

GARDNER DENVER | COMPRESSED AIR TECHNOLOGIES

Screw Compressors

FM 7 - 22 & FM 7 -22 RS

FM-AS 7 - 22 Air Stations





The **FM Series** from Gardner Denver

Gardner Denver has a rich history of manufacturing compressed air equipment and has proven to be at the forefront of the market.

The FM Series sources components from Gardner Denver manufacturing plants across the world to ensure it is the most budget friendly range of compressors, without compromising quality.

- **Combined air/oil cooler**
Equipped with 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 with reduced CO₂ emissions.
- **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



Pressure Range

7.5 to 13 bar



Volume Flow

0.85 to 3.48 m³/min



Motor Power

7.5 to 22 kW

Air End

Precision manufactured using industry leading CNC and laser measurement technology the high output compression, element coupled with highly efficient bearings and seals, make the FM series by Gardner Denver one of the most reliable performers in the market, operating with some of the lowest energy costs.



Everything under Control - GD Delcos BD Controller

The Gardner Denver Delcos BD Controller ensures safe, reliable operation. Efficiently monitoring system pressure and all critical components of your compressor. Providing a simple to use interface to ensure operation is optimised to suit your compressed air needs. Standard features include:

- Discharge / line pressure
- Air / oil temperature
- Total hours run and under load
- Service due indicator
- Differential pressure of major components
- Remote start stop
- Auto restart after power failure
- Status indication
- RS485 - Modbus RTU
- Able to sequence up to 8 machines on standard controller
- Monitor individual phase currents
- Phase failure / rotation protection



High Quality Inverter for Variable Speed Compressor

High quality Japanese manufactured Yaskawa inverter designed for the highest reliability in the harshest of conditions. The Yaskawa inverter minimizes running costs by:

- Only compressing the amount of air demanded, eliminating wasteful offload operation
- Maintaining a consistent system pressure avoiding constant loading and unloading of compressor and minimizing pressure fluctuations
- Eliminating starting current peaks and run on times





The Air Station

Complete air stations to meet the air quality requirements of your project or site.

- Packaged with high quality refrigerated air dryer and world class filtration.
- Mounted on certified pressure vessels, sized for optimal performance, minimizing costly starts per hour.
- Compact solutions to minimize installation foot print and cost.
- Easily accessible components to make servicing simple

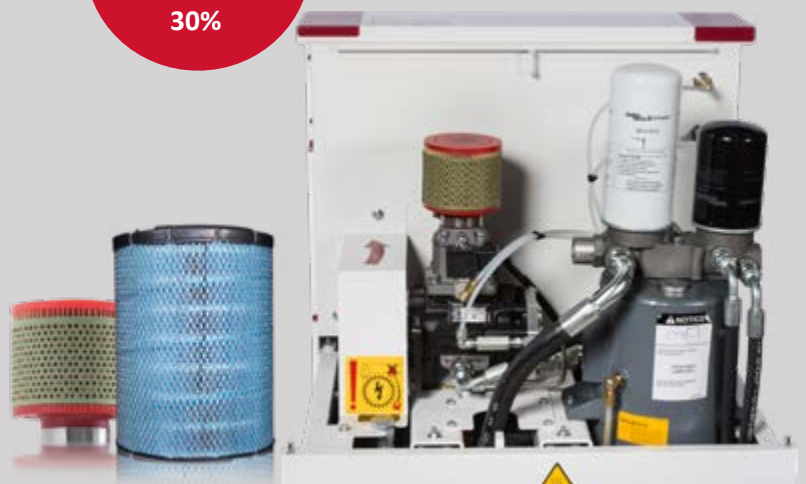


Gardner Denver Genuine Spare Parts

Filtering system
Efficient, high-quality, micro-oil quality

- With nanometer filter materials, filter accuracy of up to 1μ
- Improve air quality, oil content less than 2 ppm
- New pre-filtration system reduces the air filter load
- Increase the operating life of the overall unit under complex conditions

Extend Air End
Life by up to
30%





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.



iConn Industry 4.0 solution

The FM Series are able to be equipped with iConn as an option. iConn is the smart, proactive real-time monitoring service that delivers in-depth and realtime 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

Technical Data

FM7-22 Fixed Speed Screw Compressors

| Model Number | Pressure (Bar) | Power (kW) | Output (m ³ /min) | Noise Level dB(A) | Drive | Weight (kg) | Dimensions L x W x H (mm) |
|--------------|----------------|------------|------------------------------|-------------------|-------|-------------|---------------------------|
| FM07 | 7 | 7.5 | 1.27 | 70 | Belt | 205 | 667×630×1050 |
| | 8 | | 1.13 | | | | |
| | 10 | | 1.01 | | | | |
| | 13 | | 0.85 | | | | |
| FM11 | 7 | 11 | 1.8 | 70 | Belt | 219 | 667×630×1050 |
| | 8 | | 1.61 | | | | |
| | 10 | | 1.50 | | | | |
| | 13 | | 1.22 | | | | |
| FM15 | 7 | 15 | 2.71 | 71 | Belt | 335 | 787×658×1202 |
| | 8 | | 2.52 | | | | |
| | 10 | | 2.27 | | | | |
| | 13 | | 1.81 | | | | |
| FM18 | 7 | 18.5 | 3.18 | 72 | Belt | 361 | 787×658×1202 |
| | 8 | | 3.00 | | | | |
| | 10 | | 2.73 | | | | |
| | 13 | | 2.34 | | | | |
| FM22 | 7 | 22 | 3.7 | 72 | Belt | 367 | 787×658×1202 |
| | 8 | | 3.48 | | | | |
| | 10 | | 3.1 | | | | |
| | 13 | | 2.65 | | | | |

FM7-22 Regulated Speed Screw Compressors

| Model Number | Pressure (Bar) | Power (kW) | Output (m ³ /min) | Noise Level dB(A) | Weight (kg) | Dimensions L x W x H (mm) |
|--------------|----------------|------------|------------------------------|-------------------|-------------|---------------------------|
| FM07RS | 7 | 7.5 | 0.45 - 1.27 | 70 | 225 | 667×630×1050 |
| | 8 | | 0.46 - 1.13 | | | |
| | 10 | | 0.43 - 1.01 | | | |
| | 13 | | 0.45 - 0.91 | | | |
| FM11RS | 7 | 11 | 0.53 - 1.8 | 70 | 234 | 667×630×1050 |
| | 8 | | 0.52 - 1.61 | | | |
| | 10 | | 0.51 - 1.5 | | | |
| | 13 | | 0.49 - 1.22 | | | |
| FM15RS | 7 | 15 | 1.06 - 2.71 | 73 | 360 | 787×698×1202 |
| | 8 | | 1.01 - 2.52 | | | |
| | 10 | | 0.95 - 2.27 | | | |
| | 13 | | 0.89 - 1.8 | | | |
| FM18RS | 7 | 18 | 1.37 - 3.18 | 74 | 380 | 787×698×1202 |
| | 8 | | 1.35 - 3.00 | | | |
| | 10 | | 1.29 - 2.73 | | | |
| | 13 | | 1.31 - 2.34 | | | |
| FM22RS | 7 | 22 | 1.35 - 3.7 | 74 | 395 | 787×698×1202 |
| | 8 | | 1.05 - 3.48 | | | |
| | 10 | | 0.94 - 3.1 | | | |
| | 13 | | 0.98 - 2.65 | | | |



Technical Data

FM7-22 Fixed Speed Air Station

| Model Number | Pressure (Bar) | Power (kW) | Output (m ³ /min) | Dryer | Receiver Size (L) | Weight (kg) | Dimensions L x W x H (mm) |
|--------------|----------------|------------|------------------------------|--------|-------------------|-------------|---------------------------|
| FM07-AS | 7 | 7.5 | 1.27 | GDD14S | 275 | 336 | 1541 x 695 x 1577 |
| | 8 | | 1.13 | | | | |
| | 10 | | 1.01 | | | | |
| | 13 | | 0.85 | | | | |
| FM11-AS | 7 | 11 | 1.8 | GDD18S | 275 | 350 | 1541 x 695 x 1577 |
| | 8 | | 1.61 | | | | |
| | 10 | | 1.50 | | | | |
| | 13 | | 1.22 | | | | |
| FM15-AS | 7 | 15 | 2.71 | GDD32S | 500 | 545 | 1833 x 815 x 1825 |
| | 8 | | 2.52 | | | | |
| | 10 | | 2.27 | | | | |
| | 13 | | 1.81 | | | | |
| FM18-AS | 7 | 18.5 | 3.18 | GDD32S | 500 | 617 | 1833 x 815 x 1825 |
| | 8 | | 3.00 | | | | |
| | 10 | | 2.73 | | | | |
| | 13 | | 2.34 | | | | |
| FM22-AS | 7 | 22 | 3.7 | GDD40S | 500 | 622 | 1833 x 815 x 1825 |
| | 8 | | 3.48 | | | | |
| | 10 | | 3.1 | | | | |
| | 13 | | 2.65 | | | | |

FM7-22 Regulated Speed Air Station

| Model Number | Pressure (Bar) | Power (kW) | Output (m ³ /min) | Dryer | Receiver Size (L) | Weight (kg) | Dimensions L x W x H (mm) |
|--------------|----------------|------------|------------------------------|--------|-------------------|-------------|---------------------------|
| FM07RS-AS | 7 | 7.5 | 0.45 - 1.27 | GDD14S | 275 | 356 | 1541 x 695 x 1577 |
| | 8 | | 0.46 - 1.13 | | | | |
| | 10 | | 0.43 - 1.01 | | | | |
| | 13 | | 0.45 - 0.91 | | | | |
| FM11RS-AS | 7 | 11 | 0.53 - 1.8 | GDD18S | 275 | 365 | 1541 x 695 x 1577 |
| | 8 | | 0.52 - 1.61 | | | | |
| | 10 | | 0.51 - 1.5 | | | | |
| | 13 | | 0.49 - 1.22 | | | | |
| FM15RS-AS | 7 | 15 | 1.06 - 2.71 | GDD32S | 500 | 570 | 1833 x 815 x 1825 |
| | 8 | | 1.01 - 2.52 | | | | |
| | 10 | | 0.95 - 2.27 | | | | |
| | 13 | | 0.89 - 1.8 | | | | |
| FM18RS-AS | 7 | 18.5 | 1.37 - 3.18 | GDD32S | 500 | 636 | 1833 x 815 x 1825 |
| | 8 | | 1.35 - 3.00 | | | | |
| | 10 | | 1.29 - 2.73 | | | | |
| | 13 | | 1.31 - 2.34 | | | | |
| FM22RS-AS | 7 | 22 | 1.35 - 3.7 | GDD40S | 500 | 650 | 1833 x 815 x 1825 |
| | 8 | | 1.05 - 3.48 | | | | |
| | 10 | | 0.94 - 3.1 | | | | |
| | 13 | | 0.98 - 2.65 | | | | |



AUTHORISED DISTRIBUTER



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As a global manufacturer of air compressors, blowers, pumps and other equipment, Gardner Denver produces one of the industries largest ranges of high performance industrial screw, reciprocating, centrifugal and vane compressors and compressed air equipment. Complimented by high quality radial, side channel, liquid ring, rotary vane, rotary lobe, claw, screw, multi stage centrifugal blowers and vacuum pumps.

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