

GENERAL INFORMATION

American Valve's CondensateRx condensate neutralizer reduces acidic condensate from high efficiency boilers.

American Valve Inc. assumes no liability for any damages or injuries resulting from non-compliance with installation instructions or standard good practices when installing, operating, or maintaining the neutralizers, even if not explicitly mentioned in this document.

This document covers the following model families:

CR440 (-KIT/-SC)

CONDENSATE NEUTRALIZER SELECTION

American Valve offers condensate neutralizers rated by boiler size. For example, CR440 is designed to last approximately one year on boilers rated 440,000 BTU and under. Maximum flow rate and temperature rating is indicated on the condensate neutralizer label. At the end of service life, the unit is easily replaced.

PRESSURE & TEMPERATURE RATINGS

CondensateRx neutralizers are designed for use in non-pressure applications only.

GENERAL WARNINGS & PRECAUTIONS

WARNING: **RISK OF INJURY OR DEATH.** Do not allow flue gases to vent through condensate neutralizer. A gas trap must be installed in all drain lines prior to entering the neutralizer.



CAUTION: **RISK OF WATER DAMAGE.** Failure to install the CondensateRx as directed could result in property damage.



CAUTION: **RISK OF WATER DAMAGE.** Do not over-tighten threaded connections. Doing so could crack the condensate neutralizer and cause a leak.



CAUTION: **RISK OF WATER DAMAGE.** Condensate drain lines rely on gravity, and will only function when installed with a downward pitch (angle).



- All piping should be in accordance with local building and mechanical codes as well as comply with all local, state and federal regulations
- CondensateRx can be installed vertically or horizontally with a minimum of ¼" downward pitch
- Do not connect more than one appliance per CondensateRx neutralizer
- Install CondensateRx below any traps in drain piping
- It is recommended that the neutralizer be installed before the condensate pump (if applicable)

GENERAL WARNINGS & PRECAUTIONS (CONTINUED)

- Make sure all gas traps are primed before starting operation of the boiler
- Install only on non-pressurized piping systems

INSTALLATION

The CondensateRx neutralizer can be installed using either the hose barb adaptor or 3/4" socket connect adaptors (included in certain kits).

If using the 1/2" **hose barb adaptor**, attach fittings to 1/2" NPT threads on CondensateRx by hand tightening and then completing 2-3 full turns of the fitting. Do not use thread sealant. **DO NOT OVER TIGHTEN, AS THIS MAY CAUSE CRACKING OF THE THREADS OR BODY OF THE NEUTRALIZER**

- Connect the inlet to the pre-existing drain hose and secure with a hose clamp (not included).
 - Attach supplied pipe support to wall and insert neutralizer into clip
 - Connect a drain hose to the neutralizer outlet, secure with hose clamp (not included) and route tubing to the drain or pump

If using 3/4" **socket connect adaptor**, attach fittings to 1/2" NPT threads on CondensateRx by hand tightening and then completing 2-3 full turns of the fitting. Do not use thread sealant. **DO NOT OVER TIGHTEN, AS THIS MAY CAUSE CRACKING OF THE THREADS OR BODY OF THE NEUTRALIZER**

- Connect the inlet to the pre-existing drain pipe using PVC primer and cement (not included).
 - Attach supplied pipe support to wall and insert neutralizer into clip
 - Connect a drain pipe to the neutralizer outlet using PVC primer and cement (not included).
 - Follow all warnings and directions on cement and primer packaging
 - Route piping to the drain or pump
 - Fill condensate traps with water until flow is established through neutralizer
 - Check for leaks and observe during operation to ensure no restrictions are present

MAINTENANCE

- CondensateRx neutralizer units should be replaced after 1 year or 750 hours of operation
- Drain piping should be observed during operation periodically to ensure no leaks are present
- All American Valve CondensateRx units are warranted against defects in materials and workmanship for 1 year after the initial date of delivery. The warranty does not cover issues that result from misuse, improper installation or installations that exceed the rated life of the unit.