

Client: Norwich Union

Location: Norwich

Sector: Financial/Data Centre

Project value: £1,800,000

Project: DC3



Brief

Working closely with the HD rack manufacturer, JCA were appointed to deliver the design, coordination, installation and commissioning, inclusive of a full heat load test, of the largest high density deployment of its time in Europe.

Action

The cooling system was capable of rejecting up to 1.8MW of heat energy distributed across 96 racks, each rated with a maximum load of 24kW in any single rack position.

Designed around the water cooled rack principle and in an effort to maximise system resilience, only a single rack position in any one row was supported via heat exchanger pump units (HEPU's). These were located in an adjacent plantroom to provide precise control of water temperatures and act as hydraulic separation between the primary and secondary cooling systems.

A full integration package between the high density cooling system and building monitoring system was designed and deployed to provide seamless control of cooling plant via the central NOC.

Outcome

The project was carried out to the highest standards and completed on time and to budget. JCA now acts as the equipment manufacturer's data centre design and installation partner.

