Gardner Denver

Premium compressor design & industry leading warranty

30 to 37 kW Fixed & Regulated Speed

iConn

PROTECT 10 years

Extended Warranty for GD Compressors

SUSTAINABLE MANUFACTURING



Reliability & efficiency without compromise



"Efficiency comes as standard with these compressors.
Maximum levels of efficiency can be attained with the new "e" and variable speed models."



The next generation of efficiency

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 Series achieving cutting edge performance and efficiency. The new versatile range from 30 to 37 kW can be configured to meet the customers' efficiency requirements. The e-models feature a larger airend delivering highest efficiency levels. The regulated speed models save energy by matching the output to the plant air demand.

Pressure range
5 to 13 bar

Volume flow
1.33 to 7.35 m³/min

Motor power
30 to 37 kW

IE3 MOTOR*

*Optional IE 4

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 ensures that operating costs will remain low throughout the compressor's life.

Premium efficiency airend

Our premium efficiency airends are designed and manufactured in house on the latest CNC grinding machines and using accurate 3D monitoring technology for the inspection. Gardner Denver's airends are designed to match the exact requirements of the machines and achieve the max performance and reliability. The unique integrated design with oil filter and oil regulation valve included in the airend housing **eliminates the risk of leakage** and simplifies maintenance. Using the 3 O-rings unique design of the fail safe seal system we **minimise the down time** of the compressor by indicating the need of replacement before breakdown. Depending on the required efficiency level this range is available with standard and premium size airend. The larger airend achieves up to **9% energy savings** compared to the standard size airend.





GD Pilot TS SE7 innovative touch screen compressor controller



The GD Pilot TS SE7 with its high resolution 7" touch screen display is extremely user-friendly and self-explanatory. All functions are clearly structured in five main menus and are intuitively visual. The multilingual GD Pilot TS SE7 control system ensures reliable operation and protects your investment by continuously monitoring the operational parameters, which is essential for reducing your running costs.

GERMAN ENGINEERING
DESIGN & MANUFACTURE

Exceptional reliability and performance

Large surface after cooler
Optimum cooling to ensure low operating and discharge temperatures.

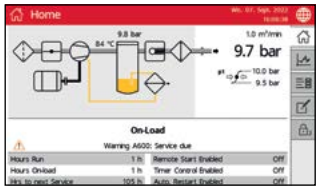
Next generation separator filter
Amply dimensioned filtration for constant performance throughout the lifetime delivering an oil carryover of less than 3ppm.

High efficiency electric motor
The compressors are equipped with a premium efficiency electric motor.

Thermostatically controlled motor driven fan
Highly efficient and extremely quiet fan allows compressor operation in the work place, plus the use of maximum duct length without further assistance.

Highest quality connections
Solid hoses and pipe connections with viton victaulic couplings increase reliability and are easy to maintain.

Features & functions

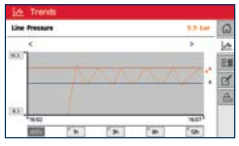


- Home Page – instant overview of the compressor status
- Real Time Clock – allows pre-setting of compressor starting/stopping
- Second Pressure Setting
- Integrated Cooling and Dryer Control
- Fault History Log – for in-depth analysis
- Remote Control via Programmable Inputs
- Auto Restart after Power Failure
- Optional Base Load Sequencing
- SD Card – stores several run characteristics
- iConn enabled
- Integrated Web-Server

iConn

Trend diagrams

With the ability to display detailed system analysis in the form of trend diagrams and graphs, operating parameters can be precisely set to maximise efficiency.



- Line / Network Pressure
- Motor Speed (Regulated Speed)
- On Load Hours / Total Hours Run & Average Volume Flow
- Weekly Average Volume Flow

Web-Server



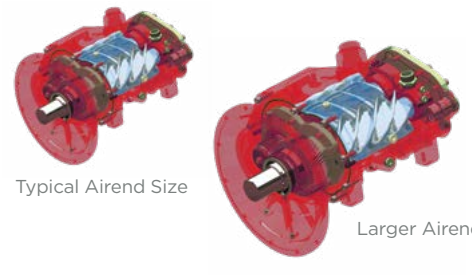


Where efficiency & sustainability matter

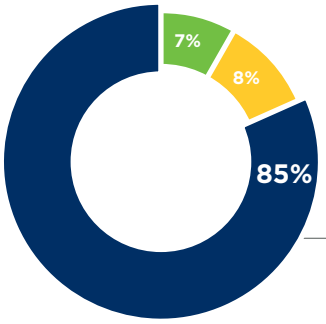
An investment that pays off

The e-models of the ESM/VS feature an extra large airend with optimised rotor tip speed achieving up to 9% energy savings.

With energy prices having doubled recently, there has never been a better time to invest in Gardner Denver. Significant savings can be made with these new energy-saving airends.



The largest cost component of a compressor is the energy to run it. The reduction of energy costs significantly impacts on the total costs of ownership.



A typical oil lubricated rotary screw air compressor operating at 70% load

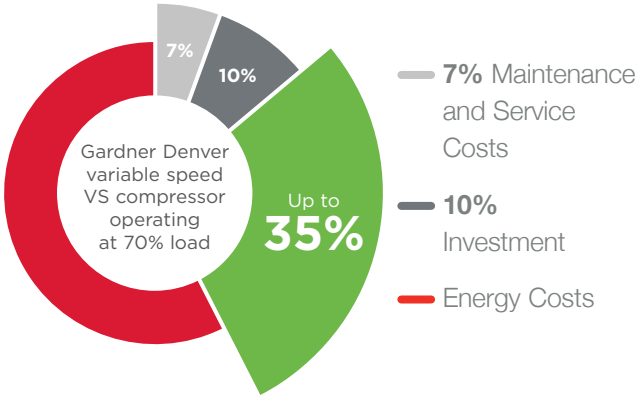
This range of super efficient compressors will **pay back in many cases in less than 12 months**. The extra large airend also has a longer life expectancy.

Furthermore, the new premium efficiency Frame 3e models can save up to 15 tons of CO_2 pa – equal to 33,000 miles driven by an average petrol powered car.

Even greater efficiency with Variable Speed (VS)

- Variable speed compressors from Gardner Denver can efficiently and reliably handle the varying air demand found in most plant air systems
- 35% less energy in idle run compared to conventional two-stage compressors
- The annual cost of ownership can be significantly reduced using variable speed technology

Up to 35% Energy Saving



Perfect motor - drive - airend design

VS Series features a high efficient Power Drive System that exceeds the class **IES2 EN61800-9** requirements and assures high energy savings across broad flow range.

Integrated or turnkey heat recovery adds up to 75% energy savings

The heat generated during compression is paid for as part of the process, then paid for again during removal by way of cooling fans. Instead it can be used to generate free hot process water or hot water heating systems by utilising a high-efficiency, factory-fitted or turnkey oil-to-water heat exchanger.



Use waste heat to heat:

Upgrading your compressed air system with **heat recovery** or **heat recovery Plus delivers...**

SPACE-HEATING | INDUSTRIAL PROCESS HEAT | HOT WATER | PRE-HEATING FOR STEAM GENERATION

- **Significant 75% energy savings**
- **Lower CO_2 emissions**
- **Low investment costs**

Predictive Maintenance

Powered by ECOPLANT

Machine intelligence drives greater energy efficiency

Ecoplant is an AI-driven energy efficiency solution that optimises compressed air systems. It continuously monitors, analyses, and adjusts compressor operations to reduce energy waste, lower CO_2 emissions, and cut costs by up to 20%. **Integrated with iConn, it ensures:**

- Minimised outages & stable pressure
- ISO quality standards compliance
- Proactive issue detection to prevent downtime and enhance reliability
- Optimised energy use and reduced costs

iConn Compressed Air Service 4.0

iConn inside

The ESM / VS Series is equipped with iConn as standard. iConn is the smart, proactive real-time monitoring service that delivers in-depth and real-time knowledge on the system to compressed air users.

- Advanced remote analysis
- Predictive – evaluates historic data
- Maximises energy efficiency
- Optimises compressor performance
- Reduces downtime
- Works as an open standard
- Free on new compressors – can be retrofitted
- Proactive maintenance

...exactly why you cannot ignore iConn!

More than just Air Compressors

Designed and manufactured in-house by Gardner Denver, our extensive range of air treatment and downstream equipment delivers energy efficiency with low environmental impact and the lowest total cost of ownership.

High quality dry air is guaranteed, with the same quality, performance and efficiency standards we build into our air compressors.

Designed and manufactured by Gardner Denver

SINGLE SOURCE 360° COMPRESSED AIR SOLUTIONS

- **Air dryers** to improve productivity, system efficiency and product/process quality
- Leak-free, low-pressure drop **EPL Piping**
- **Drain Valves** remove contaminants from the system without losing compressed air
- **Flow and system controllers** for compressed air system optimisation
- **Filtration products** like high-quality in-line filters and activated carbon towers ensure clean air and improve productivity
- **Oil Water Separators** remove lubricant from compressed air condensate for an environmentally friendly disposal
- **Meeting & exceeding** expectations

Single Source Air Treatment Systems – The Latest Innovation, Air Quality Assured



Protect your investment
Invest in your future with a Service & Warranty Agreement

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 years [1]. It is one of the most generous warranties available in the industry affording you total piece of mind.

[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.

LOWER COST OF OWNERSHIP

Protect 10 Service and Warranty Agreements provide the most cost-effective solutions based on your customised maintenance strategy.

QUALITY RESULTS

Factory trained technicians allows you to focus on your core business, while they take care of your compressor system.

INCREASED UPTIME

Service & Warranty Agreements help decrease unplanned downtime and costly production interruptions.

EFFICIENT ENERGY USE

Peak system efficiency is achieved through properly performed maintenance and inspection.

PEACE OF MIND

Protect 10 Service agreements ensures an extended warranty. Depends on duration.



Gardner Denver genuine spare parts

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 30 – 37 Fixed Speed

Gardner Denver model	Nominal Pressure	Drive Motor	FAD [1]	Noise Level [2]	Weight	Dimensions L x W x H
	bar g	kW	m³/min	dB(A)	kg	mm
ESM30	7.5 10 13	30	5.75 5.01 4.27	67	887	1722 x 920 x 1659
ESM37	7.5 10 13	37	7.00 6.17 5.30	68	912	1722 x 920 x 1659

ESM 30^{e} – 37^{e} Efficiency Version, Fixed Speed

Gardner Denver model	Nominal Pressure	Drive Motor	FAD [1]	Noise Level [2]	Weight	Dimensions L x W x H
	bar g	kW	m³/min	dB(A)	kg	mm
ESM30^{e}	7.5 10	30	6.00 5.01	67	964	1722 x 920 x 1659
ESM37^{e}	7.5 10	37	7.35 6.28	67	989	1722 x 920 x 1659

VS 30 – 37 Variable Speed

Gardner Denver model	Min-Max Pressure	Drive Motor	FAD [1] Min - Max	Noise Level [2] at 70% Load	Weight	Dimensions L x W x H
	bar g	kW	m³/min	dB(A)	kg	mm
VS30	5 - 10	30	1.33 – 5.53	66	925	1722 x 920 x 1659
VS37	5 - 13	37	1.44 – 6.90	67	952	1722 x 920 x 1659

VS 37^{e} Efficiency Version, Variable Speed

Gardner Denver model	Min-Max Pressure	Drive Motor	FAD [1] Min - Max	Noise Level [2] at 70% Load	Weight	Dimensions L x W x H
	bar g	kW	m³/min	dB(A)	kg	mm
VS37^{e}	5 - 8	37	2.44 – 7.15	67	1029	1722 x 920 x 1659

[1] Data measured and stated in accordance with ISO 1217, Edition 4, Annex C and 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, tolerance ± 3dB (A).

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 – 355 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.

gdcompressors.eu@gardnerdenver.com
www.gardnerdenver.com

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

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Gardner Denver

Premium compressor design & industry leading warranty

ESM/VS Series 75 kW
Fixed & Variable Speed

iConn

PROTECT 10 years
Extended Warranty for GD Compressors

SUSTAINABLE MANUFACTURING



Reliability & efficiency
without compromise



"Lowest operational costs
thanks to a 7% efficiency increase."

Quality pays off

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 series achieving cutting edge performance and efficiency. The 75 kW lubricated screw compressor comprises of fixed speed, as well as E models and variable speed models providing best-in-class efficiency. All models are optionally available with integrated heat recovery.

Pressure range
5 to 13 bar

Volume flow
2.1 - 14.9 m^3/min

Motor power
75 kW

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 ensures that operating costs will remain low throughout the compressor's life.



Premium efficiency airend

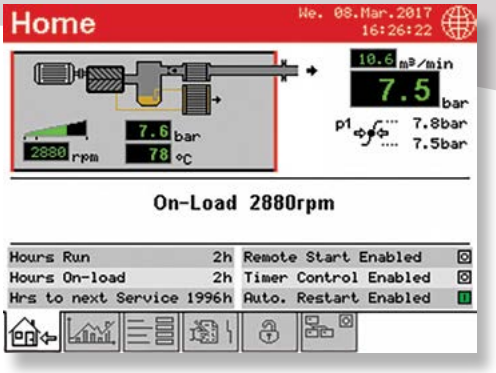
The new GD6 airend ensures higher efficiency levels, by up to 5% compared to the previous one, providing fewer pressure drops, in an optimised compact design. Gardner Denver's unique design, with integrated oil filter and oil regulation valve, ensures external hoses are reduced to a minimum. The integrated airend design assures the reliability of the compressor, continuous hassle-free operation and easy servicing. Under the free Protect 10 warranty the airends are covered up to 44,000 hours or 10 years*.

* Whichever is soonest

GERMAN ENGINEERING
DESIGN & MANUFACTURE



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



GD Pilot TS innovative touch screen compressor controller

The GD Pilot TS with its high resolution touch screen display is extremely user-friendly and self-explanatory. All functions are clearly structured in five main menus and are intuitively visual. The multilingual GD Pilot TS control system ensures reliable operation and protects your investment by continuously monitoring the operational parameters, which is essential for reducing your running costs.

Outstanding Benefits

Re-designed GD6 and GD8 semi integrated airends

Optimised airends provides better performance, higher efficiency levels and lower pressure drop.

Highest efficiency levels

Up to 8% improvement.

Lowest floor space requirement

In average 8% less than comparable products in the market.

Implementation of new automatic oil regulation valve for variable speed models

Adding to the efficiency improvement.

The automatic motor lubrication is standard

It increases the bearing life and is maintenance free.

The new fine separator with just one integrated sealing

Makes maintenance easy as no o-ring replacement is required.

All doors are hinged and can be removed

Reducing the space requirements and optimising accessibility.

Premium electric motor

The compressors are equipped with a premium high efficiency electric motor.

Features & functions

- Home Page – instant overview of the compressor status
- Real Time Clock – allows pre-setting of compressor starting/stopping
- Second Pressure Setting
- Integrated Cooling and Dryer Control
- Fault History Log – for in-depth analysis
- Remote Control via Programmable Inputs
- Auto Restart after Power Failure
- Optional Base Load Sequencing
- SD Card – stores several run characteristics
- iConn enabled

Trend diagrams

With the ability to display detailed system analysis in the form of trend diagrams and graphs, operating parameters can be precisely set to maximise efficiency.

- Line / Network Pressure
- Motor Speed (Variable Speed)
- On Load Hours / Total Hours Run & Average Volume Flow
- Weekly Average Volume Flow



Energy Efficiency Booster

Innovative oil regulation valve

Specially designed by Gardner Denver's engineering team, this integrated valve:

- Eliminates the risk of condensate to avoid corrosion and extends oil's life time
- Depending on the working conditions improves efficiency by up to 5% for the variable speed models
- Improves low running speeds

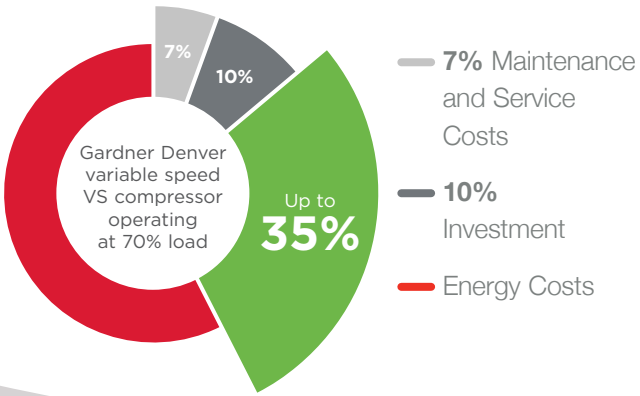
Even greater efficiency with Variable Speed (VS)

- Variable speed compressors from Gardner Denver can efficiently and reliably handle the varying air demand found in most plant air systems
- 35% less energy in idle run compared to conventional two-stage compressors
- The annual cost of ownership can be significantly reduced using variable speed technology

e-models market leading energy efficiency

The e-models feature a class leading efficiency of up to **6.8%** compared to the standard models. With new technology including an IE4 electric motor and an automatic oil regulation valve these models can save up to **€ 4,500 in energy costs a year.**

Up to 35% Energy Saving



Use waste heat to heat:

Upgrading your compressed air system with **heat recovery** or **heat recovery Plus delivers...**



- **Significant 75% energy savings**
- **Lower CO_2 emissions**
- **Low investment costs**

Integrated or turnkey heat recovery adds up to 75% energy savings

The heat generated during compression is paid for as part of the process, then paid for again during removal by way of cooling fans. Instead it can be used to generate free hot process water or hot water heating systems by utilising a high-efficiency, factory-fitted or turnkey oil-to-water heat exchanger.



Predictive Maintenance

Powered by ECOPLANT

Machine intelligence drives greater energy efficiency

Ecoplant is an AI-driven energy efficiency solution that optimises compressed air systems. It continuously monitors, analyses, and adjusts compressor operations to reduce energy waste, lower CO_2 emissions, and cut costs by up to 20%. **Integrated with iConn, it ensures:**

- Minimised outages & stable pressure
- ISO quality standards compliance
- Proactive issue detection to prevent downtime and enhance reliability
- Optimised energy use and reduced costs

iConn Compressed Air Service 4.0

iConn inside

The ESM / VS Series is equipped with iConn as standard. iConn is the smart, proactive real-time monitoring service that delivers in-depth and real-time knowledge on the system to compressed air users.

- Advanced remote analysis
- Predictive – evaluates historic data
- Maximises energy efficiency
- Optimises compressor performance
- Reduces downtime
- Works as an open standard
- Free on new compressors – can be retrofitted
- Proactive maintenance

...exactly why you cannot ignore iConn!

More than just Air Compressors

Designed and manufactured in-house by Gardner Denver, our extensive range of air treatment and downstream equipment delivers energy efficiency with low environmental impact and the lowest total cost of ownership.

High quality dry air is guaranteed, with the same quality, performance and efficiency standards we build into our air compressors.

Designed and manufactured by Gardner Denver

SINGLE SOURCE 360° COMPRESSED AIR SOLUTIONS

- **Air dryers** to improve productivity, system efficiency and product/process quality
- Leak-free, low-pressure drop **EPL Piping**
- **Drain Valves** remove contaminants from the system without losing compressed air
- **Flow and system controllers** for compressed air system optimisation
- **Filtration products** like high-quality in-line filters and activated carbon towers ensure clean air and improve productivity
- **Oil Water Separators** remove lubricant from compressed air condensate for an environmentally friendly disposal
- **Meeting & exceeding** expectations

Single Source Air Treatment Systems – The Latest Innovation, Air Quality Assured



Protect your investment
Invest in your future with a Service & Warranty Agreement

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 years [1]. It is one of the most generous warranties available in the industry affording you total piece of mind.

[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.

LOWER COST OF OWNERSHIP

Protect 10 Service and Warranty Agreements provide the most cost-effective solutions based on your customised maintenance strategy.

QUALITY RESULTS

Factory trained technicians allows you to focus on your core business, while they take care of your compressor system.

INCREASED UPTIME

Service & Warranty Agreements help decrease unplanned downtime and costly production interruptions.

EFFICIENT ENERGY USE

Peak system efficiency is achieved through properly performed maintenance and inspection.

PEACE OF MIND

Protect 10 Service agreements ensures an extended warranty. Depends on duration.



Gardner Denver genuine spare parts

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 75 Fixed Speed Screw Compressor

Gardner Denver model	Nominal Pressure	Drive Motor	FAD [1]	Noise Level [2]	Weight	Dimensions L x W x H
	bar g	kW	m³/min	dB(A)	kg	mm
ESM75	7.5 10 13	75	13.98 12.54 10.50	72	1495	1958 x 1138 x 1857

ESM 75e Efficiency Version, Fixed Speed Screw Compressor

Gardner Denver model	Nominal Pressure	Drive Motor	FAD [1]	Noise Level [2]	Weight	Dimensions L x W x H
	bar g	kW	m³/min	dB(A)	kg	mm
ESM75e	7.5 10	75	14.80 12.70	71	1785	1959 x 1138 x 1857

VS 75 Variable Speed Screw Compressor

Gardner Denver model	Nominal Pressure	Drive Motor	FAD [1] Min - Max	Noise Level [2] at 100% Load	Weight	Dimensions L x W x H
	bar g	kW	m³/min	dB(A)	kg	mm
VS75	5 - 13	75	2.10 - 14.03	72 - 74	1520	1958 x 1138 x 1857

1] Data measured and stated in accordance with ISO 1217, Edition 4, Annex C and 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, tolerance ± 3dB (A).

All models are available in water cooled versions.

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 – 355 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.

gdcompressors.eu@gardnerdenver.com
www.gardnerdenver.com

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

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Gardner Denver

Premium compressor design & industry leading warranty

ESM 90 - 132 Fixed Speed
VS 90 - 132 Variable Speed
ESM 90e - 132e Fixed Speed

iConn

PROTECT 10 years
Extended Warranty for GD Compressors

SUSTAINABLE MANUFACTURING



Reliability & efficiency
without compromise



Quality pays off

The ESM, VS and E Series from Gardner Denver

Well known in the industry for quality and reliability, Gardner Denver continuously develops the ESM, VS and E Series achieving cutting edge performance and efficiency. All models are optionally available with integrated heat recovery.

Pressure range
5 to 13 bar

Volume flow
5.3 to 24.8 m³/min

Motor power
90 to 132 kW

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 ensures that operating costs will remain low throughout the compressor's life.

GERMAN ENGINEERING DESIGN&MANUFACTURE

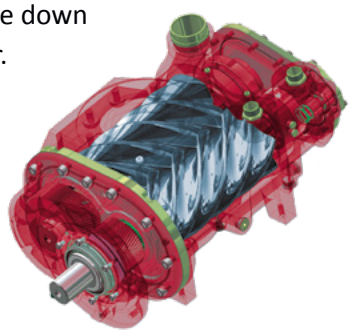
Premium efficiency airend

The **new highly efficient airend** delivers the highest quality compressed air at a low rotational speed, to help minimise the unit's energy consumption and achieve **excellent performance.**

The **semi integrated airend** design with integrated oil filter and oil regulation valve means fewer external components and pipework, taking less physical space, eliminating the risk of leakage and ease the maintenance.

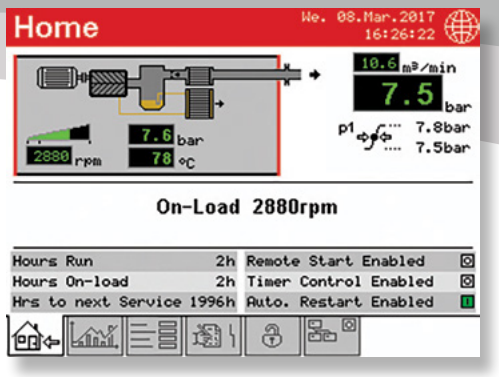
The innovative design of the fail safe shaft seal, ensures highest levels of quality and reliability are achieved minimising the down time of the compressor.

Our top quality airends are covered by the new **10 years warranty** and up to 44,000 hours.





"Lowest operational costs thanks to a 6% efficiency increase."



GD Pilot TS innovative touch screen compressor controller

The GD Pilot TS with its high resolution touch screen display is extremely user-friendly and self-explanatory. All functions are clearly structured in five main menus and are intuitively visual. The multilingual GD Pilot TS control system ensures reliable operation and protects your investment by continuously monitoring the operational parameters, which is essential for reducing your running costs.

Exceptional reliability & performance

Innovative Oil regulation valve

Special designed by Gardner Denver's engineering team this integrated valve:

- Eliminates the risk of condensate to avoid corrosion and extends oil's life time
- Depending on the working conditions improves efficiency up to **5% for the variable speed models** and **premium efficiency (e) models**
- Improves low running speeds

Large surface after cooler

Optimum cooling to ensure low operating and discharge temperatures.

High performance separator filter

Two stage filtration ensures highest quality air is delivered to your system (< 3ppm oil carryover). The vessel has a hinged cover for easy maintenance.

High efficiency electric motor

The compressors are equipped with a premium high-efficiency electric motor.

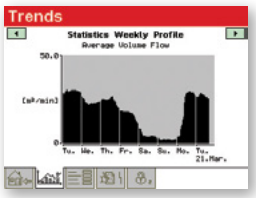
Automatic motor lubrication

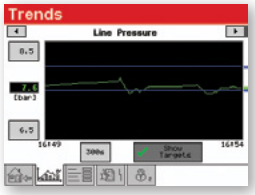
Increases bearing life and is maintenance free.

Highest quality connections

Solid hoses and pipe connections with viton victaulic couplings increase reliability and are easy to maintain.

Features & functions





- Home Page – instant overview of the compressor status
- Real Time Clock – allows pre-setting of compressor starting/stopping
- Second Pressure Setting
- Integrated Cooling and Dryer Control
- Fault History Log – for in-depth analysis
- Remote Control via Programmable Inputs
- Auto Restart after Power Failure
- Optional Base Load Sequencing
- SD Card – stores several run characteristics
- iConn enabled

Trend diagrams

With the ability to display detailed system analysis in the form of trend diagrams and graphs, operating parameters can be precisely set to maximise efficiency.

- Line / Network Pressure
- Motor Speed (Variable Speed)
- On Load Hours / Total Hours Run & Average Volume Flow
- Weekly Average Volume Flow

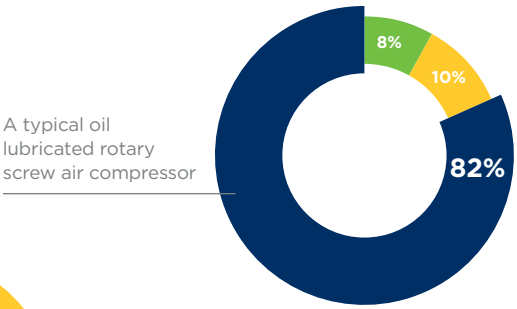


Minimising operating costs by
maximising the efficiency

Energy Efficiency Boosters

Upgrades for maximum efficiency

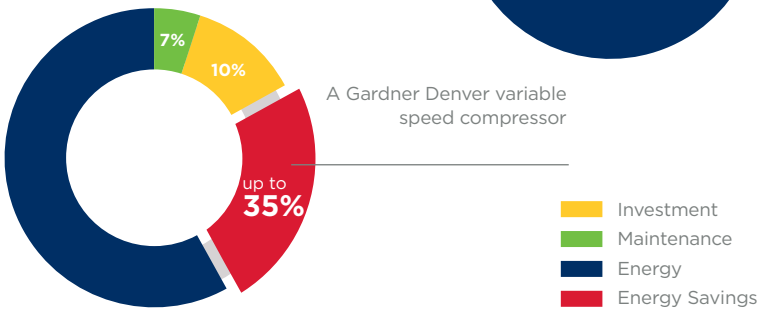
Gardner Denver's portfolio of oil lubricated compressors from 90 to 132 kW includes fixed and regulates speed models, and additionally e-models featuring an even higher efficiency. The maximum efficiency can be achieved by adding the integrated heat recovery.



Variable speed compressors

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.



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

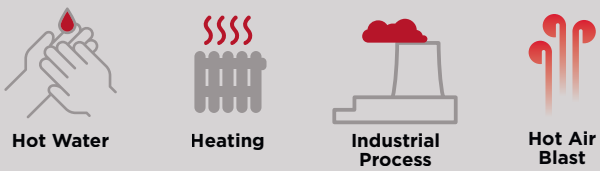
e-models - Market leading energy efficieny

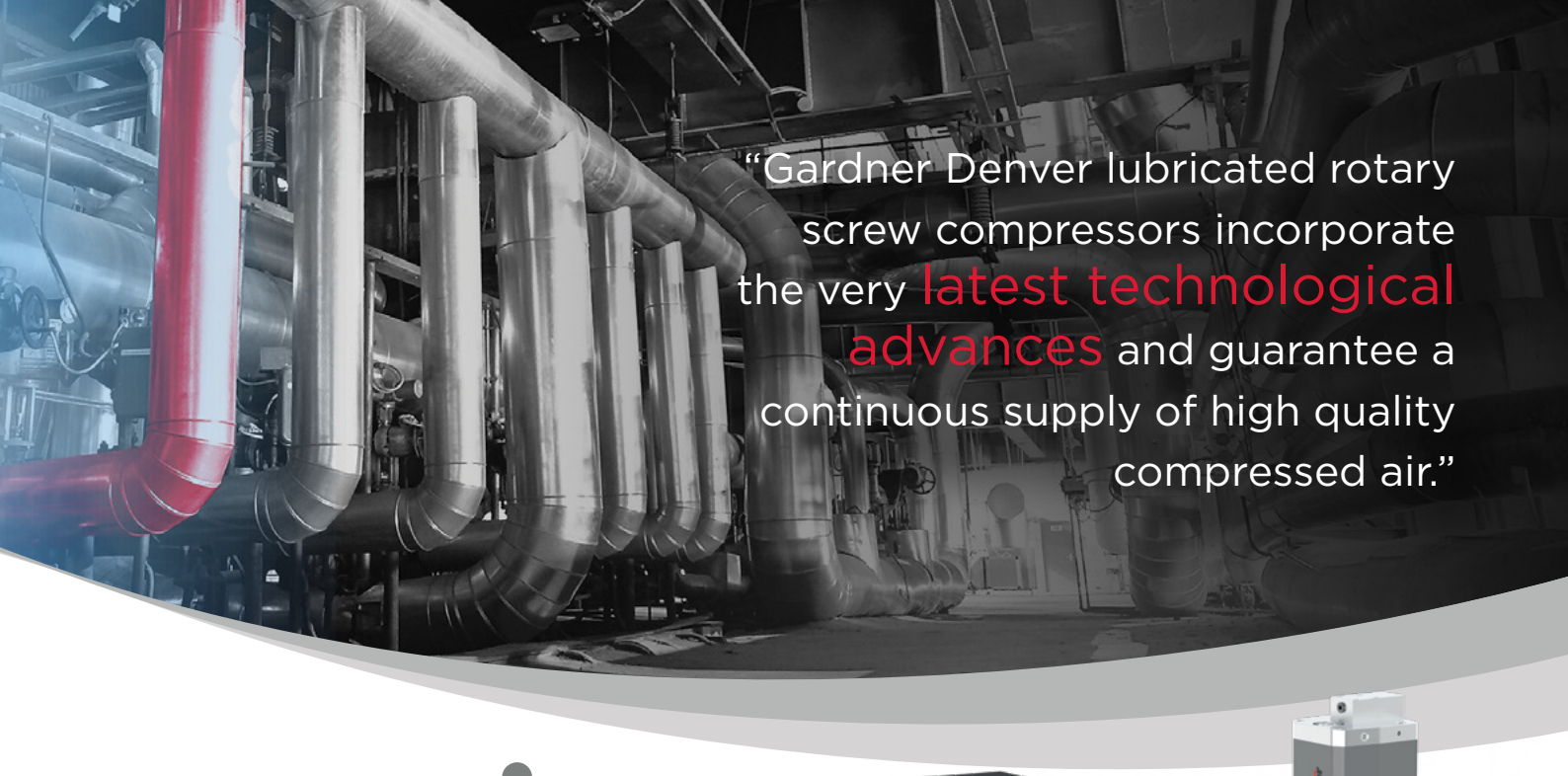
The e-models feature a class leading efficiency of up to **2.5 %** compared to the standard models. With a new technology including an IE4 electric motor and an automatic oil regulation valve these models can save up to **€ 2,500 energy costs a year.**

Add further value

Integrated heat recovery

Significant energy and costs savings can be achieved with Gardner Denver's efficient integrated heat recovery system. It can be either factory fitted or supplied as retrofit kit including all necessary pipe-work and fittings.





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

iConn

iConn Industry 4.0 solution

The ESM, VS and E Series are equipped with iConn as a standard. iConn is the smart, proactive real-time monitoring service that delivers in-depth and real-time knowledge on the system to our compressed air users. It enables accurate production planning and total peace-of-mind protection, generating insight and statistics that keep users informed on performance, at the same time highlighting potential issues before they become a problem.

- Condition based monitoring
- Predictive maintenance required
- Full Air Manufacturing Control Optimisation
- External data pattern integration

The synthetic efficiency advantage with Gardner Denver AEON™ 9000 SP lubricant as a standard

A unique synthetic lubricant designed specifically to maximise compressor efficiency and provide optimum lubricity.

Extended life time
Maximum protection for internal components.



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
- Compressed Air Filter
- Condensate Drain
- Compressed Air Refrigerant Dryer
- Heatless Desiccant Dryers
- Heat Regenerative Desiccant Dryer
- Nitrogen Generator
- GD Connect 12 Plus Multi Compressor Controller



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 years [1]. 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 owner [2]
- 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 90 – 132 Fixed Speed Screw Compressors

Gardner Denver model	Nominal Pressure	Drive Motor	FAD [1]	Noise Level [2]	Weight	Dimensions L x W x H
	bar g	kW	m³/min	dB(A)	kg	mm
ESM90	7.5 10 13	90	18.16 15.51 13.52	73	2513	2337 x 1368 x 2039
ESM110	7.5 10 13	110	21.60 18.85 16.47	75	2614	2337 x 1368 x 2039
ESM132	7.5 10 13	132	24.79 21.51 18.70	76	2778	2337 x 1368 x 2039

VS 90 – 132 Variable Speed Screw Compressors

Gardner Denver model	Nominal Pressure	Drive Motor	FAD [1] Min - Max	Noise Level [2] at 70% Load	Weight	Dimensions L x W x H
	bar g	kW	m³/min	dB(A)	kg	mm
VS90	5 - 13	90	5.26 – 18.16	72	2768	2337 x 1368 x 2039
VS110	5 - 13	110	5.26 – 21.51	72	2770	2337 x 1368 x 2039
VS132	5 - 13	132	5.26 – 24.76	74	2786	2337 x 1368 x 2039

ESM 90e – 132e Fixed Speed Screw Compressors

Gardner Denver model	Nominal Pressure	Drive Motor	FAD [1]	Noise Level [2]	Weight	Dimensions L x W x H
	bar g	kW	m³/min	dB(A)	kg	mm
ESM90e	7.5 10	90	18.16 15.51	73	2513	2337 x 1368 x 2039
ESM110e	7.5 10	110	21.60 18.85	75	2614	2337 x 1368 x 2039
ESM132e	7.5 10	132	24.79 21.51	76	2778	2337 x 1368 x 2039

NOT AVAILABLE IN 60HZ

All models are also available as WATER COOLED versions, for technical specifications please refer to the water cooled technical information sheets.

[1] Data measured and stated in accordance with ISO 1217, Edition 4, Annex C and 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, tolerance ± 3dB (A).

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 – 355 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.

gdcompressors.eu@gardnerdenver.com
www.gardnerdenver.com/gdproducts

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

Specifications subject to change without notice.

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