



Description	Part #	Included
220 MBH Tube Model	SCN2-220	(2) ½" MNPT x ¾" PVC Adaptors
600 MBH Tube Model	SCN4-600	(2) ½" MNPT x ¾" PVC Adaptors
1,200 MBH Tube Model	SCN4-1200	(2) ½" MNPT x ¾" PVC Adaptors
2,000 MBH Tube Model	SCN4-2000	(2) ½" MNPT x ¾" PVC Adaptors
4,000 MBH Tank Model	SCN4T	Fitted with (2) ¾" Bulkhead Fittings
6,000 MBH Tank Model	SCN6T	Fitted with (2) 1" Bulkhead Fittings
220 MBH Recharge Kit	S22RCK	(2) Replacement O-rings
600 MBH Recharge Kit	S60RCK	(2) Replacement O-rings
1,200 MBH Recharge Kit	S120RCK	(2) Replacement O-rings
2,000 MBH Recharge Kit	S200RCK	(2) Replacement O-rings
Recharge Media for Tank Models	STKRCK	2 Required for CN4T 3 Required for CN6T

Capacities are for guide purposes only. Performance will be affected by actual operating conditions.



CONDENSATE NEUTRALIZERS

- ▶ **UNIQUE** – Integrated unions — easy to install, easy to service.
- ▶ **CLEAR TUBE** – Allows visual inspection.
- ▶ **BEST VALUE** – Six models, including tank style, sized to do it all.
- ▶ **RECHARGE KITS** – All tube models include replacement O-rings.
- ▶ **SUPERIOR MEDIA** – New combination of materials for improved performance.



THE COMPANY

Skidmore has been a manufacturer in the Steam Industry since 1921. With the addition of Condensate Neutralization products, Skidmore now offers a complete line up of Glycol Feed Systems, Pot Feeders, and Condensate Neutralization products to support condensing boilers and closed loop hydronic systems. Skidmore's condensate neutralizers are a patent pending tube model which includes built-in unions and O-ring seals at each end, ensuring ease of replacement. Skidmore continually researches and develops ways to improve his products, always with the contractor in mind.

THE CARTRIDGE

An effective condensate neutralizer starts with the cartridge — it should be easy to install and allow easy access not just for replacing the media but for periodic visual inspection. Skidmore condensate neutralizers also incorporate the exclusive, patent pending integrated unions with O-rings. On either end of the cartridge, these lock rings are designed to allow the service technician to easily replace the media without disturbing the drain piping.

THE MEDIA

Our condensate neutralizers contain clean screened calcite and magnesium oxide. Calcite works by having the acidic aqueous solution come in contact with its surface. It raises the pH by dissolving some of the calcite (calcium carbonate) releasing carbon dioxide and various salts. Some of the salts stay entrained in the aqueous solutions and some may settle to the bottom of the neutralizer. An advantage of calcite is that it is self-limiting and does not over correct causing a high pH condition which is undesirable.

We add granular magnesium oxide (FloMag PWT) to our media for better performance. Calcite and magnesium oxide are used globally in the treatment of potable (drinking) water for raising pH. Skidmore is committed to ongoing research and development in order to provide you with the best possible solutions for your condensate needs.

WHAT IS CONDENSATE?

Condensate is produced after the transition of a gas into a liquid due to a drop in temperature or pressure. In the case of burning natural gas in a high efficiency boiler, furnace, or water heater, this condition occurs when the temperature of the flue gases starts to drop below 130°F.

This condensate is made up of several ingredients and will generally have a pH of between 2.9 and 4. As such it is considered to be acidic and can cause serious damage to piping systems, sewerage systems, treatment facilities, septic systems and other items it may come in contact with. Many communities now insist that this condensate be rendered benign before it enters the common drainage system. The easiest way to accomplish this is with the addition of a condensate neutralizer.

HOW DOES A CONDENSATE NEUTRALIZER WORK?

The acid neutralization takes place when the acidic solution comes in contact with the media. The media changes the solution into water, CO2 and various salts which tend to collect in the bottom of the neutralizer.

WHY USE A CONDENSATE NEUTRALIZER?

A fully condensing boiler will produce condensate at the rate of approximately 1 gallon per hour per 100,000 BTUs. Apart from the fact that many Plumbing Code authorities across the country require the use of condensate neutralizers, untreated condensate can cause serious damage to drainage piping and fittings. While condensing gas equipment condensate is considered to be mildly acidic, it is the amount produced that is of concern. The photos to the right show the effect of exposure to untreated condensate.

