

Huntington Beach Gym and Pool controls humidity, saves on energy

In the spring of 2007, the Huntington Beach Gym and Pool in Huntington Beach, California was having an issue with the humidity level in their building. The popular community center called upon EMCOR Service, Mesa Energy Systems to look into the issues with their current 12 ton DX system. It was found that their current system was not properly dehumidifying the space, leading to issues with fog, condensation and mold.

Dehumidification in a pool is subject to the temperature of the water and the space temperature. The higher the water temperature and the lower the room temperature, the more dehumidification is required. The space conditions and the pool water temperature inhibited the old system, using a DX cooling coil for dehumidification, from removing enough moisture for an indoor pool environment. In addition, the old system was not providing essential outside air needed to the space. Instead, it was using 100% recirculated air, which enabled the chlorine levels to build in the space.

“The humidity level in the pool room was extremely high, which was very apparent by the moisture on the windows; the smell of chlorine in the room was also very strong.” said Brian McAdams, Project Manager for Emcor.



The Huntington Beach Gym and Pool now utilizes Munters dehumidification. With a Munters system, pool operators can protect the building from moisture, keep occupants comfortable, and save energy.

CASE STUDY: Huntington Beach Gym & Pool



BENEFITS

- Reduced Energy Costs
- Improved Occupant Comfort
- Structural Integrity Protected
- Reduced Maintenance Cost





Emcor consulted Aaron Deutsch from Drymaxx Air Solutions, LLC, a Munters representative, to help find the correct solution to the Huntington Beach pool's problem.

"The current pool conditions required more dehumidification than the existing system could provide. Using a refrigeration based system, an 18 ton unit was required. However there was no room to put in the larger unit needed for the space," said Deutsch.

After surveying the blueprint, Deutsch recommended a 12 ton Munters DryCool Packaged unit which would deliver the necessary 3,000 CFM of air to the building to provide proper humidity control, increase IAQ and improve energy efficiency.

Outdoor conditions of Huntington beach were also considered. The area has a mild temperate climate all year long, not too hot in the summer and not too cold in the winter. This enabled the use of 100% outside air for the application. This improved the indoor air quality tremendously since no chlorine or chloramines were recycled back into the pool area. The Munters unit provides 100% outside air and keeps the humidity in the pool area between 50 and 60% RH.

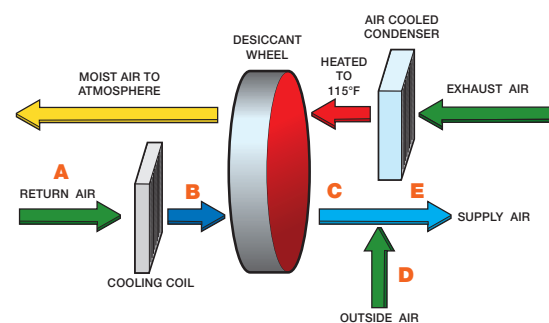
After the installation of the new equipment, Huntington Beach Pool is happy to report ideal humidity levels and a significantly decreased chlorine smell in the space.

While looking for a replacement system, Huntington Beach Pool knew they needed to utilize a newer, more effective, energy efficient technology than what they had previously.

With the new Munters DryCool unit in place, Huntington Beach can look forward to lower utility bills and increased occupant comfort.

"The equipment was delivered on time, Munters was diligent about answering all our technical questions and the equipment is working great" says McAdams.

DryCool Packaged Airflow Schematic



Munters offers a variety of natatorium dehumidification systems in several different sizes, configurations, and thermodynamic process options to meet the customer's needs. Systems can be optimized to provide the best solution from a first cost, life cycle cost and sustainability perspective.

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