

GARDNER DENVER | COMPRESSED AIR TECHNOLOGIES

## Screw Compressors

FM 30 - 150 & FM 30 - 150 RS





## 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 CO<sub>2</sub> emissions.
- **Direct drive for optimal Efficiency**  
The efficient motor/drive/airend combination is designed to reduce specific power, which provides a benefit in the form of energy cost savings. In addition, these compressors utilise premium efficiency electric motors.
- **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 10 bar



### **Volume Flow**

5.26 to 28.1 m<sup>3</sup>/min



### **Motor Power**

30 to 150 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

## Gardner Denver Genuine Spare Parts

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

- With nanometer filter materials, filter accuracy of up to 1 $\mu$
- 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%





## Reliability. Performance. Value.

The Gardner Denver 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.

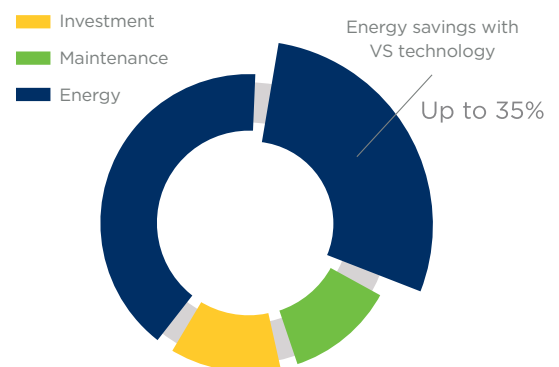
### Direct energy savings of up to 35%

The precise pressure control of the VS compressor allows for a tighter pressure band and a lower average working pressure, resulting in reduced energy consumption.

### Indirect energy savings

The lower system pressure obtained by FM-RS results in up to 10% additional yearly savings:

- Lower energy consumption of (other) base load machines
- Leakage loss is significantly reduced: e.g. leakage at 6 bar is 13% lower than at 7 bar
- Most compressed air applications consume less air at a reduced pressure



## 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





# Proactive real-time monitoring and insight for your compressed air installation

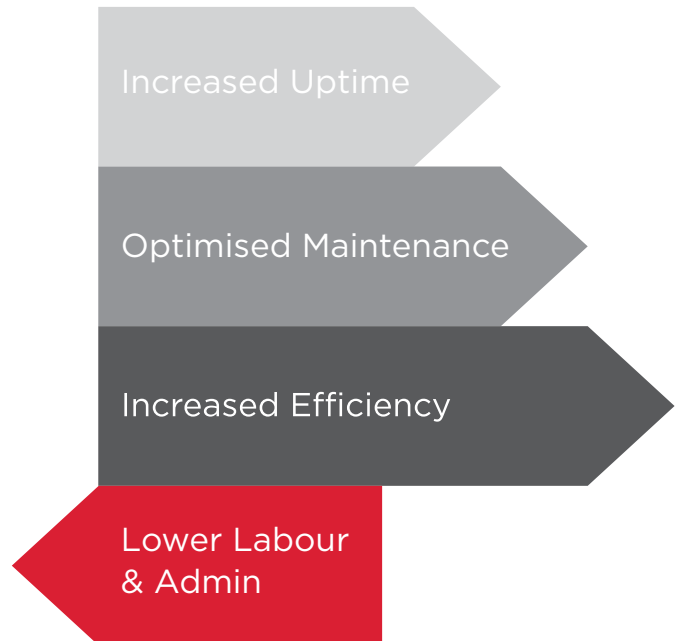
iConn gives you the peace of mind and knowledge that ensures smarter and more efficient production, at the same time providing tangible benefits to your bottom line.

## Benefits of proactive real-time monitoring and insight

- Real-time monitoring, alarms & warnings to reduce the risk of downtime
- Browser-based system for monitoring remote sites
- On-time maintenance as required optimising costs and ensuring longer machine life
- Optimal performance with machine parameter and over-time trend analysis
- Enabled for energy efficiency and production optimisation
- Gardner Denver remote monitoring and efficiency audits as a service option



iConn Industry 4.0 solution



Your **Benefits**

## Technical Data

### FM30 - 150 Fixed Speed Screw Compressors

Model Number	Pressure (Bar)	Power (kW)	Output (m <sup>3</sup> /min)	Noise Level dB(A)	Drive	Weight (kg)	Dimensions L x W x H (mm)
FM30	7	30	5.11	72	Direct	700	1554x894x1505
	8		5.08				
	10		4.48				
FM37	7	37	6.09	72	Direct	780	1554x894x1505
	8		6.05				
	10		5.01				
FM45	7	45	7.74	76	Direct	850	1554x894x1505
	8		7.60				
	10		5.95				
FM55	7	55	10.29	75	Direct	1150	2004x1179x1605
	8		10.26				
	10		9.22				
FM75	7	75	13.29	78	Direct	1200	2004x1179x1605
	8		12.11				
	10		10.22				
FM90	7	90	15.3	78	Direct	1250	2004x1179x1505
	8		14.42				
	10		13.68				
FM110	7	110	20.5	76	Direct	2800	2500x1600x1800
	8		20.4				
	10		17.7				
FM132	7	132	24.0	77	Direct	2800	2500x1600x1800
	8		23.7				
	10		21.9				
FM150	7	150	28.1	79	Direct	2800	2500x1600x1800
	8		26.8				
	10		24.0				



## Technical Data

### FM30 - 150 Regulated Speed Screw Compressors

Model Number	Pressure (Bar)	Power (kW)	Output (m <sup>3</sup> /min)	Noise Level dB(A)	Drive	Weight (kg)	Dimensions L x W x H (mm)
FM30RS	7	30	1.88 - 5.26	72	Direct	700	1554x894x1505
	8		1.85 - 5.23				
	10		1.81 - 4.52				
FM37RS	7	37	1.84 - 6.24	72	Direct	780	1554x894x1505
	8		1.84 - 6.21				
	10		1.75 - 5.01				
FM45RS	7	45	2.83 - 7.57	76	Direct	850	1554x894x1505
	8		3.73 - 7.51				
	10		2.25 - 6.12				
FM55RS	7	55	2.44 - 10.34	75	Direct	1150	2004x1179x1605
	8		2.37 - 10.07				
	10		2.24 - 9.14				
FM75RS	7	75	1.82 - 13.5	78	Direct	1200	2004x1179x1605
	8		1.76 - 12.9				
	10		1.65 - 11.91				
FM90RS	7	90	4.38 - 15.3	78	Direct	1250	2004x1179x1505
	8		4.36 - 14.40				
	10		4.30 - 13.60				
FM110RS	7	110	6.98 - 21.87	76	Direct	2900	2500x1600x1800
	8		6.91 - 20.50				
	10		7.89 - 18.31				
FM132RS	7	132	6.98 - 24.06	77	Direct	3000	2500x1600x1800
	8		6.91 - 22.80				
	10		7.89 - 20.39				
FM150RS	7	150	6.98 - 29.15	79	Direct	3000	2500x1600x1800
	8		6.91 - 27.61				
	10		7.89 - 24.64				



## Compressed Air Purification

A modern production system requires high levels of air quality. A Gardner Denver compressed air system utilises the latest technology provides an energy efficient solutions and lowers 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.



## AUTHORISED DISTRIBUTOR



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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.

# Gardner Denver

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