



# APPLICATION NOTE

## AN 131

INSTALLATION INSTRUCTIONS & OWNER'S MANUAL

Z100 REPLACEMENT INSTRUCTIONS

SUPPLEMENT TO THE ULTRA-ZONE ELECTRONIC STEAM POWER HUMIDIFIERS

MODEL # S2000 AND S2020

## ULTRA-ZONE HUMIDIFIER

### Z100 ASSEMBLY

The ULTRA-ZONE steam humidifier now comes equipped with a factory installed Z100, which acts as a sacrificial metal. Put simply, the chemicals in the water will attack and cling to the Z100. The chemicals will not attack the other components inside the humidifier as long as the Z100 is active.

This results in a dramatic decrease in chemical and scale build up on the stainless steel components inside the tank. In particular, it means less scale build up on the heating element which is subject to damage from excessive scaling and over heating. This also means that efficiency stays high and preventive maintenance is faster and easier.

The Z100 is positioned on the baffle plate inside the tank and is easily removed and replaced. Remember that the Z100's job is to become the target of chemical attack, so it will be heavily covered with scale and *should be replaced annually for best results.*

To remove the Z100 you must have already unplugged and shutdown your steam humidifier and allowed it to cool. The water tank has been drained, the water supply, drain lines and electrical wiring have been disconnected and the unit has been removed from the duct.

Using a phillips screwdriver, remove the two screws that hold the baffle plate to the tank. Lift the baffle slightly back to clear the water probe and then straight up and out of the tank. You can then see the round Z100, or rather what is left of it after a single season. Notice the heavy scale build up on the Z100 that would have been on your element, if the Z100 was not there. Use a rag or pliers to grasp the edges of the Z100 and simply unscrew it from the baffle plate. Rinse off or wipe away any residual scale from the baffle plate and install the new Z100. Leave a slight gap between the bottom of the Z100 and the baffle plate. Now re-insert the baffle plate into the tank and secure with the two screws that were removed previously. It's that simple.

The Z100 can also benefit the older model steam humidifiers. Simply lay the Z100 down into the baffle plate in the same location as the factory installed model. DO NOT lay the Z100 down into the main tank. It may come in contact with the heating element and damage it. The dimensions of the baffle plate prevent the Z100 from falling down into the tank.

The Z100 is just the latest innovation in the ULTRA-ZONE Steam Humidifier line as we continue in our pursuit of Excellence Without Compromise.