

Neutra-Safe® Condensate Neutralizer  
Models CN4T and CN6T

**Installation, Operation and Maintenance Manual**



**⚠ WARNING**

- Neutra-Safe® condensate neutralizers should only be installed by a qualified professional.
- Read all instructions before installing. Perform steps in the order given. Failure to comply could result in substantial property damage, severe personal injury, or death.
- Do not allow flue gases to vent through condensate neutralizer. Vent in cap is designed to allow proper flow through neutralizer. All condensate drain lines must have a gas trap before entering the neutralizer. Failure to comply could result in substantial property damage, severe personal injury or death.
- Neutra-Safe neutralizers should only be connected to a condensate outlet that is installed per the appliance manufacturer's instructions. Failure to comply could result in substantial property damage, severe personal injury, or death.

**IMPORTANT**

- All piping should be in accordance with relevant building and mechanical codes, as well as any local, state or federal regulations.
- Neutralizer should be installed below all traps and condensate outlets.
- It is recommended that the installer maintain a pitch of 1/4" per foot between the condensate neutralizer outlet and the pump or drain.

- Do not use pipe dope on threaded fittings - use only Teflon tape.
- Neutra-Safe condensate neutralizers may **NOT** be installed in the vertical position.
- It is recommended that the neutralizer be installed before the condensate pump.
- All condensate traps should be primed before commencing operation of the appliance.
- Neutra-Safe condensate neutralizer media should be replaced at least once a year or when pH falls below local regulations.

**MOUNTING OPTIONS**

- It is recommended that Neutra-Safe condensate neutralizers be installed as close as possible to the outlet of the condensate trap.
- Condensate neutralizer may be installed on level ground or mounting brackets (not provided). Models CN4T and CN6T have screw inserts in their bases which can be used if needed.
- Neutra-Safe condensate neutralizers may be installed on or above the floor so long as a pitch of 1/4" per foot is maintained between the neutralizer outlet and the drain or pump.
- It is recommended that unions be installed to facilitate maintenance of the condensate neutralizer

## INSTALLATION

1. Neutra-Safe condensate neutralizers are provided with  $\frac{3}{4}$ " NPT tappings on CN4T and 1" tappings on CN6T at either end to accommodate fittings of choice.
2. If using PVC pipe, apply Teflon tape to the threads of PVC socket adaptors and attach to neutralizer. **Do not over tighten.**
3. Identify suitable location for assembled condensate neutralizer. **Observe direction of flow as indicated on neutralizer.**
4. PVC unions should be secured at either end of the neutralizer.
5. Prime and glue PVC pipe to fittings.  
**Note:** If using flexible tubing, be sure to use hose clamps at barb fittings.  
**Note:** PVC pipe is the preferred method for piping condensate drain lines.
6. Route PVC pipe or tubing to drain or pump, maintaining a pitch of  $\frac{1}{4}$ " per foot.
7. Fill condensate trap with water until flow is established through neutralizer.
8. Observe neutralizer during boiler operation to ensure unrestricted condensate flow.

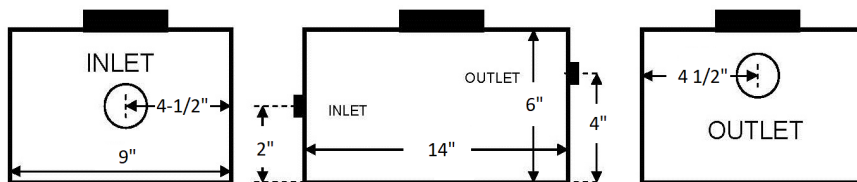
## MAINTENANCE

1. All service items should be undertaken by a qualified professional.
2. Visually inspect unit for signs of leaking or damage.
3. Neutralizer media should be replaced at least once a year or when pH falls below local regulations. Neutralizer efficiency can only be determined by measuring pH level of condensate outflow.
4. Refer to chart below for appropriate refill kit.

<b>Neutra-Safe</b>	
Replacement Media Kits	
Model #	Recharge Kit
CN4T	4TKRCK
CN6T	6TKRCK

5. Disconnect condensate line from both the inlet and the outlet of the neutralizer.
6. Unscrew cap and remove spent neutralizer media. Rinse empty neutralizer with water.
7. Add replacement media and replace cap.
8. Reattach neutralizer to condensate line and prime flue gas trap with a minimum of 1 gallon of water.
9. Observe neutralizer during boiler operation to ensure unrestricted condensate flow.

### MODEL CN4T ~ 4 Million Btuh



### MODEL CN6T ~ 6 Million Btuh

