

Spirovent® Installation Meets Expectations

Purdue University

West Lafayette, IN

In May of 2013, Matt Pefley, North Central Regional Manager for Spirotherm, Inc. presented the Spirovent air / dirt separator to the Associate Director of Facilities and Maintenance and several of his staff responsible for Purdue Village and University Residences. The Village is a multi-building housing complex primarily for married students and families on the edge of Purdue University's campus in West Lafayette, Indiana. Each building has a stand-alone boiler system with numerous air and dirt related problems. After losing several heat exchangers due to dirt, a new solution was needed to combat the problem.

Following the presentation and working some of the building systems to installation. A combination air & dirt separator was installed in Building 222. While the intent was to season, other priorities caused a delay was installed in Building 222. Positive follow-ups and an on-site review was if the Spirovent was meeting



Typical Purdue Village Building

demonstration Matt was asked to review identify a location for the first test separator was purchased shortly install it prior to the upcoming heating until the first week of December when it feedback was received in subsequent scheduled for mid-February, 2014 to see expectations.



VDT250FA Spirovent – Bldg. 222

Matt along with the local rep for Spirotherm, Jeff Cook of Cook Fluid Products met with the current Associate Director of Facilities and his Facilities Manager who said "it's working great". Since installing the Spirovent combination air eliminator / dirt separator the facilities staff have been taking samples of the dirt and sediment removed from the system. Initially they were blowing it down every couple days and after a few weeks extended it to every 7 to 10 days. Every blow-down was described as removing more and more rust and sediment from the system. Large chunks of rust, some as large as 1/8" have been removed, which were causing problems with the boiler heat exchanger prior to installation. The two full flow functions of the Spirovent will remove the rust and dirt plus eliminate air in the system and stop the corrosion process. Now the University only needs to blow-down the unit once or twice a season.

Field tested results proved this product is meeting and exceeding expectations and thus led the University to purchase and install (32) more units at the village. Since then another unit was purchased for Hilltop Apartments to solve various air issues. The general campus need to increase system thermal distribution efficiency has also gained traction and led to additional installations with the total number of Spirovent units installed on campus at (37).

The industry leading Spirovent employs a patented coalescing medium filling the entire vessel, which provides unsurpassed performance. It is used extensively in commercial and institutional applications both to solve problems in existing buildings and prevent them in new construction. Many universities have made them part of their guide specs, leading to over one hundred installations each in several Big 10 schools. Colleges and universities, large and small have multiple installations and have documented maintenance savings and overall system operation improvements. Manufactured in Glendale Heights, Spirotherm maintains a network of qualified representatives across North America for on-site assistance.



Actual Blow-Down Results