

# The new VS 40 (model 2003)



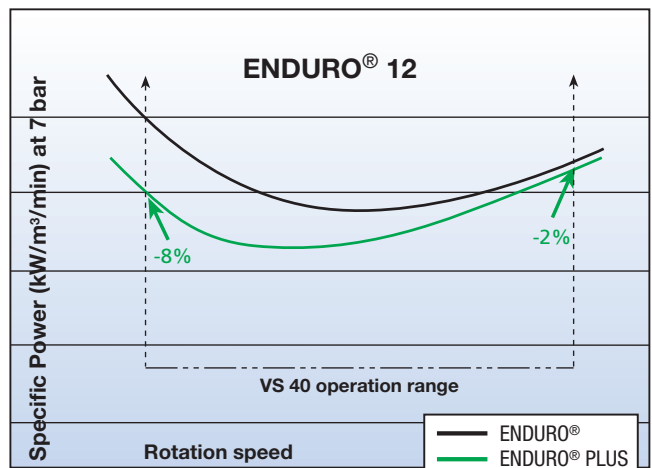
## THE VS 40 – SMALL SIZE, BIG ENERGY SAVINGS

Since its introduction in 1998, Gardner Denver Variable Speed technology has saved energy for numerous satisfied customers worldwide.

The VS 40 compressor covers a capacity range of 1.2 m<sup>3</sup>/min to 6.8 m<sup>3</sup>/min at 7 bar. It features the proven ES technology and is equipped with a frequency converter to control the capacity exactly according to compressed air requirements. The VS 40 compressor uses standard electric motors, unlike some competitive units, which use high-speed or special motors. An optional integrated dryer is also available.

The heart of the VS 40 compressor is the TEMPEST® integrated compressor unit now with the new ENDURO® PLUS air end.

The all new ENDURO® PLUS air end rotor profile is a direct result of Gardner Denver's 40 years of experience in screw compressor design. The new and company own rotor profile ENDURO® PLUS performance improvement is impressive! You as the customer will see the direct benefit of the greatly improved part load efficiency in lower energy consumption and money savings.



ENDURO® PLUS VS. ENDURO®, energy savings over whole operating range.

# CUT ENERGY COSTS



## Modern technology

An advanced belt-tensioning system gives optimal belt-tension in all conditions which means very long belt life. The compressor is easy to use and maintain thanks to the multi-lingual, full feature VS-Pilot control system.

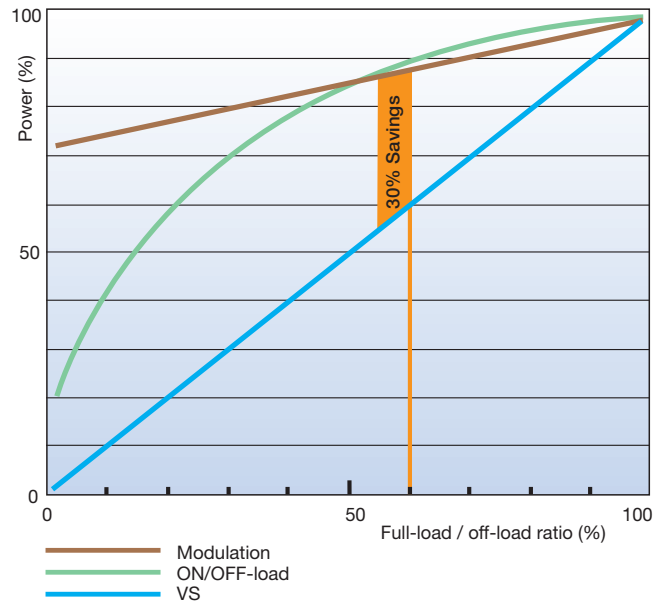
Gardner Denver's VS compressors are based on reliable and proven frequency converter technology to control the capacity precisely to the air demand. This means that the rotation speed of the air end is matched exactly to the requirements. The result is constant pressure in the network at all times. This minimizes the power consumption and reduces the wear and tear on the compressor.

With a 30 - 100% air-end speed range the VS 40 compressor features the markets widest turn-down range and quickest adaptation to air demand changes. This compact compressor requires a limited floor space and the installation possibilities are practically limitless.

## The VS benefits in a nutshell:

- Up to 35 - 40% energy savings
- Up to 20 - 30% savings in Life Cycle Costs during the first 5-year period
- Rapid reaction to pressure changes
- Constant working pressure
- No need for over-compressing
- eXact RPM® to real air demand
- Wide regulation range with good efficiency
- High motor power factor
- Smooth start with the inverter technology
- Less off-loading cycles and fewer starts
- Sized to operate at full capacity for unlimited time
- Easy plug and play installation
- Automatic adaption to hours ambients
- Intelligent protection features for motor and inverter

## Gardner Denver Variable Speed



Dimensions (L x W x H):  
1005 (1490) x 690 (1021) x 1700 (2075)  
Dimensions in brackets with RD dryer.

Maximum pressure*		Capacity at nominal pressure**		Power		Net weight	Noise level***
bar	psig	m <sup>3</sup> /min	cfm	kW	hp	kg	dB(A) max
7,5	110	1.23 - 6.80	43 - 240	40	55	685	68
10	145	1.24 - 6.26	44 - 221				
13	190	1.48 - 4.94	52 - 175				

\* 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

\*\* Capacity measured in accordance with Cagi Pneurop PN2CPTC2 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 level measured in accordance with Cagi Pneurop PN8NTC2.2 ±3 dB(A) with Super Novox enclosure. Noise level measured at 100% capacity

# Gardner Denver



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