



# Aged Care Solutions



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aged care  
solutions





# Mitsubishi Electric Transport & Logistics Solutions

Together, we can build better.

The provision of comfortable, safe and sustainable environments for aged care residents is supported by a range of leading products, technologies and systems by Mitsubishi Electric.

We manufacture a suite of solutions that optimise facility performance, ensuring efficiency and cost control of operations for aged care providers and operators. Promoting safe, clean and comfortable living environments for aged care residents is enhanced with our air purifiers, zone controllers, and building management systems, while our energy saving supporting devices enable detailed energy consumption monitoring and promote efficiency improvements across facilities.

## Our Products & Solutions



### HYBRID VRF AIR CONDITIONING



#### Solution Overview

Mitsubishi Electric Hybrid VRF air conditioning and heating systems provide stable temperatures, reduce noise, and eliminate refrigerant in occupied spaces, making them the perfect solution for aged care environments.

In an industry-first development, our Hybrid VRF uses both water and refrigerant, made possible by our development of a Hybrid Branch Controller (HBC) which conducts heat exchange.

#### Benefits

The Hybrid VRF system reduces risk in aged care facilities by removing refrigerant from inhabited areas and decreasing the requirement for leak detection systems to be installed.

Comfort is enhanced for residents and staff with improved regulation of air temperature and mild off-coil temperatures, due to circulating water in the fan coil network.

Energy efficiency and associated savings are realised with two-pipe heat recovery capability, with heat exchange performed in the HBC.

#### Features

- » Reduced installation requirement as HBC houses pump, heat exchanger and major components, compared with 4-pipe chiller
- » Simultaneous heating and cooling for varied occupancy requirements across facility and mild off coil temperatures
- » Requires less refrigerant and lowers global warming potential (GWP) through R32 usage, compared with R410A



## AIR PURIFIER



### Solution Overview

Mitsubishi Electric air purifiers help to improve indoor air quality in aged care facilities by reducing common airborne allergens and pollutants.

Our air purifier is designed to efficiently clean large indoor areas quickly.

### Benefits

Improving the comfort of aged care environments for residents and staff, our air purifier removes fine particles, reducing potential exposure to common asthma and allergy triggers including dust, pollen, pet allergens and some gases.

Our innovative auto-cleaning and washable pre-filter, high-performance HEPA filter, platinum catalyst filter and activated carbon filter catch up to 99.97%\* of ultra-fine particles and harmful gases and use nanotechnology to absorb odorants and freshen living spaces.

### Features

- » 508 m<sup>3</sup>/h clean air delivery rate
- » Multi speed settings including turbo, quiet and silent modes
- » Multi directional airflow louvres with five angles, which stop where air is most contaminated
- » Auto-Cleaning Pre-Filter mechanism that rotates to collect dust into a compartment, keeping the filter cleaner for better performance
- » Three-step clean light monitor indicating levels of indoor air contamination

\* Tested in accordance with JIS B 9908:2011



## ENERGY SAVING SUPPORTING DEVICE



### Solution Overview

Our energy saving supporting devices can be used to monitor energy use in specific areas of an aged care facility and measure consumption of individual water, energy or gas assets and equipment.

This enables asset managers to identify outlying or excessive consumption which may indicate leaks, faults or other requirements, take action for preventative maintenance and to avoid equipment failure.

We offer a suite of devices, including energy data collection and measuring units, for monitoring and optimising energy usage in aged care facilities.

### Benefits

Granular data collection enables useful insights to be gained regarding energy use across the facility.

This process supports ongoing effective energy management targeted toward reducing consumption and carbon emissions, obtaining cost savings, and improving performance of facilities in line with occupant usage and requirements.

### Features

- » Energy, water, gas consumption, electric leakage, load current and temperature monitoring capability
- » Additional units can be added to expand systems in 'building block' style
- » Data visualisation for trend mapping with graphs and interactive visual elements



# BUILDING MANAGEMENT SYSTEM



## Solution Overview

Our Building Management Systems (BMS) enable detailed visibility of the performance of building services with automated and remote-control capability, facilitating optimised performance in real-time.

Leveraging existing leading technologies, including the Niagara Framework®, we ensure our BMS solutions are interoperable with other systems, easy-to-use and future proofed for upgrade, expansion and refurbishment works.

## Benefits

Our building management solutions support reduced energy consumption and costs by improving the use of heating, ventilation, air conditioning, lighting, and other building systems.

Improved comfort and safety with real-time monitoring and control ensure temperature, humidity, and indoor air quality levels are maintained at optimal levels for the comfort and safety of residents, staff and equipment.

## Features

- » Open-source platform, designed to integrate diverse building systems and devices into one seamless system
- » 24/7 control and monitoring, with onsite and remote access capability
- » Comprehensive, granular visibility of building performance via clear dashboard interfaces
- » Map and analyse trends, performance and energy consumption to proactively predict and respond to potential issues.





# About ME & Other Solutions

Mitsubishi Electric Australia is wholly owned by Mitsubishi Electric Corporation, Japan. A representative office of Mitsubishi Electric was opened in Australia in 1967.

MEAUST was established in 1974 as MELCO Australia Pty Ltd and became Mitsubishi Electric Australia in 1982.

We deliver solutions across Living Environments, Home Appliances, Transportation and Heavy Engineering, Automation and Controls, Automotive Equipment, Transmission and Distribution, Semiconductors and Communication Systems.

## Other Products/Solutions

-  » Lossnay  
» Dehumidifier
-  » UPS
-  » ICONICS
-  » Commercial Air Conditioning  
» Light Commercial Air Conditioning



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