

FLOWMARK PROJECT PROFILE

FlowMark Replaces Chemicals at Lake Marry, Fl. Medical Building

Overview

In October 2013 a FlowMark model Mark-III was installed on the 6" diameter PVC riser of a 300 ton evaporative condenser at a medical building in Lake Marry Florida. All chemical treatment was discontinued. Over the course of 12 months the conductivity bleed set point was gradually increased to attain maximum water savings. Cycles of concentration by chlorides were increased from 4.1 to 14.5 with no new scale forming.

Parameter	Chemicals	FlowMark
Mineral Scale	Was Scaling	No New Scale
Conductivity Bleed Set Point	1200 Umohs	1650 Umohs
Cycles of Concentration	4.1 COC	14.5 COC
Water Savings Per Day Compared with 4.1 COC at an average load of 250 tons	0	2, 684 gallons of fresh water / day.
Water Savings Per Year	0	979,660 gallons of fresh water / year

Arrows indicate areas where scale was removed prior to starting FlowMark. No new mineral scale has formed in 12 months despite extremely high cycles of concentration.



Mark-III installed on 6" PVC Pipe



Nema 4X FlowMark Controller