



Field reported water-to-refrigerant test instructions

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Purpose: Process to test for water-to-refrigerant leak in water coax coil or hot water generator:

Scope: All ClimateMaster products

1. Disconnect water lines from the unit in question.
2. Pressurize the refrigerant circuit to 300 PSI with dry nitrogen
3. Wait 10 minutes.
4. Plug the water inlet of the water coax and place a pressure gauge on the water outlet of the coax.

\* Waiting 10 minutes will allow for any expansion in the coax resulting from being pressurized that may falsely indicate a pressure rise.

5. Leave the system pressurized for 24 hours.
  - If the pressure in the refrigerant circuit has dropped and the pressure of the gauge placed on the water coax has risen, there is a failure between the water and refrigerant circuits.
  - If the pressure in the refrigerant circuit has dropped but the pressure of the gauge placed on the water coax has not risen, the refrigerant circuit is leaking but not bleeding through to the water circuit (or vice-versa) and the leak is elsewhere in the refrigerant circuit.
  - If there is no drop in pressure of the refrigerant circuit gauge, there is no refrigerant leak in the system.

If assistance is needed performing this test, please contact the Technical Service Department at 1-800-299-9747.

If this test indicates a failure between the water and refrigerant circuits, complete the following:

- Unit Serial Number: \_\_\_\_\_
- Coil pressure tested to: **refrigerant** \_\_\_\_\_psig, **water** \_\_\_\_\_psig.
- Coil pressure tested for: \_\_\_\_\_ hours
- Post test pressures: **refrigerant** \_\_\_\_\_psig, **water** \_\_\_\_\_psig.

Once this completed form is received, the Warranty Administrator will work with you and your Customer Service Representative to issue an RA# for the unit or coil(s) only (to be determined by ClimateMaster) to be returned to the factory for inspection. Once received, a Technical Service Representative will test the water coil(s) to verify a water-to-refrigerant void in the coil. If this condition is verified, the failed coil will be returned to the coil vendor to determine cause of failure.

If the cause of failure is determined to be a manufacture defect, credit will be given for the returned unit and all applicable shipping charges and the defective unit or coil will be scrapped at the factory. If the failure is not determined to be caused by a manufacture defect, such as corrosion or freeze conditions, no credit will be given for the unit or any shipping charges. You may then choose to either have the unit returned (possibly disassembled) at your expense or scrapped at the factory.

If the ClimateMaster Technical Service Representative tests the coil and finds there is not a water to refrigerant void in the unit, no credit will be given for the unit or shipping charges and a minimum of a \$250.00 diagnostic fee will apply. You may then choose to either have the unit returned (possibly disassembled) at your expense or scrapped at the factory.