Ingersoll Rand FA40IG

Ingersoll Rand FA40IG Compressed Air In-Line Filter User Manual

Model: FA40IG | Part Number: 24233280

1. Introduction

The Ingersoll Rand F-Series advanced compressed air filters are designed to clean your air stream, protecting critical processes and valuable equipment. These filters are rigorously tested and engineered with superior components to provide years of reliable performance and consistently high-quality air.
This manual provides essential information for the safe and efficient installation, operation, and maintenance of your FA40IG compressed air in-line filter.

2. Key Features

- **Accurate Information:** Patented dual indicator shows differential pressure drop and operating efficiency.
- **General Protection:** Particle removal down to 1 micron, including coalesced liquid, water, and oil, providing a maximum remaining oil aerosol content of 0.1 mg/m3 (0.1 ppm) at 21°C (60°F).
- **Energy Efficiency:** Engineered to deliver low pressure drop throughout the life of the filter, reducing energy costs.
- **Optimized Airflow:** Smooth bore flow insert directs air into the filter element to minimize turbulence and pressure losses.
- **Durable Construction:** All-aluminum, precision die-cast body suitable for 80°C (176°F) and 17 bar g (250 psig) MAWP applications.
- **Easy Maintenance:** Simple visual alignment and no-touch filter element designed for easy maintenance.
- **Capacity:** 22 CFM air filter with a 1/2-inch inlet.

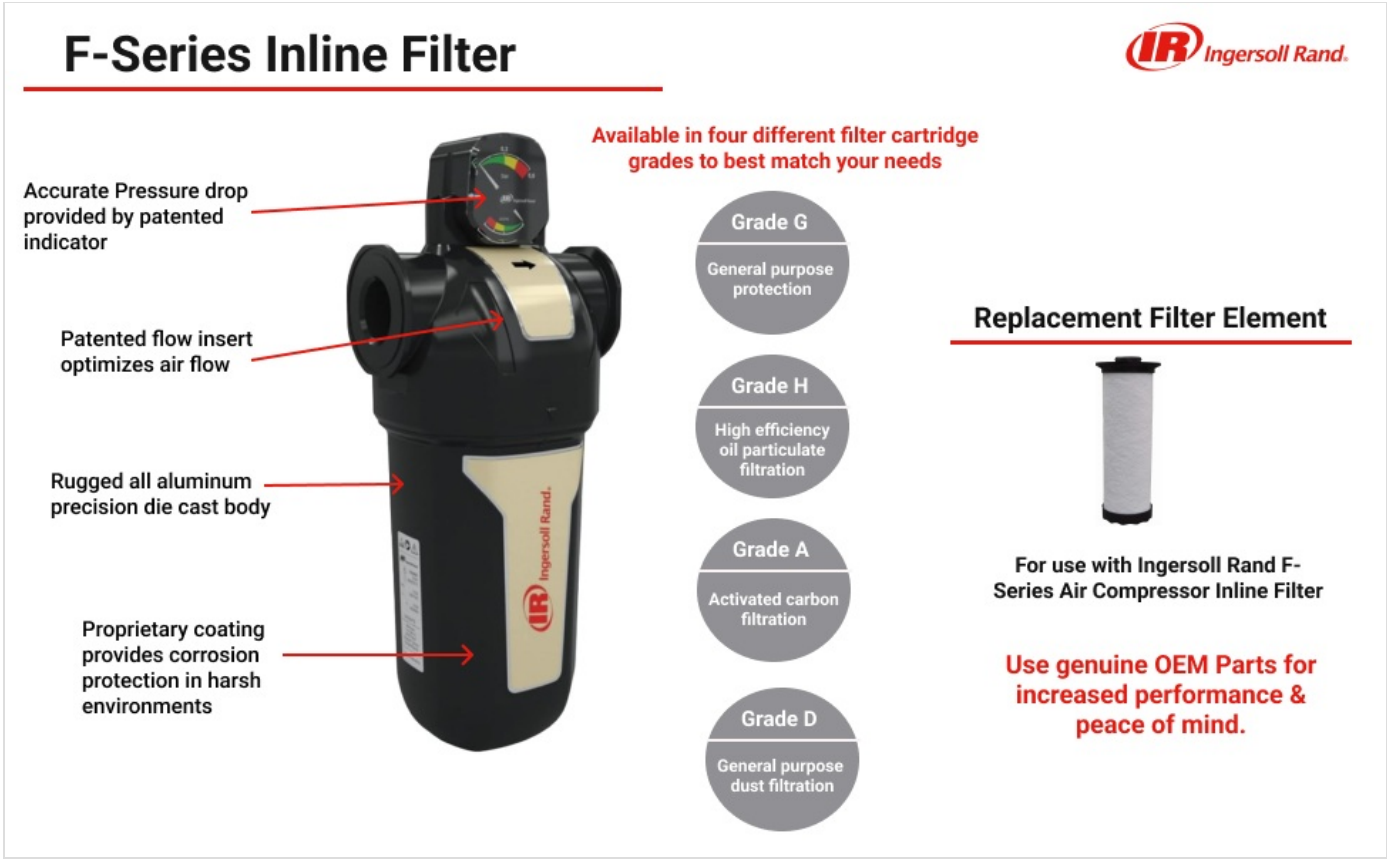


Image: Ingersoll Rand F-Series filter illustrating various filter grades and the pressure indicator.

3. Setup and Installation

Proper installation of the FA40IG in-line filter is crucial for its performance and the protection of your air system. Ensure all connections are secure and appropriate for your system's specifications.

3.1 Connection Types

The filter is available with NPT (National Pipe Taper) or BSPT (British Standard Pipe Taper) threads to suit regional requirements. Verify the correct thread type for your existing air lines before installation.

3.2 System Integration

The in-line filter should be installed downstream from the air compressor and, if applicable, after an air dryer, to effectively remove contaminants before the air reaches your tools or critical processes.

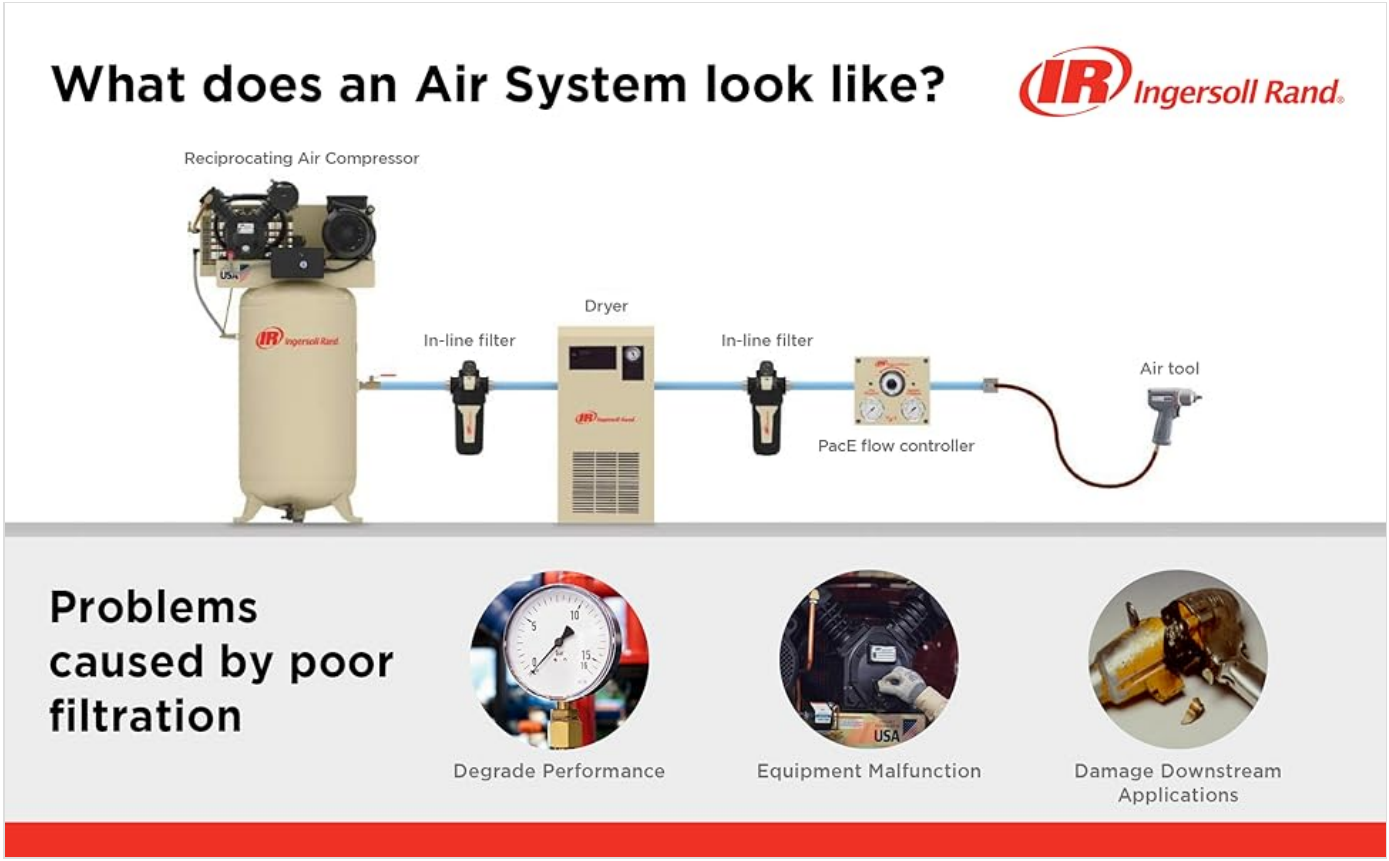


Image: Diagram illustrating the typical layout of a compressed air system, including the placement of in-line filters and an air dryer.

4. Operation

Once installed, the FA40IG filter operates continuously to purify your compressed air. The patented dual indicator provides real-time feedback on the filter's status.

4.1 Monitoring the Dual Indicator

The filter is equipped with a dual indicator that displays both differential pressure drop and operating efficiency. Monitor this indicator regularly:

- A green indication typically signifies optimal performance and low pressure drop.
- A yellow indication may suggest increasing pressure drop, indicating the filter element is approaching the end of its useful life.
- A red indication signals a significant pressure drop, meaning the filter element requires immediate replacement to maintain air quality and system efficiency.

The indicator helps you determine the optimal time for filter element replacement, preventing unnecessary energy consumption and ensuring consistent air quality.

5. Maintenance

Regular maintenance, particularly filter element replacement, is essential for the longevity and effectiveness of your FA40IG filter. The design allows for simple and quick servicing.

5.1 Filter Element Replacement

When the dual indicator shows a red signal, or as part of a scheduled maintenance plan, the filter element should be replaced. The no-touch filter design simplifies this process:

1. Ensure the compressed air system is depressurized before attempting any maintenance.
2. Unscrew the filter bowl from the filter head.
3. Carefully remove the old filter element.
4. Insert the new filter element, ensuring proper alignment.
5. Screw the filter bowl back onto the filter head until secure.
6. Repressurize the system and check for leaks.



Image: Detailed view of the filter's internal components, including the deep-pleated filter media and industrial-grade brass float drain.



Image: A replacement filter element for the Ingersoll Rand F-Series in-line air filter.

5.2 Condensate Drainage

The filter includes an industrial-grade brass float drain that reliably discharges condensate. Ensure this drain is clear and functioning correctly to prevent liquid accumulation within the filter bowl.

5.3 Instructional Video

For a visual guide on the features and maintenance of the Ingersoll Rand F-Series filters, please watch the video below:

Your browser does not support the video tag.

Video: An overview of the Ingersoll Rand F-Series filters, demonstrating their features and the simple process of replacing the filter element.

6. Troubleshooting

If you experience issues with your FA40IG filter, consider the following common troubleshooting steps:

- **Reduced Airflow:** Check the dual indicator. If it's in the red zone, the filter element is likely clogged and needs replacement.
- **Moisture in Air Line:** Ensure the float drain is not obstructed and is functioning correctly. If an air dryer is present, verify its operation.
- **Leaks:** Inspect all connections for proper sealing. Ensure the filter bowl is securely tightened after maintenance.
- **Persistent Contamination:** Verify that the correct filter grade is being used for your application. Ensure the filter element is properly installed and not damaged.



Image: Visual representation of how an in-line filter prevents common issues like system rust, tool damage, and product contamination.

7. Specifications

Attribute	Value
Brand	Ingersoll Rand
Model Name	Ingersoll Rand 24233280 F-Series Compressed Air Filter, Grade G (1 micron), 1/2-Inch Inlet, 22 CFM, Model# FA40IG
Part Number	24233280
Item Model Number	FA40IG
Air Flow Capacity	22 Cubic Feet Per Minute (CFM)
Inlet Size	1/2 inch
Material	Aluminum
Color	Beige
Product Dimensions	3"L x 3"W x 9"H
Item Weight	1.5 Pounds
Maximum Operating Pressure	250 Pound per Square Inch (psi)
Special Feature	High efficiency
Included Components	Complete Filter
Recommended Uses	Air Brushing, Drilling, Nailing, Spraying



Image: Dimensional drawing of the Ingersoll Rand FA40IG filter, showing its length, width, and height.

8. Warranty and Support

8.1 Warranty Information

The Ingersoll Rand FA40IG Compressed Air In-Line Filter comes with a**90-day warranty** on material and workmanship from the date of purchase. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, replacement parts, or further inquiries, please visit the official Ingersoll Rand website or contact their customer service department. Always refer to your product model number (FA40IG) and part number (24233280) when seeking support.

© 2024 Ingersoll Rand. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question