



FITNESS CENTER: EMORY SAINT JOSEPH'S HOSPITAL



A VRF system that is aesthetically unobtrusive and configurable for multiple zones for the fitness center at Emory St. Joseph's Hospital.

Emory Saint Joseph's Hospital transformed the entire first floor of its medical center into an advanced fitness center. The Hitachi VRF System was the perfect HVAC solution for this space since it provides heating and cooling that is energy efficient, reliable, and quiet. In addition, the Hitachi VRF System allows for minimal disruption to the clean architectural look of the building.

Solution & Application



VRF



FITNESS CENTER

- **Adaptable**
Configure our heat recovery systems in multiple ways and design systems up to 36 tones
- **Efficient**
Get the precise capacity you need with the fewest possible modules
- **Reliable**
Relax with energy efficient systems that are easy to maintain

Stakeholder requirements

- **Adaptable VRF Solution** — Provide an HVAC solution that is energy efficient and configurable for the temperature requirements of six different zones.
- **Quiet and Reliable** — Provide a quiet, reliable HVAC solution that allows for minimal disturbances to patients and medical staff.
- **Maintain Visual Aesthetics** — Minimal obstruction to the clean architectural look of the building.

Solution

The Hitachi's VRF system offered the best solution to meet our stakeholder's requirements.

- The operating range makes VRF systems a suitable choice for nearly every climate
- Connection ratios up to 150% and vertical piping lift up to 360 feet provide ultimate design flexibility
- Capacities from 6 to 36 tons meet diverse application requirements
- Dual inverter-driven compressors increase efficiency (in 8, 10, 12, 14 and 16 ton models)
- Compact design makes installation easy and provides design flexibility
- Advanced inverter compressors modulate refrigerant flow, offering precise solutions for maximum comfort
- Systems feature higher capacities at low and high ambient temperatures
- Smooth drive control improves comfort and efficiency
- Operation is whisper-quiet with sound ratings as low as 51 dBA

Project summary

Emory Saint Joseph's Hospital in Atlanta built a state-of-the-art fitness center in one of its medical centers. The fitness center occupies the entire first floor and is divided into six zones for distinct activities.

The fitness center provides patients with a well-equipped, comfortable facility where dedicated healthcare professionals can assist them while they undergo physical therapy or take part in exercise programs tailored to their needs.

The fitness center was in need of an HVAC solution that was energy efficient, reliable, and quiet. Routine breakdowns and excessive noise cause excessive disruption to the schedules of both patients and medical staff.

This emphasis on the comfort of patients and medical staff extended to the clean architectural look of the building. With no duct work to contend with, the Hitachi VRF System was installed with a minimal amount of visible refrigerant piping. As a result, the visual integrity of the building is preserved.

With capacities from 6 to 36 tons, Hitachi VRF Systems are able to meet the diverse application requirements of the fitness center. They can be configured for the specific temperature requirements of multiple zones within a space.

Outcomes

The Hitachi's VRF System addressed all stakeholder's requirements.

- ✓ Full satisfaction of stakeholders
- ✓ An HVAC system that provides energy efficiency, reliability, and comfort
- ✓ A whisper-quiet VRF system with low sound ratings
- ✓ Minimal disruption to the building's aesthetic

GENERAL INFORMATION

Customer

Emory Saint Joseph's Hospital, Atlanta

Location

Emory St. Joseph Hospital – 5667
Dunwoody-Peachtree Road, Atlanta, GA
30342, USA

Project

Retrofitting medical center to fitness center on the first floor of the building

Date of installation

30th April 2018

SYSTEM DESCRIPTION

Outdoor Units

12 Tons Hitachi VRF Heat Recovery Systems

- 1 Unit at 12-Ton (HVAHR_B42S)



Indoor Units

2.25 Tons Hitachi VRF Ducted Medium Static Indoor Units

- 1 Unit at 1-Ton and 1 Unit at 1.25-Ton (HIDM_B22S)



12 Tons Hitachi VRF 4-Way Cassette

- 1 unit at 2-Ton
- 2 units at 3-Ton
- 1 unit at 4-Ton (HIC4_B21S)



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