### Roof Top Unit

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
<th>Use With Air Distribution Box</th>
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</table>

**INSTALLATION & OPERATING INSTRUCTIONS**

Form No. 3315079.000 1/13
(French 3315288.000)
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LaGrange, IN 46761

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**Read these instructions carefully. These instructions MUST stay with this product.**
INTRODUCTION

This air conditioner (hereinafter referred to as “unit” or “product”) is design and intended for installation on the roof of a Recreational Vehicle (RV) during or after the time it is manufactured.

This unit can be installed by one person with brief help from additional personnel. Use these instructions to ensure a properly installed, and properly functioning product.

Dometic Corporation reserves the right to modify appearances and specifications without notice.

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DOCUMENT SYMBOLS

Indicates additional information that is NOT related to physical injury. Indicates step-by-step instructions.
A. Recognize Safety Information

This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

B. Understand Signal Words

A signal word will identify safety messages and property damage messages, and will indicate the degree or level of hazard seriousness.

- **WARNING** indicates a hazardous situation that, if NOT avoided, could result in death or serious injury.
- **CAUTION** indicates a hazardous situation that, if NOT avoided, could result in minor or moderate injury.
- **NOTICE** is used to address practices NOT related to physical injury.

C. Supplemental Directives

Read and follow all safety information and instructions to avoid possible injury or death.

Read and understand these instructions before [installing / using / servicing / performing maintenance on] this product.

Incorrect [installation / operation / servicing / maintaining] of this product can lead to serious injury. Follow all instructions.

The installation MUST comply with all applicable local or national codes, including the latest edition of the following standards:

**U.S.A.**
- ANSI/NFPA70, National Electrical Code (NEC)
- ANSI/NFPA 1192, Recreational Vehicles Code

**CANADA**
- CSA C22.1, Parts I & II, Canadian Electrical Code
- CSA Z240 RV Series, Recreational Vehicles

D. General Safety Messages

**WARNING** Failure to obey the following warnings could result in death or serious injury:

- This product MUST be [installed / serviced] by a qualified service technician.
- Do NOT modify this product in any way. Modification can be extremely hazardous.
- Do NOT add any devices or accessories to this product except those specifically authorized in writing by Dometic Corporation.
### A. Table - Unit Data

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Nominal Capacity (BTU HR)</th>
<th>Cooling</th>
<th>Electrical Rating 120 Vac 60 Hz 1 ph</th>
<th>Compressor Rated Load Amps</th>
<th>Compressor Locked Rotor Amps</th>
<th>Fan Motor Rated Load Amps</th>
<th>Fan Motor Locked Rotor Amps</th>
<th>Refrigerant R-410A (oz)</th>
<th>Minimum Wire Size* 12 AWG Copper Up to 24'</th>
<th>AC Circuit Protection ***Installer Supplied</th>
<th>Minimum Generator Size** 1 Unit / 2 Units</th>
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* For wire length over 24 ft., consult the National Electrical Code for proper sizing.

** Dometic Corporation gives **GENERAL** guidelines for generator requirements. These guidelines come from experiences people have had in actual applications. When sizing the generator, the total power usage of your RV must be considered. Keep in mind generators lose power at high altitudes and from lack of maintenance.

*** CIRCUIT PROTECTION: Time Delay Fuse or Circuit Breaker Required.

### B. Roof Requirements

- A 14-1/4” x 14-1/4” (±1/8”) square opening (hereinafter referred to as “roof opening”) is required for installing this unit. This opening is part of the return air system of the unit and **MUST** be finished in accordance with NFPA 1192.
- Roof construction with rafters/joists support frames on a minimum of 16 inch centers.
- Minimum of 1.5 inches and maximum of 6 inches distance between roof to ceiling of RV.
A. Choosing Proper Location For Unit

This unit is specifically designed for installation on the roof of a recreational vehicle (RV). When determining your cooling requirements, the following should be considered:

- Size of RV;
- Window area (increases heat gain);
- Amount of insulation in walls and roof;
- Geographical location where the RV will be used;
- Personal comfort level required.

1. Normal locations-The unit is designed to fit over an existing roof vent opening.

2. Other locations-When no roof vent is available or another location is desired, the following is recommended:
   a. For one unit installation: The unit should be mounted slightly forward of center (front to back) and centered from side to side.
   b. For two unit installations: Install one unit 1/3 and one unit 2/3’s from front of RV and centered from side to side.

It is preferred that the unit be installed on a relatively flat and level roof section measured with the RV parked on a level surface. See table below for maximum acceptable tilt.

<table>
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<tr>
<th>Model Number</th>
<th>Max Tilt</th>
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After Location Has Been Selected:
   c. Check for obstructions in the area where unit will be installed. See (FIG. 1), (FIG. 2), (FIG. 3) & (FIG. 4).
d. **NOTICE** Maintain structural integrity. Otherwise damage to product and/or RV could occur.

The roof must be designed to support 130 pounds when the RV is in motion. Normally a 200 lb. static load design will meet this requirement.

e. Check inside the RV for air distribution box obstructions (i.e. door openings, room dividers, curtains, ceiling fixtures, etc.). See (FIG. 5).

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### B. Roof Preparation

1. **WARNING** FIRE OR ELECTRICAL SHOCK HAZARD. Verify there are no obstacles inside RV’s roof and/or walls (wires, pipes, etc.). Shut OFF gas supply, disconnect 120 Vac power from RV and disconnect positive (+) 12 Vdc terminal from supply battery BEFORE drilling or cutting into RV. Failure to obey these warnings could result in death or serious injury.

Opening Requirements - Before preparing the ceiling opening, read all of the following instructions before beginning the installation.

If an existing roof vent opening will **NOT** be used a roof opening **MUST** be cut through the roof and ceiling of the RV. This opening **MUST** be located between the roof reinforcing members.

2. Roof vent removal
   a. Unscrew and remove the roof vent.
   b. Remove all caulking compound around opening.
   c. Seal all screw holes and seams where the roof gasket will be located. Use a good grade of all weather sealant.
C. Wiring Requirements

1. Route a copper, with ground, 120 Vac supply wire from the time delay fuse or circuit breaker box to the roof opening. The proper size wire can be determined from chart on page 4.

   If vent fan was removed, the existing wire may be used provided it is of proper size, location, and correctly fused.

   a. This supply wire must be located in the front portion of the roof opening.

   b. The power MUST be on an appropriately sized separate time delay fuse or circuit breaker. The proper size protection can be determined from chart on page 4.

   c. Make sure that at least 15" of supply wire extends into the roof opening. This insures an easy connection at the junction box.

   d. Protect the wire where it passed into the opening with approved method.

D. Placing Unit On Roof

1. Remove the unit from the carton and discard carton.

2. **CAUTION** LIFTING HAZARD. Use proper lifting technique and control when lifting product. Failure to obey this caution could result in injury.

   Place Unit on the roof.

3. **NOTICE** Do NOT slide unit. Otherwise, damage to gasket (on bottom of unit) may occur, and could cause a leak.

   Lift and place the unit over the prepared opening using the gasket on the unit as a guide. See (FIG. 7).

   ![FIG. 7](image)

4. Place the air distribution box kit inside the RV. This box contains mounting hardware for the unit and will be used inside the RV.
INSTALLATION INSTRUCTIONS

This completes the outside work. Minor adjustments can be done from inside the RV if required.

E. Installing Unit

1. Check gasket alignment of the unit over the roof opening and adjust if necessary. Unit may be moved from below by slightly lifting. See (FIG. 8).

2. Remove air distribution box and mounting hardware from carton. See (FIG. 9).

3. All models in this manual will use a four (4) bolt pattern for installing the air distribution box kit.

4. Reach up into the return air opening of the unit and pull the unit electrical cord down for later connection. See (FIG. 10).

5. Duct Divider Installation
   a. Measure the ceiling thickness. See (FIG. 10).
   b. Cut away the number of rows as indicated in table below. See (FIG. 11).

<table>
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<tr>
<th>Ceiling Thickness</th>
<th># Of Rows To Cut</th>
<th>Ceiling Thickness</th>
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   c. Carefully install the duct divider in the roof opening 5-5/8” from back of roof opening. See (FIG. 12).

   Foil back faces rear of unit.
6. Ceiling Template Installation
   a. Plug the 6 pin electrical cord from the top unit into the matching 6 pin connector in the electronic control box. The plug is polarized and will only fit in one direction. See (FIG. 13).

   b. Route the previously run 120 Vac power supply wire through the junction box hole cutout. See (FIG. 13).
   c. Secure 120 Vac power supply using the supplied strain relief. Install strain relief in junction box hole leaving enough wire inside junction box to connect unit wires to power supply wires. See (FIG. 13).
   d. Hold the ceiling template up to the roof opening and line up the channel in the ceiling template with the previously installed duct divider. See (FIG. 14).

   e. Hold the ceiling template up to the roof opening and start each mounting bolt, by hand, through the ceiling template and up into the unit base pan. See (FIG. 15) & (FIG. 16).

   f. **NOTICE** Tighten mounting bolts to correct torque specifications. Overtightening could damage unit’s base pan or ceiling template. Not enough torque will allow an inadequate roof seal, and could cause a leak.
   g. Tighten all four (4) mounting bolts **EVENLY** with in 40 to 50 inch pounds. See (FIG. 15).
F. Wiring System

1. 120 Vac Power Supply Connection
   a. **WARNING** ELECTRICAL SHOCK HAZARD. Verify 120 Vac power is disconnected from RV. Failure to obey this warning could result in death or serious injury.
   b. **WARNING** ELECTRICAL SHOCK HAZARD. Provide grounding in compliance with all applicable electrical codes. Failure to obey this warning could result in death or serious injury.
   c. Secure previously run 120 Vac power supply wire using the supplied strain relief. Install strain relief in junction box hole leaving enough wire inside junction box to connect unit wires to power supply wires.
   d. Connect white to white; black to black; using appropriate size connectors. Secure bare copper wire under grounding screw in junction box. See (FIG. 17).

   e. Tape the connectors to the supply wire to assure they don't vibrate loose.
   f. Push the wires into the junction box and install junction box cover. See (FIG. 17).

G. Installing Air Distribution Box

1. Align air distribution box with ceiling template. See (FIG. 18) & (FIG. 19).
   Front and rear vent doors are supplied loose. Do NOT install them until all screws are installed in step 2.
2. Install two (2) (supplied) sheet metal screws inside return air opening to secure air distribution box to ceiling template. See (FIG. 20).

3. Install eight (8) (supplied) wood screws inside the front, rear and side doors to secure air distribution box to ceiling. See (FIG. 20).

4. Install front and rear doors.

5. Place filter in return air grille. It may already be installed on some units. See (FIG. 21).

6. Install return air vent grille into the air distribution box. Slide return air grille tab into slot in ADB and rotate up and snap in place. See (FIG. 22). Installation

7. Install the control knobs into the air distribution box. See (FIG. 23).

8. The unit installation is now complete and is ready for operation. The power supply to the unit may now be turned on.

9. Verify that all features of the installed system work. Please read the following operating instructions before attempting to run the unit.
A. Controls

1. The Selector Switch has (8) positions including "OFF". This controls fan speed, optional heating mode, and cooling modes. See (FIG. 24).

2. The Thermostat controls the temperature range at the filter between approximately 65° F and 90° F.

B. "OFF" Position

1. This is to turn unit off.

C. Cooling Operation

1. Set the thermostat at the desired temperature level.
2. Select the fan speed that best satisfies your needs:
   a. HIGH COOL: Selected when maximum cooling and dehumidification required.
   b. MED. COOL: Selected when normal or average cooling required.
   c. LOW COOL: Selected when room is at desired comfort level and needs to be maintained. Normally this speed used for night time operation.

The blower runs continuously to circulate air and maintain an even temperature. The compressor will come on as cooling is required to maintain the selected temperature level.

**NOTICE** Wait at least 2 minutes before restarting the compressor when it has been manually cycled off with either the selector switch or the temperature set lever. Otherwise, compressor will quick-cycle and could result in compressor or supply circuit overload.

D. Heating Operation (With Electric Heater Option Installed).

The heat mode of operation will **NOT** replace a furnace for heating your RV in cold weather. The intent is to remove the chill on cool days or mornings.

1. Turn the selector switch to "OPT HEAT".
2. The heat strip will come on and begin heating.
3. When desired temperature level in RV is reached, move the selector switch to "OFF" position or "FAN" position.

Thermostat does **NOT** control the fan/heater ON/OFF cycle.

E. Fan Operation

1. This will circulate the air in your RV without cooling or heating. There are three positions: HIGH FAN, MED. FAN or LOW FAN to select from depending upon personal choice.

F. Center Air Discharge

1. Slide lever to open and close.
MAINTENANCE

A. Air Filter
   1. Periodically (a minimum of every 2 weeks of operation) remove the return air filter located behind the return air grille and wash it with soap and warm water, let dry and then reinstall.

   **NEVER** run unit without return air filter in place. This will plug the unit evaporator coil with dirt and may substantially degrade the performance of the unit over time.

B. Air Distribution Box Housing
   1. Clean air distribution box housing and control panel with a soft cloth dampened with a mild detergent. Never use furniture polish or scouring powders.

C. Fan Motor
   1. The blower motor is factory lubricated and requires no service.

GENERAL INFORMATION

A. Frost Formation On Cooling Coil
   1. Frost on a small portion of the coil is not unusual. Under certain conditions, ice may form on the evaporator coil. This is indicated by very cold output at very low air speed and the icing can be seen through the air inlet hole with the filter removed. If this should occur, inspect the filter and clean if dirty. Make sure air vents are open and not obstructed. Units have a greater tendency to frost when the outside temperature is relatively low. This may be prevented by adjusting the thermostat control knob to a warmer setting (counter clockwise). Should frosting continue, operate on any FAN ONLY setting until the cooling coil is free of frost; then resume normal operation. If frost condition persist, contact your local service center for assistance.

B. Heat Gain
   The ability of this air conditioner to maintain the desired inside temperature depends on the heat gain of the RV.

   Some preventative measures taken by the occupants of the RV can reduce the heat gain and improve the performance of the air conditioner. During extremely high outdoor temperatures, the heat gain of the vehicle may be reduced by:
   1. Parking the RV in a shaded area
   2. Using window shades (blinds and/or curtains)
   3. Keeping windows and doors shut or minimizing usage
   4. Avoiding the use of heat producing appliances

Operation on High Fan/Cooling mode will give optimum or maximum efficiency in high humidity or high outside temperatures.

Starting the air conditioner early in the morning and giving it a “head start” on the expected high outdoor ambient will greatly improve its ability to maintain the desired indoor temperature.

For a more permanent solution to high heat gain, accessories like Dometic outdoor patio and window awnings will reduce heat gain by removing the direct sun. They also add a nice area to enjoy company during the cool of the evening.

C. Condensation
   The manufacturer of this unit will not be responsible for damage caused by condensation forming on ceilings, windows, or other surfaces. Air contains water vapor which condenses when temperature of a surface is below Dew point. During normal operation this unit is designed to remove a certain amount of moisture from the air, depending on the size of the space being conditioned. Keeping doors and windows closed when this air conditioner is in operation will greatly reduce the chance of condensation forming on interior surfaces.
SERVICE - UNIT DOES NOT OPERATE

If your unit fails to operate or operates improperly, check the following before calling your service center.

- If RV connected to motor generator, check to be sure motor generator is running and producing power.
- If RV connected to power supply by a land line, check to be sure line is sized properly to run unit load and it is plugged into power supply.
- Check your fuse or circuit breaker to see if is is open. Insure fuse is not burnt, or circuit breaker is “ON” and not activated.
- After the above checks, call your local service center for further help. This unit must be serviced by qualified service personnel only.

When calling for service, always give the following:

- Unit model and serial number found on the identification label located on base pan of unit bottom. Return air grille must be removed from air distribution box to view.
- Air distribution box model and serial number found on rating plated located on ceiling template. Observe this rating plate through the filter opening.

WIRING DIAGRAMS

A. Unit Wiring Diagram

1. 457915, 459516 B57915 & B59516

2. 540315 & 540316

PASSED DIELECTRIC

NOT USED ON SOME MODELS

3105052.041

3105052.033
B. Air Distribution Box Wiring Diagram

115 VAC
60 HZ 1 PH
USE COPPER CONDUCTORS ONLY

FIELD Wiring
FACTORY Wiring
LINE SPLICE

TO OPTIONAL ELEC HEAT

ELEC CONN FROM A/C

3314841.000

3308032.097