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Innovative Design Offers More Efficient Dehumidification for Greenbrier Family YMCA Pool

The Greenbrier Family YMCA was built in the late 1980s to provide athletic facilities and services to the community of Chesapeake, V.A. The facility features a full-size indoor pool in addition to an outdoor recreational pool and a kids' pool and spray park. In June 2015, the Greenbrier Family YMCA was in need of an upgrade for its pool dehumidification system.

R.A. Parks of the YMCA of South Hampton Roads, an organization that runs 18 YMCA locations in the community including the Greenbrier Family YMCA, was charged with overseeing the selection and installation of a new dehumidification system for the facility's indoor pool. He was looking for an efficient system that would reduce energy costs and be easy to operate and maintain.

On the recommendation of Davken Mechanical, who ultimately performed the installation of the unit, he sought the expertise of the local independent manufacturers' representative for commercial and industrial heating, ventilating and air conditioning (HVAC) equipment.

After reviewing the facility's requirements for its pool dehumidification system, and Parks' objectives, the RS-182 Dry-O-Tron[®] LEEDeR was recommended.

The RS-182 Dry-O-Tron® LEEDeR indoor pool dehumidifier is designed to work with the Dectron Vision 2.0 Internet Monitoring Technology, an innovative and free service which uses the internet to allow facility managers to control the unit remotely from anywhere.

The LEEDeR units, the newest innovation to the longstanding Dry-O-Tron® brand, offer superior efficiency and innovative design that make dehumidification far less costly, and better for the environment.

The Dry-O-Tron® LEEDeR units feature a glycol loop, which reduces the refrigerant charge significantly. In fact, LEEDeR units feature the lowest refrigerant charge of any indoor pool dehumidifier of the same capacity.

The innovative design of these LEEDeR units also allow them to contribute anywhere from 6 to 13 LEED® points, which can be applied toward the achievement of Leadership in Energy and Environmental Design (LEED®) rating systems.

The RS-182 Dry-O-Tron® LEEDeR outdoor rooftop unit is designed for durability and reliability, with 90% fewer refrigeration joints than traditional indoor pool dehumidification system. Fewer joints reduce the possibility of costly refrigerant leaks and associated maintenance costs, making it easier for customers to operate and maintain the unit.

The LEEDeR also efficiently heats the water in the pool. Refrigerant can circulate through the pool water heater, in order to raise loop temperature to effectively reject heat into pool water when needed. The compressor's total heat is rejected into the internal glycol loop heat exchanger, which can then be rejected simultaneously with optimized modulating control into the pool space supply air and/or into the air outdoors, with a fluid cooler, an outdoor air preheat coil can be connected to the Dry-O-Tron® LEEDeR integral glycol loop.

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Dectron's reputation for product quality and excellent customer service one factor in the decision for the YMCA of South Hampton Roads to go with the Dry-O-Tron® LEEDeR.

Parks of the YMCA of South Hampton Roads was also familiar with Dectron's efficient and easy-to-operate units. "We have them in multiple locations, and we are very happy with them," he says.

The LEEDeR units are designed for easy installation. The installation team from Davken Mechanical was responsible for removing the old system and putting the new unit in place. It did not take long for it to be connected and up and running—the pool was only closed to the public for five days for the removal of the old unit and the installation of the new one.

Within days, swimmers could feel the effects of the improved airflow in the facility.

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R.A. Parks, YMCA of South Hampton Roads

Once Vision 2.0 was activated, the system became even easier to personalize, operate, and manage. "I can access it easily from my computer in my office, or from my smartphone," says Parks. "I can log on online and see what's going on. I can also reset the unit from afar—I can be anywhere, and just use my phone to reset the unit after a power surge, as an example."

The Greenbrier Family YMCA has also been able to enjoy lower operating costs with the new, more efficient dehumidification unit. LEEDeR units eliminate temperature fluctuations in the air, and less temperature swing means greater efficiency and lower operating costs. They have the lowest cost of ownership in the industry. The system is extremely reliable and the compressor is designed to last for a long time, so maintenance requirements should also be reduced. With its innovative and durable design, YMCA of South Hampton Roads can expect this Dry-O-Tron® LEEDeR unit to last for 20 years or more.

As with all Dectron products, the customer service the company is renowned for will be available to the Greenbrier Family YMCA throughout the life of the unit. Parks adds, "Dectron really stands behind its products, and the support is just as important to us as the unit itself." ■



Dectron is a Dehumidified Air Solutions company and member of Dehumidified Air Services, a coast-to-coast service network of local customer support specialists. Backed by real-time remote monitoring of Vision 2.0 technology and direct access to the engineers who designed and built your dehumidifier, Dehumidified Air Services is the only organization in North America that has the scale and expertise to deliver trouble-free pool dehumidification and unparalleled customer service.



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