



# Data Centre Solutions

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solutions





# Mitsubishi Electric Data Centre Solutions

**Together, we can build better.**

Mitsubishi Electric delivers totally integrated, secure, end-to-end products and solutions for climate control, and performance and energy optimisation for data centres.

Mitsubishi Electric manufacture a wide range of integrable electrical equipment and electronics, designed to meet the unique needs of data centre owners and operators. Our products and solutions are tailored to enable data centre owners and operators to maximise efficiency, reduce energy costs and optimise operations while reducing carbon footprint and achieving targeted sustainability objectives.

Our products and solutions facilitate improved decision-making and reduce the risk of unscheduled breakdowns and stoppages. High durability and long-term reliability of our equipment reduces lifecycle costs and streamlines maintenance activities.

## Our Products & Solutions



### ICONICS



#### Solution Overview

Mitsubishi Electric's innovative ICONICS software delivers a high-level supervisory system for data centres. GENESIS64™ monitors and controls equipment by gathering and centralising all relevant network data, empowering teams to make prudent and efficient decisions.

#### Benefits

ICONICS enables insightful forward planning, to realise operational efficiencies, cost and energy savings, and optimise preventative and predictive maintenance schedules to avoid unexpected equipment failures. An open and secure platform, ICONICS is interoperable with IoT, and all types of computer equipment and systems.

Mission-critical redundancy solutions are easy to install, configure, and deploy. Visualisation from any device means system status can be viewed and assessed on premises and remotely.

#### Features

- » Users can build scalable, XAML vector-based graphics or use preconfigured symbols with dynamic properties and flexible animations
- » Graphic design of processes using flowcharts streamlines decision-making and improves response times
- » Industry standard compatibility, such as OPC, MODBUS and BACNet, provides flexibility when building equipment networks



## IT COOLING SYSTEMS



### Solution Overview

CLIMAVENETA IT Cooling offers leading cooling technologies and solutions for IT applications, designed to support even the most challenging data centre and telecom projects.

### Benefits

Our IT Cooling products are available for Direct Expansion (DX), Chilled Water (CW) or Air to Air, and offer increasingly efficient, sustainable, and reliable cooling solutions.

These products incorporate smart integration of advanced technologies such as full inverter, free cooling, heat recovery management and adiabatic cooling systems.

Climaveneta IT Cooling ensures the widest use of available power capacity. In all installations where power feeds are at capacity or expanding, there is scope to significantly improve energy performance of the whole data centre.

### Features

- » Active Free Cooling is available both as direct and indirect free cooling (no glycol), to exploit the outdoor air to cool the data centre.
- » Smart Thermal Energy Management allows the smart use of rejection heat for comfort heating and other neighbouring applications.
- » Real active redundancy delivered through the combined adoption of innovative EC PUL fans, inverter DC brushless compression and a smart algorithm that balances heating load also among stand-by units.
- » V-AIR, our high efficiency EC technology fan can deliver up to 15% energy reduction compared with traditional EC fans.



## AIR CONDITIONING



### Solution Overview

Mitsubishi Electric's range of air conditioning systems is designed to deliver high-efficiency temperature control, ideal for commercial buildings that accompany small to medium enterprise data centres, or larger high density data centres with accompanying offices. Our expertise, experience and innovative product lines enable building operators to significantly improve energy performance, reduce operating costs, and comply with rigorous regulations.

### Benefits

Our products meet the challenge of delivering heating, cooling, ventilation and hot water with flexibility of design and control, while maximising energy efficiency. Our air conditioning solutions use sustainable energy resources to minimise power consumption and provide the highest levels of comfort available.

### Features

- » Direct expansion and hydronic solutions
- » Centralised and localised solutions
- » Low GWP Options
- » Heat recovery options
- » Hot water heat pump solutions (integrated and standalone)
- » Mechanical ventilation heat recovery
- » Enthalpy and sensible heat exchange solutions



## UPS



### Solution Overview

Adopting UPS is key to protecting IT equipment from power failures. Mitsubishi Electric has a proven track record of delivering high-quality UPS solutions to meet the most demanding uptime requirements. Our online double conversion UPS is always on and provides filtered clean power supply to critical IT equipment that is susceptible to power harmonics and voltage fluctuations.

### Benefits

Reliability is at heart of our UPS design, and system reliability is built on high quality parts and proven system topology design.

Our UPS products achieve high efficiency by reducing power loss arising during power conversion, using our proprietary Insulated Gate Bipolar Transistors (IGBT). These semiconductors achieve industry-leading levels of efficiency.

### Features

- » Optimised for typical load levels of 25% to 75%, the 9900D UPS delivers high efficiencies across all hyper-scale load levels via online double conversion technology, with efficiency more than 96% at 100% load
- » Only premium electrolytic capacitors and cooling fans are used, together with proprietary IGBT semiconductors, ensuring the highest product reliability
- » Transformer-less true online double conversion UPS uses three-level topology, offering optimal benefit and reliability

## 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



- » Building Management Solutions (BMS)
- » Programmable Controllers
- » INVERTER / Variable Frequency Drive (VFD)



- » Chillers
- » Computer Room Air Conditioning Unit
- » Fan Wall Unit



- » Low and Medium Switchgear
- » Energy Saving Supporting Devices



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