

## **New Mitsubishi Electric FR-A800 series of drives provides maximum drive performance for plant and machinery**

**The new class leading drive from Mitsubishi Electric has been specially designed for use in high end applications where maximum output and performance, increased efficiency and reliability are guaranteed. At the same time our use of in-house technology advancements will enable the optimisation of plant efficiency and energy balance. The new series of drives are very user-friendly and offer numerous network connections. The FR-A800 series builds on and will eventually replace the already very successful FR-A700 series. It complies with international regulations and standards and is equipped with the very latest safety functionality.**

With the FR-A800 series of drives, Mitsubishi Electric introduces its very latest drive technology with an output range extending from 750 watts up to a maximum of 1 megawatt. They are able to drive both standard asynchronous motors and IPM/SPM motor technology, offering intelligent autotune functionality. A powerful built in PLC based on the Mitsubishi L Series ensures that the drive gives the user wide scope for application specific coding. This is fully password protected to protect valuable IP. A powerful built in positioning function further enhances flexibility.

USB host and USB device functions guarantee user-friendly programming and parameterisation as well as data logging capability, functionality rarely seen in such devices. It is also fully integrated into Mitsubishi Electric's iQ Works programming environment. The built-in operation panel and optional LCD display allows easy and intuitive operation.

Real sensorless and full vector control enables maximum speed and torque accuracy, while an overload capability of 250% during the start-up phase will ensure trouble free start-up, even for the most arduous of applications. Terminal scan times of less than three milliseconds will guarantee the fastest possible response. At the same time speed rise times of less than 80 milliseconds will help to ensure maximum performance and improved productivity.

Four overload options offer maximum flexibility, while three additional slots expand the range of possible applications. Functional safety up to PLe/SIL3 guarantees operation in situations ranging from simple emergency stops to complex press actuation. Full backwards compatibility with the FR-A700 series guarantees that components can be replaced easily and safely.

"Like all Mitsubishi Electric inverters, the FR-A800 series comes with numerous protective, safety and overload functions, high-quality temperature-resistant capacitors, continuously lubricated encapsulated cooling fans and double-coated control and circuit boards. Integrated maintenance timers indicate component fatigue. All these features increase the equipment availability by providing predictive and condition-based maintenance functionality", explains Matt Handley, UK Product Manager for drive systems.

At the Nagoya Works in Japan, around 5000 employees ensure the quality and reliability of Mitsubishi Electric inverters for the use in a wide range of industries. More than 4000 test and inspection procedures are carried out, enabling the company to secure maximum quality and reliability. More than 18,000,000 Mitsubishi Electric inverters have already been sold worldwide. Introduction of the FR-A800 series is planned for spring 2014.

**Photo captions:**

**Picture 1:** Mitsubishi Electric's new generation FR-A800 of inverter is specially designed for use in classic plant and machinery and with its maximum output and performance, increased efficiency and productivity are guaranteed.

**Picture 2:** With the FR-A800 series of drives, Mitsubishi Electric introduces its very latest drive technology with an output range extending from 750 watts up to a maximum of 1 megawatt.

**Picture 3:** Four overload options offer maximum flexibility, while full backwards compatibility with the FR-A700 series guarantees that components can be replaced easily and safely.

## **About Mitsubishi Electric**

With over 90 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, as well as in products for the energy sector, water and waste water, transportation and building equipment.

With around 124.000 employees the company recorded consolidated group sales of 39.3 billion US Dollar\* in the fiscal year ended March 31, 2014.

Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Mitsubishi Electric Europe, Industrial Automation – UK Branch is located in Hatfield, United Kingdom. It is a part of the European Factory Automation Business Group based in Ratingen, Germany which in turn is part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of Industrial Automation – UK Branch is to manage sales, service and support across its network of local branches and distributors throughout United Kingdom.

\*Exchange rate 103 Yen = 1 US Dollar, Stand 31.3.2014 (Source: Tokyo Foreign Exchange Market)

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