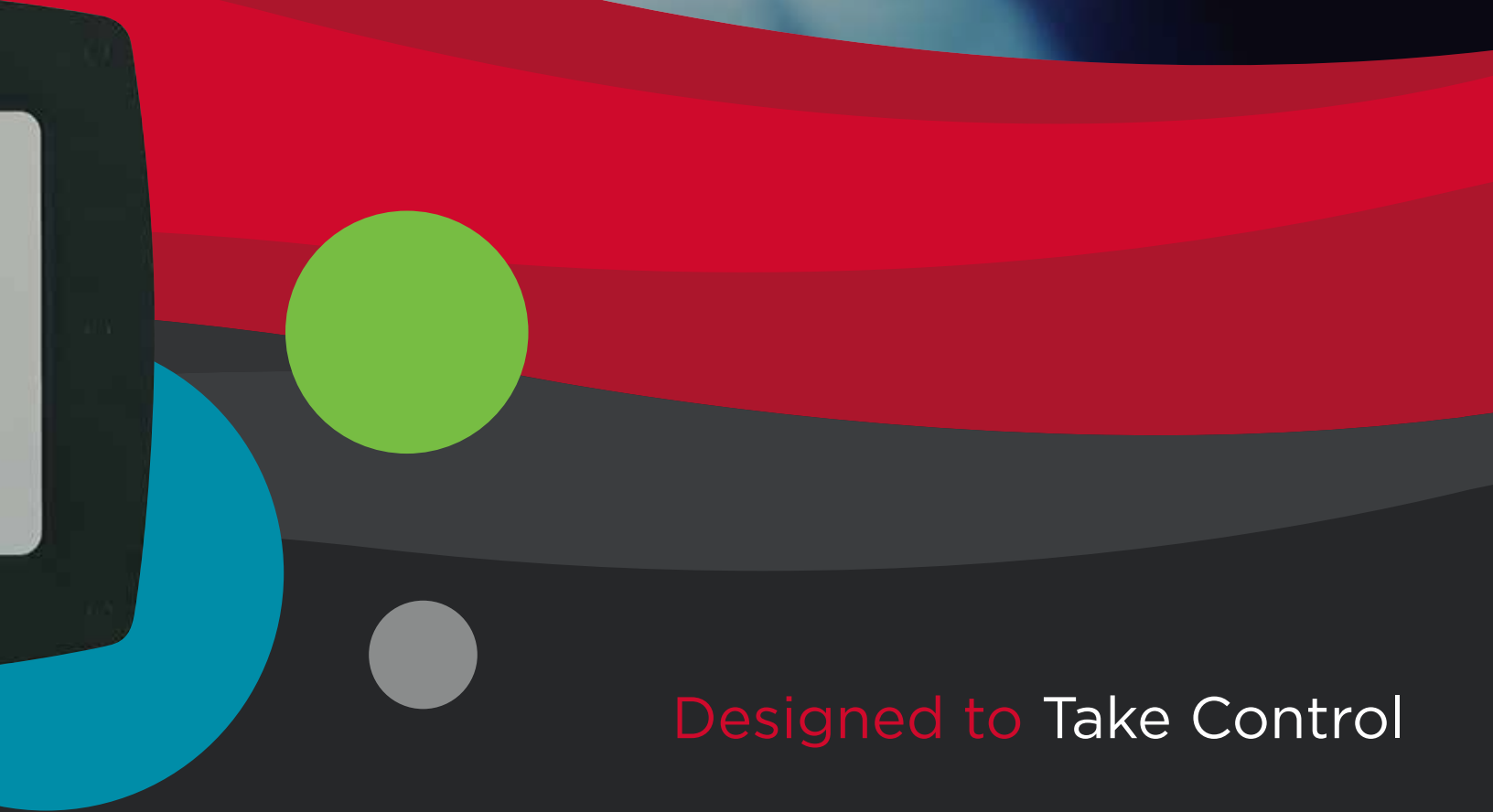
The controller automatically adjusts the compressor's performance to meet your changing air system demands—saving you energy dollars.

Changing the discharge pressure is as easy as pressing a button. No longer is there a need for a new machine when your pressure demands change.

Communication & Sequencing

The optional communication module allows VS Series compressors to talk to each other and other Gardner Denver compressors to optimize system efficiency. This isn't just an hour balancing, on/off sequencing scheme. Our controller allows the system to truly optimize efficiency because it knows the capabilities of other machines and orchestrates their operation.





Designed to Take Control

Keeping the System Healthy

Ensure your
compressed air
system remains a
total package

Total System Protection

Since 1859, Gardner Denver has been supporting the compressed air industry with high quality, long-lasting compressor and air treatment solutions. Carrying on that legacy, our robust line of parts, lubricant and downstream accessories ensure your system stays healthy.

The focus on total system protection by Gardner Denver not only includes OEM parts and fluid solutions, but a commitment to the longevity of your equipment through our industry leading warranty programs.

Protect your investment.



Best **Warranty** in the Industry

Experience Peace of Mind

The engineering philosophy of Gardner Denver ensures long-lasting, reliable equipment. Our simple, but bold warranty programs demonstrate our belief in the quality found in Gardner Denver compressors.

Our standard warranty ensures that you have peace of mind when it comes to your system's operation. For added protection, take advantage of our 10-year extended airend warranty program. Simply stated, it's the best in the industry.



Sales & Service **Distributors** Across America

An Extensive Network

By leveraging the extensive network of Gardner Denver factory-trained authorized local distributors, your sales, service and technical support needs can be handled quickly and easily.



To find a distributor visit:

gardnerdenverproducts.com

Specifications

VS25-250 ROTARY SCREW COMPRESSOR, 60 HZ

MODEL	DRIVE MOTOR		NOMINAL PRESSURE		FAD ¹		NOISE LEVEL ² DB(A)	WEIGHT		DIMENSIONS L x W x H IN. (MM)	
	HP	KW	PSIG	BAR	ACFM	M ³ /MIN		LBS	KG		
VS25	34	25	100	6.9	155	4.39	66	2011	912	65 x 35 x 69 (1651 x 889 x 1753)	
			125	8.6	141	3.99					
			175	12.0	110	3.12					
VS30	40	30	100	6.9	213	6.03	68	2082	944		
			125	8.6	203	5.75					
			175	12.0	162	4.59					
VS40	54	40	100	6.9	242	6.86	69	2192	994		
			125	8.6	232	6.57					
			175	12.0	177	5.01					
VS45	60	45	100	6.9	308	8.73	68				
			125	8.6	269	7.62					
			175	12.0	206	5.84					
VS50	67	50	100	6.9	348	9.86	69	3180	1442	85 x 44 x 75 (2159 x 1118 x 1905)	
			125	8.6	322	9.12					
			175	12.0	245	6.94					
VS70	94	70	100	6.9	436	12.35	71				
			125	8.6	395	11.19					
			175	12.0	318	9.01					
VS80	100	80	100	6.9	556	15.75	72	6100	2767		114 x 58 x 87 (2896 x 1473 x 2210)
			125	8.6	481	13.63					
			175	12.0	364	10.31					
VS110	150	110	100	6.9	719	20.37	76	6200	2812		
			125	8.6	663	18.78					
			175	12.0	560	15.86					
VS135	180	135	100	6.9	862	24.42	76	8512	3861	126 x 58 x 87 (3200 x 1473 x 2210)	
			125	8.6	802	22.72					
			175	12.0	625	17.71					
VS170	225	170	100	6.9	1056	29.92	77	8612	3906		
			125	8.6	951	26.94					
			175	12.0	693	19.63					
VS200	268	200	100	6.9	1307	37.03	79				152 x 84 x 87 (3861 x 2134 x 2210)
			125	8.6	1177	33.34					
			175	12.0	986	27.93					
VS250	335	250	100	6.9	1553	43.99	79	12530	5683		
			125	8.6	1433	40.59					
			175	12.0	1138	32.24					

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

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by continuously improving all business processes
with a focus on innovation and velocity

**Gardner
Denver**[®]


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