

Houghton H2000K

Houghton Belaire H2000K Ceiling Air Conditioner User Manual

Model: H2000K | Brand: Houghton

PRODUCT OVERVIEW

The Houghton Belaire H2000K is a high-performance ceiling air conditioning unit specifically designed for caravans, motorhomes, and boats. With a powerful 2.0 kW cooling capacity, it ensures rapid and efficient temperature control, providing a comfortable environment in any season. Its integrated heating mode also offers warmth during colder periods, making it a complete all-season climate control solution.

This unit features a compact and ultra-light design, weighing approximately 27 kg, which simplifies installation and minimizes impact on vehicle aerodynamics. Its optimized structure reduces wind resistance, improving efficiency during travel and lowering energy consumption. Advanced technology ensures quiet operation, allowing for undisturbed rest and travel. The ventilation system provides uniform air distribution, guaranteeing optimal climate control in spaces up to 18 m². An energy-saving mode further optimizes efficiency, reducing battery drain without compromising performance. Intuitive operation is provided via a digital control panel and a remote control, allowing easy temperature adjustments and mode selection.



Figure 1: The Houghton Belaire H2000K ceiling air conditioning unit, showcasing its sleek, white exterior designed for rooftop installation.

INSTALLATION AND SETUP

The Belaire H2000K is designed for straightforward installation on the roof of your RV, caravan, or boat. Due to its compact and lightweight nature, it minimizes the impact on your vehicle's center of gravity and aerodynamics.

Pre-Installation Checklist:

- Ensure the mounting surface is flat and structurally sound to support the unit's weight (approx. 27 kg).
- Verify adequate clearance around the installation area for proper airflow and maintenance.
- Confirm electrical supply meets the unit's requirements (230 VAC).
- Read the full installation guide provided with the product for detailed instructions and safety warnings.

Mounting the Unit:

The unit is typically mounted through an existing roof opening or a newly cut one. The outdoor unit sits on the roof, while the indoor air distribution box is mounted on the ceiling inside the vehicle.





Figure 2: The outdoor component of the Belaire H2000K unit securely mounted on the roof of a recreational vehicle, demonstrating its low-profile design.



Figure 3: The indoor air distribution box of the Belaire H2000K, seamlessly integrated into the ceiling of a motorhome, providing efficient air circulation.

OPERATING INSTRUCTIONS

The Belaire H2000K offers intuitive control through its digital display panel and a convenient remote control. This allows for easy adjustment of temperature and operating modes.

Digital Display Panel:

The indoor unit features a digital display that shows the current temperature setting and operational status. This display is easily visible and provides immediate feedback on the unit's performance.



Figure 4: A close-up view of the Belaire H2000K's indoor unit, highlighting the integrated digital display that shows the set temperature.

Remote Control Functions:

The included remote control provides full functionality from anywhere within your vehicle. Key functions include:

- **Power On/Off:** Activates or deactivates the unit.
- **Mode Selection:** Cycle through cooling, heating, fan-only, and energy-saving modes.
- **Temperature Adjustment:** Increase or decrease the desired temperature.
- **Fan Speed:** Adjust fan intensity for optimal airflow.
- **Timer:** Set specific times for the unit to turn on or off.
- **Sleep Mode:** Optimizes operation for quietness and comfort during sleep.



Figure 5: The remote control for the Belaire H2000K, featuring clearly labeled buttons for power, mode, temperature, fan speed, timer, and sleep functions.

For detailed instructions on each function, refer to the remote control section in the full user manual.

MAINTENANCE

Regular maintenance ensures the optimal performance and longevity of your Belaire H2000K air conditioning unit. Always disconnect power before performing any maintenance.

Filter Cleaning:

The air filters should be cleaned regularly, typically every 2-4 weeks depending on usage and environment. Dirty filters can reduce airflow and cooling efficiency.

- Locate the air filters on the indoor unit.
- Carefully remove the filters.

- Wash them with mild soap and warm water, or vacuum them if they are only dusty.
- Allow filters to dry completely before reinserting them.

Exterior Cleaning:

Wipe the exterior surfaces of both the indoor and outdoor units with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

Seasonal Checks:

Before long periods of non-use or at the start of a new season, inspect the unit for any visible damage, blockages in the vents, or unusual wear. Consider professional inspection if any issues are noted.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Belaire H2000K unit. For more complex problems, contact qualified service personnel.

Problem	Possible Cause	Solution
Unit does not turn on.	No power supply; remote control batteries dead; unit in standby mode.	Check power connection and circuit breaker; replace remote control batteries; press power button on remote or control panel.
Insufficient cooling/heating.	Dirty air filters; blocked air vents; incorrect mode selected; room size exceeds capacity.	Clean air filters; ensure vents are clear; select appropriate mode (Cool/Heat); verify unit capacity matches room size.
Unusual noise during operation.	Loose components; foreign objects in fan; unit not level.	Check for loose parts; inspect fan area for obstructions (with power off); ensure unit is installed level. If noise persists, contact service.
Remote control not working.	Dead batteries; obstruction between remote and unit; remote faulty.	Replace batteries; remove obstructions; if still not working, contact support for a replacement.

SPECIFICATIONS

Feature	Detail
Model Number	H2000K
Brand	Houghton
Cooling Capacity	2.0 kW (2000 Kilowatt)
Heating Capacity	(Implied by "reverse cycle" and "heating mode" in description, specific kW not listed)
Voltage	230 VAC (220 Volt AC)
Product Dimensions (L x W x H)	100 x 56.7 x 21.5 cm (39.4 x 22.3 x 8.5 inches)
Weight	Approx. 28 kg (61.7 lbs)

Feature	Detail
Noise Level	35 dB
Recommended Coverage Area	Up to 18 m ²
Special Features	Fast cooling, Remote control operation, Energy-saving mode, Digital display
Energy Efficiency Rating	A (BEE 5-star rating)
Seasonal Energy Efficiency Ratio (SEER)	20

WARRANTY AND SUPPORT

Specific warranty details are not provided in the product data. For information regarding warranty coverage, terms, and conditions, please refer to the documentation included with your purchase or contact Houghton customer support directly.

For technical support, spare parts, or service inquiries, please reach out to the manufacturer or your authorized dealer. Always provide your product model number (H2000K) and purchase date when contacting support.

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

Documents - Houghton – H2000K



Introduction
Suit smaller caravans and motorhomes. Lightweight roof top unit and power cord to receive the total weight. Excellent cooling performance and a low noise level. The Belaire range of mobile air conditioners is designed to provide a comfortable environment for you to relax and enjoy your holidays.

Features

1. A 41mm thick insulation layer, the air can be evenly distributed through the unit.
2. Remote control unit with a large display to perfectly integrate with modern caravans & motorhome design.
3. The unit is designed to be as quiet as possible, with a noise level of 35dB.
4. 1. Three speeds, quiet, high efficiency indoor fans. The large outdoor coil fan draws in air to exchange heat, leading to highly efficient performance.
5. Quick installation and allows easy installation with a central unit, in winter, makes the caravans and motorhomes a great place to go.
6. Excellent reverse cycle performance, allows the unit to cool temperatures from -5°C to +40°C. Focuses on cooling & heating.
7. Super strong and lightweight UV treated polycarbonate casing and canopy suitable to these conditions. Excellent performance and gives looks suitable to make the unit the ideal choice for light caravans and motor homes.

Specification:

Model	H2000	H2400
Power supply	1PH-230V-240V/50Hz	
Cooling capacity	2000W	2400W
Power input cooling	750W	950W
Current cooling	5.0 A	4.2 A
Heating capacity	2000W	2400W
Power input heating	600W	850W
Current heating	2.6 A	2.6 A
Maximum input power	800W	950W
Maximum current	3.0 A	3.0 A
Weight of unit (without unit)	20kg	21kg
Weight of plenum	2.8kg	2.8kg
Installation opening (mm)	350 x 260. Optional adapter required for 400 x 400	
Outer unit dimensions (mm)	1000L x 957W x 219H	
Plenum dimensions (mm)	595L x 123W x 43H	

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