Skidmore Tube Style Condensate Neutralizer

Installation, Operation and Maintenance Manual



△ WARNING

- Skidmore 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. All condensate drain lines must have a gas trap before entering the neutralization unit. Failure to comply could result in substantial property damage, severe personal injury or death.
- Skidmore 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.
- Do not connect more than one appliance to each neutralizer.
- Neutralizer should be installed below all traps and condensate outlets.
- Skidmore condensate neutralizers should always be mounted with a minimum of ¼" pitch downwards towards the outlet. It is also recommended that the installer maintain a pitch of ¼" per foot between the condensate neutralizer outlet and the pump or drain.

- Do not use pipe dope on threaded fittings use only Teflon tape.
- Skidmore 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.
- Skidmore condensate neutralizer media should be replaced at least once a year or when pH falls below local regulations.

MOUNTING OPTIONS

- It is recommended that Skidmore condensate neutralizers be installed as close as possible to the outlet of the gas trap.
- Maintain a downwards pitch of ¼" towards the outlet of the neutralizer.
- Care should be taken when selecting mounting hardware.
 It is recommended that a mounting bracket capable of supporting the weight of a fully charged neutralizer kit be used. This will vary depending on the model.
- Skidmore 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 and the drain or pump.

INSTALLATION

- Skidmore condensate neutralizers include built-in unions with ½" NPT tappings at either end.
- If using PVC pipe, apply Teflon tape to the threads of provided PVC socket adaptors and attach to neutralizer. Do not over tighten.
- Identify suitable location for assembled condensate neutralizer. Observe direction of flow as indicated on neutralizer.
- 4. Position and secure the mounting brackets maintaining a pitch downwards of 1/4" towards the outlet.
- 5. Prime and glue PVC pipe to fittings.

Note: If using flexible tubing, be sure to use hose clamps at barb fittings.

Note: It is recommended that PVC pipe be used wherever possible as this will reduce any risk of tube kinking. Skidmore provides two ½" M NPT x ¾" PVC socket adaptors for this purpose

- Route PVC pipe or tubing to drain or pump, maintaining a pitch of ¼" per foot.
- SCN4-600, SCN4-1200 and SCN4-2000: where neutralizer is installed between the 9 and 3 o'clock position, a vent should be added after the neutralizer.
- 8. Fill condensate trap with water until flow is established through neutralizer.
- Observe neutralizer during boiler operation to ensure unrestricted condensate flow.

MAINTENANCE

- All service items should be undertaken by a qualified professional.
- 2. Visually inspect unit for signs of leaking or damage.
- 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.

Skidmore	
Replacement Media Kits	
Model #	Recharge Kit #
SCN2-220	S22RCK
SCN4-600	S60RCK
SCN4-1200	S120RCK
SCN4-2000	S200RCK

NOTE: Be careful not to lose the O-rings at either end of cartridge.

- Unscrew unions at both ends of neutralizer. If necessary, rotate cartridge to release O-ring.
- Remove cartridge and dispose of old media. Rinse inside of cartridge. Add replacement media.
- 3. Check to make sure that O-rings are in place before reinstalling cartridge. **Do not over-tighten**.
- 4. Prime flue gas trap with a minimum of 1 gallon of water.
- Observe neutralizer during boiler operation to ensure unrestricted condensate flow.

