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Carrier 38GS

Carrier Compact Condensing Units 38GS User Manual

MODEL 38GS SERIES

Publication Date: January 1, 1973

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of Carrier Compact Condensing Units, Model 38GS. These air-cooled hermetic units are designed to provide efficient cooling for residential and light commercial applications.

The 38GS series is compatible with Weathermaker® Systems utilizing 28 Series Coils and 40 Series Fan Coils, offering cooling capacities ranging from 14,000 to 60,000 Btuh.

Please read this manual thoroughly before attempting any installation, operation, or maintenance procedures to ensure safe and efficient use of the unit.

2. Safety Information

Always adhere to local and national electrical codes. Installation and servicing should only be performed by qualified personnel.

- Disconnect all power to the unit before performing any maintenance or service.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure proper grounding of the unit to prevent electrical shock.
- Do not operate the unit with damaged components or wiring.
- Keep children and pets away from the unit during operation and maintenance.

3. Setup and Installation

Proper installation is crucial for the performance and longevity of your condensing unit. Consult a certified HVAC technician for installation.

3.1 Site Selection

- Choose a level, stable surface capable of supporting the unit's weight.
- Ensure adequate clearance around the unit for proper airflow and service access.
- Avoid locations prone to excessive dust, debris, or direct exposure to harsh weather conditions without proper shielding.

3.2 Electrical Connections

All electrical wiring must comply with national and local codes. Refer to the unit's wiring diagram for specific connections.

- Verify the power supply voltage matches the unit's requirements.
- Install a dedicated circuit breaker for the unit.
- Ensure all connections are secure and insulated.

3.3 Refrigerant Piping

Refrigerant lines must be properly sized, evacuated, and charged by a qualified technician.

- Use clean, dry, refrigeration-grade copper tubing.
- Minimize bends and ensure proper insulation of suction lines.
- Perform a leak test after all connections are made.

4. Operating Instructions

Once installed, your Carrier condensing unit operates in conjunction with your indoor coil and thermostat to provide cooling.

4.1 Initial Startup

1. Ensure all service valves are open.
2. Restore power to the unit at the circuit breaker.
3. Set your thermostat to the "Cool" mode and desired temperature.
4. The unit should begin operation within a few minutes.

4.2 Normal Operation

The unit will cycle on and off as needed to maintain the set temperature. Ensure the outdoor unit's fan is unobstructed and operating freely.

4.3 Shutting Down the Unit

For extended periods of non-use (e.g., winter), it is recommended to turn off the unit at the thermostat and disconnect power at the circuit breaker.

5. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your unit. Perform these checks periodically.

5.1 Coil Cleaning (Annually)

The outdoor coil can accumulate dirt and debris, reducing efficiency. Carefully clean the coil fins with a soft brush or water hose. Avoid bending the fins.

5.2 Fan Blade Inspection (Annually)

Inspect the fan blades for any damage or accumulation of debris. Ensure they spin freely without obstruction.

5.3 Electrical Connections (Annually)

Have a qualified technician inspect all electrical connections for tightness and signs of wear.

5.4 Professional Servicing (Annually)

It is highly recommended to have a qualified HVAC technician perform a comprehensive service check annually, including refrigerant level verification and system diagnostics.

6. Troubleshooting

This section provides solutions for common issues. For complex problems, contact a qualified service technician.

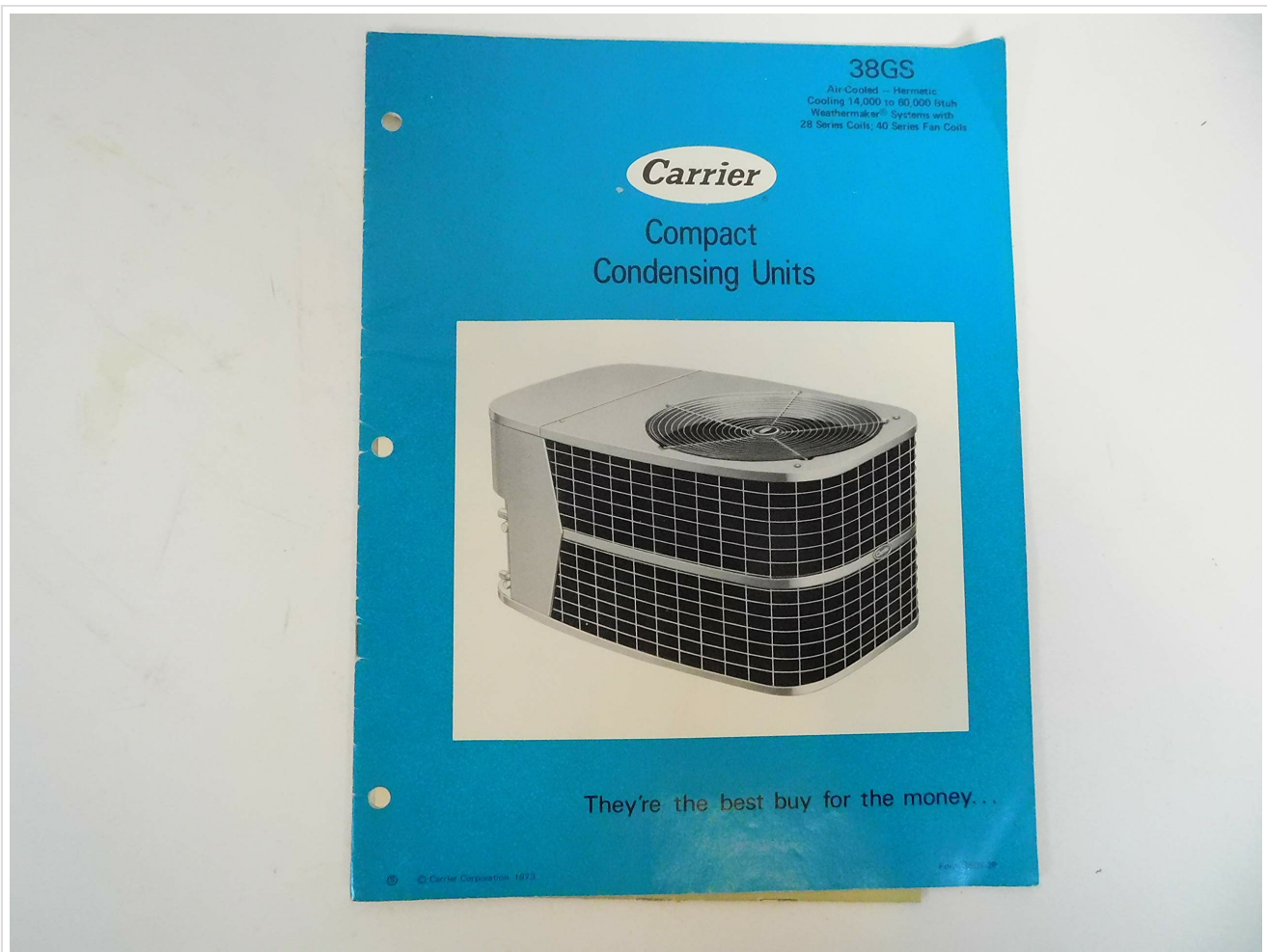
Problem	Possible Cause	Solution
Unit not starting	No power; Thermostat setting incorrect; Blown fuse/tripped breaker	Check power supply; Adjust thermostat; Reset breaker/replace fuse
Insufficient cooling	Dirty coils; Low refrigerant; Obstructed airflow	Clean coils; Contact technician for refrigerant check; Clear obstructions
Unusual noises	Loose fan blade; Debris in fan; Compressor issue	Inspect fan; Remove debris; Contact technician

7. Specifications

Key technical specifications for the Carrier Compact Condensing Units 38GS series:

- **Model Series:** 38GS
- **Type:** Air-Cooled Hermetic Condensing Unit
- **Cooling Capacity:** 14,000 to 60,000 Btuh (British thermal units per hour)
- **Compatible Indoor Systems:** Weathermaker® Systems with 28 Series Coils; 40 Series Fan Coils
- **Power Supply:** Varies by specific model (refer to unit nameplate)
- **Refrigerant Type:** Varies by specific model (refer to unit nameplate)

8. Product Image



This image displays the front cover of the user manual for the Carrier Compact Condensing Units, Model 38GS. The cover is blue and features an illustration of the condensing unit, along with the Carrier logo and product model number.

9. Warranty and Support

Carrier products are manufactured to high standards and typically come with a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your unit or contact Carrier customer service.

For technical assistance, parts, or service, please contact your authorized Carrier dealer or visit the official Carrier website. When contacting support, please have your unit's model and serial number readily available.

Carrier Customer Support: www.carrier.com/contact-us

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This manual is for informational purposes only. Specifications are subject to change without notice.