



WYNDHAM GARDEN CALGARY AIRPORT HOTEL

Case Study CITYMULTI



Case Study: Wyndham Garden Airport Hotel

Renovation and construction projects ideally result in more beautiful, livable spaces that are designed to meet the needs and wants of the end-users. But often a facelift or new build can come with its own set of unique challenges that must be effectively dealt with to create the best possible outcome for you and your client.

This case study is an example of one such scenario, and shows the value of doing research and talking with other experts to find the best product and solution that fulfills everyone's requirements.

“This hotel was a challenge because it was located under a flight path for the Calgary International airport,” explains Johnny Ho, Technical Sales Representative at Klass Mechanical, who recommended the air conditioning units that were eventually chosen. “The challenges included the height of the building, sound and energy efficiency.”



“The indoor-type unit doesn’t have anything that goes through outside, so it makes the room really quiet, which is best for the hotel’s situation.”

**— Terry Tsan, Certified
Engineering Technologist**

The Challenge

Featuring breathtaking views of the Rocky Mountains and the Calgary city landscape, the Wyndham Garden Calgary Airport is a new full-service addition to the city's tourism and hospitality industry.

The property is ideally located only three kilometers from the Calgary International Airport, which is very convenient for travellers arriving by plane. But this terrific location in the airport flight path also brought an unexpected design and engineering challenge during construction—airplane noise reduction.

Nick Karas, the owner of this hotel and other properties in southern Alberta, wanted to minimize noise disruptions for his guests looking for a peaceful stay and a good night's rest. He wanted to ensure the convenient location didn't create noise issues that resulted in guest complaints and negative online reviews.

One of the main concerns was the air conditioning and heating units for the rooms. Traditional Packaged Terminal Air Conditioners (PTACs) are window units that are placed in the wall and have a direct vent outside. This style could bring in outdoor noise from planes passing by.

The Solution

Fortunately, the Certified Engineering Technologist working on the project had a unit in mind. Terry Tsan recommended the Mitsubishi Electric Wall-Mount indoor units that don't have any vents or other components that extend outdoors. Instead of a vent facing outside, piping connects the units to exterior rooftop units to provide cooling. As a bonus, the units are very quiet when running and offer longer-term operational cost-savings.

"This solution provided the most energy-efficient technology compared to other traditional hotel concepts, like PTACs," says Johnny Ho. "Traditional PTAC's are noisier, but they also require an opening in each suite that could transfer additional airplane noise."

The Results

Since installing the Wall-Mount indoor units from Mitsubishi Electric three years ago, Karas is pleased to report that there have been no noise complaints from the guests.

He views this engineering, design and construction decision as an investment made in the overall guest experience and ultimate satisfaction with their stay.

Summary

Company:

Wyndham Garden Calgary Airport Hotel

Industry:

Hospitality

Size:

40,000 sq. ft.

Challenges:

Minimize guest room noise from passing planes, due to hotel's location in flight path of Calgary International Airport.

Selection Criteria:

In-room heating and air conditioning units cannot have exterior vents, as this would allow outside noise to enter the room. The units must also have a low decibel rating for a low noise level when operating.

Design/Engineering Solution:

Mitsubishi Electric models:

- 156 X PKFY-P12NHMU-E2 (Indoor Unit)
- 16 X PURY-P96TKMUA (Outdoor Unit)

Results:

- Products could be implemented without any external openings in suites that would cause noise issues
- After three years, hotel reports no noise complaints from guests
- Operational cost-savings
- Overall client satisfaction and improved guest experience



Mitsubishi Electric Canada

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Vision:

To be the most trusted industry leader in providing innovative heating, cooling and ventilation technology, engineered specifically for Canadian climates.

Mission:

To deliver quality, comfort and value to all Canadians through leading-edge engineering, locally inspired design and a dedication to superior service.



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