

Item #1100107R (Heat Exchanger 9100 REPL ASSY)

THIS PROCEDURE MUST BE PERFORMED BY A QUALIFIED TECHNICIAN

KIT INCLUDES

- Heat Exchanger
- Screws
- High Temperature Silicone
- Exchanger Access Tube Covers

INSTALLATION

1. Remove new heat exchanger from shipping box and inspect the exchanger for physical damage. Make sure the return bends are not damaged. If fins are bent use a fin comb to comb them out.

NOTE: Keep plastic caps on the heat exchanger tubes to keep foreign materials from getting into the tubes during install.

2. De-energize the heating system.
3. Remove the waistband and exchanger access panel (Figure 1).
4. Remove the base front panel (Figures 1 and 2).
5. Carefully remove the limit switches (Figure 2). DO NOT bend capillaries.
6. Cut the tie wraps securing the sensor wires and remove the outlet water temperature sensor from the temperature sensor well (Figure 2).
7. Drain the plumbing as much as needed to remove the exchanger. Detach any plumbing.
8. Remove the core blower assembly, inside panels and access tube covers (Figure 2).
9. Remove the heat exchanger by sliding to the left after removing the retaining screw(s).
10. Slide the new heat exchanger into the base of the furnace. Insert the exchanger until the limit switch capillary tube holes line up on the base front. Slide it to the right and insert the retaining screws provided.

NOTE: The outlet tube must be in the top right corner when installing the heat exchanger into the base of the heating system.

WARNING



HAZARDOUS VOLTAGE:
Risk of electric shock.
Can cause injury or death.
System may be connected to more than one branch circuit.
Disconnect power to all circuits before servicing.



HIGH TEMPERATURE:
Risk of personal injury.
DO NOT install Heat Exchanger when outer surfaces of the Comfort Plus Hydronic system are hot, and if the old exchanger is still hot.

Figure 1

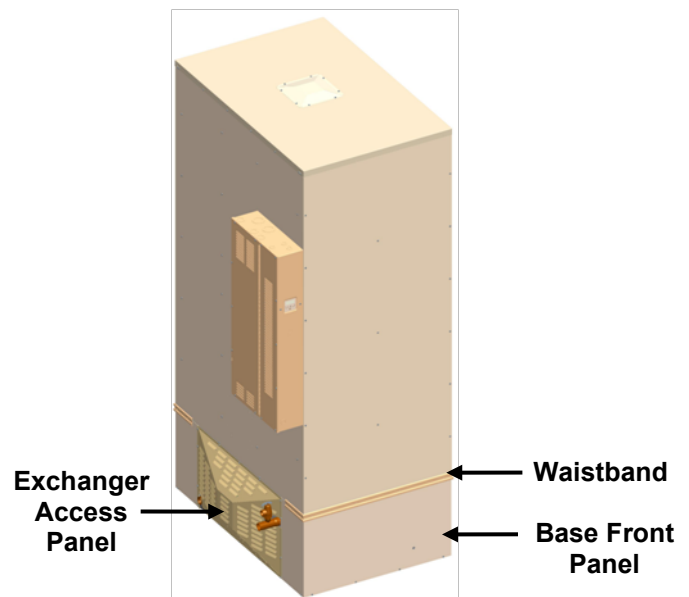
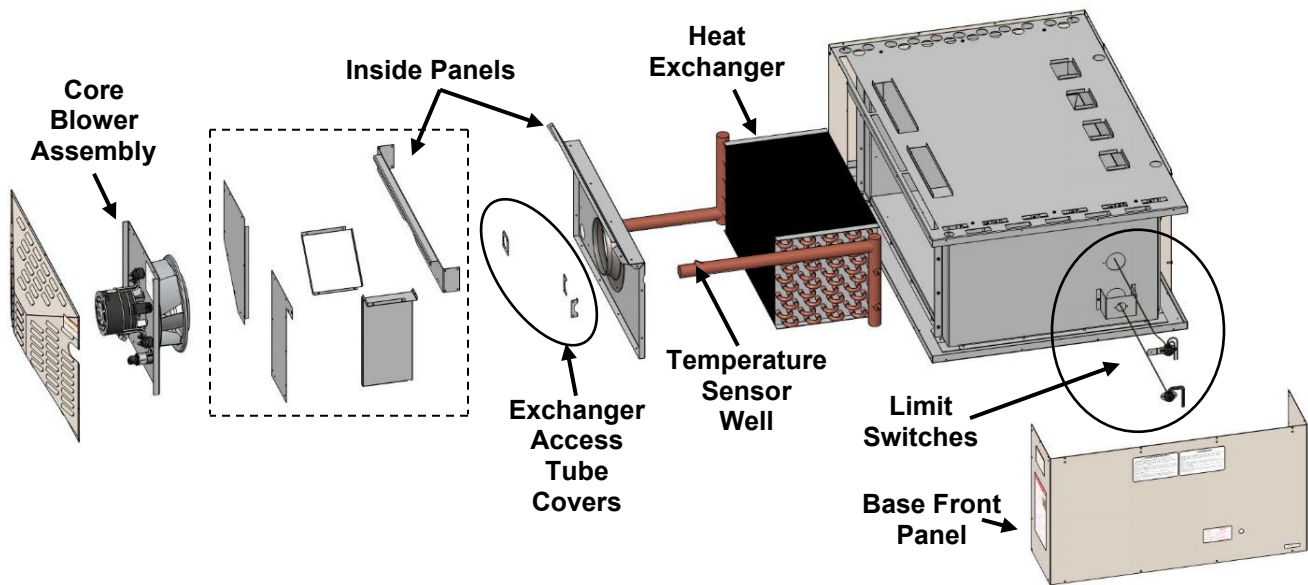


Figure 2



11. Install the 225° limit switch capillary into the top limit tube and the 250° limit switch capillary into the bottom tube of the heat exchanger until there is approximately 6-7" remaining out of the limit tube. The straighter the capillaries, the easier it will be to install.

NOTE: DO NOT use water-based lubricant to aid in installation of the limit switches.

12. Verify the exchanger left side inner panel will fit around the supply water sensor tube and into the opening of the heat exchanger compartment. Install the panel.
13. Apply the high-temperature silicone to the exchanger access tube covers provided.
14. Place half of the cut tube cover on the side of the outlet pipe of the heat exchanger. Place the other half of the cut tube cover on the other side of the outlet pipe. Secure the two (2) exchanger access tube cover halves to the exchanger left side inner panel with four (4) self-drilling screws provided.
15. Slide the uncut access tube cover over the inlet pipe of the heat exchanger. Secure the access tube cover to the exchanger left side inner panel with four (4) self-drilling screws provided.
16. Apply high temperature silicone around all the open areas of the exchanger access tube covers.

NOTE: Use caution while applying silicone. Keep the silicone out of the heat exchanger limit tubes and sensing wells.

17. Reassemble inside panels and blower assembly.
18. Install the outlet water temperature sensor. Apply high-temperature silicone around the outlet water temperature sensor.
19. Re-install the base front cover, access panel, and waistband. Reference Figure 1.
20. Remove plastic caps and reassemble plumbing. Ensure the pressure relief valve is properly installed.
21. Fill the system with fluid.
22. Re-energize the heating system.
23. Perform system check-out and ensure the heating system is reading an accurate outlet water temperature.