

Title: Heat Reclaim Coil (9-30 Ton) Replacement Installation

Overview

A general guide on Flō small box (9-30 ton) heat reclaim coil replacement.

Preparation

The store may be in full renovation: Hard Hats, Safety Vests, Safety Glasses, No-Cut Gloves and Steel-Toed Shoes will be required.

1. Wear all Personal Protective Equipment.



Figure 1. Construction Site



Figure 2. Renovation Sign



Figure 3. Safety Equipment

2. Place a piece of plywood on the roof deck to distribute the new coil's weight and protect the roof from damage.
3. Crane the new coil to the roof.
4. Remove the new coil from its shipping crate.



Figure 4. Plywood on Roof Deck



Figure 5. Craning Coil



Figure 6. Setting Coil on Roof Deck



Figure 7. Remove Coil from Crate

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5. Verify the new coil is holding the nitrogen charge. Call CES tech support if the new coil is not holding the charge (888-598-1198 Opt. 1)
6. Release the nitrogen charge.
7. It is recommended to braze the elbows and stubs to the new coil. (Do this before installing the new coil in the unit.)



Figure 8. Refrigerant Gauges



Figure 9. Pipe Brazing



Figure 10. CuFe2P Piping

NOTE: When installing CO2 and other heat reclaim coils, only use approved piping, connections and brazing techniques.

Removing The Existing Reclaim Coil

1. Turn power OFF to the FLō unit.
2. Remove the bird screen from underneath the Outdoor Air Hood.
3. Remove the interior 5/16" sheet-metal screws inside and along the top edge of the roof (top) of the unit.
4. Verify all refrigerant has been evacuated from the old heat reclaim coil.
5. Verify the old heat reclaim does not have a pressure charge.
6. Cut the refrigeration piping to the old heat reclaim coil and prepare for its removal.



Figure 11. Bird Screen



Figure 12. Sheet-Metal Screw



Figure 13. Cut Refrigerant Piping

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7. The TXVs are connected by a bracket with two screws. Remove the two screws from the bracket.
8. Remove the 1" cap that connects the two top roof panels together.
9. Remove the exterior 5/16" perimeter sheet-metal screws attaching the top panel to the unit.
10. Remove 5/16" screws inside the filter cabinet that secure the top panel (located on the coil side between the evaporator coil and filter assembly).



Figure 14. TXV Bracket



Figure 15. Roof Cap



Figure 16. Roof Cap Removal



Figure 17. Exterior Screws

Note: A drill, a 36" long extension and a 90-degree rotary head (DeWalt or equivalent) are necessary to remove the top of the unit.



Figure 18. Filter Cabinet Panel

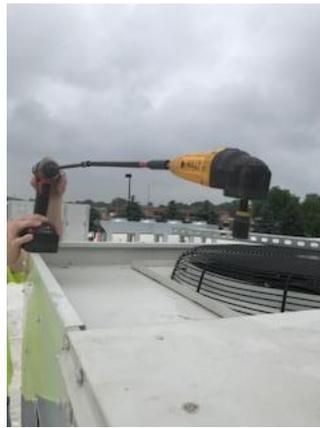


Figure 19. 36" Extension



Figure 20. 90-Degree Adapter



Figure 21. Roof Removal

11. Remove the roof panels.
12. Using a drill and 36" extension, remove the 5/16" interior sheet-metal screws that attach the heat reclaim coil to the inside back wall of the unit.
13. Remove the 5/16" screws that attach the reclaim coil to blower assembly bracket.
14. Remove the heat reclaim coil through the top of the unit.
15. Remove the top bracket from the heat reclaim coil and install it on the new heat reclaim coil.
16. Remove the rear bracket from the reclaim coil and install it on the new heat reclaim coil.

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Figure 22. Blower Bracket Screw Removal



Figure 23. Heat Reclaim Coil Rear Bracket Screw Removal

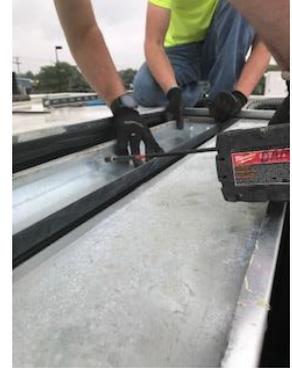


Figure 24. Heat Reclaim Top Bracket Screw Removal



Figure 25. Heat Reclaim Coil Removed



Figure 26. Heat Reclaim Bracket Removal/Installation

Installation Of The New Heat Reclaim Coil

To install the new heat reclaim coil, repeat the steps about in reverse order. Ensure all brackets and screws are installed where previously removed.