

Get the right climate in your sports facility



Munters climate control helps make your sports experience enjoyable

Due to high moisture loads in many recreation and leisure facilities, traditional air handling units are unable to create a comfortable, healthy, and safe indoor climate. To achieve ideal humidity levels and keep athletes safe, many sports facilities rely on Munters dehumidification systems.

While some facilities require less humidity, others require more. That's why Munters has a complete range of humidification solutions on hand. Our advanced humidification systems create indoor environments that are healthy, productive, and environmentally friendly. The right humidity levels can minimize adverse health effects, improve productivity and quality, and maximize energy efficiency.

High humidity

Excessive humidity can create a breeding ground for mold, mildew, and dust mites, triggering allergies and respiratory issues. It can also compromise building materials, leading to decay, peeling paint, and structural damage.

Low humidity

In environments with low humidity, moisture is drawn from surfaces and living organisms, including the human body. This can lead to dry skin, irritated eyes, and increased susceptibility to infections. Low humidity can also cause materials like wood, textiles, and paper to become brittle and crack.



Healthier indoor
air quality



Decades of sports facility
climate control expertise



Increased
comfort levels



Reduced
maintenance costs

Athletic facilities



Natatoriums

Natatoriums pose a unique challenge for HVAC systems. The pool's heated water encourages water evaporation, making it difficult for traditional systems to maintain optimal conditions. Additionally, the air within natatoriums must be kept at 50% relative humidity to safeguard the building structure and prevent mold and bacteria growth. Swimmers, preferring warmer air as they exit the pool, further complicate the system's load.

Munters addresses these challenges with our advanced dehumidification systems., which absorb moisture from the air and maintain the desired humidity levels. A direct-fired natural gas heater is commonly employed to reactivate the desiccant dehumidifier, although alternative heat sources like steam or electric resistance can also be used. Heating and cooling coils in the air handling unit provide further temperature control. Given the need for constant humidity regulation, Munters dehumidification systems ensure the longevity of the facility and the comfort of its occupants.

Ice rinks

Whether used for recreational enjoyment or athletic events, indoor ice rinks demand highly efficient operating systems to combat humidity. Traditional systems, even those equipped with refrigeration dehumidifiers, often fall short in maintaining ideal ice rink conditions. Moisture condensation on the rink can lead to softened ice, puddles, and the formation of frost and fog, compromising safety. Excess moisture on the roof causes issues like dripping on spectators, damage to the ice, and deterioration of the building structure.

To achieve optimal ice surface conditions and ensure excellent indoor air quality, it's crucial to closely match the dew point with the ice surface temperature. Munters desiccant dehumidifiers efficiently remove water vapor before it can affect the ice sheet.

While delivering substantial fresh air for enhanced ventilation, the desiccant dehumidifier effectively absorbs moisture. Remarkably, a Munters system can outperform three standard refrigeration units without using Freon. This results in consistently hard ice, allowing your refrigeration system to operate at peak efficiency, thereby saving energy costs and preserving system capacity. Drawing on over 30 years of experience in dehumidifying skating and curling rinks, Munters is dedicated to meeting your needs.



Gyms

In gyms, the combination of ventilation, infiltration, and the presence of people generates substantial moisture loads. Uncontrolled humidity in these spaces poses a potential risk to the facility and its materials, especially wooden sports floors. The Maple Flooring Manufacturers Association (MFMA) mandates that humidity at floor level should be maintained between 35% and 50% relative humidity in the United States and Canada. Failing to control humidity could lead to more significant costs than investing in a dehumidification system.

Maintaining 40-60% RH is key for guest and staff well-being in gyms. Comfortable environments encourage members to return and recommend your gym. In regions and during seasons with very dry conditions, Munters can help maintain the perfect climate in gyms with efficient humidification solutions that ensure a healthy and sustainable indoor environment.

Fitness clubs

The challenging environment of fitness clubs, operating around the clock with high levels of sweat, humidity, and people in close quarters, requires effective climate control. Persistent exposure to humidity in fitness clubs not only results in odors and bacteria on expensive equipment but may also contribute to the deterioration of the facility and its materials. By managing humidity, you not only prevent damage from condensation but also create a healthier and more comfortable environment for both customers and staff.

When humidity is low in fitness clubs, the air tries to compensate by drawing moisture from various sources. This can cause issues like chapped lips and dry skin. Beyond the surface, studies show that humidity below 40% RH reduces protective mucous layers, making us more susceptible to infection and hindering tissue regeneration. In regions with very dry conditions, or during the arid winter months, Munters can provide efficient humidification solutions, ensuring optimal indoor conditions.


Showers and locker rooms

The undesirable damp feeling, and musty odor associated with locker rooms can be avoided with dehumidification. Maintaining proper humidity levels helps limit the growth of bacteria and fungi, reducing odors and preventing corrosion. Introducing dry ventilation air further aids in drying moist locker rooms and showers, contributing to a more pleasant and hygienic environment.

Munters humidification systems enhance disinfection, and minimize discomfort, improving customer satisfaction and facility owner ROI. Ideal in arctic regions and during the dry winter months, Munters efficient humidification solutions can help create the perfect climate for showers and locker rooms.







Climate solutions for the future

And for your mission-critical processes

Founded in Sweden in 1955, Munters today has 20 manufacturing facilities across the globe and sales offices in more than 30 countries. With approximately 4,000 employees worldwide, we have net sales approaching €1 billion EUR.

Munters is a global leader in climate solutions for mission-critical processes. We offer innovative, efficient, sustainable solutions for controlling humidity and temperature, recovering energy, treating emissions, and using evaporative cooling for comfort, manufacturing, and environmental protection.

Sustainability is an important aspect of our business strategy and value creation. Our solutions help customers use resources efficiently, reducing their climate and environmental impact, ultimately contributing to a better climate and reduced carbon emissions.



Munters climate control solutions

Dehumidification expertise

Munters draws upon over seventy years of expertise in employing desiccant technology to regulate humidity across diverse applications. Central to the Munters dehumidification system is the innovative HoneyCombe® desiccant wheel, which functions like a moisture-absorbing sponge. This advanced technology empowers athletic facilities to effortlessly maintain desired relative humidity levels, mitigating risks associated with excess moisture, particularly in wooden sports floors.

Proven solutions

Munters desiccant technology not only protects the structural integrity of buildings by controlling humidity but also offers practical benefits. From significant annual cost savings due to its superior efficiency in removing humidity to reduced maintenance costs and improved indoor air quality, desiccant dehumidification ensures a healthier, more sustainable environment. The powerful drying power of desiccant systems also translates to lower equipment costs, making it a cost-effective and efficient choice for athletic facilities aiming to maintain optimal conditions year-round.

Humidification expertise

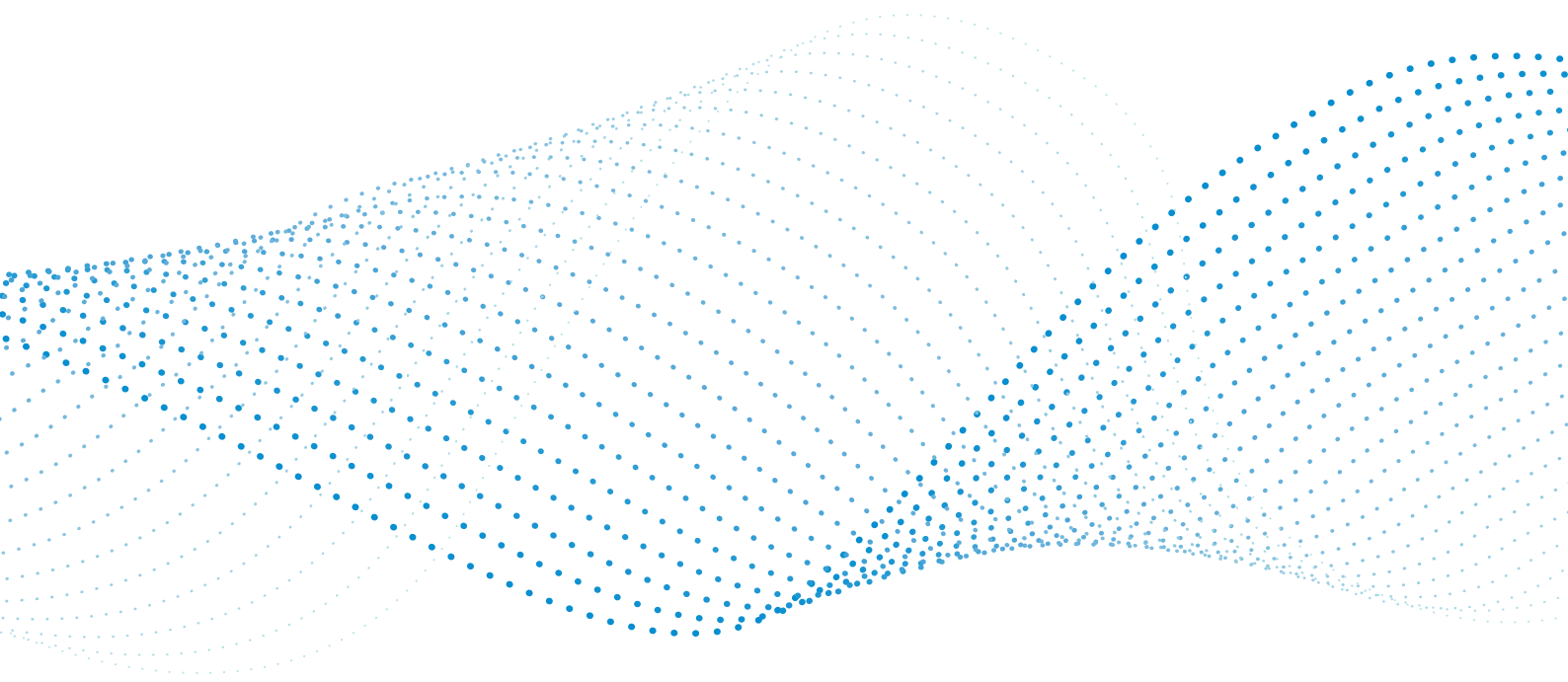
Munters recognizes the profound impact humidity has on indoor environments. In sports facilities, the right humidity levels play a crucial role in enhancing building performance and promoting the well-being and productivity of occupants. We specialize in developing energy-efficient humidification solutions powered by sustainable energy sources. Our innovative humidification solutions ensure optimal indoor climates that are both healthy and environmentally friendly.

Proven solutions

Munters offers two cutting-edge technologies to achieve precise humidity control. Isothermal (steam) humidification utilizes ultra-hygienic, substance-free steam generated from boiling water. While adiabatic (evaporative) cooling-and-humidification systems add water molecules to the air, adjusting relative humidity and temperature according to specific application requirements.

Total climate control

Whether combating dryness in winter or preventing the growth of bacteria and mold in humid summer conditions, Munters climate control solutions ensure optimal indoor climates for health, safety, and maximum productivity.



Munters is a global leader in energy-efficient air treatment and climate solutions. Using innovative technologies, Munters creates the perfect climate for customers in a wide range of industries.

Munters has been defining the future of air treatment since 1955. Today, around 4,000 employees carry out manufacturing and sales in more than 30 countries.

For more information, please visit www.munters.com