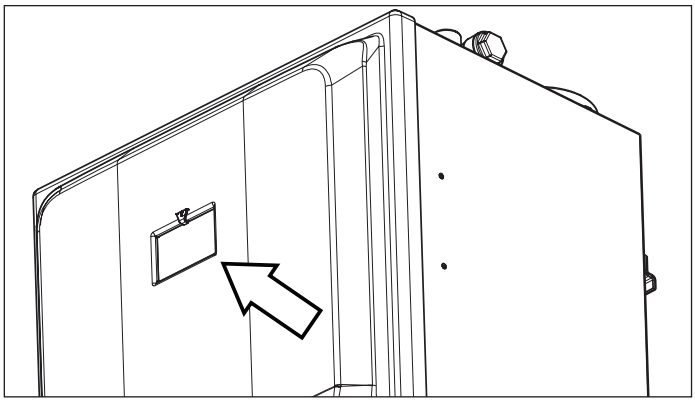
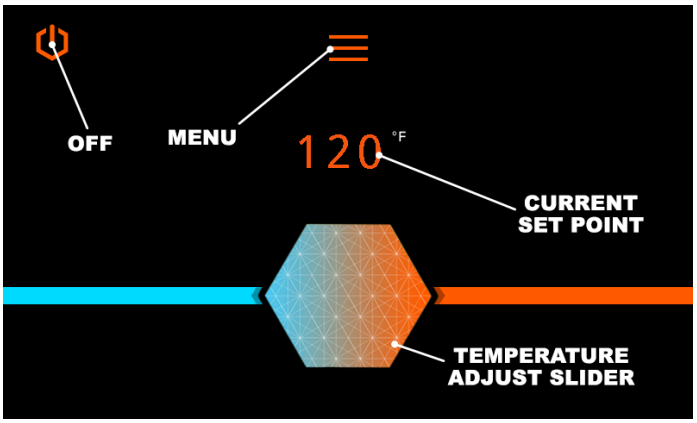
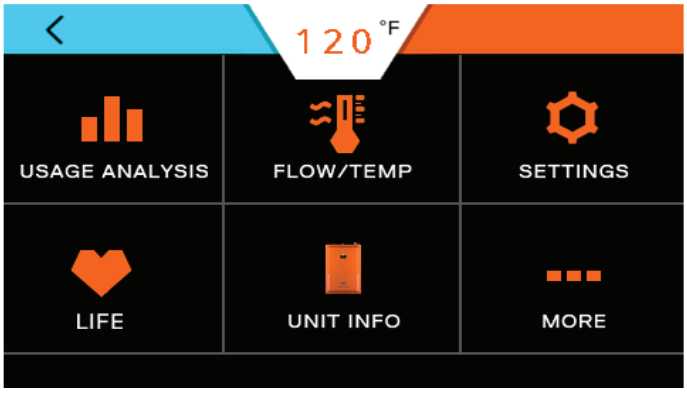
12. Operation

12.1 Control Panel

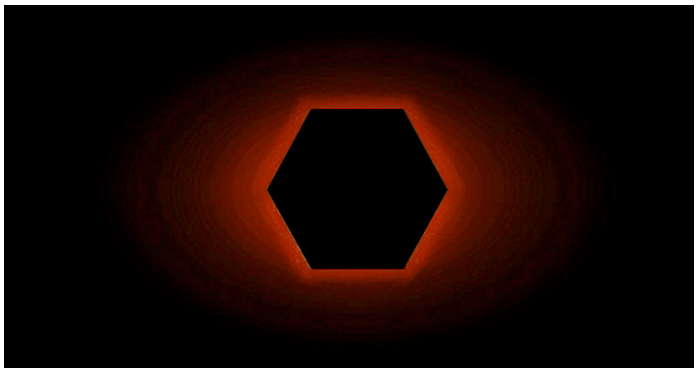




Main Menu Screen.



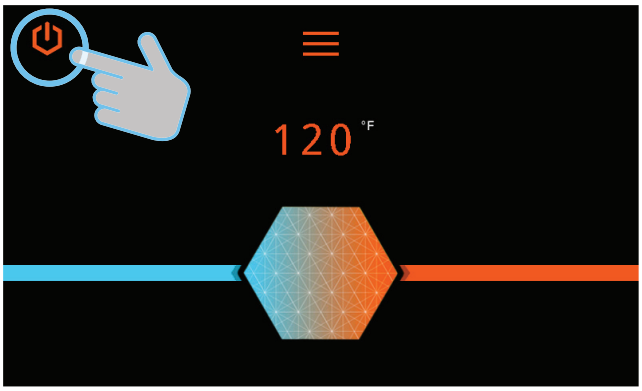
Selecting the Menu button brings up this screen.



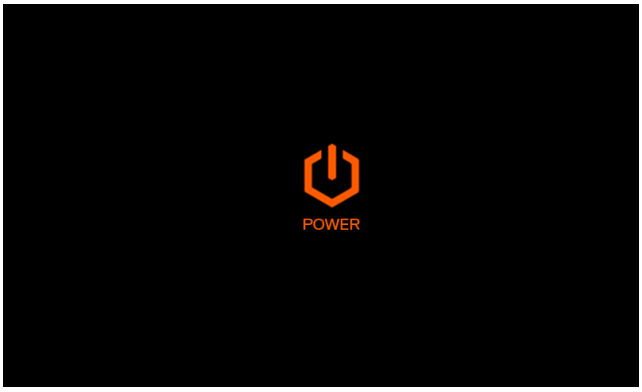
A sleep mode screen will appear after a period of inactivity.

12.2 Turning Water Heater ON and OFF

1. When the power cord is plugged in the Main Menu screen will automatically appear.
2. To turn the water heater OFF, press and hold the Power button in the upper left of the screen.



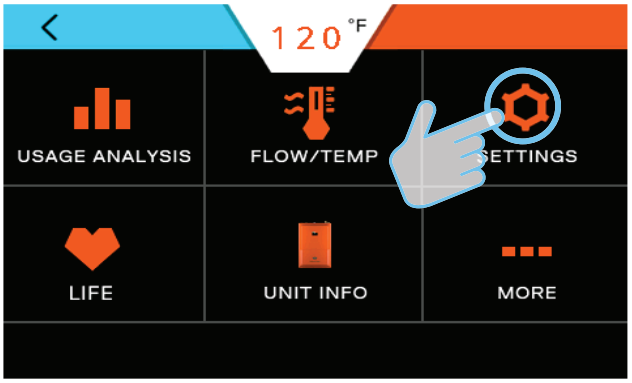
3. Press the Power button to turn the unit ON.

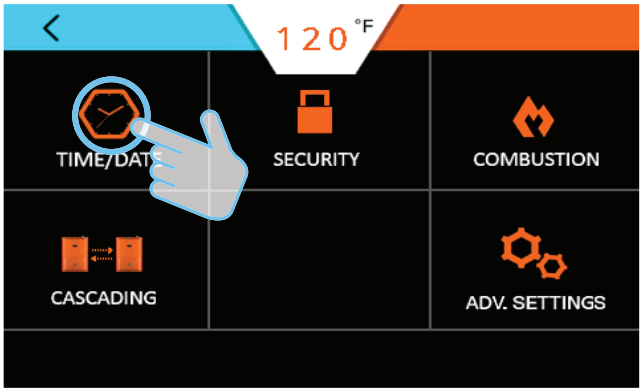


⚠ WARNING

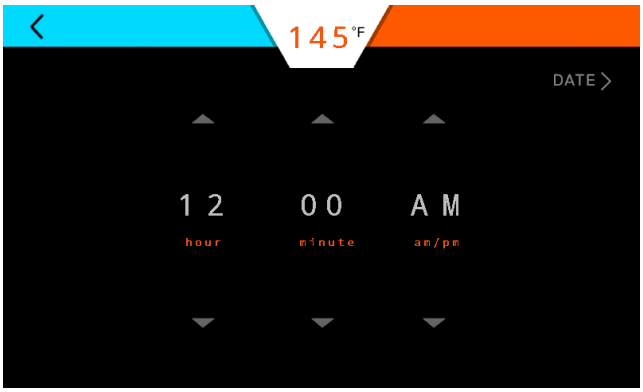
Turning the unit OFF does not disconnect it from the power source. Whenever working around electrical components within the water heater, turn OFF the power at its source. Touching live electrical components can cause serious injury or death.

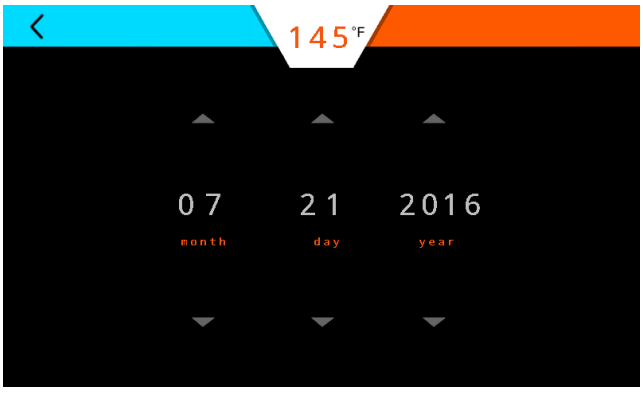
12.3 Setting the Time





Press the Up/Down arrows to make adjustments. Press the Back button to return to the main screen.





12.4 Adjusting the Water Temperature

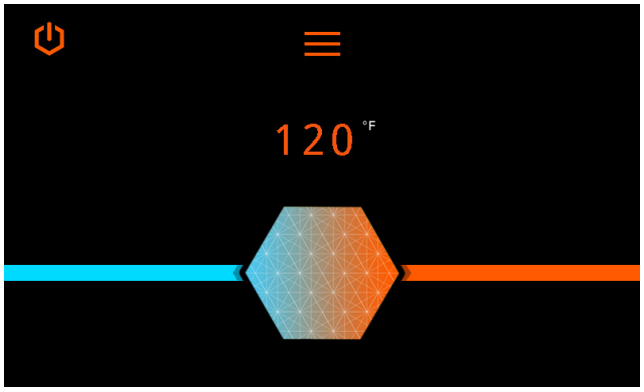
Note: The outlet water temperature is factory preset to 120°F; however, these commercial water heaters are capable of heating water to 190°F.

⚠ DANGER

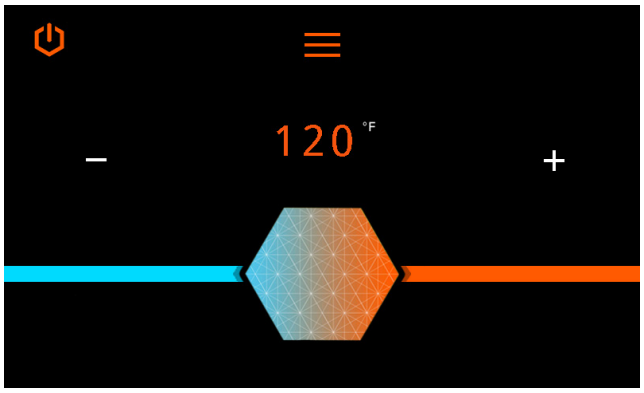
Hot water temperature over 125°F (52°C) can instantly cause severe burns or death from scalding. Children, the disabled, and the elderly are at the highest risk of being scalded. Do not leave children or the infirmed unsupervised. Check temperature of hot water before taking a shower or bath. To control water temperature to a particular faucet, temperature limiting valves can be installed by your service professional.

All water faucets must be closed before changing the temperature setting. The unit must not be operating.

1. Firmly press the slider and slide it to the right to increase the temperature or to the left to decrease. Firmly hold the icon until the current set point on the display reaches the desired temperature.



2. For finer temperature adjustments, use the (+) and (–) icons.



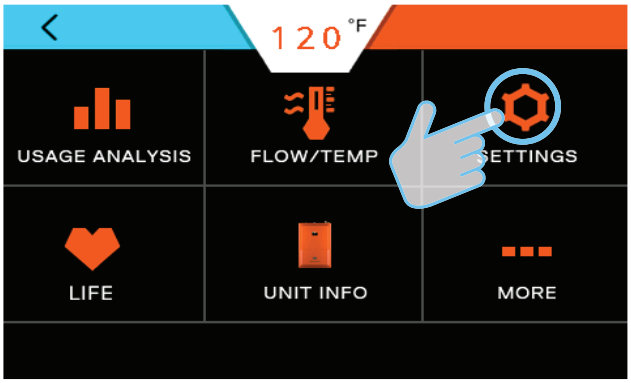
3. Follow any prompts shown on the screen.

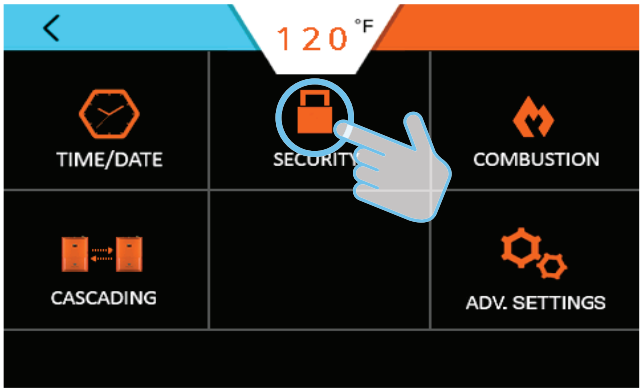
12.5 Security

12.5.1 Setting Passcode Protection

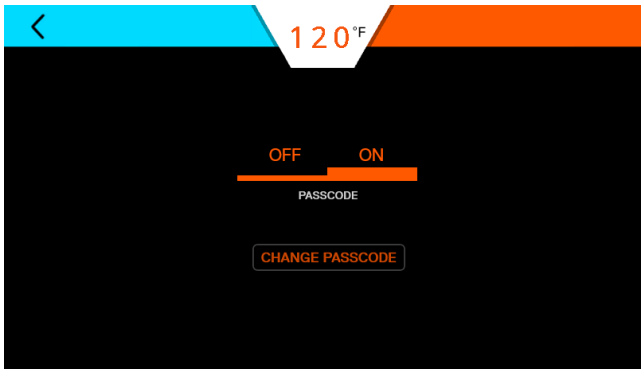
It is not necessary to set a passcode for the water heater to function properly. This feature is available to help prevent unauthorized access to the unit.

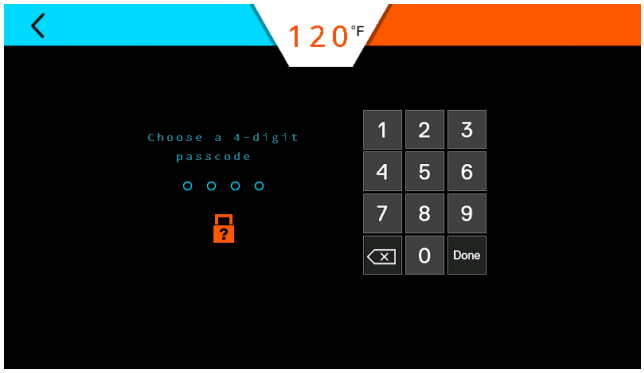
If a passcode is set, it must be entered prior to accessing the main screen.





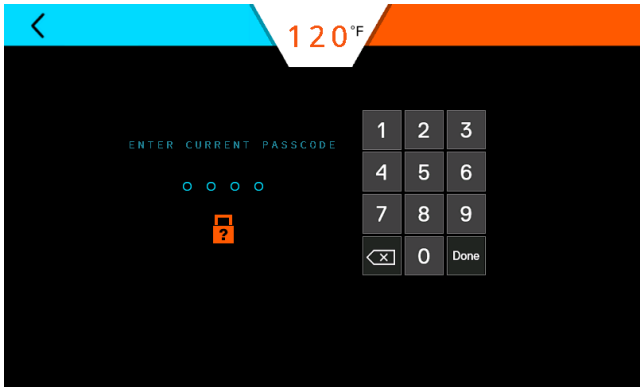
Press ON/OFF and follow the prompts.

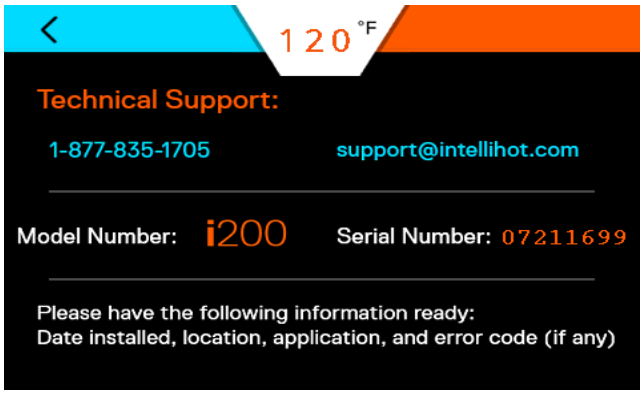




12.5.2 Forgot Passcode

If the unit passcode is lost or forgotten, press the "?" icon on the screen which opens the technical support screen. Call to obtain the passcode.

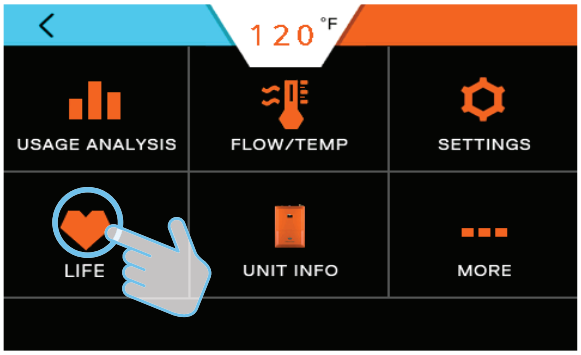


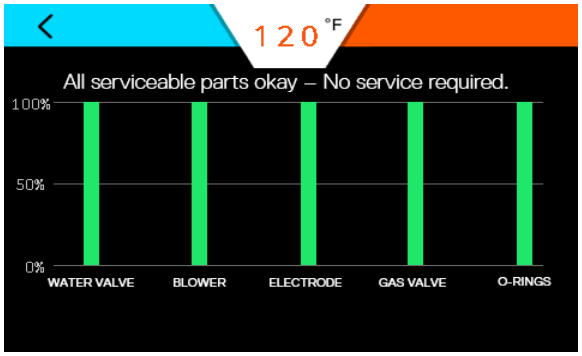


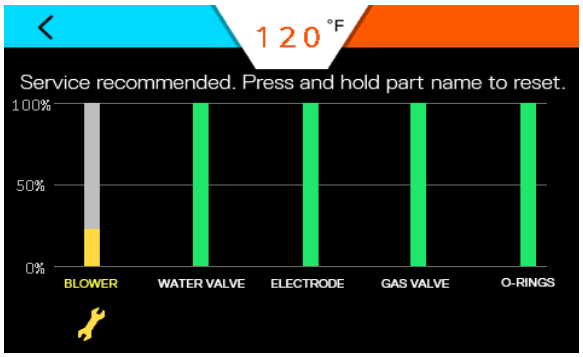
12.6 Life Screen

These screens provide a visual indication of the remaining life of various components.

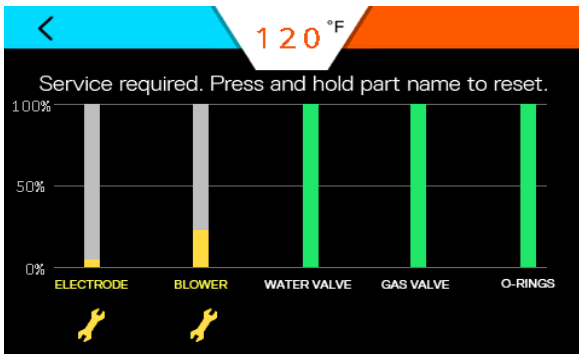
Note: Parts can be ordered by contacting technical support.







Service recommended: Order appropriate replacement part as soon as possible. To reset life, press and hold the appropriate bar and follow the prompts.

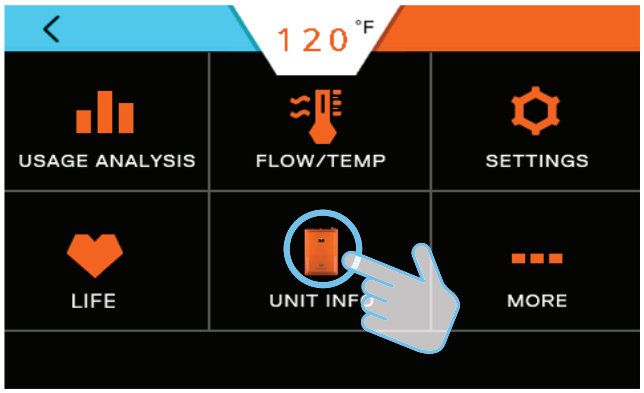


Service required: Take IMMEDIATE action when this screen appears because the part life is critical. To reset life, press and hold the appropriate bar and follow the prompts.

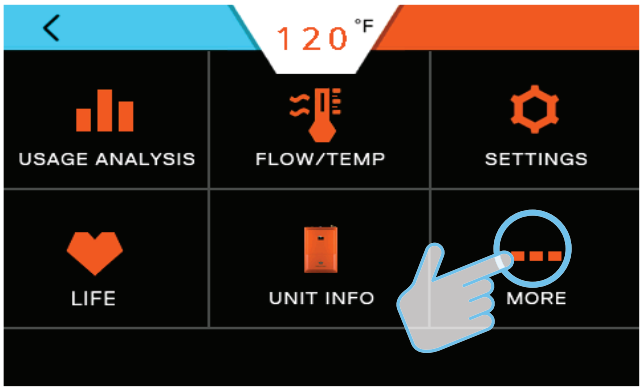
Service Alert	Reset Code
Electrode	0836
Blower	2009
Time Valve (Water Valve)	0721
Gas Valve	0682
O-Ring (at the HEX inlet & HEX outlet)	0310

12.7 Unit Information

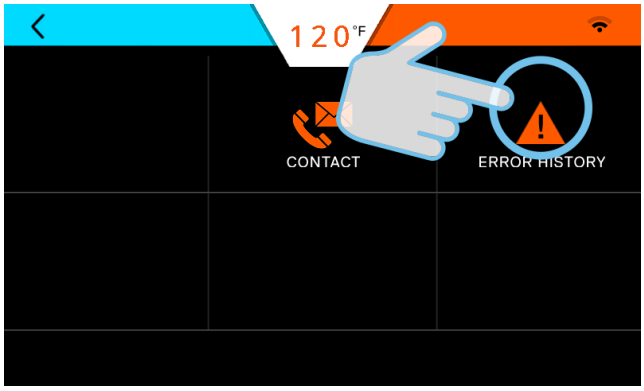
This screen provides the model, software version, serial number, and a link to the contact technical support.



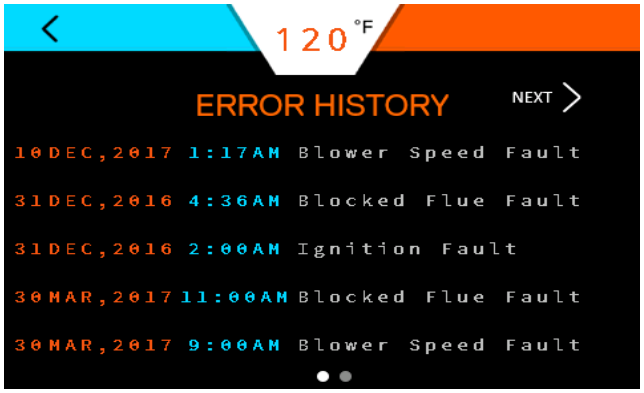
12.8 More Screens



12.8.1 Error History



The error history screens provides an overview of the entire unit.



13. Connecting Multiple Units

13.1 General Information

Multiple units can be connected together to supply large demands of hot water.

Note: Please refer to the table below for the cascading support.

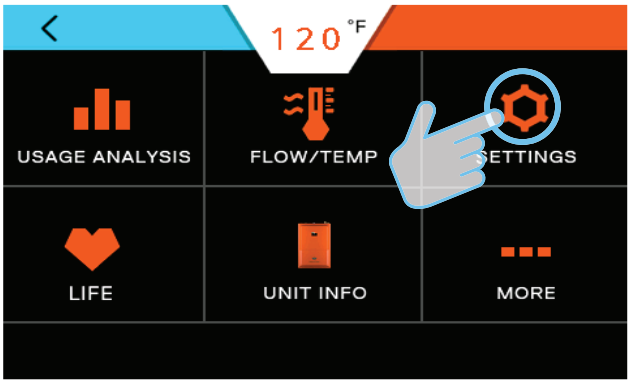
Model (Max Number of Cascaded Units)	i200	i250
i200	Yes (Max 10)	Yes (Max 10)
i250	Yes (Max 10)	Yes (Max 10)
iQ251, iQ251D, iN401, iN501, iQ751, iQ1001, iQ1501, iQ2001 and iQ3001	Not Supported	

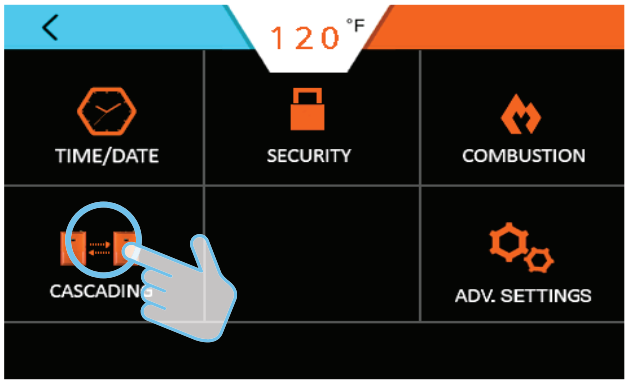
- When demand for hot water is low, fewer units will operate.
- If one unit has an error code, the others will continue to operate.
- Changing the settings (temperature, time, etc.) on one unit changes settings on all the units.
- It allows shut down of one unit for maintenance while the others continue to operate.

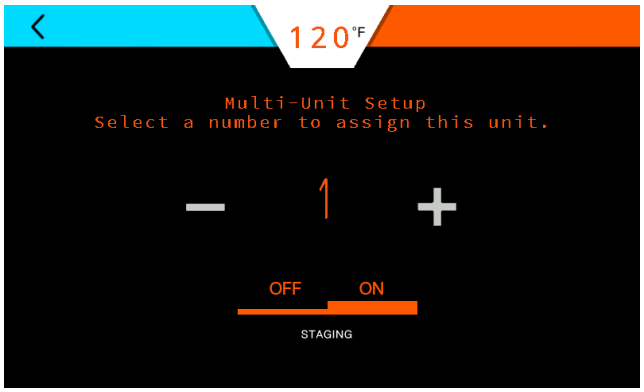
The water heaters communicate through a cable connection between each water heater. The benefits of connecting the units are:

13.2 Installation Procedure

1. Connect all the units to a gas supply pipe. Make sure the pipe is properly sized in accordance with the BTU draw and number of units being operated. Refer to “6. Gas Connection” on page 14 for additional information.
2. Connect all the units to the power supply. Refer to “9. Electrical” on page 34 for additional information.
3. Install the air intake inlet and exhaust gas outlet pipes. Refer to “7. Air Intake Inlet and Exhaust Gas Outlet Pipe Connections” on page 18 for additional information.
4. Install and connect the hot water pipes. If an optional hot water storage tank is required, connect the hot water pipes to this tank. Make sure the water pipe is properly sized in accordance with the number of units being operated. Refer to “8. Water Connections” on page 29 for additional information.
5. Install and connect the cold water pipes. Make sure the water pipe is properly sized in accordance with the number of units being operated. Refer to “8. Water Connections” on page 29 for additional information.
6. Connect and route the condensate drain lines to a suitable discharge location. Refer to “8. Water Connections” on page 29 for additional information.
7. **Do Not** connect communication cables at this time.
8. Power up all the units and assign a unique number, one through ten to each unit. Set the STAGING to ON.





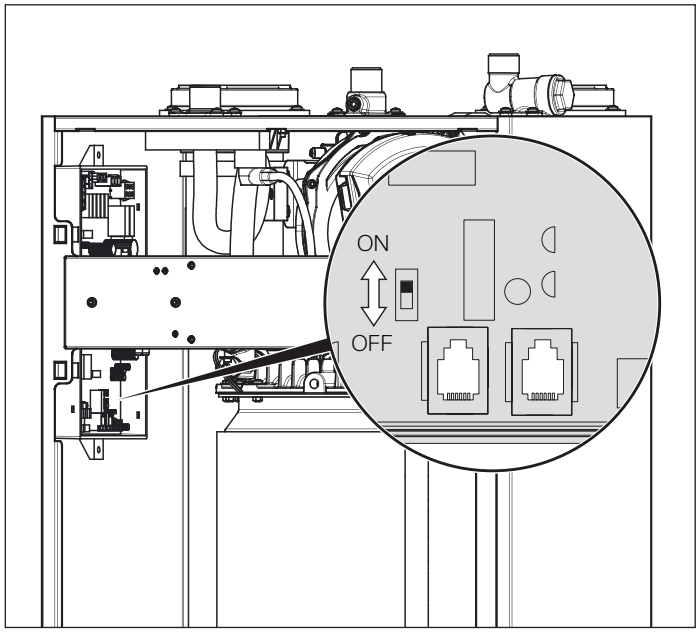


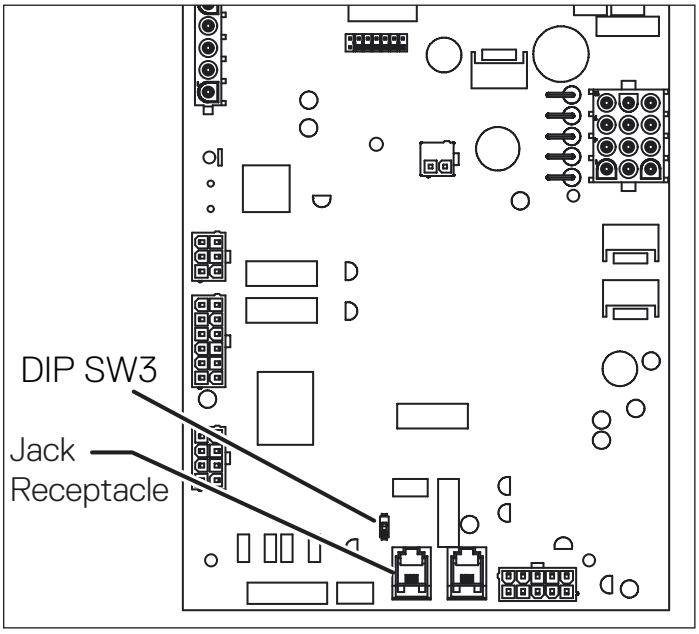
⚠ WARNING

Before making any adjustments or connections inside the water heater cabinet, make sure the power is disconnected. Unplug the water and/or turn the circuit breaker OFF.

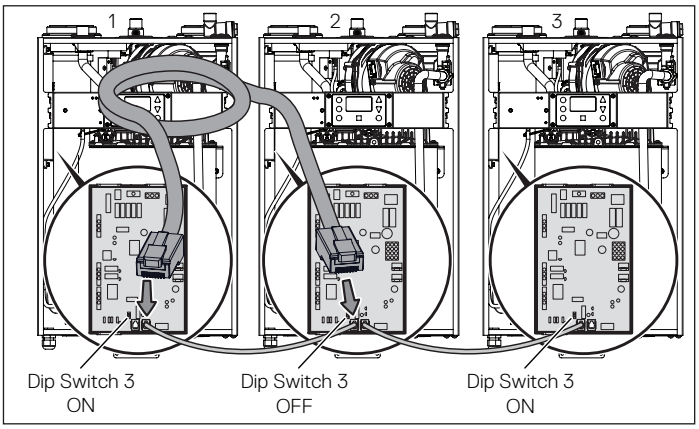
9. If necessary, press the Power button to turn OFF each water heater in the system and disconnect power from all the units in the system.

10. Remove the front cover and locate the main circuit board.
11. Set DIP switch 3 on the electronic board on all units.
    a. On the first water heater, locate DIP Switch 3 on the circuit board. Position the switch in the ON position.
    b. On any water heater unit between the first and last unit, position all DIP switch 3 switches in the OFF position.
    c. On the last water heater, locate DIP Switch 3. Position the switch in the ON position.

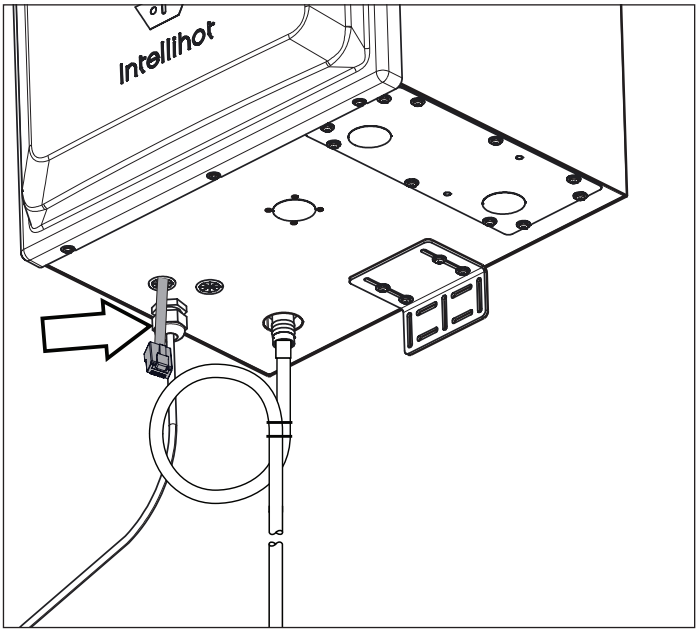




12. Using the supplied cables, connect one end of a cable into either of two jack receptacles (arrows) located on the circuit board and the other end to the jack in the next unit.



    a. Pass the communication cable, supplied with water heater, through the grommet located in the bottom of the cabinet.



    b. Secure the cable using a zip tie.
    c. Replace the front cover.
13. Reconnect the power and turn the water heater ON. The water heaters should now be ready to communicate with each other and operate as a single system.

Note: Whenever a change is made to any one water heater, all the other units in the system will be automatically updated to the new settings.