



Nailor[®]

CASE STUDY

Hilton Americas Houston Convention Center

Nailor Products:

- **Vertical Hi-Rise Fan Coil Units**

Location: **Houston, TX**

Year: **2003**

Buildings/Size/Area:

24 stories / 1,235,146 sq. ft.

Category: **Hotel, High-Rise Building**

Development Manager: **Hines**

Architect: **Arquitectonica/Gensler**

Nailor Representative: **Vicon Equipment, Inc.**

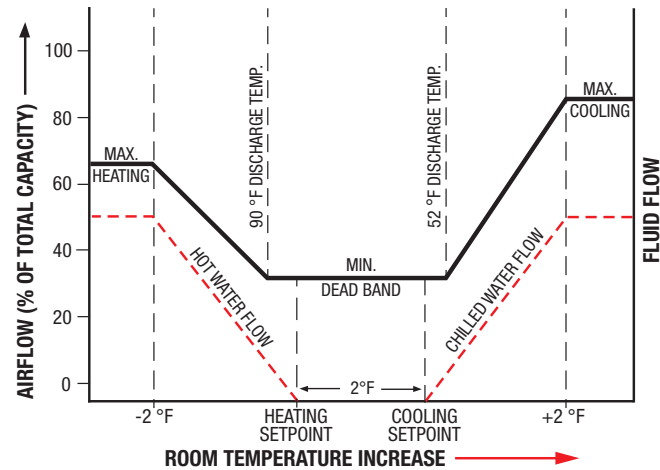
In late 2000, Hines was selected to lead the expansion of Houston's George R. Brown Convention Center, a transformative project aimed at strengthening the city's position as a premier destination for large-scale conventions and events. The 1.2 million square foot expansion significantly increased the convention center's footprint and included the development of a new 24-story, 1,200-room hotel that would later become the Hilton Americas. Designed to integrate seamlessly with the existing downtown environment, the project required

close coordination across multiple disciplines and an accelerated construction schedule. Despite its scale and complexity, the entire development was completed in just 27 months and delivered under budget. The project received numerous industry awards recognizing both the overall development and its architectural achievement, and it remains a defining element of Houston's convention and hospitality infrastructure.

**VERTICAL HI-RISE
FAN COIL UNIT**
Model: 39VH



Control Sequence



Hines challenged the industry to develop the most advanced fan coil unit for use in the 1,200-room hotel, and Nailor answered the call. Leveraging its expertise in fan powered VAV technology, Nailor engineered a fan coil unit capable of being controlled like a VAV system. The result was the 39V Vertical Stack Fan Coil Unit featuring EPIC motor technology and modulating valves. This first-of-its-kind system provides pressure-independent airflow control paired with modulated chilled and hot water valves, delivering superior room comfort while maximizing energy

efficiency by responding only to instantaneous loads. At the Hilton Americas, the 39V units operate using an advanced control sequence that continuously selects the most efficient combination of air and water flow to meet room demand. The outcome is an exceptionally efficient, quiet, and comfortable fan coil system—so quiet, in fact, that guests continue to highlight the peaceful room environment nearly 20 years later. This project exemplifies Nailor's commitment to going above and beyond to deliver innovative, high-performance solutions for its customers.





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CSHAH 10-09-2020

