Dometic Penguin II

Dometic Penguin II Low Profile Rooftop Air Conditioner User Manual

Model: Penguin II (Model 9105306429)

Introduction | Safety Information | Product Overview | Setup & Installation | Operation | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Dometic Penguin II Low Profile Rooftop Air Conditioner. Designed for high capacity cooling, this unit is an efficient solution for maintaining comfortable temperatures in your RV or mobile living space. Its low-profile design ensures improved aerodynamics and reduced wind resistance.
Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Information

WARNING: Failure to follow these warnings could result in death or serious injury.

- Installation and servicing must be performed by qualified personnel only.
- Disconnect power before performing any maintenance or service.
- Ensure proper grounding to prevent electrical shock.
- Do not modify the air conditioner. Unauthorized modifications can be dangerous and will void the warranty.
- Use only Dometic approved replacement parts.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

CAUTION: Failure to follow these cautions could result in minor or moderate injury, or property damage.

- Ensure the rooftop is structurally sound to support the weight of the unit.
- Properly seal all openings to prevent water intrusion.
- Do not block air inlets or outlets.

3. Product Overview

The Dometic Penguin II is a high-capacity rooftop air conditioner designed for recreational vehicles. It features a low-profile design for improved aerodynamics and an EPP foam housing for reduced weight and enhanced cooling efficiency. The unit utilizes R410A refrigerant, which is more efficient and environmentally friendly.

3.1 Key Features

- **Sleek Design:** Low profile reduces wind resistance.
- **Lightweight:** EPP foam housing reduces overall weight.
- **Eco-Friendly:** Uses R410A refrigerant for efficient and environmentally conscious cooling.
- **Premium Comfort:** High-performance motor and fan for maximum cooling.
- **Lasting Strength:** Rib-reinforced base pan for durability in various weather conditions.
- **Compatibility:** Pre-installed Single-Zone CCC II control board. Suitable for non-ducted or ducted applications (requires air distribution box/return air grille and CCCII thermostat).

3.2 Components



Figure 3.1: Top view of the Dometic Penguin II Rooftop Air Conditioner, showcasing its sleek, low-profile design and white exterior.



Figure 3.2: Front view of the Dometic Penguin II Rooftop Air Conditioner, highlighting the air intake vents.

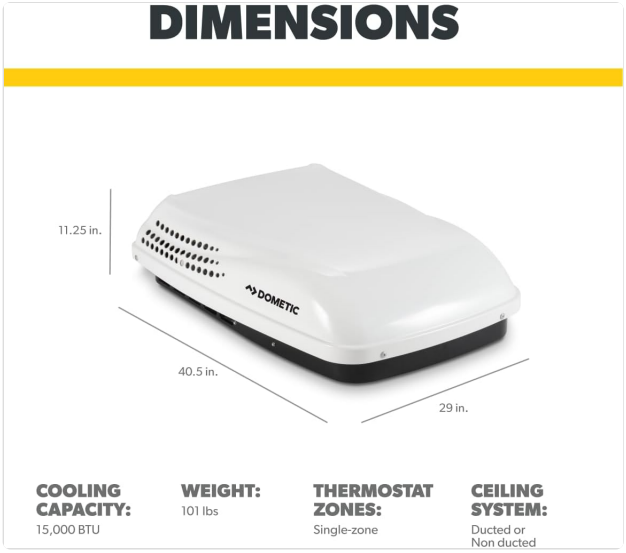


Figure 3.3: Diagram illustrating the dimensions of the Dometic Penguin II unit, including length, width, and height, along with cooling capacity, weight, thermostat zones, and ceiling system compatibility.



Figure 3.4: Visual representation of the "Best in Class" features of the Dometic Penguin II, emphasizing its low profile, high performance design, and lasting strength due to a rib-reinforced base pan.



Figure 3.5: An RV with the Dometic Penguin II unit installed, highlighting its high-performance cooling features: sleek design, lightweight construction, premium comfort, and eco-friendly refrigerant.



Figure 3.6: Close-up view of the internal fan and motor components, illustrating the design for vibration-free and quiet operation of the Dometic Penguin II.



Figure 3.7: Another close-up of the high-performance motor and fan, emphasizing their role in delivering premium comfort through maximum cooling.

4. Setup & Installation

Proper installation is crucial for the performance and longevity of your Dometic Penguin II air conditioner. This section provides general guidelines. Always refer to the detailed installation manual provided with your unit for specific instructions and diagrams.

4.1 Pre-Installation Checklist

- Verify roof opening dimensions (typically 14" x 14").

- Ensure adequate roof thickness and structural support.
- Confirm electrical supply meets unit requirements (115 Volts AC).
- Gather necessary tools and materials (sealant, fasteners, wiring tools).
- Ensure the unit is compatible with your existing or new air distribution box/return air grille and CCCII thermostat.

4.2 Installation Steps (Summary)

1. **Prepare the Roof Opening:** Clean and prepare the 14" x 14" roof opening, ensuring it is free of debris and properly framed.
2. **Position the Unit:** Carefully lift the Penguin II unit onto the roof and center it over the opening.
3. **Secure the Unit:** From inside the RV, install the mounting bolts and tighten them evenly to secure the unit to the roof.
4. **Connect Electrical Wiring:** Route the electrical wiring according to local codes and connect it to the unit's terminal block. Ensure proper grounding.
5. **Install Air Distribution Box/Return Air Grille:** For non-ducted systems, install the air distribution box. For ducted systems, install the return air grille and connect the ductwork.
6. **Connect Thermostat:** Connect the CCCII thermostat wiring to the pre-installed control board.
7. **Seal and Test:** Apply appropriate sealant around the base of the unit on the roof to prevent water leaks. Power on the unit and test all functions.

5. Operating Instructions

The Dometic Penguin II is controlled via a compatible CCCII thermostat (sold separately or as part of a system). This section outlines general operating principles.

5.1 Thermostat Functions

- **Power On/Off:** Use the thermostat's power button to turn the unit on or off.
- **Mode Selection:** Select desired operating mode (Cool, Fan, Auto).
- **Temperature Setting:** Adjust the desired temperature using the up/down arrows.
- **Fan Speed:** Select fan speed (High, Medium, Low, Auto).
- **Sleep Mode:** If available on your thermostat, activate sleep mode for quieter operation and energy saving during nighttime.
- **Timer Function:** Program the unit to turn on or off at specific times.

5.2 Cooling Tips

- Keep windows and doors closed when the AC is running.
- Use window coverings to block direct sunlight.
- Ensure air filters are clean for optimal airflow.
- For initial cool-down, set the temperature lower than desired and fan speed to high. Once cool, adjust to a comfortable setting.

6. Maintenance

Regular maintenance ensures efficient operation and extends the lifespan of your Dometic Penguin II air conditioner.

6.1 Air Filter Cleaning

- The air filter is located within the air distribution box (for non-ducted systems) or return air grille (for ducted systems)

inside the RV.

- Remove the filter and wash it with mild soap and warm water.
- Rinse thoroughly and allow it to dry completely before re-installing.
- Clean the filter monthly or more frequently depending on usage and environmental conditions.

6.2 Exterior Cleaning

- Periodically inspect the exterior of the unit for debris, leaves, or dirt accumulation.
- Gently clean the exterior with a soft cloth and mild detergent. Avoid harsh chemicals.
- Ensure the condenser coils (visible from the top of the unit) are free of obstructions. Use a soft brush or vacuum if necessary, taking care not to bend the fins.

6.3 Seasonal Checks

- Before and after periods of extended storage, inspect all electrical connections for tightness and corrosion.
- Check the roof sealant around the unit for cracks or deterioration and re-seal as needed to prevent leaks.
- Verify that the condensate drain holes are clear to allow proper water drainage.

7. Troubleshooting

This section provides solutions to common issues you might encounter. For more complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Unit does not turn on.	No power supply; tripped circuit breaker; faulty thermostat.	Check shore power/generator connection. Reset circuit breaker. Verify thermostat settings and connections.
Insufficient cooling.	Dirty air filter; blocked condenser coils; low refrigerant; undersized unit for space.	Clean air filter. Clear debris from condenser coils. Contact service technician for refrigerant check. Ensure proper unit sizing for your RV.
Excessive noise or vibration.	Loose mounting bolts; fan obstruction; motor issues.	Check and tighten mounting bolts. Inspect fan for obstructions. If noise persists, contact service.
Water leaking from unit.	Clogged condensate drain; improper installation/sealing.	Clear condensate drain holes. Inspect roof sealant and re-seal if necessary.

8. Specifications

Attribute	Value
Model	Penguin II (Hi Cap with Control Box)
Manufacturer Part Number	9105306429
Cooling Capacity	15,000 BTU
Item Weight	77.8 pounds
Product Dimensions (L x W x H)	41.5 x 29.75 x 12.25 inches

Attribute	Value
Voltage	115 Volts (AC)
Wattage	4396 watts
Refrigerant	R410A
Form Factor	Rooftop
Control Board	Pre-installed Single-Zone CCC II
Application	Non-Ducted or Ducted

9. Warranty & Support

Dometic products are built to high standards and come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Dometic website.
For technical support, parts, or service inquiries, please contact Dometic Customer Support. Have your model number (9105306429) and serial number ready when contacting support.
Dometic Customer Support:

- Visit Dometic Support Website
- Refer to your product documentation for phone numbers or email contacts.

© 2024 Dometic. All rights reserved. Information subject to change without notice.

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.

Name

Anonymous

Email

you@example.com

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