Dometic Penguin II

Dometic Penguin II Rooftop Air Conditioner

INSTRUCTION MANUAL

Product Overview

The Dometic Penguin II is a low-profile rooftop air conditioner designed for recreational vehicles (RVs). It features a sleek, contemporary shroud that improves aerodynamics and reduces wind resistance, making it an efficient choice for mobile living. Equipped with a high-performance motor and fan, this unit delivers superb cooling performance for both ducted and non-ducted applications.

This model utilizes R410A refrigerant, which is environmentally friendly and designed for efficient heat transfer. Its robust construction includes a rib-reinforced base pan, ensuring strength and durability for long-term use.



Image: The Dometic Penguin II Rooftop Air Conditioner, showcasing its low-profile design and white exterior.

Safety Information

Important Safety Instructions: Read all instructions before installing or operating this appliance. Failure to follow these instructions could result in property damage, serious injury, or death.

- Always disconnect power before servicing or cleaning the unit.
- Ensure proper ventilation during installation and operation.
- Installation must be performed by a qualified technician in accordance with all local and national electrical and building codes.
- Do not operate the unit if any parts are damaged or missing.
- Keep children and pets away from the unit during operation.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

Setup and Installation

The Dometic Penguin II is designed for rooftop installation on RVs. It can be configured for both ducted and non-ducted systems. Professional installation is highly recommended due to the electrical and structural requirements.

Pre-Installation Checks:

1. Verify the structural integrity of the RV roof at the intended installation site.
2. Confirm that the electrical system of the RV can support the unit's power requirements (120 Volts AC, 1300 watts).
3. Ensure all necessary mounting hardware and sealing materials are available. Note: The center air discharge assembly is sold separately and is required for operation.

Installation Steps (Summary):

- **Prepare Opening:** Create or utilize an existing 14" x 14" roof opening.
- **Position Unit:** Carefully lift and position the Penguin II unit over the roof opening. Due to its weight (approximately 101 pounds), this step requires multiple people or specialized equipment.
- **Secure Unit:** Fasten the unit to the roof using the provided mounting bolts and frame, ensuring a tight, waterproof seal.
- **Electrical Connection:** Connect the unit to the RV's 120V AC power supply, following all electrical codes.
- **Ducting/Air Distribution:** Install the appropriate air distribution box or connect to existing ductwork for ducted systems.
- **Test Operation:** After installation, perform a functional test to ensure proper cooling and airflow.

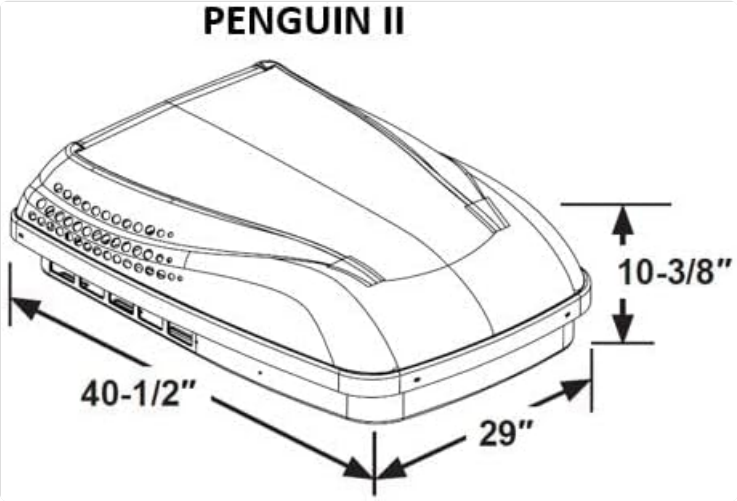


Image: A technical drawing illustrating the dimensions of the Dometic Penguin II unit: 40.5" length, 29" width, and 10-3/8" height.



Image: Close-up view of the internal components of the Dometic Penguin II, showing the compressor and copper refrigerant lines.

Operating Instructions

The Dometic Penguin II is typically controlled via a wall thermostat (sold separately) or an integrated control panel, depending on your RV's setup.

Basic Operation:

- **Power On/Off:** Use the main power switch on your thermostat or control panel to turn the unit on or off.
- **Mode Selection:** Select the desired operating mode (Cool, Fan, Heat Pump if applicable).
- **Temperature Setting:** Adjust the thermostat to your desired temperature. The unit will cycle on and off to maintain this setting.
- **Fan Speed:** Choose between high, medium, or low fan speeds for optimal comfort and noise level.

For detailed instructions on specific control features, refer to the manual provided with your RV's thermostat or control system.

Maintenance

Regular maintenance ensures optimal performance and longevity of your Dometic Penguin II air conditioner.

Filter Cleaning:

- The air filter(s) located in the air distribution box should be cleaned regularly, typically every 2-4 weeks of use, or more frequently in dusty conditions.

- Remove the filter(s) and wash with warm, soapy water. Rinse thoroughly and allow to air dry completely before reinserting.

Exterior Cleaning:

- Periodically inspect the exterior shroud for debris or damage.
- Clean the shroud with a mild detergent and water. Avoid harsh chemicals or abrasive cleaners.

Seasonal Checks:

- Before and after periods of extended storage, inspect the unit for any loose connections, signs of wear, or blockages in the condensate drain.
- Ensure the roof gasket remains sealed and free of cracks.

Troubleshooting

This section provides solutions to common issues you might encounter with your Dometic Penguin II air conditioner.

Problem	Possible Cause	Solution
Unit does not turn on.	No power, tripped breaker, faulty thermostat.	Check RV's main power supply and circuit breakers. Ensure thermostat is set correctly. Consult a qualified technician if issues persist.
Insufficient cooling.	Dirty air filter, blocked condenser coils, low refrigerant, incorrect thermostat setting.	Clean air filter. Inspect and clean condenser coils (professional service recommended). Verify thermostat setting. If refrigerant is low, professional service is required.
Unusual noise during operation.	Loose components, fan obstruction, motor issue.	Inspect for loose screws or debris near the fan. If noise persists or is severe, contact a service professional.
Water leaking from unit.	Clogged condensate drain, improper installation.	Clear any obstructions from the condensate drain. If leaking continues, check installation sealing or consult a professional.

For problems not listed here or if solutions do not resolve the issue, please contact Dometic customer support or a certified RV technician.

Specifications

Feature	Detail
Brand	Dometic
Model	Penguin II
Manufacturer Part Number	640310CXX1J0
Cooling Capacity	11,000 British Thermal Units (BTU) / 1.13 Tons
Voltage	120 Volts (AC)
Wattage	1300 watts

Feature	Detail
Refrigerant	R410A (Eco-friendly)
Noise Level	52 dB
Product Dimensions (L x W x H)	40.5" x 29" x 11.25" (approx.)
Item Weight	101 pounds
Application	Rooftop, Ducted or Non-Ducted

Warranty and Support

Dometic products are built to high standards and come with a manufacturer's warranty. Specific warranty terms and duration may vary. Please retain your proof of purchase for warranty claims.

For warranty service, technical assistance, or to locate an authorized service center, please contact Dometic Customer Support:

- **Online Support:** Visit the official Dometic website for FAQs, product registration, and support resources.
- **Phone Support:** Refer to the contact information provided on the Dometic website or in your product packaging.

When contacting support, please have your product model number (Penguin II) and manufacturer part number (640310CXX1J0) ready.

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For more information, visit Dometic.com

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question