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## Ingco AC20248

# Ingco 24L Air Compressor AC20248 Instruction Manual

Model: AC20248

## 1. INTRODUCTION

Thank you for choosing the Ingco 2HP 24L Air Compressor AC20248. This robust and efficient tool is designed for a variety of applications, from powering pneumatic tools to inflating tires. To ensure safe and optimal performance, please read this instruction manual thoroughly before operating the compressor. Keep this manual for future reference.

## 2. SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

### 2.1 General Safety

- **Read all instructions:** Familiarize yourself with the controls and proper use of the equipment.
- **Work area:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.
- **Keep children away:** Do not allow children or untrained persons to operate the compressor.
- **Wear appropriate safety gear:** Always wear safety glasses or goggles. Hearing protection is recommended due to the 96 Decibels noise level.
- **Stable surface:** Operate the compressor on a stable, level surface to prevent tipping.

### 2.2 Electrical Safety

- **Power source:** Ensure the power source matches the compressor's requirements (240 Volts AC).
- **Avoid wet conditions:** Do not operate the compressor in wet or damp environments.
- **Grounding:** Ensure the compressor is properly grounded.
- **Extension cords:** If an extension cord is necessary, use one rated for outdoor use and of adequate gauge to prevent voltage drop.

### 2.3 Pressure Safety

- **Maximum pressure:** Do not exceed the maximum operating pressure of 8 Bars.
- **Pressure relief valve:** Never tamper with or remove the pressure relief valve.
- **Drain tank:** Always drain the air tank after each use to prevent rust and maintain tank integrity.

- **Automatic shut-off:** The compressor is equipped with an automatic shut-off mechanism to prevent overheating and over-pressurization. Do not bypass this feature.

## 3. PRODUCT OVERVIEW

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The Ingco AC20248 is a portable air compressor featuring a 2HP motor and a 24-liter tank. It is designed for high efficiency and reliable performance.

### 3.1 Key Features

- Robust 2HP motor for ample power.
- 24-liter tank for sufficient air storage.
- High efficiency and reliable performance.
- Compact and lightweight design with built-in wheels and handle for portability.
- Durable construction with high-quality materials.
- Fast recovery time for continuous operation.
- Pressure regulator and gauge for precise air pressure control.
- Safety features including automatic shut-off.
- Reduced noise levels for a quieter working environment.

### 3.2 Components

Familiarize yourself with the main components of your air compressor:

- **Air Tank:** Stores compressed air (24 Litres capacity).
- **Motor:** 2HP electric motor.
- **Pump:** Compresses air into the tank.
- **Pressure Switch:** Automatically starts and stops the motor to maintain tank pressure.
- **Pressure Regulator:** Adjusts the output air pressure to the tool.
- **Pressure Gauges:** Display tank pressure and regulated output pressure.
- **Safety Valve:** Releases excess pressure if the pressure switch fails.
- **Drain Valve:** Located at the bottom of the tank for draining condensed water.
- **Wheels and Handle:** For easy transportation.



Figure 1: Full view of the Ingco 24L Air Compressor AC20248, showing the tank, motor, and wheels.



Figure 2: Close-up of the control panel, including pressure gauges, regulator, and handle.

## 4. SETUP

Follow these steps to set up your air compressor for first use.

### 4.1 Unpacking

- Carefully remove the compressor from its packaging.
- Inspect for any shipping damage. If damaged, do not operate and contact your supplier.
- Remove all packing materials.

### 4.2 Attaching Wheels and Handle

The compressor comes with wheels and a handle for portability. Attach them according to the diagrams in the separate assembly guide (if provided) or by securing them to the designated mounting points using the included hardware.

### 4.3 Initial Oil Check/Fill

This model features an oil-lubricated system. Before first use, and periodically thereafter:

- Locate the oil sight glass or dipstick on the pump.
- Ensure the oil level is between the minimum and maximum marks.
- If low, add appropriate compressor oil (refer to specifications for oil type) until the correct level is reached. Do not overfill.

## 4.4 Electrical Connection

- Ensure the power switch is in the 'OFF' position.
- Plug the power cord into a grounded 240 Volts AC outlet.

## 5. OPERATING INSTRUCTIONS

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Follow these steps for safe and effective operation of your air compressor.

### 5.1 Starting the Compressor

- Ensure the drain valve at the bottom of the tank is closed.
- Turn the power switch to the 'ON' position.
- The motor will start, and the pump will begin to fill the air tank.
- The compressor will automatically shut off once the maximum tank pressure is reached.

### 5.2 Adjusting Output Pressure

- Connect your air tool to the quick-connect coupler.
- Turn the pressure regulator knob (usually red or black) clockwise to increase pressure and counter-clockwise to decrease pressure.
- Monitor the regulated pressure gauge to set the desired pressure for your tool.

### 5.3 Connecting Pneumatic Tools

- Ensure the air tool is rated for the pressure you are setting.
- Connect the air hose to the regulated output port.
- Connect the other end of the air hose to your pneumatic tool.

### 5.4 Applications

This compressor is suitable for a wide range of applications, including:

- Tire inflation for vehicles, bicycles, and sports equipment.
- Powering pneumatic nailing and stapling guns.
- Operating paint sprayers.
- General cleaning and dusting with an air blow gun.

### 5.5 Shutting Down

- Turn the power switch to the 'OFF' position.
- Unplug the power cord from the outlet.
- Bleed any remaining air from the hose and tool.
- Open the drain valve at the bottom of the tank to release condensed moisture. Close it after draining.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and efficient operation of your air compressor.

### 6.1 Daily Maintenance

- **Drain Tank:** Always drain condensed water from the air tank after each use. This prevents rust and corrosion.
- **Check Oil Level:** Verify the oil level before each use.

### 6.2 Weekly/Monthly Maintenance

- **Clean Air Filter:** Inspect and clean the air filter. A clogged filter reduces compressor efficiency. Replace if damaged.
- **Check for Leaks:** Listen for air leaks around fittings and connections. Tighten as necessary.

### 6.3 Quarterly/Annually Maintenance

- **Change Oil:** Replace the compressor oil according to the manufacturer's recommendations or at least annually, depending on usage.
- **Inspect Safety Valve:** Briefly pull the ring on the safety valve to ensure it operates freely.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your air compressor.

Problem	Possible Cause	Solution
Compressor does not start	No power; tripped circuit breaker; faulty switch	Check power connection; reset breaker; contact service.
Compressor runs continuously or frequently	Air leak; pressure switch malfunction; clogged air filter	Check for leaks and tighten connections; inspect pressure switch; clean/replace air filter.
Low air pressure at outlet	Regulator set too low; air leak; clogged air filter	Adjust regulator; check for leaks; clean/replace air filter.
Excessive noise or vibration	Loose components; low oil level; worn pump parts	Tighten fasteners; check/add oil; contact service for pump inspection.
Water in air line	Tank not drained regularly	Drain tank after each use.

## 8. SPECIFICATIONS

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Technical specifications for the Ingco 24L Air Compressor AC20248.

Specification	Value
Brand	Ingco
Model Name	AC20248
Motor Horsepower	2 HP

Specification	Value
Tank Volume	24 Litres
Voltage	240 Volts (AC)
Power Source	Corded Electric
Maximum Operating Pressure	8 Bars
Noise Level	96 Decibels
Product Dimensions (L x W x H)	70L x 30W x 61H Centimeters
Item Weight	26 kg 500 g
Special Feature	Portable
Included Components	1 Pcs 2HP Air Compressor

## 9. WARRANTY AND SUPPORT

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For warranty information, please refer to the warranty card included with your product or contact your retailer. For technical support or service inquiries, please contact the manufacturer or authorized service center.

**Manufacturer:** AVENGERS ENTERPRISES, INGCO POWER TOOLS PVT. LTD.