

Garrison MBR1200AA1HKR15

Garrison 15 KW Electric Furnace MBR1200AA1HKR15 User Manual

Model: MBR1200AA1HKR15 | **Brand:** Garrison

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Garrison 15 KW Electric Furnace, model MBR1200AA1HKR15. Please read this manual thoroughly before attempting any installation or operation. Retain this manual for future reference.

Important: Installation of this equipment should only be performed by a qualified professional to ensure proper setup, safe operation, adherence to all federal, state, and local codes, and to maintain warranty validity.

2. SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of fire, electric shock, or injury.

- **Electrical Hazard:** Disconnect all power to the unit before performing any service or maintenance. Failure to do so can result in severe electrical shock or death.
- **Professional Installation:** This unit requires professional installation by a certified HVAC technician. Improper installation can lead to equipment damage, unsafe operation, and void the warranty.
- **Clearances:** Maintain adequate clearances around the unit as specified in local building codes and the detailed installation guide provided with the product.
- **Ventilation:** Ensure proper ventilation as required for electric furnace operation.
- **Component Integrity:** Do not operate the unit if any components are damaged or missing.

3. PRODUCT OVERVIEW

The Garrison MBR1200AA1HKR15 is a 15 KW Electric Forced Air Furnace designed for efficient heating in residential and commercial applications. It features a multi-speed PSC blower motor and is suitable for upflow, downflow, and horizontal installations.

Key Features:

- Direct drive, multi-speed PSC blower motor.

- Compatible with cooling or heat pump applications in upflow, downflow, and horizontal configurations.
- Blower section can function as an electric furnace.
- Control board includes a fan delay in cooling mode and is isolated from the air stream.
- Intended for use with CAPF/CHPF cased evaporator coils.
- AHRI certified; ETL listed.
- Painted, galvanized steel cabinet with a galvanized, leather grain-embossed finish.
- 21-inch depth for easier attic access.
- Foil-faced insulation glued in place to reduce operating sound and cabinet condensation.

Product Image:



Figure 1: Front-side view of the Garrison 15 KW Electric Furnace, model MBR1200AA1HKR15. The unit is a compact, dark gray rectangular box with the 'Garrison' logo visible on the front panel.

4. INSTALLATION

Warning: This electric furnace must be installed by a qualified, licensed HVAC professional. Improper installation can lead to serious injury, property damage, and will void the manufacturer's warranty.

Refer to the comprehensive installation guide provided with your unit for detailed instructions, wiring diagrams, and specific requirements. Key considerations include:

- **Location:** Select a suitable location that allows for proper airflow, maintenance access, and adherence to local codes. The unit supports upflow, downflow, and horizontal configurations.
- **Ductwork:** Connect the unit to appropriately sized and sealed ductwork.
- **Electrical Connections:** Ensure all electrical wiring is performed by a licensed electrician, conforming to national and local electrical codes. The unit requires a dedicated electrical circuit.
- **Evaporator Coils:** This unit is intended for use with CAPF/CHPF cased evaporator coils.
- **Condensate Drain:** If applicable (for cooling applications), install a proper condensate drain line.
- **Heat Kits:** The unit is compatible with 3 kW – 21 kW electric heat kits. Ensure the correct heat kit (HKR15 for 15KW) is installed and wired properly.

5. INITIAL SETUP

After professional installation, the following steps are typically performed during initial setup:

1. **Power Connection:** Ensure all electrical connections are secure and the main power supply to the unit is turned on.

2. **Thermostat Configuration:** Program your thermostat according to its manufacturer's instructions and the specific requirements of your HVAC system.
3. **System Test:** A qualified technician will perform a system test to verify proper operation of the blower, heating elements, and safety controls.
4. **Airflow Adjustment:** Adjust airflow settings as needed for optimal performance and comfort.

6. OPERATING INSTRUCTIONS

The Garrison Electric Furnace operates in conjunction with your home's thermostat. Once installed and configured, operation is generally automatic.

- **Heating Mode:** Set your thermostat to "Heat" mode and select your desired temperature. The furnace will activate to maintain the set temperature.
- **Fan Mode:** Your thermostat may have a "Fan On" setting, which will run the blower continuously without heating. The "Fan Auto" setting will run the blower only when heating or cooling is active.
- **Cooling Mode (with compatible AC unit):** If connected to an air conditioning unit, set your thermostat to "Cool" mode. The furnace's blower will circulate air for cooling. The control board includes a fan delay in cooling mode.

For specific thermostat operation, refer to your thermostat's user manual.

7. MAINTENANCE

Regular maintenance is crucial for the longevity and efficient operation of your electric furnace. Always disconnect power before performing any maintenance.

User Maintenance (Monthly/Quarterly):

- **Filter Replacement/Cleaning:** Check and replace or clean the air filter monthly, or more frequently if the unit is in constant use or in dusty environments. A dirty filter restricts airflow and reduces efficiency.
- **Clearances:** Ensure that the area around the furnace remains clear of obstructions to allow for proper airflow.

Professional Maintenance (Annually):

It is recommended to have a qualified HVAC technician inspect and service your furnace annually. This typically includes:

- Checking electrical connections and components.
- Inspecting heating elements for wear.
- Lubricating moving parts (if applicable).
- Verifying proper thermostat operation.
- Cleaning the blower assembly.
- Checking for cabinet air leakage.

8. TROUBLESHOOTING

Before calling for service, review these common issues and solutions. Always disconnect power before inspecting the unit.

Problem	Possible Cause	Solution
No Heat	Thermostat set incorrectly. Power supply off. Blown fuse or tripped circuit breaker. Dirty air filter. Safety limit switch tripped.	Check thermostat settings. Ensure main power switch is ON. Reset breaker or replace fuse. Replace or clean air filter. Contact a qualified technician.
Blower Not Running	Thermostat fan setting incorrect. Power issue. Motor malfunction.	Set thermostat to "Fan On" or "Auto" with heating/cooling call. Check power supply and breakers. Contact a qualified technician.
Insufficient Heat	Dirty air filter. Blocked return or supply vents. Undersized unit for space.	Replace or clean air filter. Clear all vents. Consult with an HVAC professional for sizing verification.

For issues not listed or if solutions do not resolve the problem, contact a qualified HVAC service technician.

9. SPECIFICATIONS

Brand	Garrison
Model Number	MBR1200AA1HKR15
Heating Capacity	15 KW (51,180 BTU's)
Product Dimensions	21"D x 17.5"W x 26"H
Item Weight	62 Pounds
Material	Alloy Steel
Fuel Type	Electric
Mounting Type	Freestanding (or adaptable for various configurations)
Efficiency	Energy Efficiency (AHRI certified)
Certifications	AHRI certified; ETL listed

10. WARRANTY AND SUPPORT

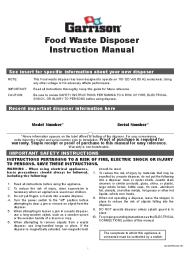
For warranty information, please refer to the documentation provided with your purchase or contact Garrison customer support. Warranty claims typically require proof of professional installation. For technical support or service inquiries, please contact your installing HVAC professional or Garrison customer service.

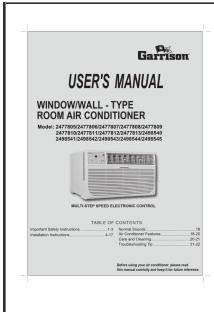
Customer Support: (888) 515-5124 (as per product description)

Always provide your model number (MBR1200AA1HKR15) when contacting support.

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Related Documents - MBR1200AA1HKR15

	<p><u>Garrison 52-2544-0 7-Day Programmable Thermostat User Manual</u></p> <p>User manual for the Garrison 52-2544-0 7-Day Programmable Thermostat. Learn about installation, programming, features like 7-day scheduling, and troubleshooting for electric baseboard and radiant heating systems.</p>
	<p><u>Garrison Rugged 2.4GHz RFID Active Tag (HKRAT-RT02) User Manual</u></p> <p>User manual for the Garrison Rugged 2.4GHz RFID Active Tag (Model: HKRAT-RT02) by Hong Kong RFID Ltd. This document covers features, applications, installation, troubleshooting, and specifications.</p>
	<p><u>Garrison Food Waste Disposer Instruction Manual</u></p> <p>Comprehensive instruction manual for Garrison Food Waste Disposers, covering installation, operation, maintenance, and troubleshooting. Includes safety warnings and warranty information.</p>
	<p><u>Garrison Loop LED Curing Light Quick Start Guide</u></p> <p>Get started quickly with the Garrison Loop LED Curing Light. This guide covers initial setup, button operations, programming modes, and specifications for dental professionals.</p>
	<p><u>Garrison Window Air Conditioner Models 2498534, 2498535, 2498536 - Specifications and Features</u></p> <p>Detailed specifications, features, certifications, and warranty information for Garrison 8, 10, and 12K BTU Window Air Conditioners (Models 2498534, 2498535, 2498536), 2016 ENERGY STAR Certified.</p>



[Garrison Window/Wall Air Conditioner User's Manual](#)

Comprehensive user's manual for Garrison window and wall-type room air conditioners, covering installation, operation, features, maintenance, and troubleshooting for models 2477805 through 2498545.