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## Cooling Coil Operation

The Cooling Coils are designed to be used with a gravity drain, which is designed to empty the coil when the equipment is being heated above 200°F. The coil must be empty during the heating process. This is to reduce the steam generated in the coil and the build-up of deposits inside the coil.

This is accomplished by using a vacuum breaker and check valve on the coil outlet and a flowmeter and solenoid valve(s) on the coil inlet. The drain line(s) should be insulated or labeled with a warning label indicating that a high temperature hazard exists.

The LCC and LND Series models can use the Cooling Coil Kit #090020 for adding the components and using the Protocol Controller to automatically energize the solenoids with an Event in a temperature profile/recipe.

**WARNING STEAM BURNS** - Never allow the drain to be plugged, as a hot oven will generate a small amount of steam.

Closed loop systems are not recommended as they do not remove the water from the coil during the heating cycle. One variation from the above method that could be used, is to have a sump tank to collect the water from the drain. Another variation is to discharge the water in the coil to the drain when the coil is not in the loop.

The Coils are typically designed to operate from 10 PSIG minimum to 99 PSIG maximum with a maximum water temperature of 60°F. The cooling performance at various flow rate will depend on the water temperature and the amount of cooling required.

We hope you will find this information useful. THANK YOU for contacting us and allowing us to be a service to you. Please contact us at 1-800-473-7373 if you have any questions.