



**INSTALLATION AND OPERATING INSTRUCTIONS
FOR THE
INFRARED REMOTE TRANSMITTER**

9330-370* – IR TRANSMITTER



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GENERAL INFORMATION

Description of Product:

The infrared remote works with the IR wall thermostats and IR remote ceiling assemblies offered by RVP for your RV roof top air conditioner or heat pump. The remote system will give you control of both the cooling and heating appliances from the comfort of your favorite chair. This remote control system has new features like ON/OFF timer, auto change over (optional with gas heat appliance) and dry mode (for humidity control).

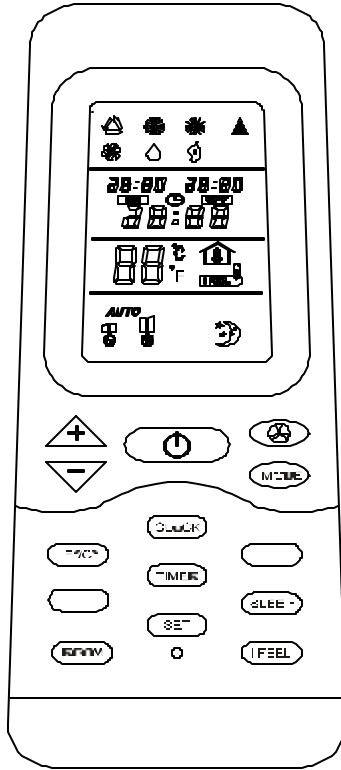
Application:

Recreational Vehicle Air Conditioning & Heating units

Operates with the following:

1. 9330-752 IR REMOTE COOL ONLY CONTROL KIT
2. 9330-757 IR REMOTE HEAT STRIP CONTROL KIT
3. 9530-757 IR REMOTE HEAT PUMP CONTROL KIT
4. 9330-633 IR REMOTE CONTROL CHILL GRILLE CEILING ASSEMBLY
5. 9330-382* IR REMOTE THERMOSTAT COOL ONLY
6. 9330-380* IR REMOTE THERMOSTAT HEAT/COOL
7. 9530-380* IR REMOTE THERMOSTAT HEAT PUMP
8. 9330-378* IR REMOTE THERMOSTAT AND TRANSMITTER KIT

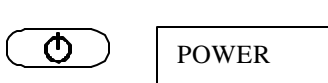
HANDHELD REMOTE



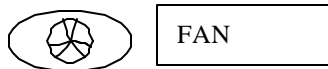
Note:

1. All communications between the remote and IR thermostat are validated only when you hear a beep coming from the IR thermostat.
2. The operation of the unit is updated when the unit is “on” and you hear a beep coming from the IR thermostat.
3. There are built-in time delays that may affect the mode of operation.

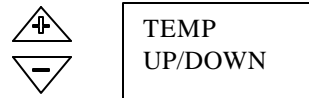
Buttons



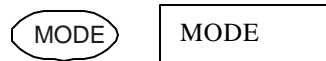
The orange button is used for turning the unit "on" and "off"



Fan speed button is used for selecting fan auto/on & high/low



Up/down arrows are used for adjusting temperature, timer and clock.



“MODE” button scrolls through all the programmed system operating functions

A. COOLING OPERATION

Cool symbol



1. Using the handheld remote, select the cool symbol by pressing the “MODE” button until the cool symbol is displayed.
2. Select a fan speed that best satisfies your need by pressing the fan button located above the “MODE” button:

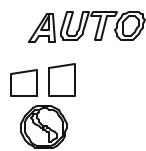
- a. High speed
 - Continuous high fan speed operation
 - Selected when maximum cooling is required.



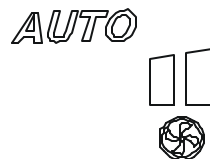
- b. Low speed
 - Continuous low fan speed operation
 - Selected when room reaches desired comfort level and needs to be maintained. Normally this low speed is used for nighttime operation.



- c. Auto low speed
 - Low fan cycles with the compressor



- d. Auto high speed
 - High fan cycles with the compressor



3. Set temperature to the desired level by pushing the up (+) or down (-) button.

B. GAS HEAT OPERATION

(If gas heat appliance is connected to upper unit)

Gas Heat symbol



1. Select gas heat by pressing the “MODE” button until the gas heat symbol is displayed.
2. Set temperature to the desired level by pushing the up(+) or down(-) button.

C. DRY-AIR OPERATION

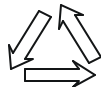
Dry-air symbol



1. Select the dry-air mode by pressing the “MODE” button until the dry-air symbol is displayed.
2. Set temperature to the desired level by pushing the up(+) or down(-) button.
3. In the dry-air mode, the compressor & fan will cycle on and off at different timing intervals depending on the setpoint. If the temperature is above the setpoint, the on cycle is longer than the off cycle to help maintain setpoint. If the temperature is below the setpoint, the off cycle is longer than the on cycle to help maintain setpoint.

D. AUTO CHANGE OVER OPERATION

Auto change symbol

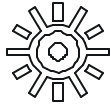


1. Select the auto change over mode by pressing the “MODE” button until the auto change symbol is displayed.
2. Set temperature to the desired level by pushing the up(+) or down(-) button.

(Note: In the auto change over mode the unit will maintain a comfortable temperature throughout the room without the trouble of having to select heat or cool mode. A gas heat appliance and air conditioner must be present and operational before this feature can operate.)

E. ELECTRIC HEAT OPERATION (if equipped with heat strip or heat pump)

Electric Heat symbol



1. Select electric heat by pressing the “MODE” button until the heat symbol is displayed.
2. Set temperature to the desired level by pushing the up (+) or down (-) button.
3. In electric heat mode, if the electric heat appliance is unable to satisfy the setpoint, the gas heat output is energized with the AUX HEAT red LED on at 5°F below setpoint. Both gas heat and electric heat appliances will run simultaneously until the setpoint is satisfied for auxiliary heat.

F. SLEEP OPERATION

Sleep symbol



1. In order for the sleep mode to function properly, you must select either a heat or cool mode of operation.
2. With the room set to a desired temperature, select the sleep mode by pointing to the IR thermostat and pressing the “SLEEP” button, the sleep symbol will display and a beep will sound indicating that the unit is in sleep mode.
(**Note:** In sleep mode the temperature will be offset by 2°F of set point after a 2 hour delay, which means, if the set point was 75°F at ten o'clock (for cooling operation) then in sleep mode it will automatically change to 77°F at twelve o'clock.)

G. FAN ONLY OPERATION

Fan symbol



1. Fan only operation is selected by pressing the “MODE” button until the fan symbol is displayed.
2. Fan high or low speeds are then selected by pressing the fan button located above the “MODE” button. Fan will run continually at the selected speed; it is not controlled by the set point.

H. "I FEEL" OPERATION

"I FEEL" symbol



1. For this mode to operate, the system would have to be selected for electric heat, cool, gas heat or auto change over.
2. Select the "I FEEL" mode by pressing "I FEEL" button, the "I FEEL" symbol will display, a beep will indicate that the unit is in "I FEEL" mode.
3. In "I FEEL" mode the handheld remote then becomes the temperature sensor and therefore must be positioned in line of sight to send updated signals to the IR thermostat regularly.
4. The temperature can then be adjusted to the desired set point from the remote for that specific location.

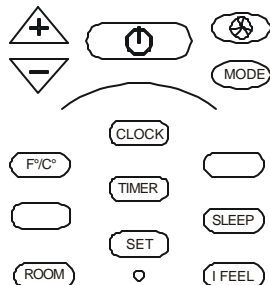
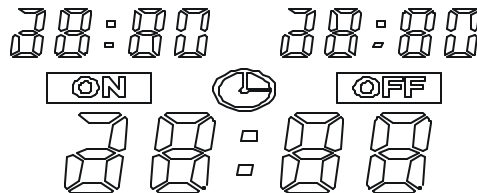
(Note: If the remote is placed in a location where the IR thermostat cannot receive a signal for more than sixteen minutes, the system will ignore the handheld remote and revert back to the IR thermostat as the temperature control device.

The remote should not be positioned in an area that is in direct exposure to sunlight or any other form of heat source).

5. Battery life will be significantly reduced if unit is left in "I FEEL" mode for an extended amount of time.

I. TIMER OPERATION

Note: Everytime the "CLOCK" or "TIMER" button is pressed, the relevant display will blink for 15 seconds giving the operator enough time to start setting. If no button is pushed in 15 seconds, the timer display will disappear.



1. Setting the clock
 - a) When new batteries are installed, the clock will display 0:00
 - b) This clock displays military/aviation time (24 hour format) only. See page 11 for a table to convert 24 hour to 12 hour format.
 - c) Press the "CLOCK" button, the clock "display" should blink, press the up or down button to set the clock e.g. 1:00PM is 13:00
 - d) Press the "SET" button.

2. Setting the timer to "ON"
 - a) Press the "TIMER" button, the timer "on" clock will turn on indicated by a blinking "on" symbol
 - b) Set the timer by pressing the up or down button, when finished, point to the IR thermostat, press the "SET" button and listen for a beep to validate the timer.
 - c) When the timer "on" mode is activated and the timer & clock are synchronized, the unit will turn "on" at the current selection as displayed on the remote at the selected time.

3. Setting the timer to "OFF"
 - a) Press the "TIMER" button twice, the timer "off" clock will turn on indicated by a blinking "off" symbol
 - b) Set the timer by pressing the up or down button, when finished, point to the IR thermostat, press the "SET" button and listen for a beep to validate the timer.
 - c) When the timer "off" mode is activated and the timer & clock are synchronized, the unit will turn off at the selected time.

4. Setting the timer to 'ON' & 'OFF'
 - a) This mode allows the operator to set the system to run for a certain period of time.
 - b) Press the "TIMER" button three times, the timer "on" clock will blink while the timer "off" clock is displayed solid on.
 - c) Set the timer "on" by pressing the up or down button, when finished, press the timer button again to set timer "off".
 - d) When timers are set, point to the IR thermostat, press the "SET" button and listen for a beep to validate the timer "on" and timer "off" settings.
 - e) When the timer mode is activated and the timer & clock are synchronized, the unit will turn on and off at the selected times.

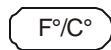
J. ROOM TEMPERATURE DISPLAY

Room Symbol



Press the "ROOM" button to display room temperature at the remote.

K. F°/C° DISPLAY

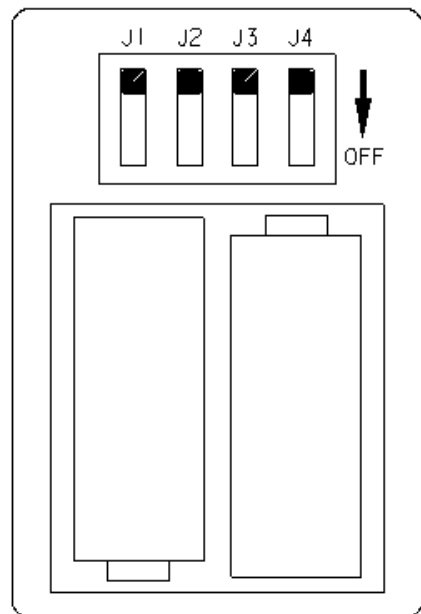


Press the "F°/C°" button to display temperature in either degrees Fahrenheit or Celsius.

L. MOUNTING AND CONFIGURING THE HANDHELD TRANSMITTER

1. To attach the handheld transmitter on a wall separate the transmitter from the wall mount bracket. Then attach the wall mount bracket to the wall at the desired mounting location using the two screws provided.
2. To configure the handheld transmitter remove the battery compartment cover and batteries. The transmitter will come with the dip switches J1 and J4 in the "OFF" position. It is optional to move the dip switch J2 to the "OFF" position for those applications without a gas appliance installed. It is required to move the dip switch J4 to the "ON" position for those applications with an electric heat appliance installed. Then reinstall the batteries and cover.
3. Place the transmitter in the wall mount bracket and installation is now complete.

BATTERY COMPARTMENT



Note: The temperature sensor in the transmitter can be affected by the surrounding conditions: such as direct sunlight, windows, outside doors, supply registers, or heat producing appliances (television, radio, wall lamp, etc.).

M. TROUBLE SHOOTING GUIDE

TROUBLESHOOTING

Symptom	Remedy
Remote does not turn on system	Check and replace remote batteries if the display fades while any button is activated, no display is present or the low battery indicator is displayed. Point remote towards IR thermostat during transmission.
System does not turn on & no beep	Check wiring. (see "wiring diagram") Low or over voltage condition, check 12VDC at the thermostat or control box.
System runs continuously in the cool mode	Remote was set for "I feel" mode and is left in a heated environment (sun etc.)
System runs continuously in the heat mode	Remote was set for "I feel" mode and is left in a cool environment

N. 24 HOUR CLOCK TABLE

1. Table to convert the 24 hour clock format (military/aviation time) to the 12 hour clock format.

24 HOUR	12 HOUR	24 HOUR	12 HOUR
0:00	12:00 AM	12:00	12:00 PM
1:00	1:00 AM	13:00	1:00 PM
2:00	2:00 AM	14:00	2:00 PM
3:00	3:00 AM	15:00	3:00 PM
4:00	4:00 AM	16:00	4:00 PM
5:00	5:00 AM	17:00	5:00 PM
6:00	6:00 AM	18:00	6:00 PM
7:00	7:00 AM	19:00	7:00 PM
8:00	8:00 AM	20:00	8:00 PM
9:00	9:00 AM	21:00	9:00 PM
10:00	10:00 AM	22:00	10:00 PM
11:00	11:00 AM	23:00	11:00 PM



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