

INABA DENKO SLIMDUCT™ RD

Improving Air Quality and Education

Proper air ventilation has proven one of the most complex issues for districts reopening amid the coronavirus pandemic. Studies have suggested the coronavirus can linger in the air for hours in poorly ventilated places. That's where heating, ventilation and air conditioning (HVAC) systems come in. They keep air flowing through enclosed spaces and can help slow the spread of the virus.

While many schools in New Jersey were trying to improve their systems in preparation to the new school year, the Raritan High School was pretty much ready to go.

Project Info

- Location: Hazlet, NJ
- Building type: School
- Project type: Existing building, new installation
- Square footage: 193,600
- Manufacturer of VRF equipment: Trane
- Mechanical contractor: Kappa Construction
- Master distributor in North America for Slimduct RD/PD: MarketAir



Back in 2017, a state-of-the-art HVAC system was installed throughout the school. Before that, the classrooms were only provided with heat, but now the airflow from the VRF systems provide proper circulation and indoor comfort.

Kappa Construction, a family-owned-and-operated general contractor specializing in performing in-house HVAC-R work was awarded the bid to conduct this project. With over 45 years of experience, and a major player in the public-sector in New Jersey, they got to work right away.

The project consisted in utilizing the existing hot water heating system to meet the school's heating demands. The heat pump VRF systems could have been used for supplemental heat, but were designed to serve all cooling demands. "The project documents called for the installation of Slimduct RD to cover all exterior piping between condensing units and their respective building wall/pipe portal penetrations." said George Kamaratos - Kappa Construction Project Manager.

George contacted Gerry Spanger from MarketAir to acquire the Slimduct RD for this project, and was pleasantly surprised to see how smooth the whole process, from purchase to installation, went.

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 building.



VRF System installed by the wall with Slimduct RD running vertically

A total of 21 Trane VRF systems containing 160 indoor ceiling units. The project also included the installation of several 1-1 split system, convectors, rooftop units and exhaust fans.

Some VRF systems were installed on the rooftop with the lines running horizontally. Other units were placed along the wall, with vertical lines. Since the Slimduct RD is field configurable and can be installed in different orientations, all linesets were properly enclosed and protected.

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

Providers Contact

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