NOZZLE MAINTENANCE



wire wheel



wire brush

- Wire Wheel
- Wire Brush
- Vinegar Solution

What Causes Nozzle Blockage?

The MicroCool nozzle has a very small diameter orifice, which is essential for creating a fine fog. However, most water sources contain dissolved minerals that can accumulate and block the nozzles over time. If residual water in the nozzle line is allowed to stand without draining, it can form a drip on the nozzle tip. As this water droplet evaporates, it leaves behind mineral deposits that can clog the small orifice and reduce performance.

Draining nozzle lines should become part of your regular maintenance schedule. In addition, periodic nozzle and anti-drip valve cleaning will help prevent major problems and will keep your system running smoothly and efficiently.

CLEANING METHODS



Cleaning Nozzles

Cleaning procedures should occur when the fog system is running so that results can be determined with an immediate visual inspection. Eye protection should be worn at all times.

A majority of mineral deposits can be removed from nozzle tips using a wire wheel (part# VTB0002). If this is unavailable, a stiff wire brush (part# VTB0001) can also be used.

Nozzles can also be removed from the nozzle line and soaked in white table vinegar (*see note below for brass nozzles). The vinegar solution dissolves most of the mineral build-up and allows the nozzle to spray freely. If however, the nozzle remains blocked after using these 4 cleaning methods, it may have foreign debris lodged in the inlet which requires nozzle replacement.

When to Flush Nozzle Lines

When changing water filters on the pump module, great care should be taken so that dirty water or sediment from the filter housings do not spill into the nozzle lines. When changing nozzles, replacing drain valves or opening the system in any other way, all manifolds and nozzle lines should be flushed to eliminate any foreign debris from entering the nozzle.

*Brass nozzles should never be soaked in strong chemicals such as CLR or Lime-A-Way® as it may deteriorate the brass components.

ANTI-DRIP VALVE FEATURE

The manifold lines and nozzle lines of your fog system must be able to relieve the 1000 psi operating pressure and drain the water from inside the lines after each use.

Failure to do so will cause water to drip from the nozzle after the system has been turned off and will leave mineral deposits on the nozzle tip causing blockage.

All nozzles are attached to anti-drip valves that will help prevent residual water in the lines from dripping after the pressure has been relieved.

REVERSE OSMOSIS SYSTEM

MicroCool's Reverse Osmosis (RO) systems effectively eliminate various large molecules and ions from the water source, including bacteria, pollen, and chemicals, all while enhancing nozzle efficiency.

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