

OIL-FREE EnviroAIRE T / TVS Series ◀



ISO CLASS : 0
PLUS SILICONE FREE
ISO 8573-1 (2010)



Oil-Free Screw Compressors

2 Stage Technology



Rely on GD to provide the perfect fit

GD
COMPRESSORS

Why oil-free? Don't compromise on quality...

OIL-FREE
enviroAIRE
T / TVS Series

The EnviroAire T series from GD Compressors sets the standards for air purity. These 2 stage oil-free compressors are ISO 8573-1 CLASS 0 certified. Offering not only 100% oil-free air but also improved energy efficiency, these compressors are made to meet the precise needs of a diverse range of industries.

The ISO 8573-1 compressed air standard was revised in 2001 to address the requirements of these critical applications where air purity is vital. Along with a comprehensive methodology for measurement, a new stringent quality standard was born in ISO 8573-1 CLASS 0 – adding further weight to the five existing purity classes.

For many industries such as 'food & beverages', 'pharmaceuticals' and 'electronics', air purity is a critical factor where even the smallest drop of oil risks contamination that can have severe consequences such as:

- Product spoilage
- Production downtime
- Damage to production equipment
- Damage to brand reputation



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Why silicone-free?

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OIL-FREE
T / TVS Series

Silicone contamination in compressed air systems will cause problems across a wide range of industries, not least of all the automotive industry where a high quality finish is essential.

Blisters, cracking, craters and a loss of adhesion are all symptoms of silicone contamination and will result in costly product spoilage and re-working in addition to production downtime.

The ISO 8573-1 CLASS 0 certified EnviroAire T compressors from GD offer the following benefits:

- 100% silicone-free, guaranteed
- Specifically designed for use in pure-air critical applications such as the automotive industry
- Avoids contaminations and provides the highest air quality standards
- Independently tested and certified

Class	Concentration total oil (aerosol, liquid, vapour) mg/m ³
0	As specified by the equipment user or supplier and more stringent than class 1
1	≤ 0.01
2	≤ 0.1
3	≤ 1
4	≤ 5



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Built for 24/7 use in demanding applications



Take a proven technology and make it even better.

GD Compressors designed the oil-free EnviroAire T series compressors for continuous operation and for applications that require absolute reliability and performance efficiency.

Precise engineering for clean results.

The EnviroAire T series is characterised by its intelligent design, innovative functional principle and high quality workmanship. Its dependable quality and high efficiency ensures safe and cost effective generation of oil-free compressed air.

✓ Using a 2 stage airend ensures very low specific power consumption

✓ Each air-end element is carefully tested during manufacturing

✓ Each unit is test run simulating real life conditions

Electric motors and other components meet the highest European and other standards.



GARDNER DENVER USES ADVANCED TECHNOLOGY TO CAREFULLY CONSTRUCT INDUSTRIAL COMPRESSORS TO WITHSTAND THE MOST DEMANDING APPLICATIONS



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The preferred choice for optimum performance

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OIL-FREE
T / TVS Series ◀

Advanced design

The modular concept allows the integration of different options within the same enclosure and footprint.

Efficient Gardner Denver 2 stage air-end design

Designed and manufactured by Gardner Denver to deliver highest outputs reliably and efficiently.

Reliable cooling system

A dedicated closed-loop water circuit cooling system for the airend, ensures a constant internal temperature level and near isothermal compression, which increases the overall longevity of the airend. This unique feature guarantees efficient operation and generates a stable and low discharge temperature.

- Air cooling

The innovative configuration of two fully enclosed radial fans, allows installation in harsh conditions in accordance with E rP Efficiency Legislation 2015. Additionally, lower peripheral speeds minimise sound pressure values and power consumption by up to 50%.

- Water cooling

The water cooled option with shell and tube exchangers is designed for the harshest of conditions. The cooling is not dependent on these conditions, which allows a low discharge temperature even at high ambient temperatures. Lower sound pressure values and a better specific performance, compared to air cooled versions, are an additional plus.

IE3 high quality electric motors

GD Compressors use the highest quality electric motors available, to ensure high quality and premium efficiency.

Up to 45°C ambient capability

Ensures reliability and trouble-free operation through efficient heat dissipation.

All connections from one side

The modern design provides all connections on one side of the unit, such as cooling air inlet, customer net connection, electrical connection and condensate connection.

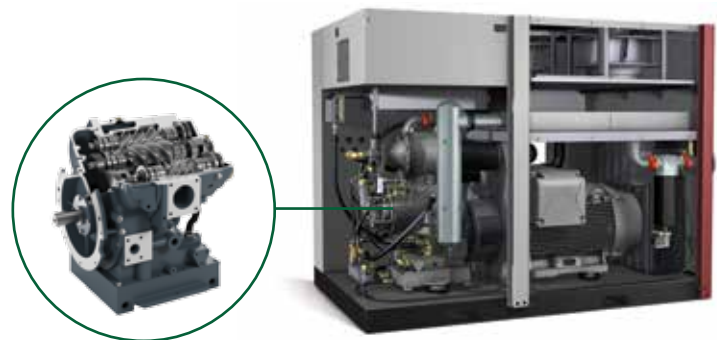
Easy installation

GD Compressors save you money from the very beginning – starting with transportation to your site.

The unit's compact size allows you to move it through standard industrial double doors. Its small footprint minimises the floor plan usage allowing you to maximise production space.

The compressors require no special foundation and ducting is easy to arrange.

Efficient Gardner Denver 2 stage air-end design



All connections from one side



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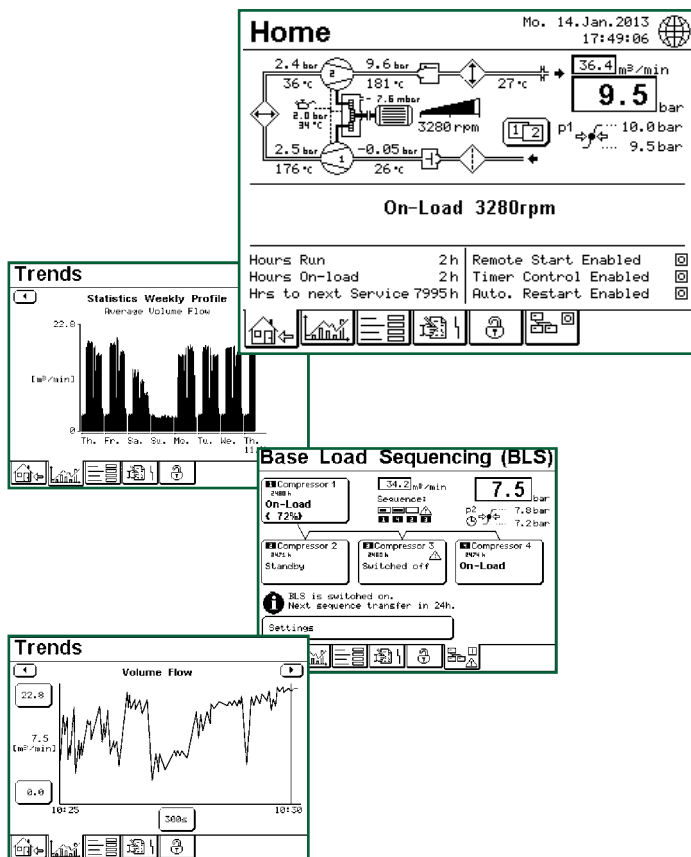
State-of-the-art “GD Pilot TS” touch screen controller - everything under control

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.

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

- Line/network pressure
- Motor speed (variable speed)
- On load hours/total hours run & average volume flow
- Weekly average volume flow
- Ambient pressure & temperature
- Inlet/outlet pressure and temperature at both stages
- Oil/Water pressure and temperature average volume flow



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Save even **more energy** with our **unique** compressed air management system

GD Connect 12

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 operates to the highest levels of efficiency, the "GD Connect 12" management system is essential.

The GD Connect 12 can intelligently control up to 12 fixed speed or variable speed compressors.

- Intelligently selecting the right combination of compressors
- Reducing energy consumption by tightening the network pressure to the smallest possible band
- Keeping off load running to the absolute minimum

Each 1 bar decrease potentially results in a 6% reduction in energy consumption and as much as 25% decrease in air leakage losses.



Extensive visualisation options

A local network connection can be installed, allowing system data to be viewed using the optional web server module.

Any number of users can access the online visual display system via the web server without any loss in speed.



Our compressor solution for varying air demand

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TVS Series

Typically, air demand in a plant varies widely throughout the day. In addition, fluctuations can occur from shift-to-shift, weekday-to-weekend, and season-to-season. Pressure requirements can also change from machine-to-machine or from one application to another. You need someone to evaluate your unique, often complex requirements and recommend a tailored solution.

The TVS variable speed compressor - one smart solution

Variable speed compressors can efficiently and reliably handle the varying air demand found in most plant air systems. These compressors speed up and slow down to match air supply to air demand as it fluctuates.

The right variable speed compressor for the application delivers significant energy savings and a stable consistent air supply.

The TVS compressor is an efficient and versatile solution even for the most demanding industrial applications and carries all of the Gardner Denver features and benefits associated with reliable, easy to use operations and high efficiency.

“THE TVS SERIES SAVES MONEY AND MAXIMISES PLANT PRODUCTIVITY – IT’S LIKE HAVING SEVERAL EFFICIENT COMPRESSORS IN ONE. SMART!”

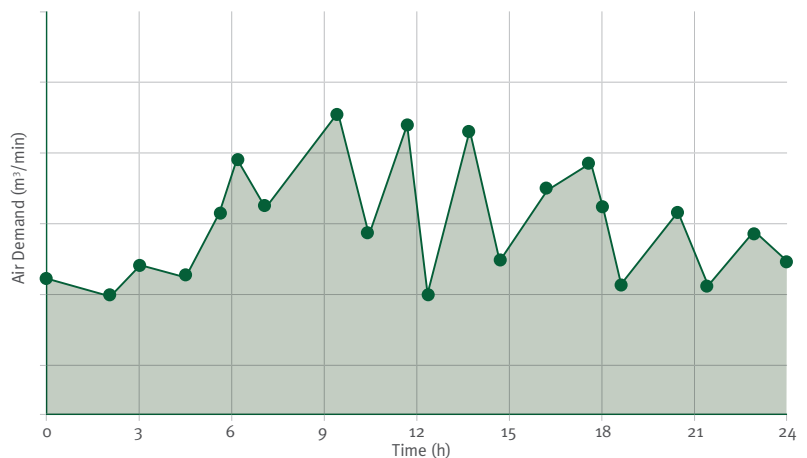
Variable speed — a matched motor, direct drive and air-end

The GD Compressor’s air-end ensures that maximum reliability and the highest efficiency level are incorporated into these packages.

The variable speed drive/motor/compressor combination and the controller, are designed to meet the varying demands of your system at the lowest possible specific power, which benefits you in the form of energy cost savings.



AIR DEMAND CAN VARY DRAMATICALLY DURING A 24HR PERIOD



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Reduced wear and tear thanks to wide regulation range

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TVS Series

Superb flexibility comes as standard with the TVS Series.

With a wide capacity range, the TVS Series features the market's quickest and widest response to air demand changes.

Your benefits during varying air demand:

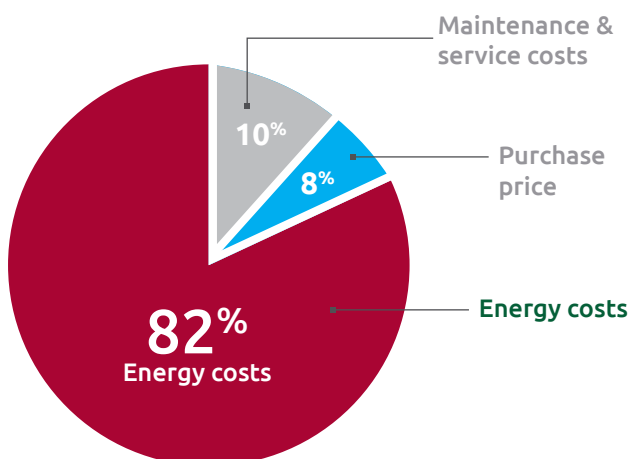
- Reduced wear and tear on inlet and discharge valve components
- No shock bearing loads for the air-end
- Minimised pulsating load (full load pressure/off load pressure) for all pressurised components within compressor package (hoses etc.)



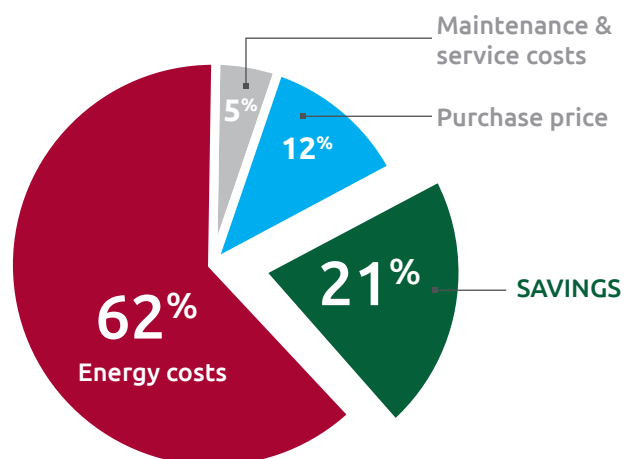
THE VS SERIES FEATURES THE MARKET'S QUICKEST AND WIDEST RESPONSE TO AIR DEMAND CHANGES

Annual cost of ownership

Typical fixed speed compressor



EnviroAire TVS compressor solution



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Easy servicing

The design of these packages assures 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 also lowers maintenance costs.

Service-friendly

- Short servicing times
- Long service intervals
- Reduced service costs



First class accessibility

- Panels and covers easily removable with quick-release catches

GD 5 Years extended warranty

Our total commitment to a worry-free quality service

GD provides an extended warranty cover on your compressor for 5 years with GD's authorised service providers delivering a guaranteed quality service*.

We believe that the GD 5 years warranty will become a way of life "working when you need it" to provide maximum uptime AND peace of mind.

**"THE USE OF GENUINE GD PARTS
WILL MAXIMISE YOUR COMPRESSOR'S
LIFE AND EFFICIENCY."**



Extended Warranty for GD Compressors

GD 5 Years Warranty – a simple and free of charge extended warranty scheme from GD Compressors – once again, taking the industry standard and making it better.

*Terms and conditions apply. Contact your nearest authorised service provider for full details.



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Technical data

Fixed Speed - Air and Water Cooled

Gardner Denver model	Cooling Method	Motor Rating (kW)	Working Pressure (bar g)		Free Air Delivered (m ³ /min)*		Dimensions L x W x H (mm)	Noise level dB(A)**		Weight (kg)
			8	10	8 bar g	10 bar g		8 bar g	10 bar g	
EnviroAire T75	Air	75	8	10	12.91	10.63	2597 x 1744 x 2001	75	74	3023
	Water							72	70	3223
EnviroAire T90	Air	90	8	10	15.65	13.79	2597 x 1744 x 2001	76	75	3223
	Water							73	72	3423
EnviroAire T110	Air	110	8	10	19.51	17.39	2597 x 1744 x 2001	77	77	3265
	Water							75	74	3465
EnviroAire T132	Air	132	8	10	22.39	20.50	2597 x 1744 x 2001	78	78	3432
	Water							77	76	3632
EnviroAire T160	Air	160	10		-	22.33	2597 x 1744 x 2001	-	78	3644
	Water								77	3844

Variable Speed - Air and Water Cooled

Gardner Denver model	Cooling Method	Motor Rating (kW)	Working Pressure (bar g)		Free Air Delivered (m ³ /min)*		Dimensions L x W x H (mm)	Noise level dB(A)** (70% load)	Weight (kg)
			min.	max.	min.	max.			
EnviroAire TVS110-8	Air	110	4	8	8.89	19.51	2597 x 1744 x 2001	76	3278
	Water							72	3478
EnviroAire TVS110-10	Air	110	4	10	10.51	17.68	2597 x 1744 x 2001	76	3278
	Water							71	3478
EnviroAire TVS132-8	Air	132	4	8	8.95	22.95	2597 x 1744 x 2001	77	3476
	Water							73	3676
EnviroAire TVS132-10	Air	132	4	10	10.51	21.10	2597 x 1744 x 2001	77	3476
	Water							72	3676
EnviroAire TVS160	Air	160	4	10	10.40	23.52	2597 x 1744 x 2001	77	3688
	Water							73	3888

* Data measured and stated in accordance with ISO1217 4th Edition Annex C and E at the following conditions:
 Air Intake Pressure: 1 bar a / 14.5 psi
 Air Intake Temperature: 20°C / 68°F
 Humidity: 0% (dry)

** Measured in free field conditions in accordance with the ISO 2151, tolerance ± 3dB(A)



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Whatever your request – GD has The Smart Solution!

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. As a result, the GD compressors are extremely energy efficient, quiet and reliable. These compressors continue to further strengthen the GD success story.



The oil-free **EnviroAire** range from 15 – 160 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, particularly for those customers operating in sterile environments. Variable and fixed speed compressor technologies are available.



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.

Our product range consists of:

- Filters
- Refrigerant dryer
- Desiccant dryer
- Condensate management
- Oil / water separation systems



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.

- The modern GD Connect 12 air management system can intelligently control up to 12 fixed speed or variable speed compressors.
- The simple GD Connect 4 air system is the ideal control solution for smaller compressed air stations, and will intelligently control up to 4 fixed speed compressors.



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

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www.gardnerdenverproducts.com

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