

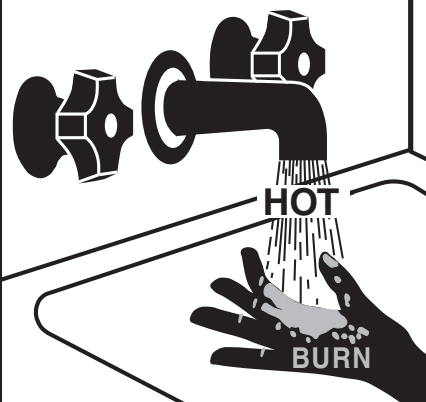
# Tankless Water Heater Commercial Conversion Installation Instructions

**The Commercial Conversion is for the following models ONLY:**

RTG-66DVN	RTG-95DVN	RUTG-95DVN	RTG-84DVN	RUTG-84DVN	PH2-28RDVSLN
RTG-66DVP	RTG-95DVP	RUTG-95DVP	RTG-84DVP	RUTG-84DVP	PH2-28RDVSLP
RTG-66XN	RTG-95XN	RUTG-95XN	RTG-84XN	RUTG-84XN	PH2-28ROFLN
RTG-66XP	RTG-95XP	RUTG-95XP	RTG-84XP	RUTG-84XP	PH2-28ROFLP
RUTG-66DVN	RTG-95DVLN	RUTG-95DVLN	RTG-84DVLN	RUTG-84DVLN	PH2-28RDVSN
RUTG-66DVP	RTG-95DVLP	RUTG-95DVLP	RTG-84DVLP	RUTG-84DVLP	PH2-28RDVSP
RUTG-66XN	RTG-95XLN	RUTG-95XLN	RTG-84XLN	RUTG-84XLN	PH2-28ROFN
RUTG-66XP	RTG-95XLP	RUTG-95XLP	RTG-84XLP	RUTG-84XLP	PH2-28ROFP
PHH-32RDVLN	RTGH-95DVN	RUTGH-95DVN	RTGH-84DVN	RUTGH-84DVN	PH2-25ROFLP
PHH-32RDVLP	RTGH-95DVP	RUTGH-95DVP	RTGH-84DVP	RUTGH-84DVP	PH2-25ROFLN
PHH-32ROFLN	RTGH-95XN	RUTGH-95XN	RTGH-84XN	RUTGH-84XN	PH2-25RDVSLP
PHH-32ROFLP	RTGH-95XP	RUTGH-95XP	RTGH-84XP	RUTGH-84XP	PH2-25RDVSLN
PHH-32RDVN	RTGH-95DVLN	RUTGH-95DVLN	RTGH-84DVLN	RUTGH-84DVLN	PH2-25RDVSN
PHH-32RDVP	RTGH-95DVLP	RUTGH-95DVLP	RTGH-84DVLP	RUTGH-84DVLP	PH2-25RDVSP
PHH-32ROFN	RTGH-95XLN	RUTGH-95XLN	RTGH-84XLN	RUTGH-84XLN	PH2-25ROFN
PHH-32ROFP	RTGH-95XLP	RUTGH-95XLP	RTGH-84XLP	RUTGH-84XLP	PH2-25ROFP
PHH-25RDVLN	PHH-25RDVN				
PHH-25RDVLP	PHH-25RDVP				
PHH-25ROFLN	PHH-25ROFN				
PHH-25ROFLN	PHH-25ROFP				

Including the above models with a -1 suffix or higher.

**⚠ DANGER**



**Water temperature over 52°C (125°F) can cause severe burns instantly or death from scalds.**

**Children, disabled and elderly are at highest risk of being scalded.**

**See instruction manual before setting temperature at water heater.**

**Feel water before bathing or showering.**

**Temperature limiting valves are available, see manual.**

**Refer to the Use and Care Manual provided with your tankless water heater for the proper installation procedures.**

It is very important that all persons who are expected to install, operate or adjust this commercial conversion and/or water heater read these instructions along with those instructions provided with the tankless water heater.

**⚠ Recognize this symbol as an indication of Important Safety Information!**

**⚠ DANGER:** Water Temperature Setting Safety and energy conservation are factors to be considered when selecting the water temperature setting of a water heater's Remote Control Thermostat. Water temperatures above 125°F (52°C) can cause severe burns or death from scalding. Be sure to read and follow the warnings outlined on the label pictured to the left and information in the Use and Care Manual provided with your tankless water heater.

## Commercial Conversion Procedure

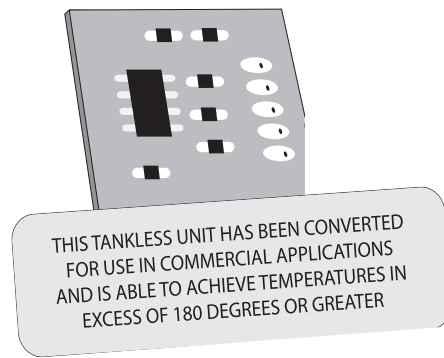
This conversion kit is designed to upgrade select tankless water heaters to operate at higher water temperatures for commercial applications. Only the models listed above can be converted, make no attempt to convert any other tankless model.

## Commercial Conversion Program Chip

Each program chip is designed for a specific model tankless water heater and fuel type, Natural or LP. Please confirm that this conversion kit is for your specific model water heater

This kit contains:

Commercial Conversion Program Chip  
Conversion Notification Label  
Commercial Warranty  
Instructions for Chip Installation.



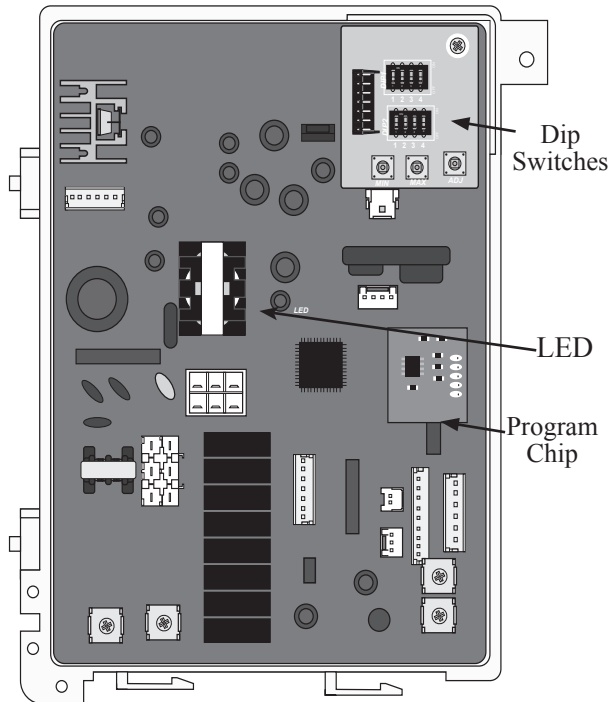
**NOTICE:** Tankless water heaters installed in a commercial application are not Energy Star qualified. Remove the Energy Star label from the front of the tankless water heater.

## Chip Installation and Initiation

### Chip Installation

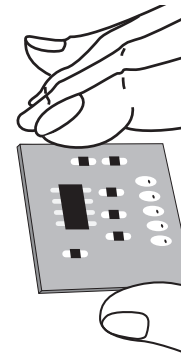
1. Make sure electrical power is disconnected and turn off gas and water to the water heater, then remove the front cover from the water heater.
2. Carefully remove the existing program chip, see Figure 1 for location. Lightly grip the edges of the chip, top and bottom, as in Figure 2, and pull the chip straight out from

**Control Board - Figure 1**

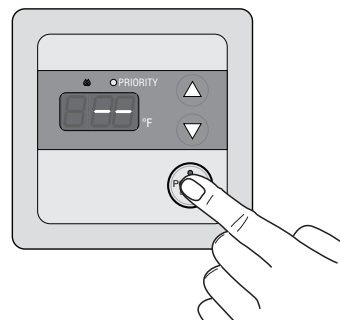


the Control Board and set it aside.

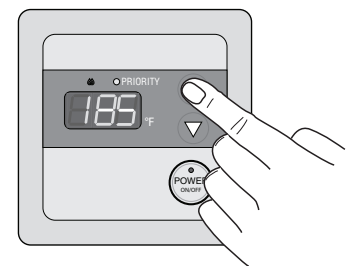
3. Remove the replacement chip from the packaging. Gripping the chip, as in figure 2, carefully align and insert the chip into the socket on the control board. Do Not Force
4. Restore power to the unit.



**Figure 2**



**Figure 3**



**Figure 4**

### Program Chip Initiation

5. Find the two DIP switches located at the top right hand side of the PCB. The switch labeled "DIP1" in the top switch.
6. Change the DIP Switch #4 setting to the "ON" position. DO NOT alter any other DIP Switch. The LED on the PCB is flashing. At the same time, the display of the Main Remote Control starts to flash.
7. Press the "Max" button located at the top right hand side of the PCB for more than 1 second. The LED on the PCB

starts illuminating continuously. At the same time, the display of the Main Remote Control is on continuously.

8. Change the DIP Switch #4 setting back to the "OFF" position. DO NOT alter any other DIP Switch. The LED on the PCB will stop illuminating. At the same time, the display of the Main Remote Control will turn off.
9. Turn on the water heater at the remote control by pressing the power button, see Figure 3.

10. Press the UP arrow temperature adjustment button several times to increase the temperature to a maximum of 185\*, see Figure 4. This will verify the unit has been successfully converted. If the temperature does not increase past 120 or 140, then the conversion failed, disconnect and restore power and restart the procedure at step 5.
11. Set the remote control to the desired operating temperature, and restore the gas and water service to the water heater.
12. Place/Stick Conversion Label to the front of the tankless water heater and remove the Energy Star label. Leave the new warranty certificate for the customer and discard the original warranty certificate.

**⚠ DANGER: Hotter water increases the potential for Hot Water SCALDS.**

With this Commercial Conversion the temperature ranges available through the thermostat control are as follows:

Available Thermostat Settings - Factory Configuration												
F	85	100	102	104	106	108	110	112	114	116	118	120
C	29	38	39	40	41	42	43	44	46	47	48	49
Residential High Temperature Settings						Commercial High Temperature Settings						
F	125	130	135	140		F	150	160	170	180*	185*	
C	52	54	57	60		C	66	71	77	82*	85*	

\* Some models may be able to reach up to 180°F (82°C)

## Commercial Conversion in a Multi-Unit Manifold or EZ-Link™ Installation

### Commercial Conversion in a Multi-Unit Manifold or EZ-Link™ Installation

Commercial Conversion of water heaters in a Multi-Unit Manifold or EZ-Link™ Installation requires that each tankless water heater in the installation gets a conversion chip installed on the Control Board, as in steps 1 through 4. After the chip installation the Program Chip Initiation is slightly different from a single unit conversion since in a Multi-Unit installation there is only one remote control. Complete the entire manifold installation before continuing with the Commercial Conversion procedure.

- A. Complete the chip installation on each water heater as in steps 1 through 4 on the front side of this document.
- B. Find the two DIP switches located at the top right hand side of the PCB. The switch labeled “DIP1” in the top switch.
- C. Change the DIP Switch #4 setting to the “ON” position. DO NOT alter any other DIP Switch. The LED on the PCB is flashing. At the same time, the display of the Main Remote Control starts to flash.
- D. Press the “Max” button located at the top right hand side of the PCB for more than 1 second. The LED on the PCB starts illuminating continuously. At the same time, the display of the Main Remote Control is on continuously.
- E. Change the DIP Switch #4 setting back to the “OFF” position. DO NOT alter any other DIP Switch. The LED on the PCB will stop illuminating. At the same time, the display of the Main Remote Control will turn off.

- F. Turn on the water heater at the remote control by pressing the power button, see figure 3.
- G. Press the UP arrow temperature adjustment button several times to increase the temperature to a maximum of 185\*, see figure 4. This will verify the system has been successfully converted. If the temperature does not increase past 120 or 140, then the conversion failed, restart the procedure at step A.
- H. Set the remote control to the desired operating temperature, and restore the gas and water service to the manifold system.
- I. Place/Stick Conversion Label to the front of the tankless water heater and remove the Energy Star label. Leave the new warranty certificate for the customer and discard the original warranty certificate.

