

Overcoming VRV Installation Challenges with Slimduct RD

To be repurposed for government use, a building constructed in 1983, needed a complete redesign and renovation. Cooling and heating were one of the many areas needing a major upgrade.

Considering the requirements for energy efficiency and precise zone control, the design engineers determined that the best solution would be a Daikin VRV system.

Project Info

- Location: Westerville, OH
- Building type: Government
- Project type: Existing building, repurposed, redesigned and renovated
- Year constructed: 1983
- Number of floors: 1
- Square footage: 24,000
- Manufacturer of VRV equipment: Daikin
- Mechanical contractor: Comfortrol
- Master distributor in North America for Slimduct RD/PD: MarketAir



Installation in Westerville, OH

Once Comfortrol, the company hired to install the VRV system, saw the initial blueprints, they realized that the type of lineset installation proposed would create maintenance problems in the future. "The original idea was to install all the linesets underground, from the point where they exited the building until they reached the condensers. This type of installation would be problematic" said Mike Cipollone, project manager for Comfortrol "Imagine having to break through concrete to address possible leaks or maintenance issues." he continued.

Daikin, the VRV system manufacturer suggested they use Inaba Denko's RD Commercial Lineset Covers.

Currently protecting hundreds of VRV/VRF lineset installations around the world, Slimduct RD is a cost-effective and labor-saving way to enclose and protect exposed lineset layouts. Mike got in touch with Gerry Spanger from MarketAir.

They started discussing the project which culminated in new drawings using Slimduct RD for the main duct and Slimduct PD, (a supplementary PVC lineset enclosure system) from the main duct to each condenser, thus eliminating the need for extra concrete work or burying linesets underground.

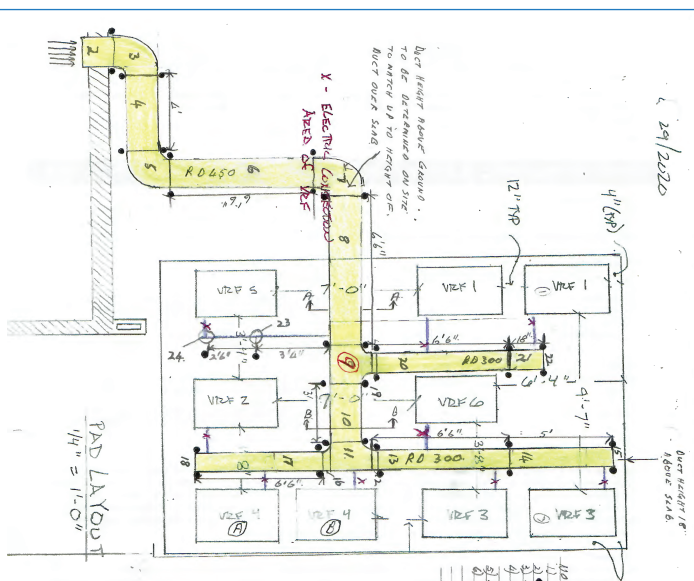
Even better, since both Slimduct RD & PD can easily be accessed, lineset maintenance would no longer be an issue. "This was the first time I've worked with Slimduct Commercial lineset enclosures, so I had some struggles in the beginning, however, Gerry was not only very helpful but was instrumental in getting the design finalized," said Mike.

Slimduct RD Benefits

- Protects the linesets from mechanical and weather damage
- Preserves the energy efficiency of the air conditioning system
- Multiple fittings available for easy on-site customization
- Scratch and abrasion resistant
- Optional anti-slip Walkway surface allows workers to walk on the cover for easy access and maintenance
- Compact design uses less space than conventional racking systems
- Professional and stylish finish
- Enhances the appearance of the entire installation

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Collaborative drawing MarketAir & Comfortrol

Slimduct RD features a proprietary anti-corrosive, scratch-resistant, hot-dipped and chromium-free coating made of zinc, aluminum and magnesium, which provides a more durable alternative to galvanized steel. This tough and rugged product also features a highly professional finish that blends in perfectly with any type of commercial building.

A total of 9 VRV systems were installed. To direct the refrigerant flow to each designated zone, the 9 condensers were connected to about 30 branch boxes spread throughout the building. The client was very pleased, not only with the VRV installation, but with the overall clean look provided by the Slimduct RD lineset covers.