

HVAC Solution for Data Centre

HVAC specialist, ICS Air Conditioning has completed an HVAC system replacement for a data centre; meeting specialist requirements with their sister company ICS Tricool Thermal.

HVAC Requirements

ICS Air Conditioning were contacted by a large London based contractor to specify and design an HVAC system to provide cooling to a data centre at one of the Capitals universities. The contractor needed a reliable service and a supplier capable of meeting tight restrictions, bespoke requirements and able to deliver on time and to budget.



A Reliable System

The brief for this HVAC system was focused on a cost saving energy conscious solution to cover the cooling requirement of a data centre, the system was to include a stand by unit as back up to the system.

Following a site survey and assessment of the external environment it was found that the end user would be able to benefit from free cooling capabilities which would result in a saving on running costs in the long term. Keen to avoid any unnecessary disruption to the site the free cooling system would need to be of a restricted footprint and therefore a specified bespoke build.

The end user had also requested a unit with two complete independent circuits. The benefit of this would reduce usage of the circuits as the duty is shared and also allows for the cooling of two processes.

ICS Expertise

Due to the systems restricted footprint and the required dual independent circuits, ICS Air Conditioning teamed up with their sister company **ICS Tricool Thermal** to specify and design an air cooled free cooling chiller system.

The system consisted of one bespoke built free cooling chiller with twin circuits extracting **202kW at 35°C ambient**. In addition to this ICS Tricool Thermal also custom built an air-cooled free cooling chiller capable of extracting the same duty, to be used as a standby unit for the data centre. Both of these units were built with the restricted footprint as required by the site.

Once fully tested and installed a fully qualified refrigeration engineer commissioned the units.

Nationwide Support

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