

# EL CORTEZ HOTEL & CASINO LAS VEGAS, NEVADA

## KEY PARAMETERS

- Type of Facility – Existing (EB)
- Function – Hospitality/Casino
- Area – 45,300sf gaming area
- Project Completed – 2008

**Challenge:** Tobacco smoke and residual tobacco smoke odors. A \$20 million renovation that included 300 remodeled hotel rooms, also included a redesign of the casino's HVAC system to address cigar and cigarette smoke. There was a keen interest in indoor air quality from the beginning of the project. Senior management at the El Cortez had seen advertisements that showed tobacco smoke being removed with electronic air cleaners and expressed interest in similar systems. That's when Las Vegas Trane sales engineer Bradd Robison contacted Dynamic Air Quality Solutions.



**Solution:** Dynamic V-Bank air cleaners and Dynamic 2" tandem air cleaners were installed in 15 Trane AHUs. "Many of the air handler access points were difficult to reach," according to Robison. "Some of the equipment had to be brought in through the tops of closets and through hatches from the roof, so it was important that everything could fit through the small openings."

For the tight spaces, Dynamic recommended tandem air cleaners that could easily fit through the openings and easily wire together

in a daisy-chain fashion inside the AHU filter tracks. Another upside has been the ease with which filter media can be replaced. Dynamic filter media, a fraction of the size and weight of bag or cartridge filters, are much easier to store and handle than conventional filters.



**Results:** The smoke and the smoke haze disappeared. The El Cortez was pleased with the results. According to El Cortez facilities manager Bill Funderburk, the casino received a lot of favorable comments about the improved air quality when the project was completed. "One in particular that was very impressed was the city building inspector," said Bill. "He couldn't believe the difference."

## TEAM

- Owner – Jackie Gaughan
- Facility Manager – Bill Funderburk

## MECHANICAL SYSTEMS

- HVAC – Trane

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