

Ventilation For Casino Made Big Easy!



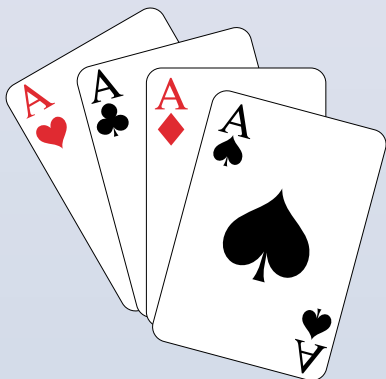
Outside shot of the Big Easy Casino

We are extremely impressed with the improvement of the air quality in our casino since the installation of the two Venmar ventilation units. We mention the state-of-the-art system that gives us the cleanest air in town in our radio and print advertising. Our customers enjoy the clean, comfortable environment and therefore stay longer.

Donald G. Johnson
Big Easy Casino Owner

Introduction

The Big Easy Casino is located in Lafayette, LA. The building is 3,420 square feet and is occupied by an average of 50 patrons. A decline in business due to the large amount of cigarette smoke prompted the owner to take action.



Situation

The staff at the Big Easy Casino noticed a decline in the length of time regular customers stayed. After investigating, the staff found their declining numbers were due to the amount of cigarette smoke in the casino. In the first attempt to solve the air quality issue, smoke eaters were purchased and put into action to try to control the cigarette smoke problem. The staff of the Big Easy Casino found that the smoke eaters did little, if anything, to help eliminate the smoke problem.

In addition to needing a solution to improve the indoor air quality of the casino, Donald G. Johnson, owner of the Big Easy Casino, was required to meet the ventilation standards of 30 cfm per person according to the ASHRAE 62-99 guidelines. He also

wanted to maintain the relative humidity of the building between 40 and 60%. Since Lafayette is located in a very hot and humid climate, the owner was looking for a product that would bring significant amounts of outside air into the building without increasing the mechanical cooling and heating costs.

Mr. Johnson hired **M&E Consulting Engineers** and **Butcher Air Conditioning** in Lafayette to find one product that would solve all of these problems. Two Venmar ERV2000i units were specified with the help of **Premier Sales Inc.**, the Venmar representative in their area.

Design Solution

The two Venmar ERV2000i units were used to deliver 1,200 cfm per unit for a total design airflow of 2,400 cfm. This airflow meets and exceeds the 30 cfm per person required for casinos by ASHRAE standards.

The ERV2000i units contain an enthalpy wheel, one of the most efficient energy recovery technologies available in the HVAC industry. This type of technology preconditions the air to help maintain the relative humidity levels and temperatures within comfortable ranges for indoor occupants.

The enthalpy wheel is very cost-effective when used to ventilate in hot and humid climates. The wheel removes humidity from the outside air and cools the air using the energy from the exhaust airstream before it is brought into the building, thereby reducing the mechanical heating and cooling loads that would normally be required to handle the high outdoor ventilation air load.

Another benefit to specifying Venmar equipment for this particular job is that the ERV2000i has a small footprint and did not take up much space in the mechanical room. The two units were stacked one on top of the other which saved additional floor space.

The Results

The owner, staff and occupants are very pleased with the improvements that the Venmar units have made to the indoor air quality. Mr. Johnson is so impressed with the improvement that he advertises the "state-of-the-art clean air system" in his print and radio advertisements. Donald and his staff have seen significant improvements in the number of customers visiting the casino as well as an increase in the time they stay in the casino.



ERV2000i Installation

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