

Mitsubishi Electric Nagoya Works

When Mitsubishi Electric was looking to build a new production facility for its range of factory automation products at the company's Nagoya Works, located in Aichi Prefecture, Japan, the need for energy efficiency was paramount to match the company's ambitious carbon reduction targets.



The production facility plays a key role in meeting the growing global demand for reliable, high-quality factory automation products and like all modern buildings, it is constructed to the highest standards of air tightness and insulation.

The 26,000 square metres of floor space throughout the six storey building needs to be comfortable for staff and visitors alike, as well as incorporating the most advanced energy-efficient measures possible.

In addition to a 50kW photovoltaic system on the roof, low voltage LED lighting and comprehensive energy management systems, **the factory is also benefiting from the installation of 48 of the company's e-series chiller range - which brings a modern, low carbon update to traditional standard chiller technology.**

The controls for the high-efficiency chiller units at Nagoya Works have been easily integrated into the Building Energy Management Systems (BEMS) system so that they can operate smoothly alongside the Air Handling Units and VRF air conditioning, to maximise efficiency.

In addition to delivering 4.3MW of cooling and heating to the building, the modular approach of the e-series range reduced both space and weight on the rooftop and the in-built header pipes simplified the design and installation. The ability to position units as close as 900mm apart has also ensured easy access for maintenance.

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