

Case study

Upper Peninsula Medical Center

- **1414 W. Fair Avenue
Marquette, MI 49855
New Addition**

Engineer

- Integrated Design
Marquette, MI

Mee Fog Humidifier Installation

- Mee Fog High Pressure
Humidification System
For Three Air Handlers

Benefits:

- Reduced Energy
Consumption
- Lower Maintenance Costs
- Improved IAQ
- \$26,000 Savings Per Year

The Upper Peninsula Medical Center is located in the growing and peaceful City of Marquette, which is located on the Southern shore of beautiful Lake Superior in Michigan's Upper Peninsula. .

The Marquette Medical-Dental Center was established in 1965, originally housing 18 physicians. Today, with over four (4) major expansions over the years, the Upper Peninsula Medical Center provides private offices for over 120 physicians and other health care professionals.

Over one half million patients visit the Upper Peninsula Medical Center annually. Because of the extreme winter conditions and high humidifying loads, Steve Boettcher of Integrated Design knew they needed an energy efficient humidification system. Steve called on Mee Fog for input in designing the energy efficient humidification system.



The environment of the newest addition to the Medical Center is controlled by three air handlers with a total of 69,000 cfm and a humidifier capacity of 500#/hr. The load is matched by using staging solenoids that bring on nozzle headers in various combinations. Excess moisture that is not absorbed into the air stream is collected on droplet filters and drained away. The total electrical load for this system is 2.25 kW. A complete Reverse Osmosis system to remove unwanted minerals from the water was also installed as part of the system.

Annual energy savings, as compared to gas fired steam generating humidifiers, is in excess of \$26,000, with a further reduction of \$3,000 in annual maintenance costs.

The building engineer is excited about the reduced maintenance requirements of the Mee Fog system and is looking forward to many low maintenance years of humidifying the newest addition to the Upper Peninsula Medical Center.

Steve's contact information is:

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