

Your Benefits from our VS Technology

- Up to 40 % energy savings
- Up to 30 % savings in life cycle costs
- Exact adjustment to air and pressure requirement
- No need for over-pressure
- Rapid reaction to demand changes
- Wide capacity regulation range
- Constant working pressure
- Smooth start with the inverter technology

Cost of compressed air over 5 years



VS 11 Variable Speed Screw Compressor

Technical Data

Gardner Denver Model	Maximum target pressure*		Capacity at working pressure**		Motor power		Net weight kg	Noise level *** dB(a)	Size (Length x Width x Height) mm	Size with receiver (Length x Width x Height) mm
	bar	psig	m ³ /min	cfm	kW	hp				
VS 11	7.5	115	0.15 - 1.63	5 - 58	11	15	315	65	1180 x 660 x 860	1591 x 660 x 1355
	10	145	0.24 - 1.44	8 - 51						
	13	190	0.33 - 1.11	12 - 39						

* For RD models max. pressure is 0.25 bar less. Pressure dew point of integrated dryer at reference conditions: +3°C. Reference conditions: intake air temperature for dryer: +35°C, ambient temperature: +25°C. For 13 bar model, maximum target pressure is 12.8 bar with unload limit 13 bar.

** Capacity and Power measurements according to ISO 1217, ed. 3, Annex C -1996 test code and the following working pressures are used: 7.5 bar models at 7 bar, 10 bar models at 9 bar and 13 bar models at 12 bar.

*** Noise values determined according to ISO 2151 and ISO 3744; Tolerance ±2 dB (KpA).

Standard Equipment

- Air inlet filter
- Belt drive, automatic belt-tensioning
- Fully automatic capacity control: variable speed air production based on system air demand
- Gardner Denver AirSmart™ Controller
- Easy to use operator interface
- Multiple languages
- EMC Filter
- High efficiency AC inverter drive
- High efficiency electric motors: IP 55, F-class insulation, thermistor protection
- Emergency stop
- Safety devices for
 - Motor over temperature
 - Compressor over temperature
 - Compressor over pressure
 - Current limiter
- Alarms for
 - Air inlet filter ΔP
 - Oil separator element ΔP
 - Compressor over temperature (alarm at 105°C and tripping at 110 - 115°C)
 - Service interval

- Safety valve
 - Oil thermostat
 - Running condition indicators:
 - Pressures
 - Temperatures
 - Hour meter; total running hours, full load hours
 - Automatic re-start after power failure
 - Epoxy powder coated enclosure
 - After cooler and moisture separator with automatic drain
 - Integrated TEMPEST® unit with ENDURO® air end
- ### Optional Equipment
- Integrated dryer; the refrigerant used in the integrated dryers fulfils the EC norm No 2037/2000 requirements
 - Additional I/O ports
 - Communications / sequencing module
 - Multiple lubricant options
 - Zero loss drain
 - Receiver 270 liter (up to 11 bar)

Auxiliary Equipment

- Compressed air after treatment products

For additional information please contact your local representative or

Gardner Denver



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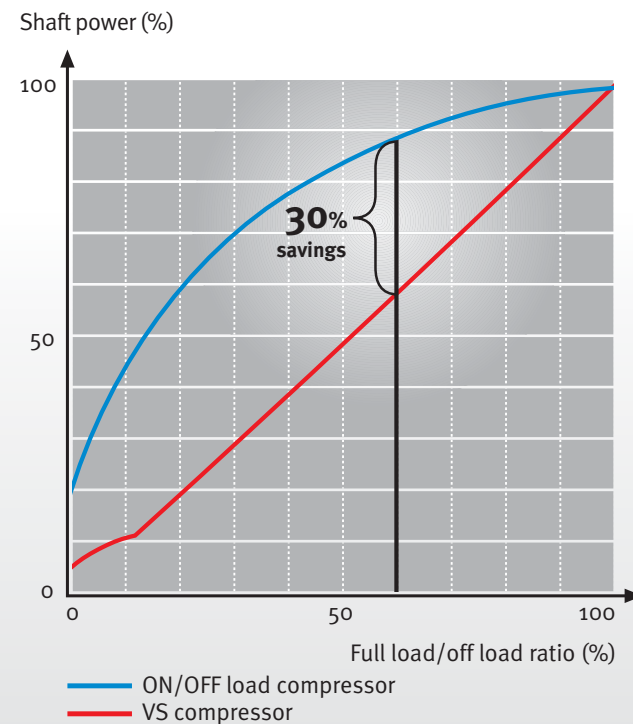
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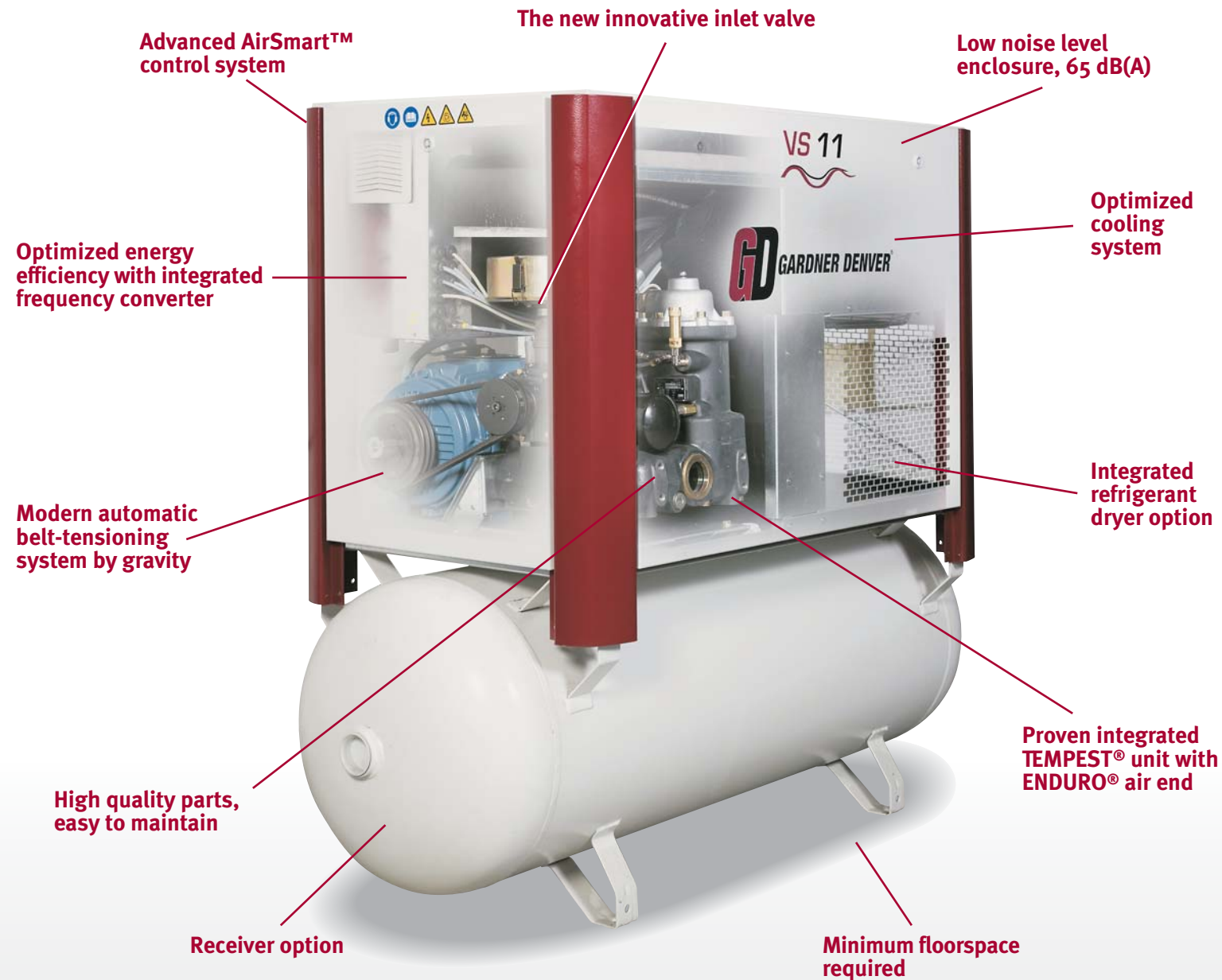
Ultimate Performance & Advanced Design

The VS 11 compressor represents the latest technology from Gardner Denver. The VS 11 variable speed drive compressor is a class leader in its size category. Due to the high technology used, you'll get even more from our newcomer. The belt driven VS 11 compressor is more efficient, more energy saving and more flexible than ever for small applications. The VS 11 is based on the same technology as in the VS 25 to 70 compressors. You'll get the latest variable speed technology using well-proven techniques to meet your individual requirements.



Your Benefits of the VS Compressor

- Most efficient and reliable ENDURO® air end with maximum capacity
- Quickest and widest response to air demand changes
- Easy setting of delivery pressure by AirSmart™ controller
- Advanced AirSmart™ controller ensures all requirements met with easy navigation
- Low noise and compact compressor for installation where it is needed
- Easy to maintain and service



Integrated TEMPEST® unit

The new belt driven VS 11 has excellent performance. The integrated ENDURO® 3 air end and TEMPEST® 3 unit guarantee the most efficient air delivery with the lowest possible energy consumption. Due to the patented inlet valve, internal pressure drop is minimal.

Gardner Denver's integrated TEMPEST® design eliminates leak points through smart, efficient, latest technology construction. Our ENDURO® air ends have been developed to be more efficient and reliable than ever.

The Widest Regulation Range

Superb flexibility comes as standard with the VS 11. With a 10-100 % capacity range, the VS 11 features the market's quickest and widest response to air demand changes. Ambient

temperatures from +0° to +45°C and electrical supply from 380V to 480V 50 Hz ($\pm 5\%$) can be accepted.

Maximum Flexibility

Thanks to the new highly functional AirSmart™ control system, the new VS 11 allows you to choose any delivery pressure from 3 to 10 bars or from 10 to 13 bars depending on model.

Options include the integrated refrigerant dryer, receiver (up to 11 bar), condensate handling equipment and a wide selection of compressed air filters. These options are available to enable you to build a complete compressor station for your needs.

Low Noise Level

The sound-engineered enclosure of VS 11 absorbs noise effectively. The package is so quiet, 65 – 66 dB (A), that it can

be installed exactly where it is needed without any special consideration for noise.

VS 11 is simply a smart design with high quality parts. Quiet fan, segregated cooling air flow, plus motor and air end are isolated to prevent noise transmission.

Easy Maintenance

The VS 11 has an advanced automatic belt-tensioning system, which gives optimal belt-tension in all conditions. Due to its compact enclosure, the VS 11 requires limited floor space and the installation of the package is quick and efficient.

Using components of high quality guarantees a long service life.

Gardner Denver has a network of trained service providers available whenever needed to keep your compressors in top form. We are committed to stocking components to support your compressed air system needs.

AirSmart™ Control

VS 11 is easy to use, thanks to the new and advanced AirSmart™ controller. The AirSmart™ system was designed to make the operators' interface with the variable speed drive transparent. You don't need to be an expert on variable speed drives to operate the Gardner Denver compressor. The controller takes care of the details. It automatically adjusts the compressor performance to meet your changing air system demands – and saves your energy costs.

AirSmart™ control system also includes

- Smart energy cost calculation
- Pressure from 3 to 10 or from 10 to 13 bar by setting depending on model.
- Integrated sequencing option
- Clear text indicator display
- Multiple languages
- Prevention of reverse rotation

