3.12 Installation and Removal of Unit When Optional Back is Used

TO REMOVE

1. Break power to furnace.
2. Remove vent cap assembly.
3. Remove optional back.
4. Disconnect power supply at furnace.
5. Disconnect power supply plug from module board.
6. Disconnect electrode wire from module board.
7. Remove the two (2) screws securing module board and panel assembly to firewall and pull out assembly. EXERCISE CARE NOT TO DAMAGE BOARD.

NOTICE
This will allow more room for making the gas connections at the flare fitting. It will be necessary to hold the flare fitting with a wrench when tightening or loosening the gas line.

8. Remove gas line.
9. Remove tie-down screw at blower base and remove furnace from cabinet.

TO REINSTALL

1. Slide unit into cabinet and secure with screw at base of blower.
2. Connect gas line.
3. Check gas connections for leaks using a soap and water solution. Correct any gas leaks immediately.
4. Reinstall module board and panel assembly.
5. Reconnect electrode wire to board
6. Reconnect power supply to board.
7. Reconnect power to furnace. NOTE: If this connection was made inside the cabinet, care must be exercised to prevent wires from coming in contact with the room air blower wheel.
8. Reinstall optional back.
9. Reinstall vent cap.
10. Provide power to furnace.

4 Operation

4.1 Operating Instructions

WARNING
Do not operate furnace while vehicle is in motion or being towed.

NOTICE
During initial firing of this furnace, a burn-off of excess oils remaining from manufacturing process may cause "smoking" for 5 - 10 minutes.

1. Stop! Read Users Information Manual supplied with furnace.
2. Turn off the manual valve (if so equipped) or the valve at the outside LP tank . Do not force.
3. Set Wired controller above room temperature to begin blower operation. A slight delay will occur before the blower comes on. Allow blower to run for 5 minutes for combustion chamber purge cycle. If blower does not come on or stops before ignition cycle, go to shut down and contact your dealer or a local recreational vehicle service agency.
4. After 5 minutes, Press the power button, the remote control screen goes off, and the machine is turned off. Blower will remain on. Wait approximately 2 minutes for blower to go off.
5. Open manual shut-off valve (if so equipped) or the valve at the outside LP tank. Correct operating characteristics depend on the valve being positioned fully open. Never attempt to operate with a valve partially closed. NOTE: This furnace has a gas shut-off switch. With the switch turned OFF, gas will not flow to burner nor will the furnace operate.
6. Set Wired controller to desired setting. If set above room temperature, blower will come on.
7. When the ambient temperature reaches the set temperature, the machine will enter standby mode. When the conditions for restarting are met, the machine will be notified to initiate the startup process again.
8. Allow 30 seconds for main burner to light after blower comes on. This furnace is equipped with an ignition device which automatically lights the burner. The flame indicator light on the remote control is on. Do not try to light the burner by hand.

9. If burner does not light, The prompt code is displayed, press the power button to shut down, and the remote control screen goes off. Wait until blower stops, repeat Steps 1 through 8.
10. If after three (3) attempts with no ignition, go to shut down and contact your dealer or a local recreational vehicle service agency. Do not continue to cycle furnace through thermostat in an attempt to get ignition. NOTE: If furnace should lock out, the blower will go off in 5 minutes and remain off until unit is reset by reactivating thermostat.

TO SHUT DOWN

1. Set the thermostat to lowest setting, Press the power button to shut down.
2. Turn off manual shut-off valve (if so equipped). Do not force.

4.2 Electrode Adjustment

For consistent ignition of the burner, it is important that the electrode be positioned properly over the top of the burner. The electrode was set at the factory for proper ignition and should not need further adjustment.

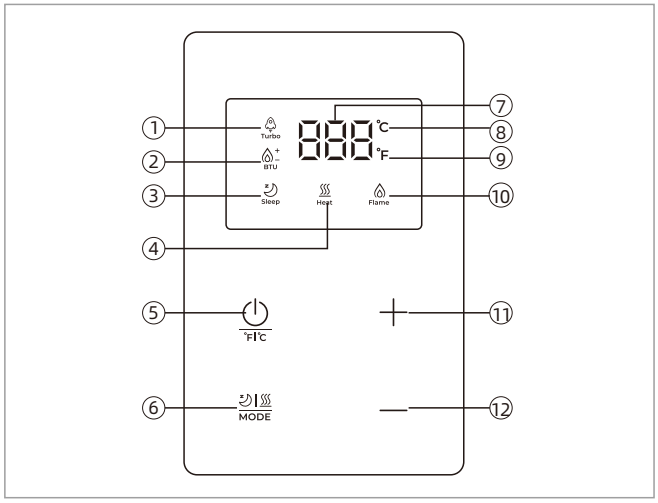
NOTICE

If you should experience inconsistent ignition, Please contact after-sales personnel for processing. Do not repair it yourself, otherwise it will be dangerous and cause losses and casualties.

4.3 Wired controller use

The included controller (thermostat) differs based on the SKU, Refer to the list below:

4.3.1 RF035 series: Smart corded Thermostat



① Quick Heat Mode
② Heater Power Setting
③ Sleep mode
④ Normal Heating Mode
⑤ Switch button
Fahrenheit/Celsius Priority
⑥ Mode Switch
Power Setting
⑦ Display Power Setting
Display Setting Temperature
Display Fault Code
⑧ Celsius display
⑨ Fahrenheit display
⑩ Flame
⑪ Heat up button
⑫ Heat down button

°F	°C	°F	°C
50	10	79	26
52	11	81	27
54	12	82	28
55	13	84	29
57	14	86	30
59	15	88	31
61	16	90	32
63	17	91	33
64	18	93	34
66	19	95	35
68	20	97	36
70	21	99	37
72	22	100	38
73	23	102	39
75	24	104	40
77	25		

°F|°C Power on and off:

1. When the power is just turned on, the furnace will display the machine gas code, then the full screen will light up, then the set temperature will be displayed, and finally the screen will turn off.
2. Power on: Press the power button, the screen lights up, and the furnace enters quick heat mode mode with a power output of 35KBTU. If the ambient temperature is lower than the set temperature, the furnace will start. If the ambient temperature is higher than the set temperature, the furnace will enter standby mode and switch to normal heating mode.
3. Power off: Press the power button, the furnace will immediately turn off the screen and notify the shutdown. If the furnace is working at the time, it will only turn off the gas, and the fan will continue to work for 90 seconds.

°F|°C Switch between Celsius and Fahrenheit:

1. Press and hold the power button for more than 5 seconds to switch the temperature display mode on the wired controller, displaying in either Celsius or Fahrenheit.

MODE Mode Switch:

1. Press the mode button to switch the furnace between normal mode and sleep mode as designed. It can only toggle between these two modes. Pressing once will switch the function.

MODE Power Setting:

1. Press and hold the mode button for 3 seconds to set the furnace to the normal mode power setting. The display will switch from the temperature to the power setting.
2. Press the increase button to raise the power level by one increment.
3. Press the decrease button to lower the power level by one increment.
4. Press and hold the mode button for 3 seconds to confirm, or it will automatically confirm after 5 seconds. The display will switch from the power setting back to the temperature setting interface (refer to the following table for power level and settings).

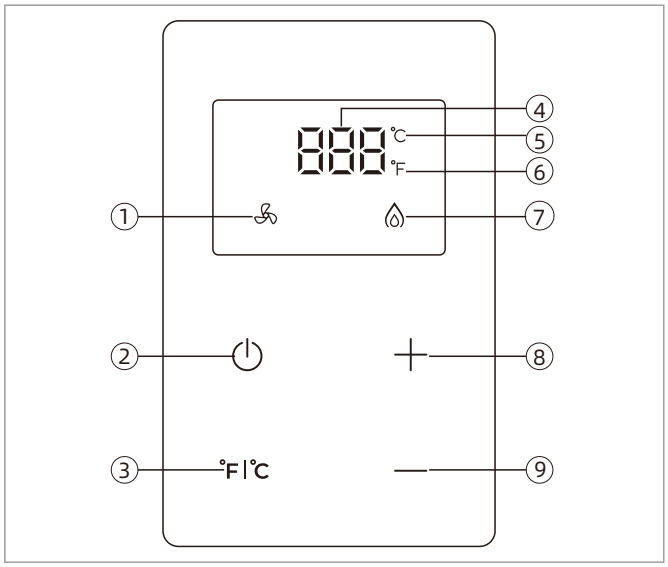
Code	P35	P30	P25	P17
BTU	35000	30000	25000	17000

Steps to Setting Temperature:

1. The setting range of the outlet fan temperature of this machine is 50 °F - 104 °F (10 °C - 40 °C); Outlet fan temperature is designed not to exceed 104 °F (40 °C).
2. Each time you press the " + " key, the temperature will increase by 1 °C.
3. Each time you press the " - " key, the temperature will decrease by 1 °C.

* See following fahrenheit and celsius comparison table for reference. Celsius degree and fahrenheit degree comparison.

4.3.2 RF025 & RF030 series: Wired Controller



① Fan Status
② Switch button
③ Fahrenheit/Celsius Priority
④ Display setting temperature
Display fault code
⑤ Celsius display
⑥ Fahrenheit display
⑦ Flame
⑧ Heat up button
⑨ Heat down button

°F	°C	°F	°C
50	10	79	26
52	11	81	27
54	12	82	28
55	13	84	29
57	14	86	30
59	15	88	31
61	16	90	32
63	17	91	33
64	18	93	34
66	19	95	35
68	20	97	36
70	21	99	37
72	22	100	38
73	23	102	39
75	24	104	40
77	25		

Power on and off:

1. When the power is just turned on, the furnace will display the furnace gas code, then the full screen will light up, then the set temperature will be displayed, and finally the screen will turn off.
2. Power on: Press the power button, the screen will light up, the heater will enter the standby state, and the ambient temperature will drop to a certain level, the furnace will automatically start working.
3. Power off: Press the power button, the furnace will immediately turn off the screen and notify the shutdown. If the furnace is working at the time, it will only turn off the gas, and the fan will continue to work for 90 seconds.

℉|℃ Switch between Celsius and Fahrenheit:

1. Press and hold the function key for more than 5 seconds to switch the temperature display mode on the wired controller, displaying in Celsius or Fahrenheit.

Steps to Setting Temperature:

1. The setting range of the outlet fan temperature of this machine is 50 °F - 104 °F (10 °C - 40 °C); Outlet fan temperature is designed not to exceed 104 °F (40 °C).
2. Each time you press the " + " key, the temperature will increase by 1 °C.
3. Each time you press the " - " key, the temperature will decrease by 1 °C.

* See following fahrenheit and celsius comparison table for reference. Celsius degree and fahrenheit degree comparison.