

Gardner Denver

Premium compressor design & industry leading warranty

15 to 22 kW
Fixed Speed & Variable Speed

PROTECT **10**
years

Extended Warranty for GD Compressors



Reliability & efficiency
without compromise

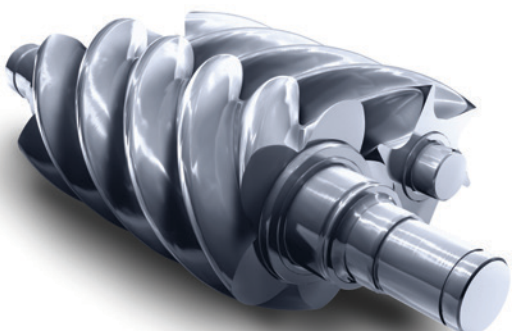


Excellence in every detail

The ESM and VS Series from Gardner Denver

Well known in the industry for quality and reliability, Gardner Denver continuously develops the ESM and VS to achieve cutting edge performance and efficiency. The ESM/VS 15 - 22 range of lubricated screw compressors comprise of fixed speed and variable speed (VS) models and is available as a complete package including air receiver and refrigerant dryer.

- ▶ **Pressure range**
7.5 to 13 bar
- ▶ **Volume flow**
0.83 to 3.65 m³/min
- ▶ **Motor power**
15 to 22 kW



GERMAN 
ENGINEERING
DESIGN & MANUFACTURE

Engineering excellence

Compressors are more than just a financial investment, they are a key component in ensuring that manufacturers, processors and operators receive consistent, high quality low cost air.

The screw compression element is the heart of the compressor and therefore Gardner Denver keeps the design and manufacture in-house, using the latest CNC rotor grinding machinery, coupled with online laser technology.

The resulting reliability and performance ensure that operating costs will remain low throughout the compressor's life.

Under the free Protect 10 warranty the airends are covered up to 44,000 hours or 10 years*.

* Whichever is soonest

“Gardner Denver lubricated rotary screw compressors incorporate the very latest technological advances and guarantee a continuous supply of high quality compressed air.”

A design concept based on reliability and flexibility

▶ Fully integrated airend

The advanced design of the high efficiency airend allows operation at low rotational speeds, and consequently lowers the energy costs. The innovative integrated design, including oil separation, oil filter and thermostatic valve, reduces the number of external hoses and components offering excellent reliability.

▶ Combined air/oil cooler

Equipped with a bypass for rapid warm-up and control of the oil temperature, reducing wear, eliminating condensate in the compressor system and providing low air discharge temperature.

▶ High efficiency electric motor

The compressors are equipped with an energy saving IE3 electric motor.

▶ Automatic belt tensioning system

The maintenance-free system provides automatic and accurate belt tension and extends the belt life.

▶ Factory-filled lubricant

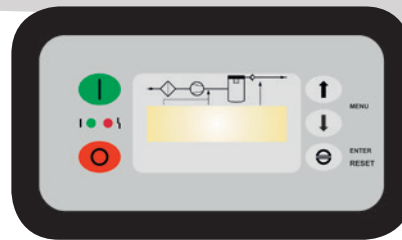
Reduces service costs by extending the oil change period to up to 4,000 hours.

▶ Low noise levels

Allows the compressor to be placed at the point of use.

▶ Up to 45°C ambient temperature

Reliable operation, even in challenging environments.



GD PILOT Compressor controller

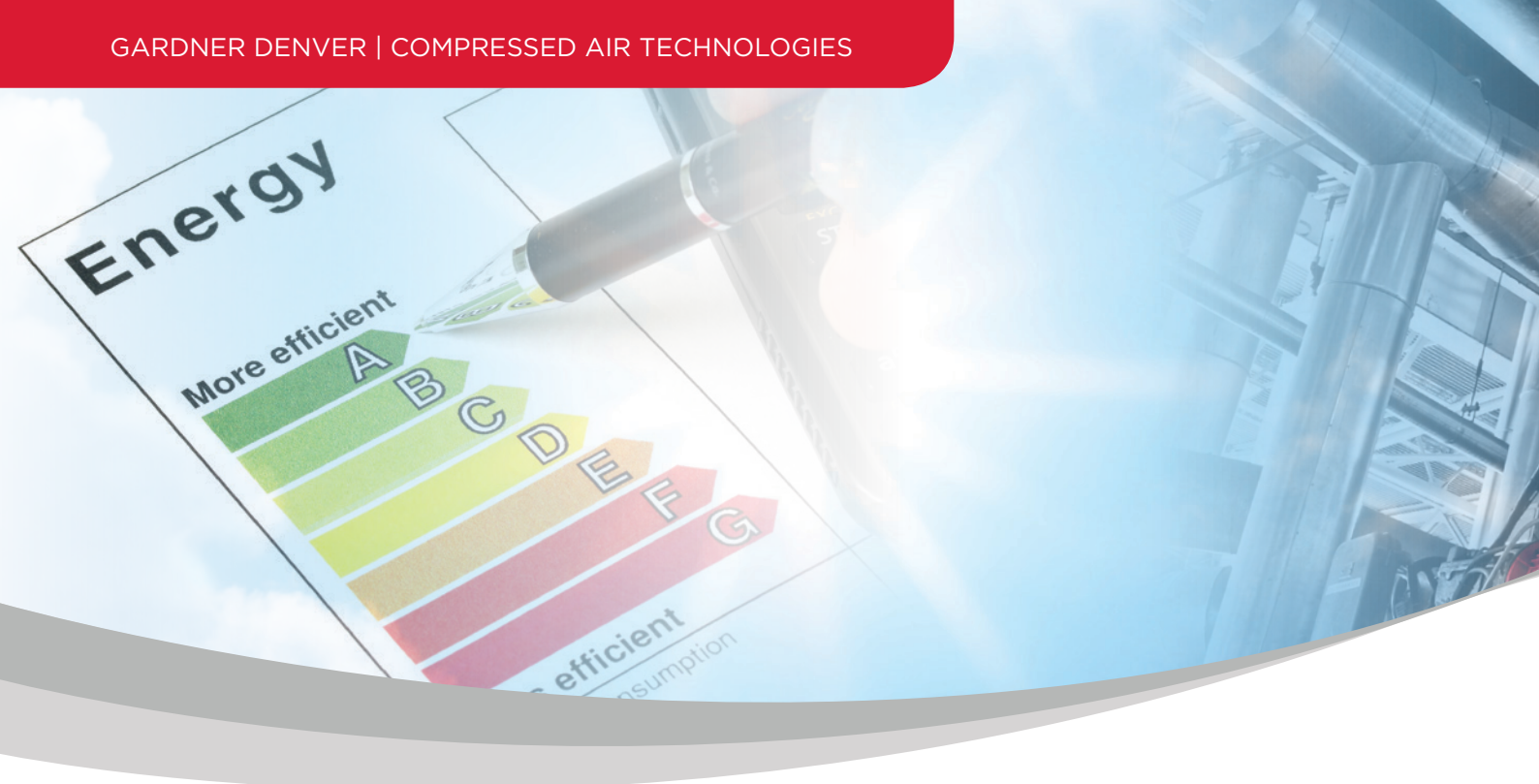
The control system ensures reliable operation and protects the investment by continuously monitoring operational parameters. The GD PILOT also has the capability to have programmable inputs and outputs, control additional equipment as well as providing the following features in clear readable text:

- Discharge/line pressure display
- Air/oil temperature display
- Total hours run and under load
- Service due indicator
- Enhanced fault Log monitor
- Real time clock
- Timer controlled stop/start
- Remote start/stop
- Auto restart after power failure
- Second pressure setting
- Status indication
- RS485 - Modbus RTU

Ergonomic controller positioning

Controller can be positioned on top or front of the compressor.



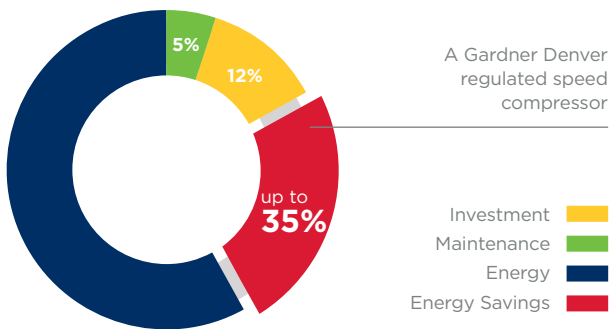
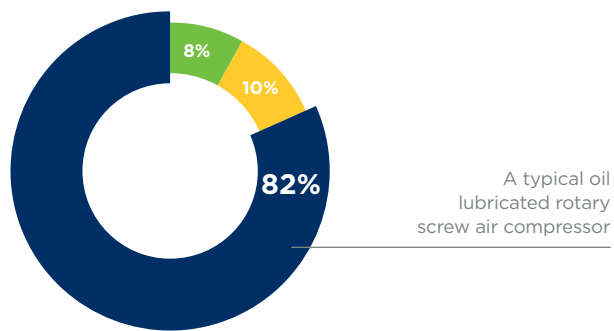


Variable speed Compressors

The perfect response to individual air demand

Variable speed compressors from Gardner Denver can efficiently and reliably handle the varying air demand found in most plant air systems.

The annual cost of ownership can be significantly reduced using variable speed technology.



Tried and tested inverter concept

- Integrated in the electric cabinet
- Protected from dust by replaceable inlet filters
- Maximum reliability from optimised cooling system
- Ensures high availability and long-life

Gardner Denver VS features are your benefits

The VS Series products are designed to obtain the greatest efficiency across the entire operating range

- **Wide regulation range**
No cycles means substantial energy savings
- **Perfect motor - drive - airend design**
High efficiency across broad flow range



The complete packaged solution

Gardner Denver offers complete Airstations from 15 to 22 kW including compressor, refrigerant dryer and air receiver.



Easy to install, easy to use

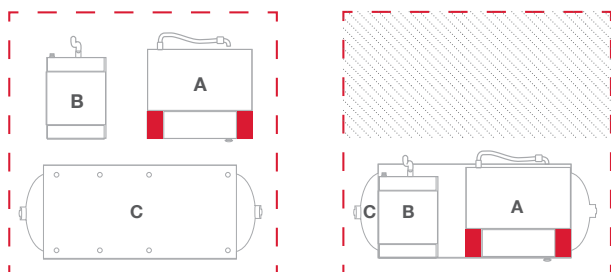
All components are perfectly matched and ready for "Plug and Play".

High quality air receiver

Built to the highest standards and are inspection-free for up to five years.

Minimum Footprint

By mounting the components on the receiver, the required floor space is reduced by 55%.



Minimum floor space required

Integrated heat recovery

All compressors are available with highly efficient heat recovery systems, which can be factory fitted or are available as retrofit kits comprising all the necessary pipe-work and fittings.

Compressed air purification

A modern production system and process demands increasing levels of air quality. A Gardner Denver compressed air system utilising the latest technology provides an energy efficient solution at lowest life cycle costs.

Water Cyclone Separator

Designed for efficient removal of bulk liquid contamination from compressed air.



Compressed Air Filter

Efficient design for water, dust and particle removal.

Condensate Drain Bekomat System

To drain compressed air condensate without loss of compressed air.

Compressed Air Refrigerant Dryer

Gardner Denver offer a full range of energy efficient and environmentally friendly stand alone refrigerant dryers.



Heatless Desiccant Dryers

Heat Regenerative Desiccant Dryer

Nitrogen Generator

Designed to achieve maximum efficiency and gas quality.



GD Connect 12 Multi Compressor Controller

Sequencers for up to 12 units.





The best investment protection you can get

PROTECT 10 years

Extended Warranty for GD Compressors

10 Years Warranty!

The Gardner Denver Protect 10 Warranty and Service programmes will protect you up to 44,000 hours/10 years¹. It is one of the most generous warranties available in the industry affording you total piece of mind.

Your benefits:

- The Protect 10 warranty is totally free to the compressor owner²
- The Gardner Denver authorised service provider will deliver a guaranteed quality of service
- The Protect 10 service agreement underpinning the warranty will enable accurate maintenance, budgeting and cost of ownership
- The use of genuine Gardner Denver parts and lubricants will maximise compressor life and efficiency

¹ Warranty duration is limited to 6 years/44,000 hours on the whole package, 10 years/44,000 hours on the air end. Whichever is the soonest.

² subject to Terms & Conditions

Compact design - easy installation

The small footprint reduces the space required for installation.

Easy servicing

The design of these packages ensures that the service points are readily accessible. The enclosure side doors are hinged and removable to allow complete access to all service points. The reduced number of moving parts further lowers the maintenance costs.

Gardner Denver genuine spare parts

Enjoy complete peace of mind.

Genuine Gardner Denver parts and lubricants ensure that compressed air plant reliability and efficiency is maintained at the highest standards. Gardner Denver spare parts and lubricants are distinguished by:

- Long service life, even under harshest conditions
- Minimum losses contributing to energy savings
- High reliability improves plant up-time
- Products manufactured with the strictest Quality Assurance Systems





Technical data

ESM 15 - 22 Fixed Speed

| Gardner Denver model | Nominal Pressure | Drive Motor | FAD ¹⁾ | | Noise Level ²⁾ | Weight | Dimensions L x W x H |
|----------------------|------------------|-------------|---------------------|----|---------------------------|--------|----------------------|
| | bar g | | m ³ /min | mm | | | |
| ESM15 | 7.5 | 15 | 2.70 | | 70 | 335 | 787 x 698 x 1202 |
| | 10 | | 2.26 | | | | |
| | 13 | | 1.80 | | | | |
| ESM18 | 7.5 | 18.5 | 3.25 | | 71 | 361 | 787 x 698 x 1202 |
| | 10 | | 2.74 | | | | |
| | 13 | | 2.34 | | | | |
| ESM22 | 7.5 | 22 | 3.65 | | 71 | 367 | 787 x 698 x 1202 |
| | 10 | | 3.21 | | | | |
| | 13 | | 2.61 | | | | |

VS 15 - 22 Variable Speed

| Gardner Denver model | Nominal Pressure | Drive Motor | FAD ¹⁾ | | Noise Level ²⁾ at 70% Load | Weight | Dimensions L x W x H |
|----------------------|------------------|-------------|-------------------|------|---------------------------------------|--------|----------------------|
| | bar g | | min. | max. | | | |
| VS15 | 7.5 | 15 | 0.92 | 2.60 | 67 | 365 | 787 x 698 x 1202 |
| | 10 | | 0.86 | 2.18 | | | |
| | 13 | | 0.83 | 1.67 | | | |
| VS18 | 7.5 | 18.5 | 1.33 | 3.05 | 68 | 381 | 787 x 698 x 1202 |
| | 10 | | 1.28 | 2.62 | | | |
| | 13 | | 1.22 | 2.20 | | | |
| VS22 | 7.5 | 22 | 1.04 | 3.54 | 69 | 386 | 787 x 698 x 1202 |
| | 10 | | 0.93 | 3.15 | | | |
| | 13 | | 0.90 | 2.66 | | | |

ESM / VS 15 - 22 Airstation

| Gardner Denver model | Nominal Pressure | Refrigeration Dryer ³⁾ | FAD ¹⁾ | | Air Outlet | Weight | Dimensions L x W x H |
|----------------------|------------------|-----------------------------------|-------------------|-----------|------------|-----------|----------------------|
| | bar g | | type | Min - Max | | | |
| ESM15/ VS15 | 7.5 | F30HS-BO | 500 litres | | RP 1" | 545 / 575 | 1883 x 815 x 1825 |
| | 10 | | | | | | |
| ESM18 / VS18 | 7.5 | F39HS-BO | 500 litres | | RP 1" | 617 / 637 | 1883 x 815 x 1825 |
| | 10 | | | | | | |
| ESM22 / VS22 | 7.5 | F39HS-BO | 500 litres | | RP 1" | 622 / 641 | 1883 x 815 x 1825 |
| | 10 | | | | | | |

¹⁾ Data measured and stated in accordance with ISO 1217 Ed. 4, Annex C & Annex E and 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 and ISO 9614-2, tolerance ± 3 dB(A).

³⁾ The refrigerant dryer requires a separate electric supply. Data refer to DIN ISO 7183, 8573-1:2001 (class 4, pressure dew point 3° C). For further specifications please refer to refrigerant dryer documentation.

Global Expertise

The GD rotary screw compressor range from 2.2 – 500 kW, available in both variable and fixed speed compression technologies, are designed to meet the highest requirements which the modern work environment and machine operators place on them.



The oil-free EnviroAire range from 15 – 315 kW provides high quality and energy efficient compressed air for use in a wide range of applications. The totally oil-free design eliminates the issue of contaminated air, reducing the risk and associated cost of product spoilage and rework.



A modern production system and process demands increasing levels of air quality. Our complete **Air Treatment Range** ensures the highest product quality and efficient operation.



Compressor systems are typically comprised of multiple compressors delivering air to a common header. The combined capacity of these machines is generally greater than the maximum site demand. To ensure the system is operated to the highest levels of efficiency, the **GD Connect** air management system is essential.



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www.gardnerdenver.com/gdproducts

For additional information please contact Gardner Denver or your local representative.

Specifications subject to change without notice.