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› Goodman Air Handler ARUF Series, Multi-position, Multi-speed ARUF37C14 Instruction Manual

Goodman ARUF37C14

Goodman Air Handler ARUF Series Instruction Manual

Model: ARUF37C14

INTRODUCTION TO YOUR AIR HANDLER

The Goodman Air Handler ARUF Series is a crucial component of your home's heating, ventilation, and air conditioning (HVAC) system. It is primarily responsible for circulating conditioned air throughout your home's ductwork, working in conjunction with an outdoor air conditioner or heat pump. This manual provides essential information for understanding the operation, maintenance, and features of your ARUF37C14 unit.



Figure 1: Goodman ARUF Series Multi-position Air Handler Unit. This dark gray unit features the Goodman logo in red on its front panel and is designed for versatile installation configurations.

UNDERSTANDING AIR HANDLER OPERATION

An air handler assists in regulating the circulation of indoor air and the temperature of the air in your home that you have

set on your thermostat or control system. It is an essential part of your "split" heating and cooling system.

How an Air Handler Works

Indoor air enters the air handler from the central return duct. Next, the air passes through a filter to remove contaminants before moving through the air handler's components. Then, the air passes through the evaporator coil to be cooled or the heating coil to be warmed. After the air is conditioned, the blower motor and fan push the air into the central supply duct to be distributed to the house.

Your browser does not support the video tag.

Video 1: All you need to know about Air Handlers. This video provides a comprehensive overview of air handlers, explaining their function, necessity, internal workings, and various types. It visually demonstrates the air circulation process and highlights key components.

KEY COMPONENTS

The ARUF37C14 air handler comprises several critical components that work together to condition and circulate air:

- **Blower Motor:** The blower motor powers a fan to move the conditioned air out of the air handler and into the ductwork to be distributed to the house. Blower motors come in different speeds: Single Speed, Dual Speed, Variable Speed.
- **Evaporator Coil:** The evaporator coil is an air conditioner component. It is connected to the outdoor condenser by refrigerant lines. When the air conditioner is switched on at the thermostat, refrigerant runs through the evaporator coil and absorbs heat and humidity from the air passing over the coil.
- **Filter:** The air filter cleans the air entering the handler before it comes in contact with the coils or the blower. The filter traps contaminants such as dust, hair, and other debris to preserve the air handler's components and improve the home's air quality. The air filter's MERV rating identifies how adept the filter is at trapping microscopic contaminants.
- **Heat Exchanger Coil (Optional):** The heat exchanger coil or electric heat kit is an optional component that allows an air handler to heat the air. This component contains an electric heating element that provides supplemental heat to the air blowing over it.

INSTALLATION AND SETUP

The Goodman ARUF Series air handler is designed for multi-positional installation, offering flexibility for various home configurations. These air handlers can be installed vertically for upflow or downflow and horizontally for right-flow or left-flow. Proper installation is crucial for optimal performance and warranty validity.

Types of Air Handler Configurations:

- **Multi-positional Air Handlers:** These are conventional and can be installed in various configurations, including vertically (upflow or downflow) and horizontally (right-flow or left-flow).
- **Wall Mounted Air Handlers:** A wall-mounted air handler can be mounted on a wall or wall studs. They are shorter and wider than multi-positional handlers and fit well in tight spaces like a utility closet.
- **Ceiling Mounted Air Handlers:** Ceiling-mounted air handlers are installed above ceilings. They are significantly smaller than wall-mounted air handlers and are helpful when space is limited. Ceiling-mounted air handlers are installed in homes without ductwork.

It is highly recommended that installation be performed by a qualified HVAC technician to ensure safety, compliance with local codes, and to maintain the product warranty.

MAINTENANCE

Regular maintenance is essential to ensure the longevity and efficient operation of your Goodman air handler. Key maintenance tasks include:

- **Filter Replacement:** Check and replace the air filter regularly (typically every 1-3 months, depending on usage and household conditions). A dirty filter restricts airflow and reduces efficiency.
- **Coil Cleaning:** The evaporator coil should be inspected and cleaned periodically by a professional to prevent buildup of dirt and debris, which can impede heat transfer.
- **Drain Pan and Line:** Ensure the condensate drain pan is clear and the drain line is not clogged to prevent water overflow and potential damage.
- **Professional Inspection:** Schedule annual maintenance with a qualified HVAC technician. They can perform thorough inspections, clean internal components, check refrigerant levels, and ensure all parts are functioning correctly.

TROUBLESHOOTING

If you experience issues with your air handler, consider the following common troubleshooting steps. For complex problems, always contact a qualified technician.

- **No Airflow:** Check if the thermostat is set correctly and if the unit has power. Ensure the air filter is not excessively clogged.
- **Insufficient Heating/Cooling:** Verify thermostat settings. Check the air filter. Ensure outdoor unit (if applicable) is functioning.
- **Unusual Noises:** Strange noises can indicate a problem with the blower motor, fan, or other internal components. Turn off the unit and contact a technician.
- **Water Leaks:** Check the condensate drain line for clogs. Ensure the unit is level.

Do not attempt complex repairs yourself. Contact a qualified HVAC professional for diagnosis and repair to avoid injury or further damage to the unit.

SPECIFICATIONS

Feature	Detail
Model Number	ARUF37C14
Item Weight	130 pounds
Coil Type	All-aluminum evaporator coil
Blower Motor	Direct drive, multi-speed PSC
Cabinet Air Leakage	Less than 2.0% at 1.0 inch H2O (ASHRAE 193)
Cabinet Air Leakage	Less than 1.4% at 0.5 inch H2O (ASHRAE 193)
Certifications	AHRI certified; ETL listed
First Available Date	March 30, 2022

WARRANTY AND SUPPORT

This Goodman Air Handler ARUF37C14 comes with a **10-year parts limited warranty** when installed by a qualifying technician and then registered on the manufacturer's website. Please ensure you follow the registration process to activate your warranty.

For further support, technical assistance, or to locate a qualified service provider, please visit the [Goodman Store](#) or consult the official Goodman website.

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