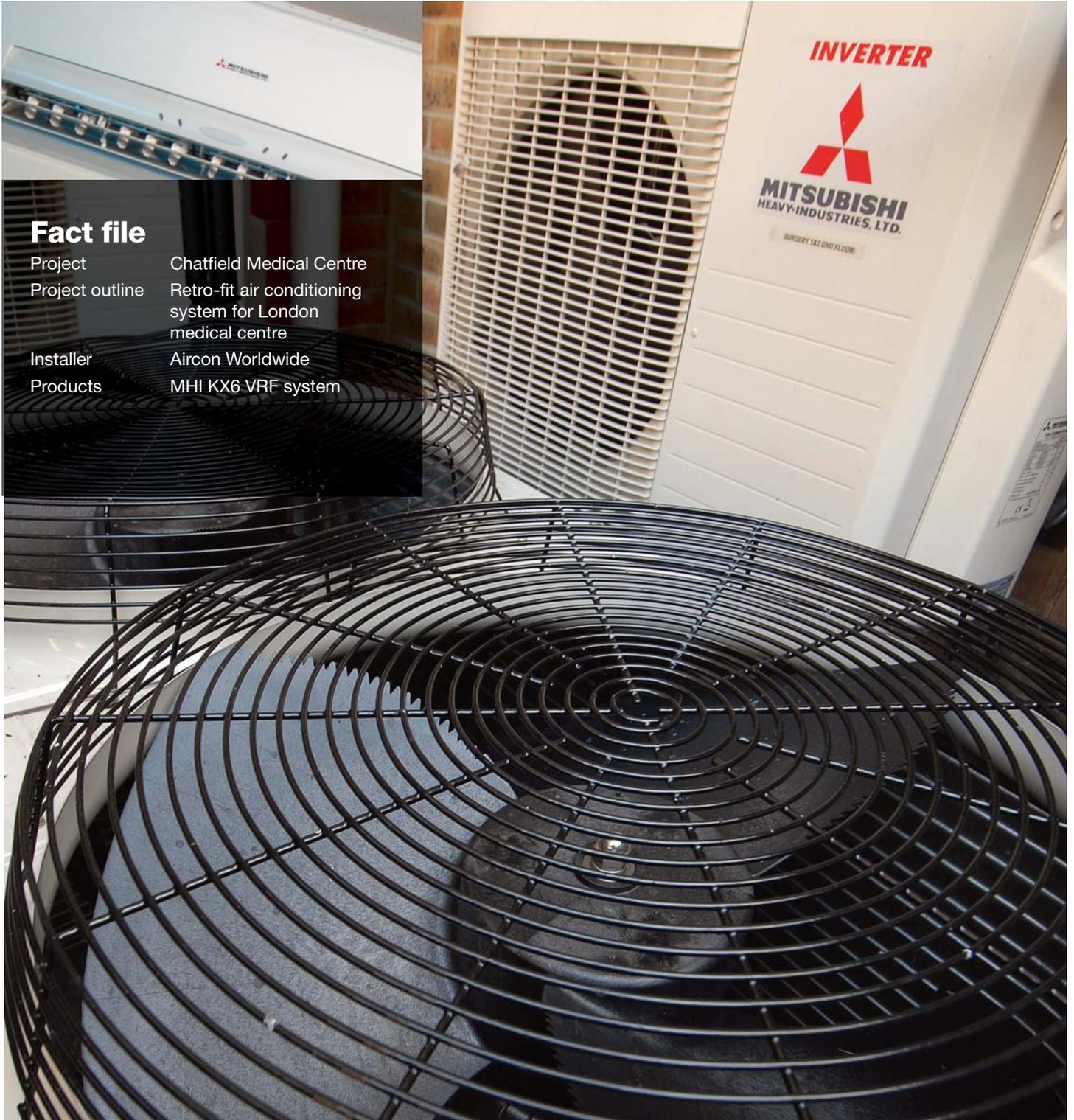


Case study: Healthcare

Compact air con system prescribed for busy medical centre

Fact file

Project	Chatfield Medical Centre
Project outline	Retro-fit air conditioning system for London medical centre
Installer	Aircon Worldwide
Products	MHI KX6 VRF system



Case study: Healthcare

Compact air con system prescribed for busy medical centre



When Chatfield Health Care, a busy inner London medical practice, found its purpose-built four-storey premises a bit 'feverish' in summer, it called for remedial measures in the form of high efficiency air conditioning systems from Mitsubishi Heavy Industries (MHI). With outdoor siting problems to solve in the retro-fit installation, solutions provider Aircon Worldwide designed, specified and installed 66.6kW of compact equipment from MHI's KX and split ranges.

Comfortable air temperatures all year round make a visit to the doctor easier for patients and create a better working environment for the medical and clerical teams. Aircon Worldwide's Sales Manager says the design of the building ruled out a single large system to serve the more than 20 individual rooms where air conditioning was required. "There was literally nowhere to put more than one VRF-type outdoor unit. The solution was to install five independent systems which would not spoil the appearance of the building," he says.

"There is a single 28kW FDCA280 KX4 heat pump, two 14kW FDC140 ecolution KX6 heat pumps, a 5.6kW SKM35X2 twin-split and a 5kW SRK50 single split. Indoors, there are two cassettes, and 22 wall-mounted units. Each system is controlled from a hard-wired panel. Overall, the systems are energy efficient, and the indoor units in particular are attractively designed."

MHI's ecolution KX6 compact range is designed to provide a cost-effective, energy-efficient VRF system for smaller installations – all the "big system" benefits of flexibility

and control for buildings of 2-8 rooms – for about the same price as a good splits installation. There are three models in the compact range 11.2kW, 14kW and 15.5kW cooling (12.5kW, 16kW and 16.3kW heating) which are available in both single phase and three phase versions.

“Overall, the systems are energy efficient, and the indoor units in particular are attractively designed”

The ecolution KX6 delivers significant savings in energy consumption with industry leading energy efficiency statistics: the 11.2kW (4hp) outdoor unit for example produces a Coefficient of Performance (CoP) of 4.33 in heating mode and 4.00 in cooling mode – for every 1kW of energy consumed it produces 4.33kW of heating or 4.00kW of cooling. This performance is achieved through increased efficiencies in the re-engineered heat exchanger and the unique new twin rotary compressor. In addition the all-new DC fan motor is 60% more efficient than previously.

