



ENERAMA
Environmental Technologies

DRAGON

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



HOSPITALS

Temperature and relative humidity in hospitals affects the airborne survival of viruses, bacteria and fungi. In order to minimize the risk of these microorganisms, hospitals must make sure to sustain excellent indoor air quality at the proper humidity levels.

Most hospitals utilize HVAC systems with central and heating. Although critical storage rooms and surgery rooms generally are separated from central air conditioning, this still poses a considerable risk to the rest of the hospital in the event of contamination. Considering hospitals is one place where microorganisms are brought in from the outside on a daily basis, careful management of humidity is mandatory.

This need becomes much more pressing during surgeries as the rooms needs to be supplied with significantly cooler air, which means increased humidity levels and therefore higher risk of infection. Low Humidity levels on the other hand could lead to premature drying of a body tissue or the formation of electrostatic sparks could have potentially damaging and dangerous effects during surgery not to mention its damage on highly sensitive and expensive equipment. As a result surgery rooms need to be isolated and applied very sensitive humidity and temperature controls.



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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.

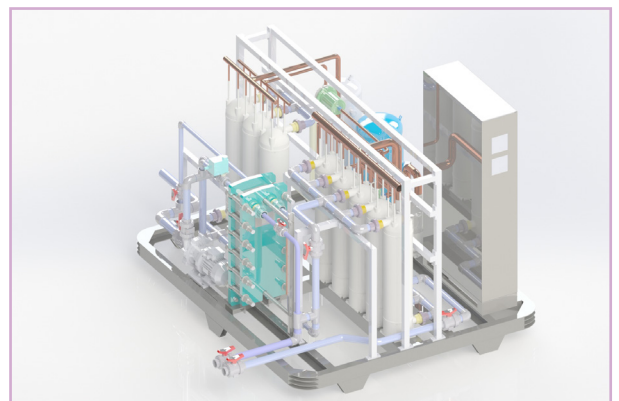
ENERGY-SAVING



Relative humidity directly impacts the energy requirements to achieve desired temperature levels from heating or cooling. Moreover there a number of sector specific requirements like those of clean rooms that demand multiple systems to work together.

Integrating automated Dragon Dehumidification technology into the HVAC strategy unlocks considerable energy savings.

Dragon’s patented liquid desiccant based dehumidification technology unlocks free heating and cooling while dehumidifying at industry leading rates. Its ability to dehumidify while filtering and cooling or heating the air has led Dragon to solve the challenges unique to Hospitals in the most energy efficient manner.



REMOTE MONITORING AND MANAGEMENT SYSTEM



Thanks to its robust service oriented architecture, Enerama's remote monitoring and management system called MekaSera is able to scale both vertically and horizontally. In other words MekaSera 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 equipment to control individually and in sync with an automated strategy.



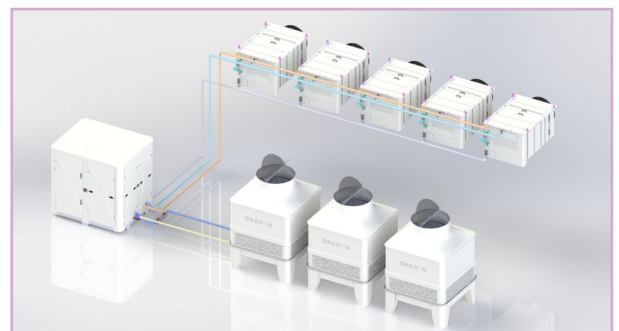
This powerful decision making engine is the core of Enerama's patented Dragon Dehumidification technology.

Automation and controls aside maintenance procedures are also performed remotely by Enerama Support Team utilizing the gateways to MekaSera embedded in the Dragon units. Client operations and management teams enjoy increased visibility and control through the remote monitoring and management features accessible from the mobile or web applications. Automated alarms and disaster recovery strategies allow effective risk management for critical components of the business.

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.



From outdoor placement and integration into central HVAC ducting system to stand alone high-ceiling units, the air handlers named Conditioners can accommodate any possible placement, configuration or integration requirements.

UNIQUE VALUE PROPOSITIONS



Operating Expenses	Decrease	Energy Consumption
		Chemical Filtration
		Distilled Water
Facility Depreciation	Decrease	Reduced Mold and Rust
Regulatory Compliance	Improvement	Reduced Malpractice issues
		Clean Room Requirements
Risk Management	Improvement	Predictable Revenue Streams
		Automated Disaster Recovery

GENERAL FEATURES

■	Unrivaled energy footprint of 1 kWh to extract 1.32 gallons
■	Consistent performance independent of most outdoor and indoor condition
■	Considerable energy savings from the efficient use and transfer of latent energy
■	No unwanted heat transfer during dehumidification
■	Contributes dynamically to cooling or heating based on needs
■	Prevent humidity driven problems including mold, fungi, bacteria and pests among many others
■	Destroy considerable airborne pathogens during the liquid desiccant dehumidification
■	Closed circuit system with built in regenerative properties to eliminate running material costs
■	Self-diagnosis, remote support and in depth troubleshooting to streamline maintenance and to minimize downtime
■	User friendly interface to design and manage automation strategies
■	SMS alerts, Email notification and automated strategies for Alarms
■	Mobile and web application for remote management and monitoring

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