



“We couldn’t get the chilled water supply temperatures low enough to properly cool, until we got the air out of the system.”

Steve Kaiser

Director of Facilities & Grounds

Mosinee School District

Teaching in the classroom *and* in the mechanical room

Mosinee school district located in Mosinee, WI struggled to get the necessary cooling from its equipment.

In such instances, facility managers and engineers are often trained to look at controls, balancing valves and even re-evaluate equipment selections.

Director of Facilities & Grounds, Steve Kaiser, based on previous experience with Spirotherm and Spirovent products, suspected there was air in the water/glycol mixture. Entrained air, when mixed with glycol, creates foam, which in turn inhibits heat transfer.

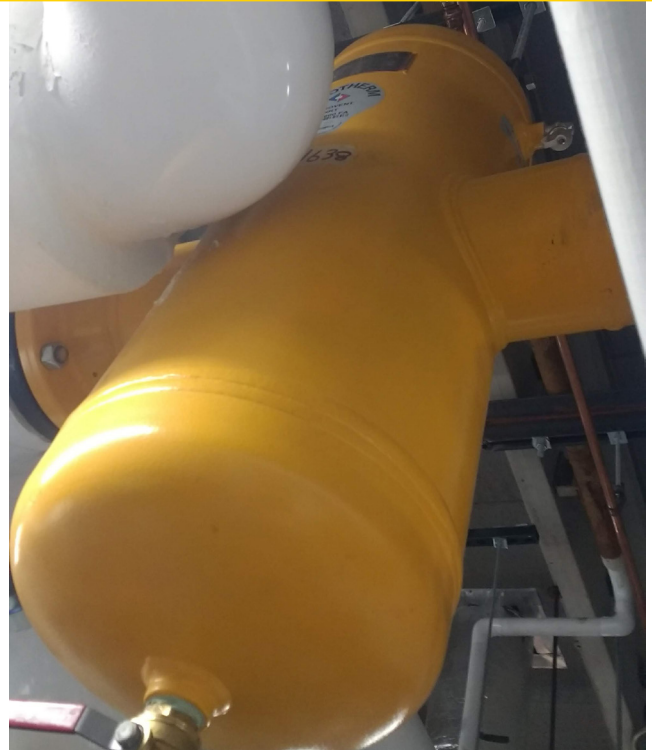
The solution was clear: Install a Spirovent to remove all free, entrained and trapped air.

Results after Spirovent installation:

Delta T: Improved from 8°F to 11°F
Chiller: 38% increase in effective tonnage
Pumps: Running at lower RPM
Water: Clear and free of debris

Without making any other changes to the system, the Spirovent removed all entrained air and proved that air was indeed the culprit.

Every hydronic system at every school in the district now includes a Spirovent to reduce energy consumption, reduce maintenance time and to extend equipment lifespan.



Boiler Loop water samples
From right to left: 3 weeks