

XCK In-Line Heat Exchanger Tubing Replacement

- 1) Disconnecting the Exchanger
 - a. Shut down the system.
 - b. Close any applicable plumbing valves.
 - c. Disconnect all four plumbing connections to the exchanger.
 - d. Remove the exchanger from the system and move to an accessible workstation.
- 2) Dismantling the Exchanger
 - a. Locate the end of the exchanger where the flared ½" tube connections extend through the exchanger cap.
 - b. Loosen the exchanger cap by twisting it counterclockwise, either by hand or with a strap wrench, until the threads disengage.
 - c. Carefully pull on the cap to remove the heat exchange tubing from the vessel.
 - d. Make sure that all of the flow baffles are removed with the tubing.
- 3) Replacing the Tubing
 - a. Using pliers, loosen the compression fitting nuts on the *inside* of the vessel cap.
 - b. If necessary, temporarily remove the standpipe.
 - c. Once completely loosened, the tubing may be detached from the flare fittings.
 - d. Attach the pre-flared tubing ends of the new coil to the flared fittings.
 - e. Engage and tighten the two fitting nuts, taking care not to cross-thread them.
- 4) Replacing the Baffles
 - a. Starting from the top, slide a PTFE flow baffle into the coil.
 - b. Refer to the old coil for all baffle locations, as they are not specifically marked.
 - c. If you lose your place, the flow baffles should be spaced evenly throughout the coil, with the open end of the baffles facing in alternating directions.
 - d. Repeat this process until all baffles have been replaced.
- 5) Attaching the Teflon Spacer Disc
 - a. Once the tubing and flow baffles are in place, slide the Teflon spacer disc on to the end of the standpipe. This spacer disc must be in place before the exchanger is reassembled.
- 6) Reassembling the Exchanger
 - a. Carefully slide the exchanger tubing, with the flow baffles and standpipe, back into the vessel.
 - b. Make sure that the standpipe, flow baffles and O-rings are still in the correct positions.
 - c. Carefully screw the cap back onto the vessel until fully tight. (Since the cap is sealed with the Viton O-ring, it can be tightened by hand or with a strap wrench. No Teflon tape or pipe dope is needed.)

Note: The cap will not be able to engage the threads unless the standpipe slides into the recess at the end of the vessel.
- 7) Testing the Exchanger
 - a. Once reassembled, test both the tubing circuit and the vessel circuit for leaks.
 - b. If no leaks are detected, the exchanger may be reinstalled into the system.
 - c. If any leaks are detected, identify the source of the leak and correct it if possible.



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