



The Spiral Target or ST nozzle was originally designed by Marley to replace ceramic metering orifices located in the hot water distribution basins of crossflow towers and to eliminate water diffusion decks below the hot water basins.

The bottom portion of the Spiral Target nozzle—commonly referred to as the daisy—consists of six leaves designed to create an efficient breakup of water which allows even distribution over the fill area.

The Spiral Target nozzle is an injection molded polypropylene unit consisting of two parts. The main body with integral target diffuser and a snap-on insert or orifice cap.

The orifice cap is available in 13 diameters ranging from .362" through 1.099". This amount of flexibility allows for a wide range of adjustment in water flow rates and basin water levels.

The Spiral Target nozzle is available in three lengths. The 2.625" nozzle is used on wood, steel, and fiberglass cooling towers where basin support structure does not obstruct the release of water. The 4.875" nozzle is used on larger industrial wood and concrete cooling towers and on applications where clogging might be a concern. The 6.875" nozzle is used on towers where the release of the water has to clear obstructions within the tower structure.

In every application the target portion of the nozzle is located an optimum distance above the top of the cooling tower fill to obtain maximum water distribution over the fill area.

The Spiral Target nozzle is standard equipment on every Marley crossflow cooling tower and easily installs on other crossflow cooling towers regardless of the tower's age or manufacture.

Suggested Specification

Nozzles will be used for water distribution on crossflow cooling tower(s).

Each nozzle shall be a single assembly with no moving parts. Each nozzle shall incorporate an attached metering orifice of a specific size for handling the water flow rate of the cooling tower.

The nozzles and metering orifice shall be made of inert injection-molded polypropylene.

Removable and replaceable nozzles installed in the floor of the basin shall provide full coverage of the fill by gravity flow. Nozzles must all have the same orifice size and be spaced symmetrically in both longitudinal and transverse directions.



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SP-STA | ISSUED 12/2016

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