



Kelvin Emtech

Kelvin Emtech finds best humidification solution with Draabe

After three years of looking for the right humidification system for its clients, Kelvin Emtech launched its first project with Draabe – a leader in direct humidification.

A Quebec-based engineering consulting firm that specializes in critical data centre infrastructures, Kelvin Emtech, was looking to help its clients reduce their energy costs, while conserving energy. “Draabe offers a humidification system that no other company can match,” says Ronald Desparois, Director of infrastructure and construction management at Kelvin Emtech.

“Our client, one of Canada’s top IT professional services companies, has a room full of servers that store and back-up critical data for a number of large corporations, and the heat generated in that room is tremendous,” says Ronald. “The Draabe system allows us to spray clean water into the air so we can keep the room cool and the equipment running smoothly. We estimate that our client will save 80% on their energy costs in the first year alone compared to the old system, while significantly reducing the energy required to cool the room.”

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DRAABE
success is in the air



Why data servers need adiabatic humidification

According to Ronald, the biggest benefit of the Draabe system is that it features adiabatic technology where the humidity goes directly into the room and is absorbed quickly into the air. He says: “Most humidification systems require 10 to 15 feet before the spray is absorbed in to the air, which means that some of the spray could land directly on the data servers. Draabe’s absorption rate is only 12 to 18 inches, so the water never touches the equipment directly.”

The reverse osmosis system was another key factor in choosing Draabe. With this component, all the impurities get removed from the water before it is sprayed into the air as vapour. “The vapour is 100% pure which is really important for data server environments,” says Ronald. “When the water is not pure, white dust collects on the equipment, damaging hard drives and compromising data storage.”

Draabe reduces energy costs and conserves energy

By switching to the Draabe system, Kelvin Emtech has estimated that their IT services client will reduce their overall humidification energy costs from \$14,000 to \$200 annually – a huge savings. “What a lot of people don’t realize is that up to 35% of the overhead of a data server room is energy,” says Ronald. “By adding a better humidification system, we are not only reducing the cost of cooling the room, but we are also reducing the energy being used.”

Since installing the Draabe TurboFog 4 and TurboFog 8.2 humidifiers in their client’s server room, Kelvin Emtech has freed up more than 195 kilowatts of energy per hour. This energy is now being used by Kelvin Emtech’s client to increase their capacity to store more data for their end user – good for business and good for profitability.

Customers rely on worry-free maintenance and 24/7 support

With Draabe’s Full Service Agreement Kelvin Emtech’s client never has to worry about disruptions in service. Every six months they receive new replacement containers for their humidification system, plus access to 24/7 technical support. For an IT services firm that is responsible for storing and backing up critical data, this agreement gives them peace of mind.

“We have received great support from Draabe,” says Ronald. “They are very professional and they really know their products. If we have questions, we get answers very quickly. They are a great partner in coming up with solutions for our clients. Together we are helping our clients master the unexpected.”

Why Humidity is Good for Your Business

- Eliminates static
- Prevents downtime

Why Choose Draabe?

- New system containers every 6 months
- Minimal downtime
- Ongoing maintenance & telephone support
- Low cost, energy-efficient system
- Backed by world leader in humidification



U.S.A.

Walter Meier (Climate USA) Inc.

826 Proctor Avenue
Ogdensburg, NY 13669

CANADA

Walter Meier (Climate Canada) Ltd.

2740 Fenton Road
Ottawa, Ontario K1T 3T7

TEL: 1.866.667.8321

FAX: 613.822.7964

EMAIL: draabe@waltermeier.com

WEBSITE: www.draabe.com

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meier**