



CASE STUDY | HVAC

Restoration Innovation

The Sinclair Hotel, art deco icon, undergoes an extraordinary restoration, integrating innovative technology while maintaining its legendary history.

CATEGORY:

- » HVAC
- » Hospitality

COMPANY:

LG Electronics U.S.A., Inc.

PROJECT:

The Sinclair Project

LOCATION:

Fort Worth, Texas

PRODUCT SPECS:

- » LG Multi V IV Heat Recovery Unit
- » LG Art Cool Mirror
- » LG Ceiling Cassettes
- » LG AC Smart Controller

www.lghvac.com

CHALLENGE:

Built during the early 20th century Texas oil boom, the Sinclair Building is one of the most recognizable icons of Fort Worth, Texas. The hotel's owner and management sought state-of-the-art technology to operate and sustain the property, while maintaining the building's unique architectural details. Retaining the integrity of its original design and intricate accents was paramount, with the desire to pay homage to a storied past while keeping an eye to the future.

With guest comfort of the utmost importance, the team looked for an HVAC system to address complex needs. First, an inefficient A/C system was taking up real estate on the lower level and needed to be replaced. Additionally, the floor-to-ceiling heights were low, and the team sought to maintain as much height as possible. Lastly, exterior space was at a premium, with limited room for condensing units, thereby emphasizing the need to size and place the HVAC system accordingly.

INFLUENCE:

"I work with some of the most innovative and forward-thinking partners around the globe when developing my properties and creating an unforgettable experience for my guests is of the utmost importance," said Farukh Aslam, chief executive officer, Sinclair Holdings.

To that end, it was paramount that the Sinclair renovation include the right mix of advanced technologies to deliver on this exceptional and connected guest experience.

Additionally, the hotel required individual control of its HVAC system throughout 164 guestrooms (featuring 50 different room types) and sufficient heating and cooling for the lobby bar, reception area and large basement restaurant.

To achieve the gold standard of technological and energy efficiency desired, the hotel sought out a partner that was not only able to fulfill a myriad of HVAC needs, but also create a full building ecosystem with its range of innovative technologies across LG's expansive portfolio.

SOLUTION:

For the HVAC system, the award-winning LG Multi V IV Heat Recovery Unit was selected for its ability to provide individual room comfort for each space within the larger property. Offering a compact footprint without sacrificing power, the Multi V contributes to building energy efficiency, high performance and flexibility in design and installation options.

Selections ultimately included wall-mounted units and LG Ceiling Cassettes that did not require bulky ductwork, and offered low-noise inverter operation to support the tranquil environment required of guest rooms.

Additionally, LG's AC Smart controller allowed for seamless control of the HVAC system for the building management team. Property managers could now easily manage, set and monitor the building's heating and cooling performance.

The hotel was also able to gain a significant amount of usable floor space for the large lower-level restaurant. On the exterior of the Sinclair, LG outdoor units with slim, minimal features were installed to further increase saved space. LG has designed industry leading VRF technology to minimize efficiency losses, provide energy savings and offer lower life cycle costs.