



Venmar Waves Good-bye to Humidity



"We opened our Country Inn & Suites in February 1998. The Venmar unit was used immediately and proved itself to be very effective. In fact, on a few occasions the unit was accidentally shut off and the pool windows fogged up almost immediately. When the unit was restarted, you could see it working as the windows cleared very quickly. We are very happy with the unit."

Tom Seaberg
General Manager

The Problem

Country Inn & Suites had to consider how they would successfully manage Health Department specifications, dehumidification, and indoor relative humidity levels when building their new hotel in Inver Grove Heights, MN. The Minnesota Department of Health states that in new buildings "all indoor pools, dressing rooms, shower rooms, and toilet spaces must be ventilated by mechanical means" and that "the air movement in swimming pool areas and public baths shall not be less than two cubic feet of air per minute (cfm) per square foot of pool surface".

Seasonal weather factors also needed to be considered. Dehumidification was required in winter to prevent moisture build-up on windows and interior walls. Indoor RH levels had to be maintained at 50% year round.

How would they manage to meet all of these requirements in a cost-effective manner?



The Solution

Country Inn & Suites hired Steen Engineering to provide mechanical ventilation design for their indoor pool and spa area. The engineering firm chose to specify a Venmar HRV2000i for two reasons. The HRV2000i has an airflow range of 1200 to 2800 cfm which easily meets the 2 cfm/sq.ft. health requirement and also comes with corrosion resistant protection to prevent rusting of the unit housing and components from chlorine and other pool chemicals.

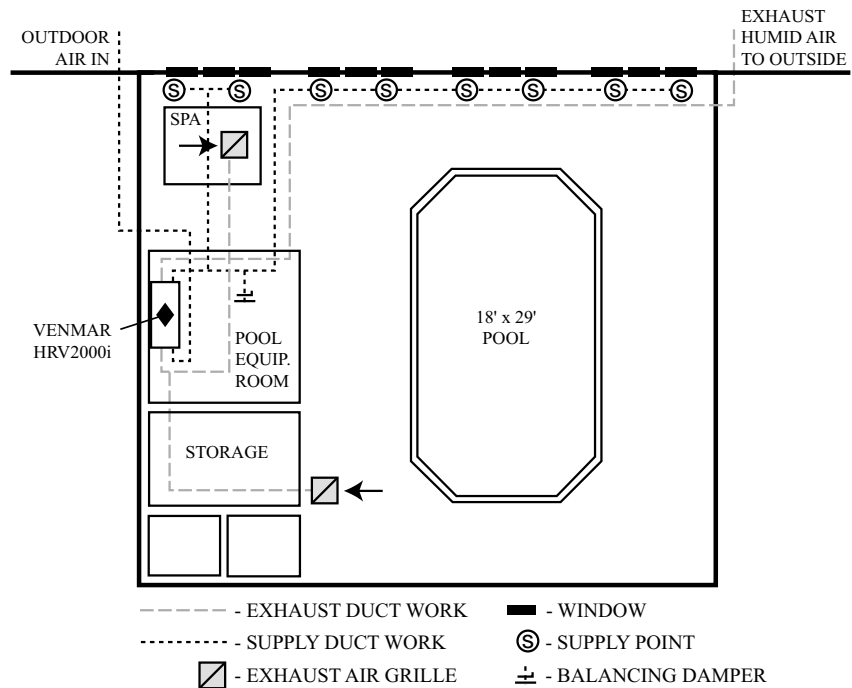
Master Mechanical was contracted to install the ventilation unit in a mechanical room adjacent to the pool area. A duct heater was installed in the ductwork, after the Venmar HRV2000i to heat the supply air during particularly cold weather. This additional heat aided in maintaining a comfortable indoor temperature of 78°F which also prevented fog from occurring in the pool area. A Venmar AquaAir wall control was mounted in the pool room, providing easy access for staff members when ventilation adjustments were required.

The Results

In February, 1998 Country Inn & Suites proudly opened their new hotel in Inver Grove Heights, MN. The Venmar HRV2000i:

- provided the required ventilation to meet Health Department specifications
- generated annual operating savings of \$795
- reduced the heating load by 93,000 BTU
- has an estimated payback of under 3 years

Another simple, cost-effective solution provided by Venmar.



Project Details	
Reference Standard	ASHRAE 62-89
Design Airflow	2000 cfm
Venmar Model	HRV2000i
Installing Contractor: Master Mechanical	<i>Location:</i> Egan, MN <i>Phone:</i> (651) 905-1600 <i>Fax:</i> (651) 905-1601
Engineer: Steen Engineering	<i>Location:</i> Robbinsdale, MN <i>Phone:</i> (612) 529-9664 <i>Fax:</i> (612) 529-9681
Manufacturer's Representative: Dietz Engler of Shelter Supply	<i>Location:</i> Lakeville, MN <i>Phone:</i> (612) 898-4500 <i>Fax:</i> (612) 898-4555

For more information, contact:

Venmar CES Inc.
2525 WENTZ AVE
SASKATOON SK S7K 2K9
CANADA

Phone (306) 242-3663
Toll Free 1-800-667-3717
Fax (306) 242-3484

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