## Industrial Air IV7518075

# Industrial Air IV7518075 Vertical 80-Gallon Two Stage Cast Iron Industrial Air Compressor User Manual

Model: IV7518075

## 1. Introduction

This manual provides essential information for the safe operation, installation, maintenance, and troubleshooting of your Industrial Air IV7518075 Vertical 80-Gallon Two Stage Cast Iron Industrial Air Compressor. Please read this manual thoroughly before operating the unit to ensure proper use and to prevent injury or damage.

The Industrial Air IV7518075 is a stationary, heavy-duty air compressor designed for industrial applications. It features an 80-gallon ASME-certified tank and a two-stage cast iron pump, powered by a 7.5-horsepower Baldor motor operating on 230-Volts. This unit delivers up to 21.2 CFM at 175 PSI, suitable for powering multiple air tools simultaneously.

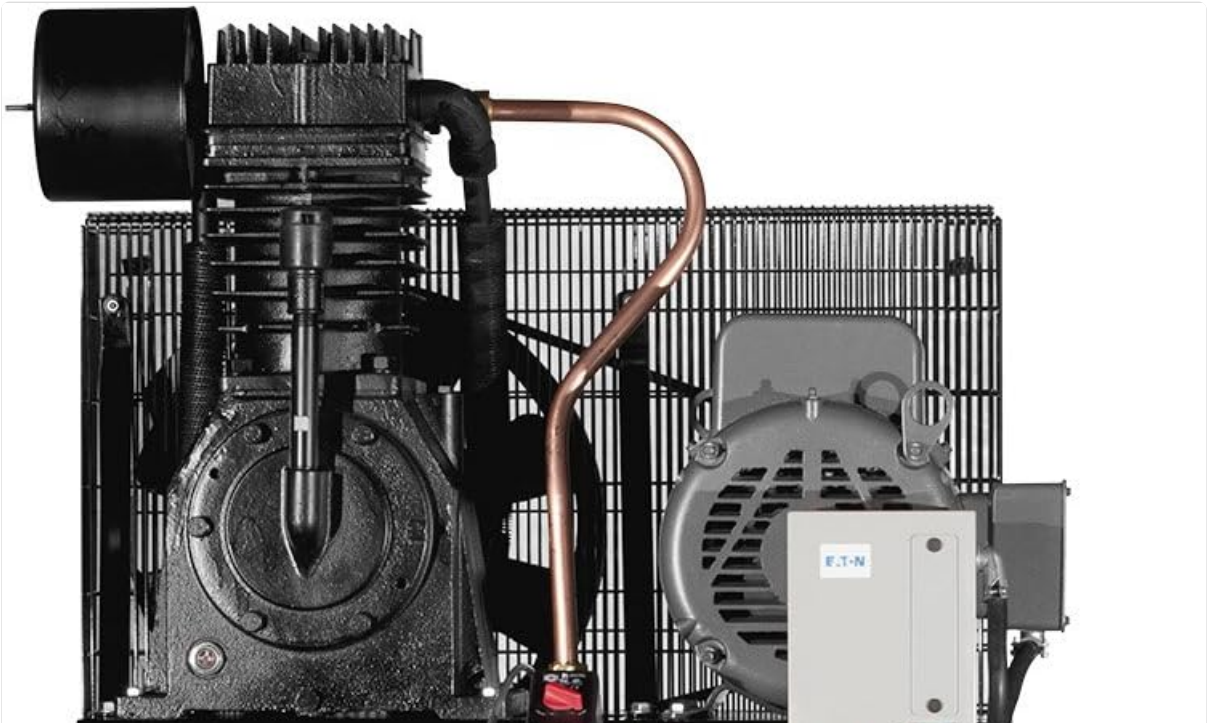


Figure 1: Industrial Air IV7518075 Vertical 80-Gallon Air Compressor. This image shows the complete compressor unit, including the vertical 80-gallon tank, the two-stage pump assembly, and the motor with its protective cage.

## 2. Important Safety Information

**WARNING: Failure to follow these instructions may result in serious injury or death.**

- **Electrical Safety:** Ensure the compressor is properly grounded. Do not operate in wet conditions. Disconnect power before servicing. The unit operates on 230 Volts (AC).
- **Pressure Safety:** Do not exceed the maximum operating pressure of 175 PSI. Never tamper with the safety valve. Always drain the air tank daily to prevent corrosion and tank failure.
- **Personal Protective Equipment (PPE):** Always wear safety glasses or goggles when operating the compressor or air tools. Use hearing protection in noisy environments.
- **Ventilation:** Operate the compressor in a well-ventilated area. Do not operate near flammable liquids or gases.
- **Hot Surfaces:** The compressor pump and motor can become very hot during operation. Avoid contact to prevent burns.
- **Children and Bystanders:** Keep children and unauthorized persons away from the compressor during operation.
- **Maintenance:** Perform all maintenance as described in this manual. Use only genuine replacement parts.

## 3. Setup and Installation

### 3.1 Unpacking and Inspection

Carefully remove the compressor from its packaging. Inspect the unit for any shipping damage. Report any damage to your dealer immediately. Ensure all components listed in the packing list are present.

### 3.2 Location Requirements

- Install the compressor on a firm, level surface capable of supporting its weight (approximately 623 pounds).
- Ensure adequate clearance around the unit for proper ventilation and maintenance access.
- Locate the compressor in a clean, dry, and well-ventilated area, away from heat sources and flammable materials.
- Maintain an ambient temperature between 40°F (4.4°C) and 100°F (37.8°C).

### 3.3 Electrical Connection

This compressor requires a dedicated 230-Volt (AC) electrical circuit. It comes with a pre-wired and mounted magnetic starter. A qualified electrician must perform the electrical installation to ensure compliance with local codes and safety standards.

- Verify that the power supply matches the compressor's voltage requirements (230V AC).
- Ensure the circuit is protected by an appropriately sized circuit breaker or fuse.
- Confirm proper grounding of the unit.

### 3.4 Initial Checks

- Check the oil level in the pump. Add compressor oil if necessary, ensuring it reaches the specified mark on the dipstick.
- Ensure all fasteners are tight.
- Confirm the drain valve at the bottom of the tank is closed.

## 4. Operating Instructions

### 4.1 Before Each Use

- Inspect the compressor for any visible damage or loose parts.
- Check the oil level.
- Ensure the air filter is clean and properly installed.
- Verify that the tank drain valve is closed.

### 4.2 Starting the Compressor

1. Connect the compressor to the appropriate 230V power supply.
2. Turn the main power switch to the "ON" position. The motor will start, and the pump will begin to build pressure in the tank.
3. Allow the compressor to reach its maximum pressure (175 PSI) and shut off automatically. This confirms the pressure switch is functioning correctly.

### 4.3 Connecting Air Tools

1. Ensure the air tool is rated for the compressor's output pressure.
2. Connect the air hose to the compressor's air outlet.
3. Attach the air tool to the other end of the hose.
4. Adjust the regulator to the desired operating pressure for your air tool.

### 4.4 Shutting Down the Compressor

1. Turn the main power switch to the "OFF" position.
2. Bleed any remaining air pressure from the tank by opening the drain valve or using an air tool until the pressure gauge reads zero.
3. Disconnect air tools and hoses.
4. Drain moisture from the air tank daily by opening the drain valve.

## 5. Maintenance

**WARNING: Always disconnect power to the compressor before performing any maintenance.**

### 5.1 Daily Maintenance

- **Drain Air Tank:** Open the tank drain valve to release accumulated moisture. This prevents corrosion and extends tank life.
- **Check Oil Level:** Ensure the oil level is within the recommended range.

### 5.2 Weekly Maintenance

- **Clean Air Filter:** Remove and clean the air filter element. Replace if damaged or excessively dirty.

- **Inspect for Leaks:** Check all air lines, fittings, and connections for leaks.

### 5.3 Monthly Maintenance

- **Change Compressor Oil:** Replace the compressor oil with a recommended air compressor oil. Refer to the pump manufacturer's specifications for oil type.
- **Inspect Safety Valve:** Briefly pull the ring on the safety valve to ensure it operates freely and reseats properly.
- **Check Belt Tension:** For belt-driven models, check and adjust belt tension as needed.

### 5.4 Annual Maintenance

- **Inspect Check Valve:** Ensure the check valve is functioning correctly.
- **Inspect Pressure Switch:** Verify the pressure switch cuts the motor off and on at the correct pressure settings.

## 6. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Compressor does not start. | No power supply.<br>Circuit breaker tripped.<br>Motor overload protector tripped.<br>Faulty pressure switch. | Check power connection.<br>Reset circuit breaker.<br>Allow motor to cool, then reset.<br>Contact qualified service personnel. |
| Compressor runs continuously or cycles too frequently. | Air leak in system.<br>Faulty check valve.<br>Pressure switch out of adjustment. | Locate and repair leaks.<br>Inspect/replace check valve.<br>Contact qualified service personnel. |
| Low air pressure output. | Air leaks.<br>Clogged air filter.<br>Worn pump components.<br>Improper regulator setting. | Repair leaks.<br>Clean or replace air filter.<br>Contact qualified service personnel.<br>Adjust regulator. |
| Excessive noise or vibration. | Loose components.<br>Worn bearings.<br>Improper belt tension. | Tighten all fasteners.<br>Contact qualified service personnel.<br>Adjust belt tension. |

## 7. Specifications

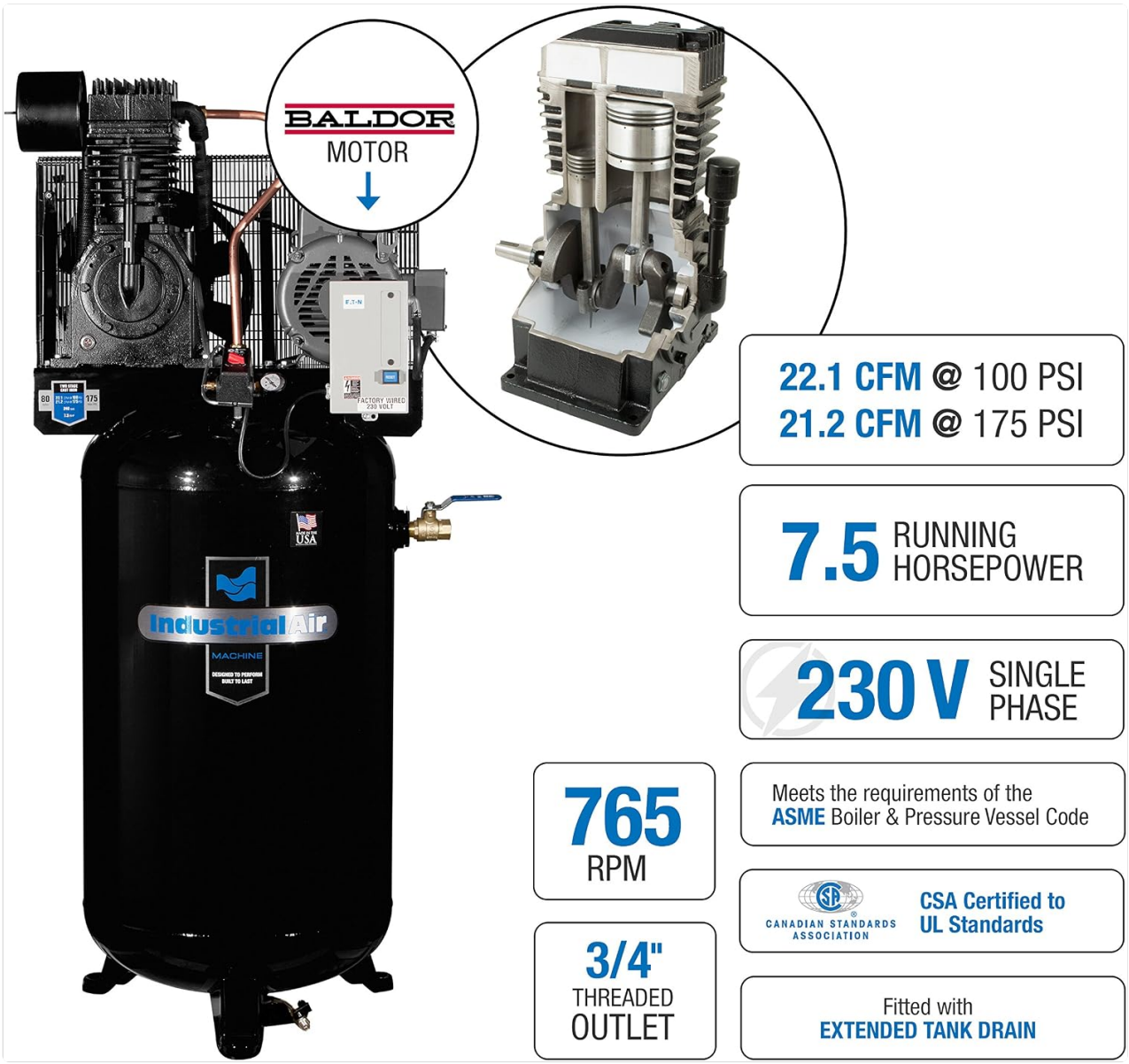


Figure 2: Key specifications and features of the Industrial Air IV7518075 compressor, highlighting the Baldor motor, CFM ratings, horsepower, voltage, RPM, and outlet size.

| Feature | Detail |
|---|---|
| Model | IV7518075 |
| Brand | Industrial Air |
| Tank Capacity | 80 Gallons (ASME Certified) |
| Compressor Type | Two Stage, Cast Iron |
| Motor Horsepower | 7.5 HP (Baldor Motor) |
| Voltage | 230 Volts (AC) |
| Air Flow Capacity (CFM @ PSI) | 22.1 CFM @ 100 PSI / 21.2 CFM @ 175 PSI |
| Maximum Operating Pressure | 175 PSI |
| Included Components | Pre-wired and mounted magnetic starter |

| Feature | Detail |
| --- | --- |
| Product Dimensions (L x W x H) | 40.25 x 32.25 x 80 inches |
| Item Weight | 623 Pounds |
| Recommended Uses | Air Brushing, Drilling, Nailing, Spraying |
| Manufacturer | MAT Holdings, Inc. |
| UPC | 846212008379 |

## 8. Warranty Information

The Industrial Air IV7518075 Vertical 80-Gallon Two Stage Cast Iron Industrial Air Compressor comes with a **2-Year Limited Warranty**.
This warranty covers defects in materials and workmanship under normal use and service. For specific terms, conditions, and exclusions, please refer to the warranty card included with your product or contact Industrial Air customer support.
Keep your proof of purchase for warranty claims.

## 9. Customer Support

For technical assistance, replacement parts, or warranty inquiries, please contact Industrial Air customer support.
**Manufacturer:** MAT Holdings, Inc.
Please have your model number (IV7518075) and serial number ready when contacting support.
For the most up-to-date contact information, please visit the official Industrial Air website or refer to the documentation included with your purchase.