

CASE STUDY



Aileen S. Andrew Memorial Library

- Orland Park, IL

Mee Fog Humidifier Installation

- Mee Fog High Pressure Humidification System For Four Air Handlers

Engineer

- KJWW
Rock Island, IL

Benefits:

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

The Aileen S. Andrew Memorial Library is located in the growing City of Orland Park, IL. The new library is Orland Park's primary resource facility for reading and audiovisual materials as well as state-of-the-art technology.

Because of the typical winter conditions and high humidifying loads in North Western Illinois, the library staff knew they needed an energy efficient humidification system and called on Mee Fog for input in designing the humidification system.

The environment of the newest addition to the library system is controlled by two air handlers with a total of 60,000 cfm and a humidifier capacity of 1500#/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 1.25 kW. The system is controlled by the building control system. 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.

Steve Newman, building engineer is excited about the ease of use and the low maintenance requirements of the Mee Fog system and is looking forward to humidifying the newest addition to the library system

You can contact Steve at: Mr. Steve Newman
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Additional information can be provided by:

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