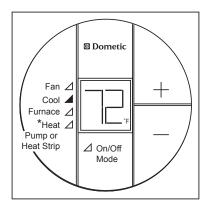
Dometic

OPERATING NSTRUCTIONS

SINGLE ZONE LCD THERMOSTAT

MODEL 3316155.000 COOL/FURNACE





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

REVISION A

Form No. 3316511.000 12/15 French (3316572.000) ©2015 Dometic Corporation LaGrange, IN 46761

INTRODUCTION

This Single Zone LCD thermostat (hereinafter referred to as "SZ LCD thermostat" or "product") is designed and intended for use in a Recreational Vehicle (hereinafter referred to as RV). Use these instructions to ensure correct installation, function, and operation of product.

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

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SERVICE - UNIT DOES NOT OPERATE				

DOCUMENT SYMBOLS



Indicates additional information that is **NOT** related to physical injury.



Indicates step-by-step instructions.

FAMILIARIZATION

To familiarize yourself with operation of your new SZ LCD thermostat, review the following diagrams and accompanying text explaining functional characteristics of this system.

A. Features

- Liquid Crystal Display (LCD)
- Green LED Mode Indicators
- Auto Fan
- Indoor Temperature Display
- Air conditioner can provide additional indoor air circulation during furnace operation.

B. System Initialization

A system initialization will need to be performed by installer after system installation.

- 1. Make sure SZ LCD thermostat is Off. See
- Press the + button, and simultaneously press and hold the On/Off Mode button for three seconds. LCD will show "- -".
- Press the On/Off Mode button again to turn system off.
 This completes system initialization.

 Furnace On/Off temperature differential should be set at this time. See "C. "Furnace" Furnace Mode" on page (7) for more information.

C. Factory Preset Settings

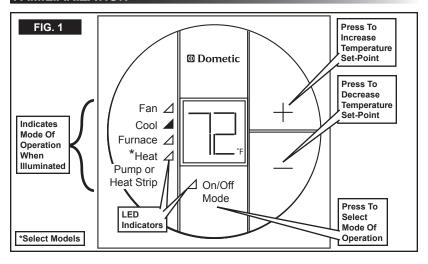
SZ LCD thermostat is pre-programmed. Review settings below and adjust for personal comfort level.

Factory Preset Settings			
Heating	68°F / 20°C		
Cooling	72°F / 22°C		
Fan Speed	Auto		
Mode	Off		
Furnace Differential	2°F		

D. Quick Reference

See (FIG. 1) for control button quick reference.

FAMILIARIZATION



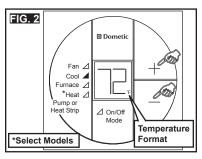
PROGRAMMING AND OPERATION

A. On/Off

To turn On the SZ LCD thermostat, press On/Off Mode button. To turn Off the SZ LCD thermostat press the On/Off Mode button and toggle through modes until On/Off green LED is on.
LCD will go out while the green LED will remain on for approximately 15 seconds, then go out.

B. Temperature Format °F / °C

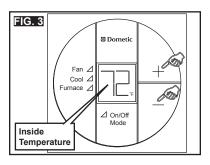
Simultaneously press the + and - buttons to toggle between Fahrenheit and Centigrade format. °F indicates Fahrenheit and °C indicates Centigrade. See (FIG. 2).



PROGRAMMING AND OPERATION

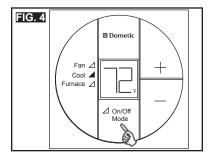
C. Inside Temperature

 To display the Inside Temperature, SZ LCD thermostat must be in Off Mode. Press either + or - button to display the Inside Temperature. See (FIG. 3).



D. Mode Selection

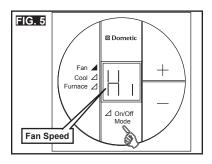
Press On/Off Mode button to advance through available modes. Each successive press will
advance to next available mode. The green LED will indicate mode selected. See (FIG. 4).
Dependent upon systems installed, options will be Off, Fan, Cool, Furnace, Heat Pump, or
Heat Strip. See "Mode Description" on page (7) for more information.



PROGRAMMING AND OPERATION

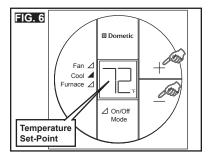
E. Fan Speed

 Press On/Off Mode button until Fan green LED illuminates. See (FIG. 5)The LCD will show "Lo" (Low), "Hi" (High), or "Au" (Auto). Press the + or - button to select desired fan speed. See "A. Auto Fan" on page (8) for more information.



F. Temperature Set-Point

 Press On/Off Mode button to change temperature set-point. Temperature set-point is indicated by two digits on LCD. Press + to increase or - to decrease temperature. The maximum set-point for the system is 90°F. The minimum set point is determined by active operating mode. For heating, the minimum is 40°F and minimum for cooling is 55°F. See (FIG. 6).



MODE DESCRIPTION

A. "Off" - Off Mode

 When selected, LCD will be blank and the Off green LED will turn on for 15 seconds, then turn off.

B. "Cool" - Cool Mode

- In Cool Mode, system will cycle compressor On and Off based on room air temperature and temperature set-point on SZ LCD thermostat. Fan will turn on first, followed by the compressor approximately 2 minutes later. There are 3 fan speeds in Cool Mode.
 - "Lo" (Low): Fan operates continuously at low speed. The compressor cycles On and Off.
 - b. "Hi" (High): Fan operates continuously at high speed. The compressor cycles On and Off
 - c. "Au" (Auto): Fan speed will vary depending on difference between the temperature setpoint and room air temperature. The compressor and the fan will cycle On and Off with thermostat. See "A. Auto Fan" on page (8) for more information.

C. "Furnace" - Furnace Mode

- 1. There are 3 fan speeds in Furnace Mode.
 - a. "Lo" (Low): Fan operates continuously at low speed.
 - b. "Hi" (High): Fan operates continuously at high speed.
 - c. "Au" (Auto): Fan is Off.
 - If additional indoor air circulation provided by the air conditioner is **NOT** desired during Furnace Mode of operation, select Au (Auto) in the Fan Mode to shut the air conditioner fan off. If "Lo" (Low) or "Hi" (High) is selected, the air conditioner fan will continue to operate at selected speed.
- 2. In Furnace Mode system will cycle RV furnace On and Off based on room air temperature and temperature set-point on SZ LCD thermostat. SZ LCD thermostat can be configured to operate using an On/Off differential of either 1°F or 2°F. This feature is programmed during the system initialization. See "B. System Initialization" on page (3).
- To set temperature differential, system must be Off. Press button and simultaneously press and hold On/Off Mode button for three seconds. Press + button to toggle between "d1" and "d2", "d1" for 1°F differential and "d2" for 2°F differential.

D. "Heat Pump" - Heat Pump Mode (Select Models)

- In Heat Pump Mode, system will cycle compressor On and Off based on room air temperature and temperature set-point on SZ LCD thermostat. When system calls for heating there will be a delay of approximately 2 minutes. There are 3 fan speeds in Heat Pump Mode.
 - "Lo" (Low): Fan operates continuously at low speed. The compressor cycles On and Off.
 - "Hi" (High): Fan operates continuously at high speed. The compressor cycles On and Off.

MODE DESCRIPTION

- c. "Au" (Auto): Fan speed will vary depending on difference between the temperature set-point and room air temperature. The compressor and the fan will cycle On and Off with thermostat. Compressor shuts off first followed by fan in approximately 15 seconds. See "A. Auto Fan" on page (8) for more information.
- This mode of operation is a customer option usually selected when temperatures are below
 70°F and customer needs warmth in living space rather than cool down. This reverses refrigerant flow in the air conditioner, causing warm air to be dispensed inside rather than cold, and
 cold air is dispensed outside rather than warm.
- 3. This mode of operation can cause a dilemma where the outside coil, which is now dispensing cold air can freeze up due to cold air blowing across the coil mixed with outside temperature. A system freeze up can render heat pump inoperable. There is a defrost feature that will prevent this from happening. See "C. Defrost Cycle" on page (9) for more information.

E. "Heat Strip" - Heat Strip Mode (Select Models)

- In Heat Strip Mode, system will cycle heat strip On and Off based on room air temperature and temperature set-point on SZ LCD thermostat. There are 3 fan speeds in Heat Strip Mode.
 - a. "Lo" (Low): Fan operates continuously at low speed. Heat strip cycles On and Off.
 - b. "Hi" (High): Fan operates continuously at high speed. Heat strip cycles On and Off.
 - c. "Au" (Auto): Fan operates in low speed and will cycle On and Off with thermostat.

F. "Fan" - Fan Mode

- 1. There are 3 fan speeds in Fan mode.
 - a. "Lo" (Low): Fan operates continuously at low speed.
 - b. "Hi" (High): Fan operates continuously at high speed.
 - c. "Au" (Auto): Fan is Off.

SPECIAL FEATURES

A. Auto Fan

When auto fan is selected fan speed will vary depending on room temperature and temperature set-point. In auto fan compressor and fan cycle On and Off with thermostat.

When difference is:

> 5°F Fan operates on HIGH < 4°F Fan operates on LOW

B. Compressor Time Delay

A time delay of approximately 2 minutes occurs anytime compressor is required to begin cooling or heat pump cycle.

SPECIAL FEATURES

C. Defrost Cycle

During heat pump operation, if outside coil begins to freeze up, a defrost cycle is initiated that temporarily puts heat pump back into air conditioning mode. This reverses the refrigerant flow and melts ice forming on outside coil. Typically this occurs when outside temperatures are below 42°F and repeats every 25 minutes of compressor run time. During this cycle the unit will cease to provide hot air flow temporarily. This is normal and is **NOT** and indication of malfunction.



Defrost cycling **SHALL** continue until measured temperature of Outside Sensor is ≤ 30°F or > 42°F

D. Low Ambient Heat Pump Lock Out

All heat pumps are constrained to operation at a temperature range determined by outside conditions. Since all heat pumps lose efficiency at low outside ambient temperatures, the heat pump has a lock out feature that prevents heat pump mode of operation when temperatures fall below 30°F. If system is set in Auto Mode fan will be turned OFF. Fan will remain ON if fan setting is set to Low or High. however compressor will not run and there will be no heat function below 30°F.

E. Power Interruption

In the event power to air conditioner or control is interrupted, system will restart with previous setpoints once power is restored.

F. LCD Error Code

When system determines one of the faults listed has occurred, an error code will be displayed on LCD.

Error Code:

- E1 Loss of communication between SZ LCD thermostat and module board. LCD will cycle between E1 and previous mode setting. System will shut down.
- E2 Open circuit or out of range Indoor Temperature Sensor. Heating and cooling operation will be locked out. Fan operation can continue to operate.
- E3 Shorted Indoor Temperature Sensor. Heating and cooling operation will be locked out. Fan operation can continue to operate.
- E4 Open circuit or out of range Outdoor Temperature Sensor (select models). Heat Pump operation will be locked out. Air Conditioner, Fan, and Furnace operation can continue to operate.
- E5 Open Circuit or out of range Freeze Sensor. Air Conditioner mode of operation can continue, but displays the last temperature set-point.

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 RV 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.

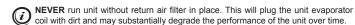
C. Condensation

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.

MAINTENANCE

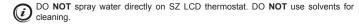
A. Air Filter

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



B. SZ LCD Thermostat

1. Clean SZ LCD thermostat with a moist soft cloth.



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 it 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 vent grille must be removed from ADB to view.
- ADB model and serial number found on rating plate located on ceiling template. Observe
 this rating plate through the filter opening.