



**ENERAMA**  
Environmental Technologies

**DRAGON**  
WORLD'S MOST  
EFFICIENT & POWERFUL  
CLIMATE CONTROL SYSTEM



INDOOR  
ENTERTAINMENT

## Hygiene and comfort are the primary must-have qualities for any Indoor Entertainment Complex.

Whether it is an indoor pool, ice-rink, gym, spa or even skiing complex almost all indoor entertainment areas h

One thing all entertainment areas such indoor pools, ice-rinks, gyms, spas or even skiing complex have in common is the considerable evapotranspiration occurring during the use of the areas resulting in:

- Molds and rust that damage the property
- Hygiene and Health code issues as a result of airborne pathogen, fungi, bacteria and other microorganism
- Increased energy consumption for desired heating or cooling
- Poor customer satisfaction due uncomfortable air quality

### PATENTED TECHNOLOGY



With its patented "**liquid desiccant**" system, Dragon is considered to be the most energy efficient climate control technology. Due to its unique and powerful dehumidification methodology, **Dragon** is able to ensure optimum climate conditions and superior air quality at a fraction of the energy consumption.

Dragon is able to absorb **1.32** Gallons of water while filtering the air from airborne pathogens by consuming **1 kWh** of energy. This leads to Dragon's value proposition of improving revenues, decreasing operating expenses and enabling regulatory compliance.

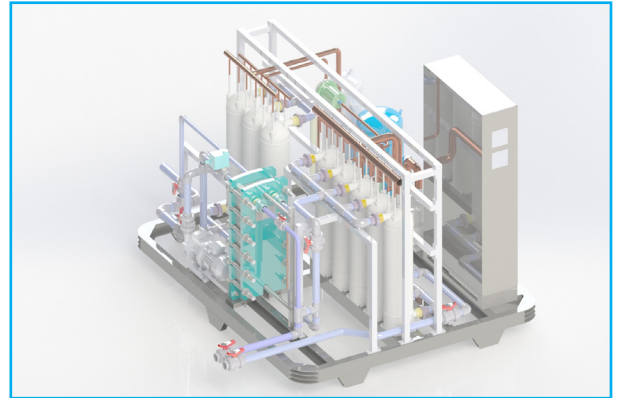
**DRAGON**

[www.enerama.com](http://www.enerama.com)

## HYGIENIC & SAFE ENVIRONMENT



**Dragon**, filters the free particles in the air and disinfects fungi without using expensive filtration systems. Thus it provides a natural, clean air throughout the year, without using any chemicals. It significantly reduces the amount of free spores in the air. Thus, hygienic and safe environment is obtained efficiently.



## ENERGY-SAVING



Relative humidity directly impacts the energy requirements to achieve desired temperature levels from heating or cooling. Due to the inefficiencies of the legacy HVAC systems most facilities have to rely on outdoor conditions as they exchange the air between indoors and outdoors. As a result many facilities experience down-time for a considerable amount out of the year.

Specific to ice-rinks, excess relative humidity leads to faster evapotranspiration which in turns melts the ice. This leads to either more down time and maintenance or significantly increased energy consumption to point of making running the facility unfeasible.

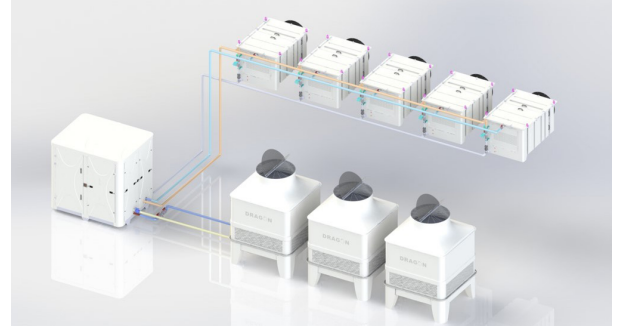
Integrating automated Dragon Dehumidification technology into the HVAC strategy unlocks considerable energy savings. These savings are achieved from both the low energy footprint of the patented technology and its overall performance that leads to solve the common energy draining bottlenecks specific to this industry.

As a result facilities experience year around operations with a considerably lower energy footprint.

## MODULAR & FLEXIBLE DESIGN



Dragon's patented closed circuit liquid desiccant dehumidification technology consists of scalable core components that comes in different variations in order to fit different facility design requirements.



The technology revolves around its core unit named Regenerators that are scalable to enable hourly water extraction from 26.4 gallons to 158.5 gallons. Moreover multiple regenerators can be installed in parallel to further scale the dehumidification capacity to any desired amount.

The other two core components of Dragons are the Regeneration Towers and the Conditioners. The Regeneration Towers are where the humidity extracted from the indoor environment is ejected from the closed circuit. The conditioners on the other hand is where the air brought into the closed liquid desiccant circuit in order to dehumidify, filter and condition the air to supply it into the indoor environment.

The conditioners have multiple options to accommodate both indoor and outdoor placements. In both approach ducts can be further integrated into the system for improved air circulation. Finally the outdoor units can also be utilized in order to plug into a central HVAC ducting system.

## REMOTE MONITORING AND MANAGEMENT SYSTEM



Thanks to its robust service oriented architecture, Enerama's remote monitoring and management system called MekaSense is able to scale both vertically and horizontally. In other words MekaSense is able to integrate with an unlimited number of devices to read real-time data from in order to process it automated behavior all the while being able to add an unlimited number of equipments to control individually and in sync with an automated strategy. This powerful decision making engine is the core of Enerama's patented Dragon Dehumidification technology.



## UNIQUE VALUE PROPOSITIONS



<b>Revenue</b>	Increase	Reduced Facility Downtime
		Increased Customer Satisfaction
<b>Operating Expenses</b>	Decrease	Facility Maintenance
		Energy Consumption
		Chemicals to fight Hygiene Problems
<b>Regulatory Compliance</b>	Improvement	Reduction in Healthcode Violations
<b>Risk Management</b>	Improvement	Predictable Revenue Streams
		Automated Disaster Recovery

## GENERAL FEATURES



<ul style="list-style-type: none"> <li>Consistently achieve optimum climate conditions to maximize product quality and to minimize product loss</li> </ul>
<ul style="list-style-type: none"> <li>Unmatched energy consumption at 1.32 gallons per 1 kWh</li> </ul>
<ul style="list-style-type: none"> <li>Consistent performance independent of most outdoor and indoor condition</li> </ul>
<ul style="list-style-type: none"> <li>Considerable energy savings from the efficient use and transfer of latent energy</li> </ul>
<ul style="list-style-type: none"> <li>No unwanted heat transfer during dehumidification</li> </ul>
<ul style="list-style-type: none"> <li>Contributes dynamically to cooling or heating based on needs</li> </ul>
<ul style="list-style-type: none"> <li>Prevent humidity driven biohazards including mold, fungi, bacteria and pests among many others</li> </ul>
<ul style="list-style-type: none"> <li>Destroy considerable airborne pathogens during the liquid desiccant dehumidification</li> </ul>
<ul style="list-style-type: none"> <li>Closed circuit liquid desiccant system with built in regenerative properties to eliminate running material costs</li> </ul>
<ul style="list-style-type: none"> <li>Self diagnosis, remote support and in depth troubleshooting to streamline maintenance and to minimize downtime</li> </ul>

