Houghton H2800KV

Houghton Belaire H2800KV Inverter Air Conditioner User Manual

Model: H2800KV

1. Introduction

The Houghton Belaire H2800KV is a high-performance inverter air conditioner designed for recreational vehicles (RVs), caravans, and campers. This lightweight and compact rooftop unit offers efficient cooling and heating, making it suitable for various climates. It features advanced inverter technology for stable temperature control and reduced energy consumption, a quiet operation, and an electronic remote control for user convenience.

This manual provides essential information for the safe and effective operation, installation, and maintenance of your Belaire H2800KV unit. Please read it thoroughly before using the appliance.



Image 1.1: The Houghton Belaire H2800KV Inverter Air Conditioner, showcasing its compact design and inverter technology for energy efficiency.

2. Safety Information

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

- **Professional Installation:** Installation should only be performed by qualified personnel in accordance with local and

national electrical codes.

- **Power Supply:** Ensure the power supply matches the specifications of the unit (230VCA). Disconnect power before any maintenance or cleaning.
- **Ventilation:** Do not block air inlets or outlets. Ensure proper airflow around the unit.
- **Refrigerant:** The unit contains R410A refrigerant. Servicing involving the refrigerant circuit must be done by certified technicians.
- **Children and Pets:** Keep children and pets away from the unit during operation and maintenance.
- **Damage:** Do not operate the unit if it is damaged. Contact customer support for assistance.

3. What's in the Box

Upon unpacking, please ensure all components are present and undamaged:

- Houghton Belaire H2800KV Rooftop Air Conditioner Unit (External)
- Air Distribution Box (Internal Plenum)
- Remote Control
- Mounting Hardware (screws, gaskets, etc. - specific to installation kit)
- User Manual (this document)

4. Setup and Installation

The Belaire H2800KV is designed for rooftop installation on RVs and caravans. Due to the electrical and structural requirements, professional installation is highly recommended to ensure safety and optimal performance.

4.1. Pre-Installation Checks

- Verify the roof structure can support the unit's weight (32.5kg external unit + 3.0kg internal plenum).
- Ensure adequate clearance around the installation area for proper airflow.
- Confirm electrical wiring meets the unit's power requirements (230VCA).

4.2. Mounting the Unit

The external unit is mounted on the roof, typically over an existing roof opening or a newly cut one. The internal air distribution box (plenum) is then installed from inside the vehicle, connecting to the external unit.



Image 4.1: The internal air distribution box (plenum) of the Belaire H2800KV, which is installed inside the RV or caravan.

4.3. Electrical Connection

Connect the unit to a dedicated 230VCA power circuit. Ensure all connections are secure and properly insulated. Refer to the detailed wiring diagram provided in the full installation guide (not included in this manual) for specific instructions.

5. Operating Instructions

The Belaire H2800KV is operated using the included remote control. The unit features an elegant control panel with LEDs for electronic climate control.

5.1. Remote Control Functions



Image 5.1: The remote control for the Belaire H2800KV, used to manage all functions of the air conditioner.

- **Power Button:** Turns the unit ON/OFF.
- **Mode Button:** Cycles through operating modes: Cooling, Heating, Fan, Dehumidification.
- **Temperature Adjustment (Up/Down Arrows):** Sets the desired temperature.
- **Fan Speed Button:** Adjusts fan speed (Low, Medium, High, Auto).
- **Timer Button:** Sets the auto ON/OFF timer.
- **Display Button:** Controls the LED display on the indoor unit.
- **Sleep Button:** Activates sleep mode for quieter operation and energy saving during the night.
- **°C/°F Button:** Toggles between Celsius and Fahrenheit temperature display.

- **Lock Button:** Locks the remote control to prevent accidental changes.

5.2. Operating Modes

- **Cooling Mode:** Provides efficient cooling. The inverter technology adjusts compressor speed to maintain a stable temperature and reduce energy consumption.
- **Heating Mode (Reverse Cycle Heat Pump):** Offers effective heating, even in temperatures as low as -5°C, thanks to its electronic anti-freeze system.
- **Fan Mode:** Circulates air without cooling or heating.
- **Dehumidification Mode:** Reduces humidity in the air.

6. Maintenance

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

6.1. Air Filter Cleaning

The air filters, located in the internal air distribution box, should be cleaned regularly (e.g., every 2-4 weeks, depending on usage). Dirty filters can reduce airflow and efficiency.

1. Turn off the unit and disconnect power.
2. Open the filter access panel on the internal plenum.
3. Remove the air filters.
4. Wash filters with warm, soapy water or vacuum them gently.
5. Allow filters to dry completely before reinserting.
6. Close the filter access panel.

6.2. Exterior Cleaning

Periodically clean the exterior of the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the outdoor coils are free from debris.

7. Troubleshooting

Before contacting customer support, try the following troubleshooting steps for common issues:

- **Unit Not Turning On:** Check power supply, circuit breaker, and ensure the remote control batteries are not depleted.
- **Insufficient Cooling/Heating:** Ensure air filters are clean, doors/windows are closed, and the temperature setting is appropriate for the desired mode. Check for any obstructions to airflow.
- **Unusual Noise:** Minor operational noises are normal. If noise is excessive or unusual, check for loose components or contact a technician.
- **Water Leakage:** Ensure the unit is level and the condensate drain is not blocked.
- **Remote Control Not Responding:** Replace batteries. Ensure there are no obstructions between the remote and the unit's receiver.

If problems persist, contact Houghton customer support or a qualified service technician.

8. Specifications

Feature	Specification
Model Number	H2800KV
Cooling Capacity	2.8 kW
Heating Capacity	2.6 kW
Power Supply	230 Volts (AC)
Max Cooling Current	5.0 A
Max Heating Current	4.8 A
Refrigerant	R410A / 600g
Maximum Air Supply	135 l/s
Installed Weight	32.5 kg (External) + 3.0 kg (Internal)
External Unit Dimensions (H x W x D)	215 x 657 x 855 mm
Plenum Dimensions (H x W x D)	49 x 556 x 575 mm
Noise Level	35 Decibels
Inverter Type	Yes
Installation Type	Rooftop
Control Method	Remote Control

9. Warranty and Support

The Houghton Belaire H2800KV comes with a limited product warranty. Please refer to your purchase documentation or contact your retailer for specific warranty terms and conditions.

For technical support, spare parts, or service inquiries, please contact Houghton customer service or your authorized dealer. Ensure you have your model number (H2800KV) and proof of purchase available when seeking assistance.

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