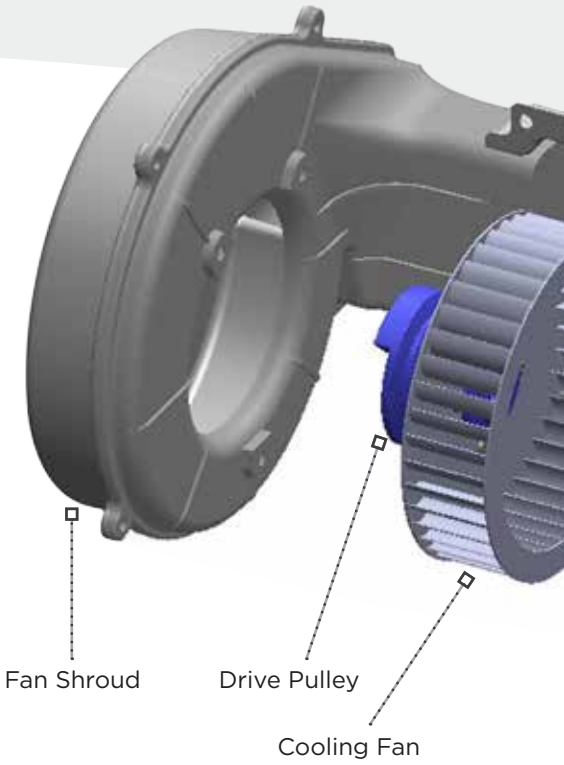
Gardner Denver

3–10 HP | OIL-LESS | ROTARY SCROLL COMPRESSOR

EnviroAire Series

Legendary Experience
Innovative Design

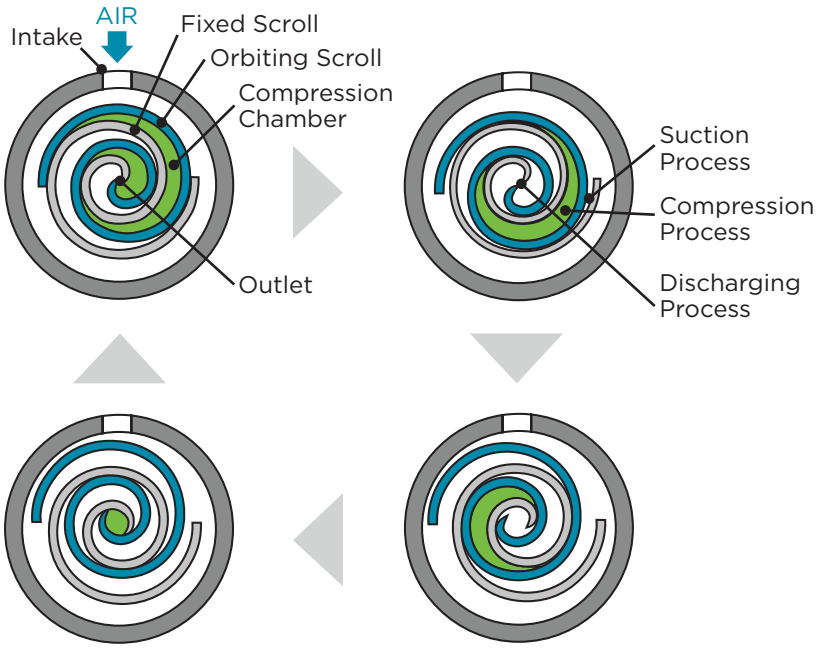


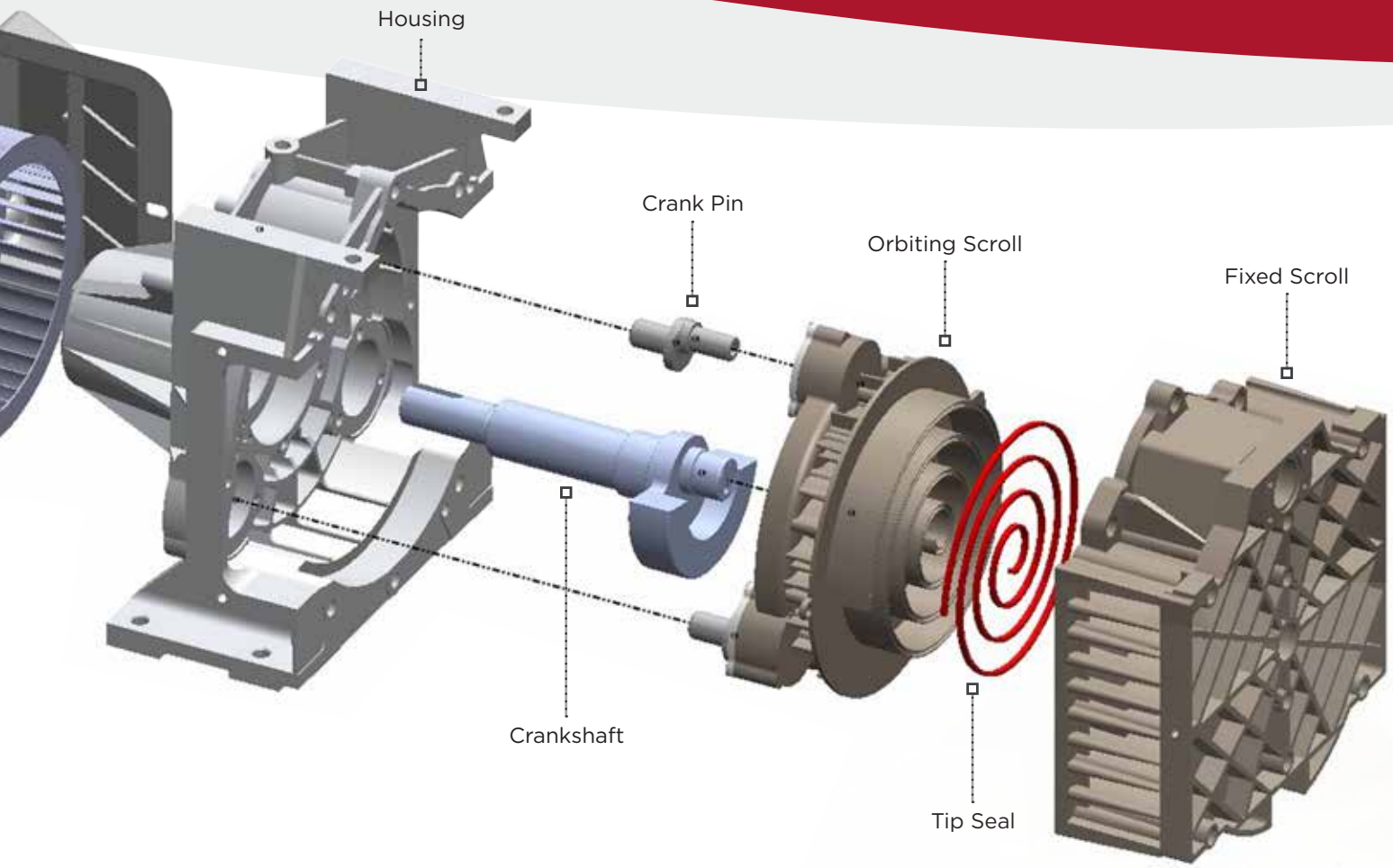
Gardner Denver has over 150 years of experience in design and manufacturing of the highest quality compressors. The EnviroAire rotary scroll system is the perfect example of our progressive innovation.

Oil-less compressors have become a standard in industries such as medical, lab/research, biotechnology, pharmaceutical, food and beverage, and semi-conductor. Oil contamination is extremely detrimental to these processes. Pure air quality demands are rapidly growing with new regulations and laws regarding oil contamination throughout multiple industries and applications. Gardner Denver has designed the EnviroAire scroll compressor specifically for these applications that require **100% OIL-FREE AIR**, including NFPA & CSA code compliant multiplex systems

Scroll Compression Explained

- An orbiting (rotating) scroll and fixed scroll housing are mated to create the compression chambers
- The continual movement of the orbiting scroll moves atmospheric air from the intake toward the center, compressing the air into progressively smaller areas
- The compressed air is directed to the center discharge port of the compressor
- Discharge pressure is accomplished during multiple stages of compression, resulting in a continuous intake suction and discharge





Scroll Compressor Features & Benefits

- 100% Oil-Less Design
- Oil-Free/Contaminant Free Air
- Continuous Operation, 100% Duty Cycle
- Integral Cooling Fan
- Special Tip Seal Design
- 116 or 140 PSI Options
- Low Sound Levels
- Low Vibration
- Compact Footprint
- 3, 5, 7.5 and 10 HP Options
- Flow from 9.2–126.4 CFM @ 116 PSI
- Less Moving Parts, Low Maintenance and High Reliability

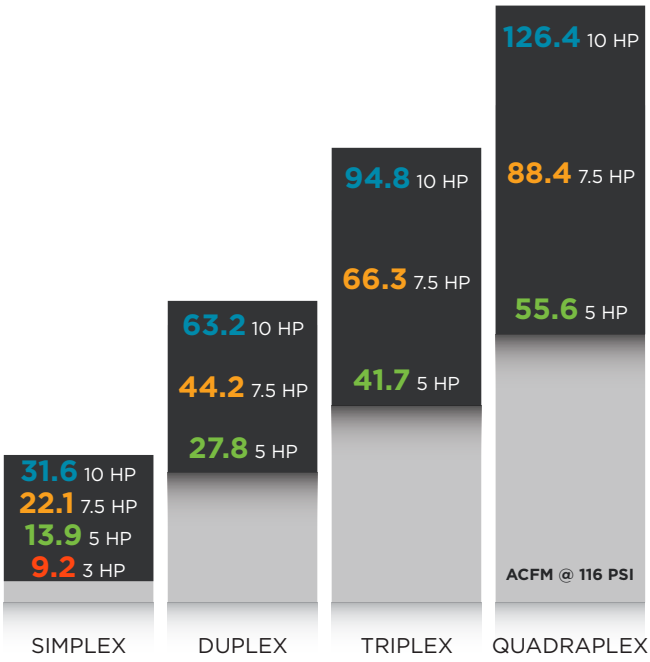
Industrial & Laboratory Applications

Gardner Denver designed the EnviroAire Scroll compressor system to meet industrial and laboratory requirements for contaminant free, oil-free, clean air applications. Compressors range from 3–10 HP in simplex through quadraplex designs with optional remote receiver, or available as tank mounted with optional integrated dryer. The EnviroAire modular system creates a clean, simple and serviceable layout, maximizing our ability to meet specific application requirements.

Industrial

- Breathing Air (Paint & Cleaning Booths)
- Pharmaceutical
- Food Processing
- Semi-Conductor Industry
- Laser Cutting
- Printing
- Air Bearings
- Instrument Air (Controlled Atmosphere)

Base Mount
Simplex

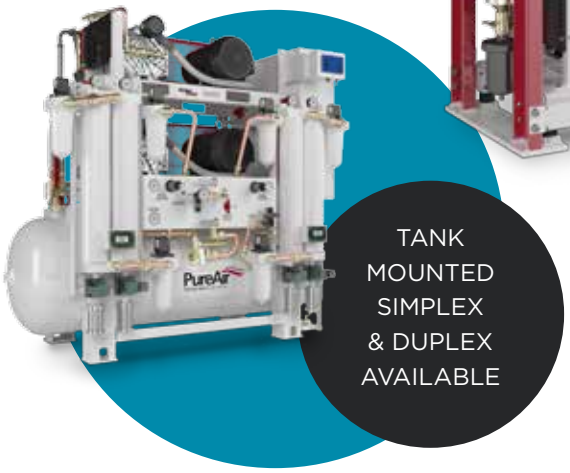


Stacked Multiplex

Duplex

Triplex

Quadraplex



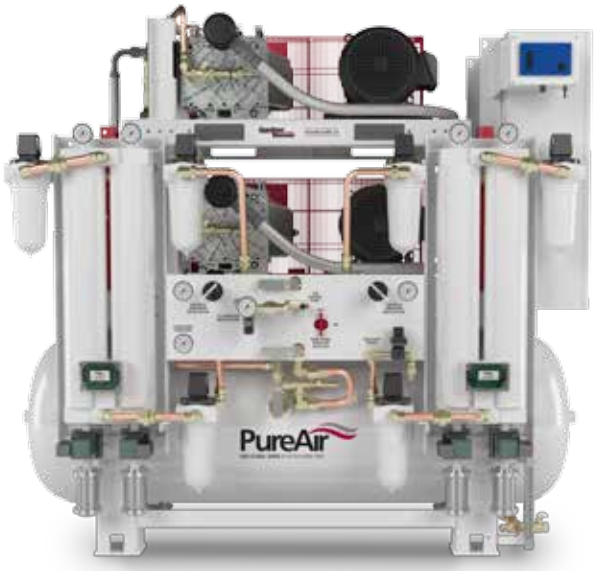
TANK MOUNTED SIMPLEX & DUPLEX AVAILABLE

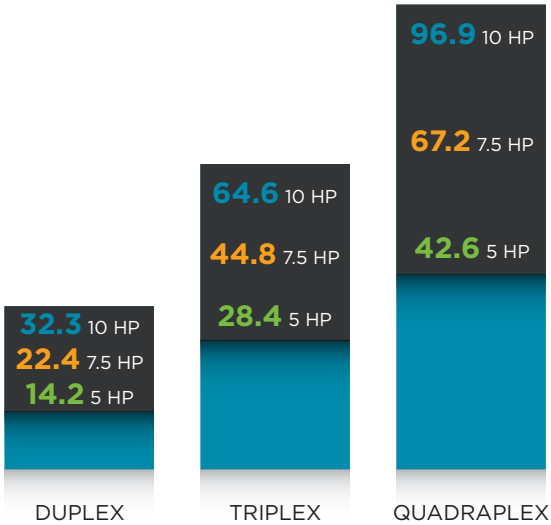
Laboratory

- Biotech
- Photo Laboratories
- Lens Grinding
- Dental (Denture Manufacturing)
- Quality Control/Testing

Medical Applications

The EnviroAire medical compressed air systems provide Category 1, NFPA 99 compliant medical breathing air to healthcare facilities and medical institutions. The oil-less scroll design is a proven technology utilized for the most critical of applications. When dependability and longevity are determining factors for your medical application, the EnviroAire scroll system is the perfect choice.





ICFM @ 116 PSI
Capacities shown are NFPA compliant
(Reserved Compressor on Standby)

Gardner Denver medical desiccant dryer systems are NFPA 99 and CSA code compliant for medical air applications. The redundant dryer system removes contaminants and moisture delivering dry, clean medical air.

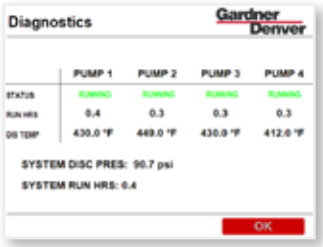
- Duplex Filter and Regulator Bank with By-Pass
- Purge Control with Mufflers
- Tower Gauges
- Pressure Regulators with Gauges
- Isolation Valves
- Differential Gauges on Filters
- Carbon Monoxide and Dew Point Monitoring

Medical

- Medical Equipment
  (Sterilizers, Orbital Arms, Radiation - TomoTherapy)
- Laboratory
  (Medical Research, College & High School)
- Medical Air
- Dental Facilities (Procedure)
- HVAC Climate Control
  (Healthcare Facilities & College Buildings)

System Controls

The optional Deluxe HMI control and the MediTrol-Plus HMI control from Gardner Denver have easy to use navigation and friendly graphics that deliver interactive and intuitive information at your fingertips. With a built-in integral webserver, BACnet IP protocol via Ethernet connection, these controllers provide visibility to the EnviroAire Scroll compressor system from any computer or mobile device with an internet connection.

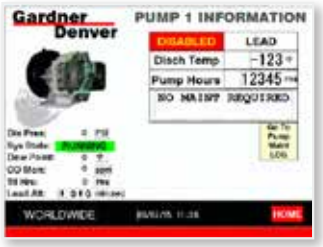


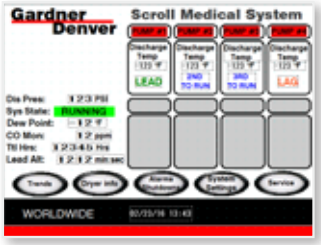
Deluxe HMI

- 3.5″ Full Color Touch Screen
- PLC Controlled
- Lead/Lag Control with Forced Alternation
- System Capacity and Operation Trending
- 26 Language Options

MediTrol-Plus HMI

- NFPA-99 Category 1 Medical, UL-508a, cULus
- 5.7" Full Color Touch Screen
- PLC Controlled
- Redundant Transformers for Dryer Control
- Analog Inputs for Pressure, RTD's, Dewpoint and Carbon Monoxide
- Lead/Lag Control with Forced Alternation
- System Capacity and Operation Trending
- Maintenance and Service Monitoring





EASY to use Navigation & Friendly Graphics

Gardner Denver—the Total Package

Since 1859, Gardner Denver has been selling more than just great products. We've been selling solutions to the compressed air industry through a complete offering of different compressor technologies, air dryers, lubricants, piping, downstream accessories, and genuine Gardner Denver parts. Our focus on providing total system solutions ensures your focus remains on running your business.

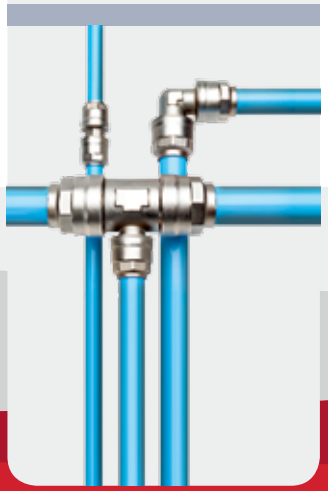
Refrigerated Air Dryers, Desiccant Air Dryers, and Medical Desiccant Air Dryer Systems

Compressed air systems require clean dry air with environmentally sound disposal of by-products. That is why Gardner Denver support does not stop at the compressor. Proper removal of contaminates is essential in preventing costly damage to equipment. Gardner Denver provides a broad range of dryers, filters, separators, drains, and other downstream products to ensure total system reliability.

COMPRESSORS

AIR DRYERS

PIPING



DOWNSTREAM ACCESSORIES

GENUINE GARDNER DENVER PARTS

Sales & Service Distributors Across America

An Extensive Network

By leveraging the extensive network of Gardner Denver factory-trained authorized local distributors—your sales, service, and technical support needs can be handled quickly and easily.

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The leader in every market we serve

by continuously improving all business processes

with a focus on innovation and velocity

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