



Our client, a leader in the global colocation data centre market, required an overhaul of a chilled water system serving two buildings, internally and externally. The project entailed removal of existing plastic pipework with a new stainless steel system. New free cooling chilled water units and associated CHW plant were also installed to the external compounds to support the system. JCA integrated, tested and migrated the new critical CHW plant in a methodical, thorough and timely fashion prior to handing over to the client. In addition, the design and construction of a bespoke underground trench linked the chiller compounds to the data centres.

CHILLED WATER UPGRADE MANCHESTER

Free cooling chillers were installed to maximise the energy efficiency of the system. The use of free cooling in an industrial temperature control application differs from an environmental cooling solution as fresh ambient air cannot be drawn straight into the cooling circuit. This method of operation utilises the naturally low ambient temperatures and in doing so benefits from a reduction in energy costs. Inverter driven CHW pumps have been installed to reduce the energy consumption across both buildings.

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