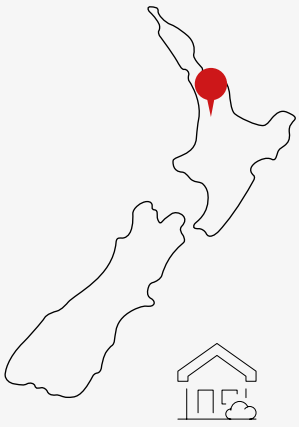
OmniCORE | MITSUBISHI ELECTRIC

Project Showcase:

Energy Efficient Heating for a Modern Apartment Complex

HAMILTON



RESIDENTIAL

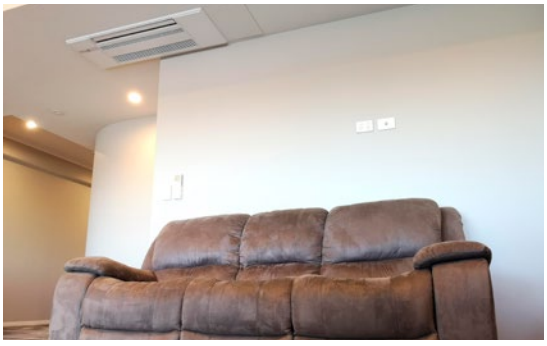
This new build apartment complex located in Hamilton required a year-round, efficient comfort solution. Comprising of nine units in total and split over three levels, meant there was a lack of available outdoor space that needed to also be taken into consideration.

EQUIPMENT BREAKDOWN

- EF Designer Series High Wall Heat Pumps
- Ceiling Cassettes
- OmniCore Multi Room System

The Goal

With Hamilton experiencing cold winters as well as warm summers, the project specified the requirement for a reliable, energy-efficient heating and cooling system. In addition, individual room temperatures needed to be able to be independently controlled. To match the modern aesthetics of the apartment complex, it was essential for the indoor units to reflect a stylish and contemporary look and feel. Also, the living rooms required an unobtrusive solution that did not impact wall space.



The Challenge

A key challenge for high-density building projects in general is the accommodating of multiple outdoor units. With exterior space at a premium especially in terms of vertical construction, installing numerous single split systems for each apartment on each balcony was not a feasible option.

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The Mitsubishi Electric Solution

An OmniCore Multi Room Heat Pump System was the answer for this project. With limited space on each balcony, the chosen system for each apartment only required one outdoor unit whilst being able to connect several indoor units throughout each apartment.

An OmniCore Heat Pump System Connects Multiple Indoor Units to One Outdoor Unit

The apartment complex was made up of nine residences. In total, 41 indoor units and nine outdoor units were installed.

The Bedrooms

All 32 bedrooms were fitted out with an MSZ-EF25 Designer Series High Wall Heat Pump in Glossy White. It was specifically chosen because of its sleek, timeless and compact design.

The Living Areas

Seven of the apartments with extended living areas featured an MLZ-KP50 Ceiling Cassette in the living room. Unobtrusive and ceiling-mounted, they are the ideal solution where maximising wall space is valued. For the two smaller apartments, the MSZ-EF50 Designer Series High Wall Heat Pump in Glossy White was selected for the respective living areas.

The Outdoor Units

Six apartments utilised the MXZ-6E120VAD2 outdoor models with the remaining three apartments featuring an MXZ-5E100VAD2 outdoor model.

Individual Temperature Control Maximising Energy Efficiency

An OmniCore Multi Room System allows you to control each heat pump so you don't need to have all indoor units running at the same time. This means heat isn't being distributed in an unoccupied area, allowing greater energy savings. Individual temperature control also means you can adjust the temperature differently for each unit to reach perfect comfort for the room you are in.

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The Result

Every Mitsubishi Electric OmniCore Multi Room Heat Pump System selected for each apartment was able to achieve the overall requirement for a space-saving solution that provided reliable, energy-efficient heating and cooling to multiple rooms that could be individually temperature controlled to maximise energy savings.

Full Equipment Breakdown

Outdoor Units

6x MXZ-6E120VAD2 outdoor units
3x MXZ-5E100VAD2 outdoor units

Indoor Units

32x MSZ-EF25 Designer Series High Wall Heat Pumps
2x MSZ-EF50 Designer Series High Wall Heat Pumps
7x MLZ-KP50 Ceiling Cassettes

Contractor:

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