



The patented Marley NS Nozzle, designed exclusively for cooling tower use, offers these benefits:

- **Non-Clogging**—The orifice sizes (1"- 3 1/2") are large enough that many competitive nozzles will actually fit inside a Marley nozzle. The NS Nozzle has no internal parts or narrow passageways. The attached diffusion ring will not retain even fibrous debris.
- **Corrosion-Resistant**—Inert polypropylene construction, won't corrode or decay in the most severe water conditions.
- **Easy To Install**—NS Nozzles simply screw into adapter pipes and lock in place. They can be removed and reinstalled without tools. The diffusion ring snaps into place.
- **Reliable Thermal Performance**—“Full cone” distribution pattern assures uniform water distribution for all film fills. Minimal spray overlap is required, providing uniform water distribution even near spray boundaries. Marley NS Nozzles develop uniform water distribution over a wide range of operating water pressures.



Suggested Specification

Nozzles will be used for water distribution in counterflow cooling tower(s).

Construction

Each nozzle must incorporate an attached diffusion ring to assure proper breakup and dispersion of water. Each nozzle must be a single assembly with no moving parts.

All internal passages and orifices must be one inch diameter (minimum) to prevent clogging. Internal turbulators are not acceptable.

Materials

The nozzles must be injection-molded polypropylene. The diffusion ring must be a fiberglass filled or fiberglass coupled polypropylene.

Operation

The nozzles must develop a "full cone" pattern at pressures as low as two feet of water. The spray system must be a downspray type, with the nozzles at the lowest point in the system. Upspray nozzles are not acceptable.

Installation

The nozzles must attach to their supply pipe or adapter by means of screwed connections. Each nozzle must incorporate a locking device to assure a rigid connection to the supply pipe or adapter. Each nozzle must be readily removable and replaceable without the use of tools or adhesives.

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