

## Cypress Bayou Casino

### When The Stakes Are High, Trion Makes Clean Air A Sure Bet.

#### Cleaning The Air In A Full House

With thousands of people coming through the Cypress Bayou Casino everyday, you can bet there's a lot of cigarette smoking going on. For this Class 3, "Vegas-style" casino, the challenge was finding the best way to filter the smoke to create an environment comfortable enough for even the most objectionable non-smokers. The trick was to do so without putting a strain on the air conditioning system by bringing in outside air.

Cypress Bayou Casino decided not to gamble on air cleaners of lesser quality and chose Trion's newest Air Boss electronic air cleaner, the Model 73, to make a clean sweep of the cigarette smoke in their casino.

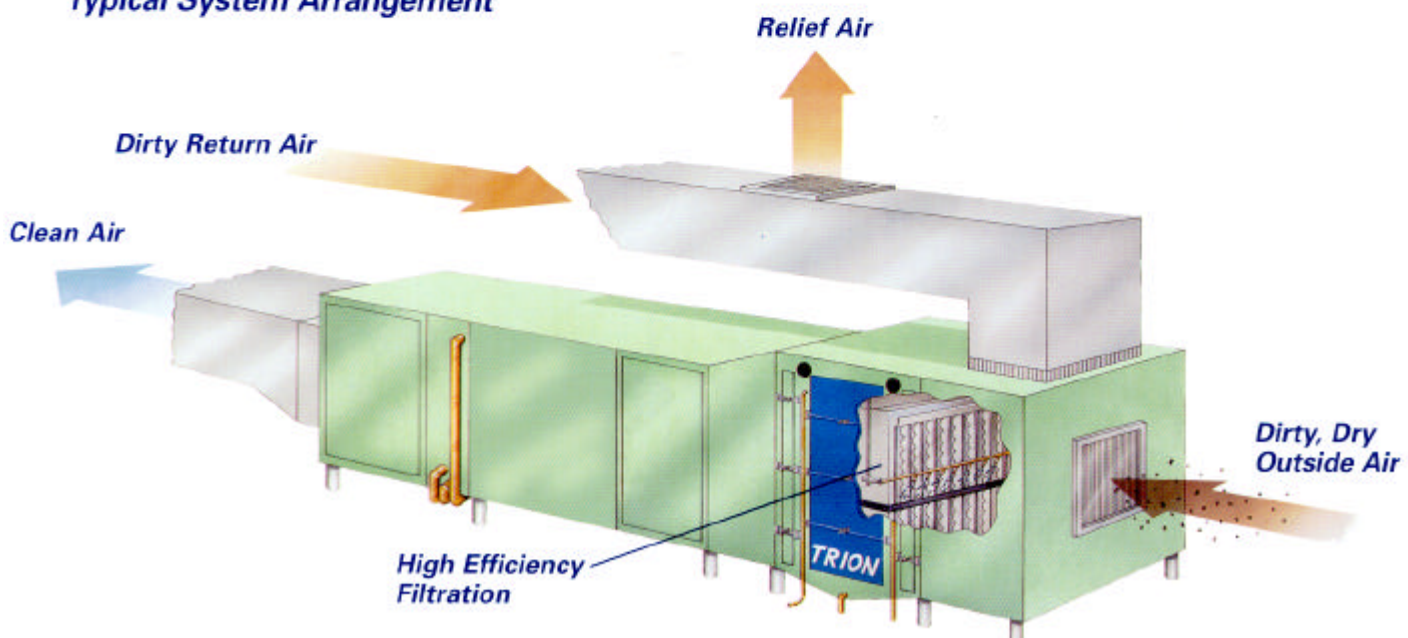
#### Trion Model 75 Creates A Winning Situation

*"The Trion units are fantastic. You can see a visible difference. We're able to recycle air and maintain exceptional air quality."*

— Michael Berard  
Chief Engineer  
Cypress Bayou

For the 220,000 sq. ft. casino, the goal was to have visitors open the front door and enjoy air so clean they would never suspect smoking was allowed. Since Trion's Model 73 is capable of providing a higher level of clean air, with capacities of up to 30,000 cubic feet per minute, it was a sure bet to keep the air crystal clear. The unit ties into the return ducts of the casino's air conditioning system to filter and recycle the indoor air. And, due to the Model 73's high rate of efficiency, the casino is now able to save over 100 tons of cooling due to reduced outside air demands. "The Trion units are fantastic. You can see a visible difference. We're able to recycle air and maintain exceptional air quality," said Michael Berard, chief engineer of the casino.

#### Typical System Arrangement



Technical data on back page

**TRION**



## Trion Offers A Big Pay Off

The casino enjoys a big cost savings by using the Trion units as well. The casino's state-of-the-art air quality control system uses air quality sensors which automatically open and close to bring in outside air as needed. Working within this system, the Model 73 efficiently filters the indoor air to reduce the amount of outside air introduced. The system was originally designed for 100% air dilution; now, with the help of the Trion units, it uses a maximum of 20% outside air, which is also filtered by the air cleaner. This greatly reduces energy consumption of the cooling environment. "We don't have to use our air conditioner as much. This helps us save on our energy bill. We're able to save 1/3 the electricity of other casinos of this size," said Berard. "The payback for these units has been much greater than we expected."

## Cypress Bayou Casino

### TECHNICAL DATA

AIR HANDLER	MODEL	CFM	TONS	POWER	EFFICIENCY
System-1	73-310	30,000	75.0	6 Amps	90%
System-2	73-208	16,000	40.0	2 Amps	90%
System-3	73-208	16,000	40.0	2 Amps	90%
System-4	73-307	21,000	52.5	4 Amps	90%
System-5	73-307	21,000	52.5	4 Amps	90%
System-6	73-307	21,000	52.5	4 Amps	90%
System-7	73-307	21,000	52.5	4 Amps	90%
System-8	73-307	21,000	52.5	4 Amps	90%
System-9	73-307	21,000	52.5	4 Amps	90%
System-10	73-307	21,000	52.5	4 Amps	90%
System-11	73-307	21,000	52.5	4 Amps	90%
System-12	73-208	7,530	18.8	2 Amps	98%
System-13	73-310	20,000	50.0	6 Amps	97%
System-14	73-310	20,000	50.0	6 Amps	97%
System-15	73-310	20,000	50.0	6 Amps	97%
System-16	73-310	30,000	75.0	6 Amps	90%
System-17	73-310	17,500	43.7	6 Amps	98%

#### NOTES:

- 1) The efficiencies were based on common areas with the 90% range and the 95% and higher applications in special event areas and meeting rooms with a higher smoke content.
- 2) The power consumption takes into consideration either the normal ESP collection cycle or the wash cycle with detergent pumps and spray manifold motors.
- 3) The tonnage is based on a constant 400 cfm/ton of refrigeration with 20% or less outside makeup air.

## Cypress Bayou Casino Cleans Up

But visibly cleaner air is not the only benefit of using the Model 73. By capturing smoke, tar and nicotine, the casino's drapes and furnishings don't have the offensive smells or discoloration caused by excessive exposure to cigarette smoke. This helps maintain their beauty and function much longer as well as enhancing the casino's environment for its patrons.

## Electronic Air Cleaning Wins Hands Down

The Model 73 meets the most demanding commercial air quality needs, such as those at the Cypress Bayou Casino. Its solid-weld construction and advanced design make it the air cleaner of choice for cleaning heavy-duty commercial and industrial environments. The perfect solution for anywhere smoke is a problem, the Model 73 meets and exceeds a 90 percent ASHRAE Standard dust spot efficiency test. And, equipped with an automatic cleaning cycle, it requires very little maintenance. "We used to have to pull the collector cells out three times a week," said Berard. "With the automatic wash cycle, pre and post-filters are washed weekly within the unit automatically. These units are virtually maintenance free."

Through its dedicated representative network, Trion maintains a partnering relationship with Cypress Bayou Casino and other forward thinking facilities to assure continuing quality in the air cleaning process.

**1-800-828-9771, ext. 800**

This application study was made possible with the assistance of Premier Sales in Lafayette, Louisiana.

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