DCA Addresses Humidity Control for Indoor Pool Facilities

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CEDARBURG, WI - March 10, 2026 -
Dehumidifier Corporation of America (DCA) is addressing the growing need for effective humidity control in indoor swimming pool facilities, where unchecked moisture poses serious risks to building structures, mechanical systems, and occupant comfort. The company, which has manufactured dehumidification solutions since 1995, offers purpose-built systems designed specifically for the demanding conditions found in enclosed pool environments.

Indoor swimming pools generate substantial amounts of moisture as water warms to swimming temperatures and evaporates into the surrounding air. That moisture carries chlorine or bromine disinfectants, creating a corrosive atmosphere that attacks metal surfaces, electrical components, and building materials throughout the enclosure. Without proper dehumidification, mold and mildew will eventually spread through every part of the facility and into adjoining structures.

The consequences of inadequate moisture management in pool rooms extend well beyond the pool enclosure itself. Condensation that forms on walls, ceilings, windows, and structural supports can penetrate adjacent spaces, damaging drywall, insulation, and framing. Over time, persistent moisture infiltration

compromises the structural integrity of the building and creates conditions that promote bacterial growth and indoor air quality problems.

"Indoor pool rooms are among the most challenging environments for humidity control because the moisture load is constant and the air contains aggressive chemical disinfectants," said Errol Gelhaar, an executive at Dehumidifier Corporation of America. "A system designed for general HVAC duty simply cannot handle the sustained evaporation rates and corrosive conditions that are present in these facilities."

Conventional approaches to managing pool room humidity often rely on exhausting warm, moist air to the outdoors and replacing it with outside air. This method is inherently inefficient because it discards air that has already been heated or cooled using significant amounts of energy. The replacement air drawn into the facility typically contains its own moisture load, which destabilizes conditions inside the pool room and forces heating and cooling systems to work harder.

DCA dehumidifiers for indoor pool rooms are engineered as multi-functional systems that handle dehumidification, room heating, room cooling, and assist with pool water heating within a single unit. The dehumidification process recovers energy that would otherwise be lost, and in some cases the recovered heat is sufficient to warm the entire pool room without additional energy input beyond the cost of operating the dehumidifier itself.

An optional remote condenser enables the system to provide cooling during warm months, while optional electric or gas duct heaters supply supplemental room heating during colder periods. An optional pool water heating coil can be integrated into the dehumidifier to warm pool water under certain operating conditions, further reducing overall energy consumption for the facility.

"The energy recovery aspect of a properly designed pool room dehumidifier is significant," Gelhaar added. "Facility operators are often surprised to learn that the heat generated during the dehumidification process can offset a substantial portion of their room heating costs."

DCA systems operate as closed-loop configurations, which means they recirculate and condition indoor air rather than exhausting it. This approach maintains stable temperature and humidity levels while minimizing energy waste. Operation is fully automatic, controlled by a wall-mounted humidistat that starts the dehumidifier when humidity rises above a set threshold and stops it when ideal conditions are restored. An automatic changeover thermostat manages heating and cooling functions independently.

Installation options accommodate a range of facility layouts and space constraints. Units are available in horizontal and vertical configurations and can be installed indoors, outdoors, or on rooftops with curb-mounted assemblies. The systems integrate with existing ductwork in a manner similar to standard

HVAC installations, and controls can connect to building management systems using BACnet, or MODBUS protocols for centralized monitoring.

Water-cooled condenser options are also available for facilities with access to geothermal energy, cooling towers, chillers, processed water, or municipal water supplies. Every DCA dehumidifier is factory tested prior to shipment to verify efficiency and capacity performance under operating conditions.

Maintenance requirements for DCA pool room dehumidifiers are minimal, limited primarily to return air filter and belt changes. The systems require no lubrication and are designed for years of continuous, trouble-free operation in properly designed pool room atmospheres.

For more information about swimming pool room dehumidifiers, visit https://dehumidifiercorp.com/swimming-pool-dehumidifiers/.

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Dehumidifier Corporation of America

Founded in 1995, Dehumidifier Corporation of America (DCA) is a US Corporation that is totally dedicated to the field of Dehumidification

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