



Project Case History

Unique AireShare™ ventilators enhance performance and comfort of split system air handlers

Ventilator uses interior stud wall cavity to move conditioned air inconspicuously and quietly from one room to another

Harbor View Windows, Heating and Air, Inc., based in Brookings, Oregon, has installed ductless split system heating/cooling for two years and is a top producing dealer. Ductless systems offer high-energy savings, but can also have comfort challenges if an air handler is not installed in each room. Rooms without air handlers are subject to being too hot or cold. On a recent multi-family project using ductless systems, Harbor View was able to overcome this problem by installing an average of two AireShare™ room-to-room ventilators per five-room townhouse. The ventilators, made by Tjernlund Products, effectively distribute conditioned air to rooms without air handlers.

According to Pat and Sherry Nied, Harbor View's owners, "This was a 168-unit town home development. The three-bedroom, two-bath units ranged from 1,500 square feet to 2,000 square feet. The builder's goal was to offer homes with tangible features that separated his product from others in the area and thus would be more attractive to potential buyers. Energy savings is one of the important features because people are now more conscious of it than ever."

Using a split system was an ideal way to achieve the level of energy conservation the contractor was looking for. However, Nied recognized the downside of using the system in four or more room applications. "Typically there's a vent in every room with a conventional heat pump system. But with the split system we used, we were limited to heating and cooling only three rooms. This meant air handlers in the main living room, kitchen and master bedroom, leaving two or sometimes three rooms without any conditioned air."

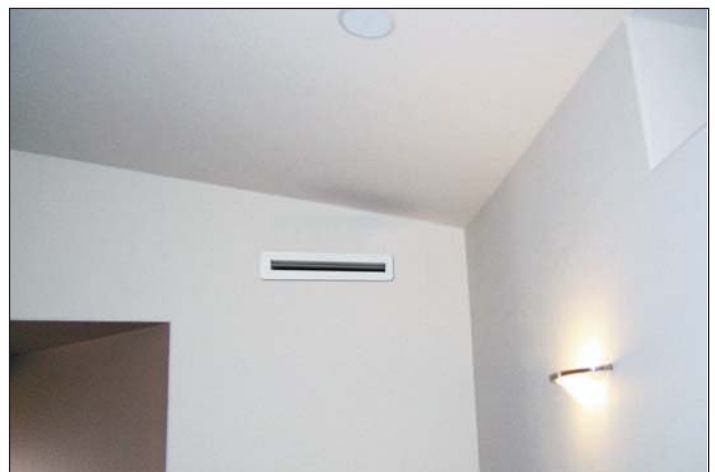


Photo shows AireShare™ blower grille above door on left and air handler for ductless split system at upper right corner.

Focused on solving this problem, Harbor View's Heating and Air Manager researched various methods to augment the ductless system and provide conditioned air for every room. His search through HVAC trade journals, Internet sites and catalogs uncovered AireShare™ room-to-room ventilators. "They appeared to be both aesthetically correct for the application and more highly engineered than other products intended to do the same job," said Nied.

The AireShare™ ventilator, introduced in early 2007, is unique because it utilizes a stud wall cavity as a passage way to move air from one room to another. Major components are a low Sone cross flow blower

Continued on other side



Above: Streamlined AireShare™ diffuser is inconspicuous and blends with décor.

unit that draws conditioned air into the wall cavity and pushes it through a diffuser in an adjoining room. Blower and diffuser can be installed at floor or ceiling

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level to accommodate virtually any warm and cool air distribution requirement. Features of the system include an inconspicuous appearance, quiet operation, low energy use, up to 75 CFM and easy, quick installation. They can be controlled with a 120 VAC wall switch or thermostat.



AireShare™ ventilators over opposite doorways move conditioned air from one room to another to achieve comfortable temps throughout dwelling.

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Nied believes a cost-effective way has finally been found to make ductless systems deliver comfort in a wide range of residential applications. "We think AireShare™, in unison with the split system we install, fills a gap that has persisted."

For AireShare™ availability, product and pricing details, Nied contacted Jeff Seeberg, Branch Manager of Thermal Supply, an HVAC distributor in Medford, Oregon, who in turn contacted Cascade Products that represents Tjernlund Products.

Tjernlund Products, located in White Bear Lake, Minnesota, is a major manufacturer of draft, combustion air, ventilation products and controls. For more information, call 800-255-4208 or go to www.tjernlund.com.

AireShare™ Room-to-Room Ventilator

- **Blends with any décor**
 - Classic grille and sleek diffuser
 - No exposed electrical cords
- **Whisper quiet operation**
 - Low Sone cross flow blower
 - 50% quieter than any other through wall fan
- **Easy to install**
 - Quickly installs in interior finished walls with common tools

Hard Wired or Concealed Power Cord Models



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