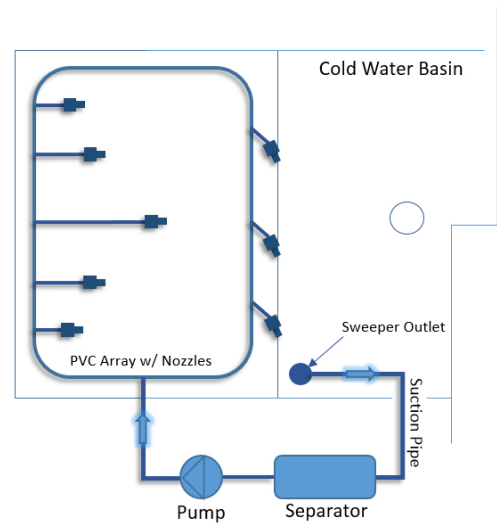


Basin Sweeper Piping System

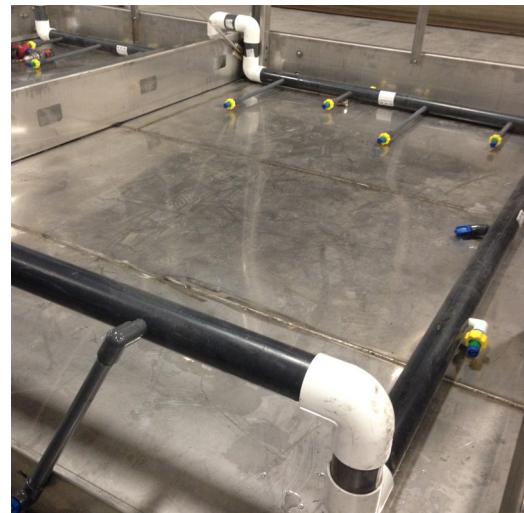
Adequate solids control is crucial for optimal cooling tower performance. Airborne contaminants and suspended solids can accumulate in the cooling tower water circulating system. This organic matter can settle out in areas with lower water flow, such as the cold water basin. Left unchecked, this material feeds bacterial growth and the formation of biofilm, provides a breeding ground for Legionella and other microorganisms, and encourages corrosion. Failure to continuously remove these contaminants can degrade heat transfer efficiency of the system and require large volumes of water treatment chemicals.

The MarleyGard sweeper piping system comprises an array of PVC piping and nozzles strategically positioned around the perimeter of the cold water basin. The pump circulates water in the basin through the PVC piping and out the nozzles, producing a hydraulic sweeping action directed towards the pump suction pipe. The suspended solids travel through the pump suction pipe to the separation or filtration equipment where they are removed and clean water is pumped back to the basin via the PVC piping and nozzles. Turbulence created by the nozzles further inhibits biological growth.

Sweeper piping is an essential part of an effective cooling tower water management program. It is a recommended option for every factory-assembled cooling tower that will help reduce maintenance costs and extend equipment life. Sweeper system flow rates vary by tower model and size, but all require an inlet pressure range of 8 to 20 psi. Furthermore, incorporating mechanical separation or filtration equipment to continuously control solids can reduce the need for blowdown and reduce water consumption.



The sweeper system uses nozzles to prevent solids from settling and "sweeps" them toward the sweeper outlet suction pipe



PVC piping and nozzles strategically positioned around the perimeter of the cold water basin

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MGSP-25 | ISSUED 1/2025

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