

**25 - 40 kW**

## **VS Series Screw Compressors**



### **VS 25/30/40 – 50 Hz**

#### **The new dimension of flexibility**

The Gardner Denver VS series compressors bring a new dimension of flexibility to compressed air production. Designed to operate in a wide range of applications in various environments, these smart compressors will meet even your most complex compressed air needs. Due to their easy adjustable pressure, from 3 to 13 bar bar, the VS compressors keep serving you even when pressure requirements change.

#### **Efficiency that saves energy costs**

The VS series compressors will match the air supply to your plant's actual demand, which translates into energy cost savings. In the direct driven VS compressors, the frequency converter and main motor are specially designed to work together, which reduces energy losses and increases efficiency. The same unit is applicable to electric supplies of 380 V to 480 V ( $\pm 5\%$ ), 50 Hz, thus fulfilling your varying air demands with the lowest possible power demand ( $\text{kW}/\text{m}^3$ ). With its extremely low noise level of only 64-70 dB, the VS compressor allows for silent efficiency.

#### **Serviceability in its own class**

Like every Gardner Denver compressor, the VS units have also been designed with easy serviceability in mind. All service points are easily accessible and the number of moving parts has been minimized to lower your maintenance costs. In addition, enhanced temperature control, together with an ambient operating temperature range of  $0^{\circ}\text{C}$  to  $+45^{\circ}\text{C}$ , will ensure that your VS compressor works constantly at the optimum temperature. This will result in a longer operational life for the unit and its components.

#### **Proven to be smarter**

Gardner Denver is known world-wide as a pioneer in utilizing frequency converter technology for compressed air production. The Gardner Denver VS Series compressors have been tested for their outstanding energy saving capabilities around the industry for over a decade. The ENDURO<sup>®</sup>Plus air end represents globally proven technology that is known for reliability and efficiency. The new generation AirSmart controller also provides your compressed air production with several value-adding properties, such as advanced energy cost calculations.



**COMPLEX NEEDS – SMARTER SOLUTIONS™**

## Technical Data

### VS 25/30/40



Gardner Denver Model	Maximum target pressure*		Capacity at working pressure**		Motor power		Net weight kg	Noise level*** dB(a)
	bar	psig	m <sup>3</sup> /min	cfm	kW	hp		
VS 25	7.5	115	4.02	142.0	25	33.5	830	64
	10	145	3.39	119.7				
	13	190	2.78	98.2				
VS 30	7.5	115	6.04	213.3	38	51	862	70
	10	145	5.25	185.4				
	13	190	4.58	161.7				
VS 40	7.5	115	6.87	242.6	43	57.5	915	70
	10	145	6.34	223.9				
	13	190	5.28	186.5				

\* 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 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; Uncertainty ±2 dB (KpA)

#### Standard Equipment

- Air inlet filter
- 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
- 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
- Smart thermal mixing oil control valve

- Integrated TEMPEST® unit with ENDURO® Plus air end

#### Optional Equipment

- Integrated dryer; the refrigerant used in the integrated dryers fulfills the EC norm No 2037/2000 requirements
- Additional I/O ports
- Water cooling
- Heat recovery systems
- Communications/sequencing module
- Multiple lubricant options
- Zero loss drain

#### Auxiliary Equipment

- Compressed air after treatment products

# Gardner Denver®



For additional information please contact your local representative or Gardner Denver Oy, P.O.Box 516, 33101 Tampere, Finland  
Telephone +358 (0) 205 44 141 • Telefax +358 (0) 205 44 140  
info@gardnerdenver.fi • www.gardnerdenver.fi