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Specialist Refrigeration Services



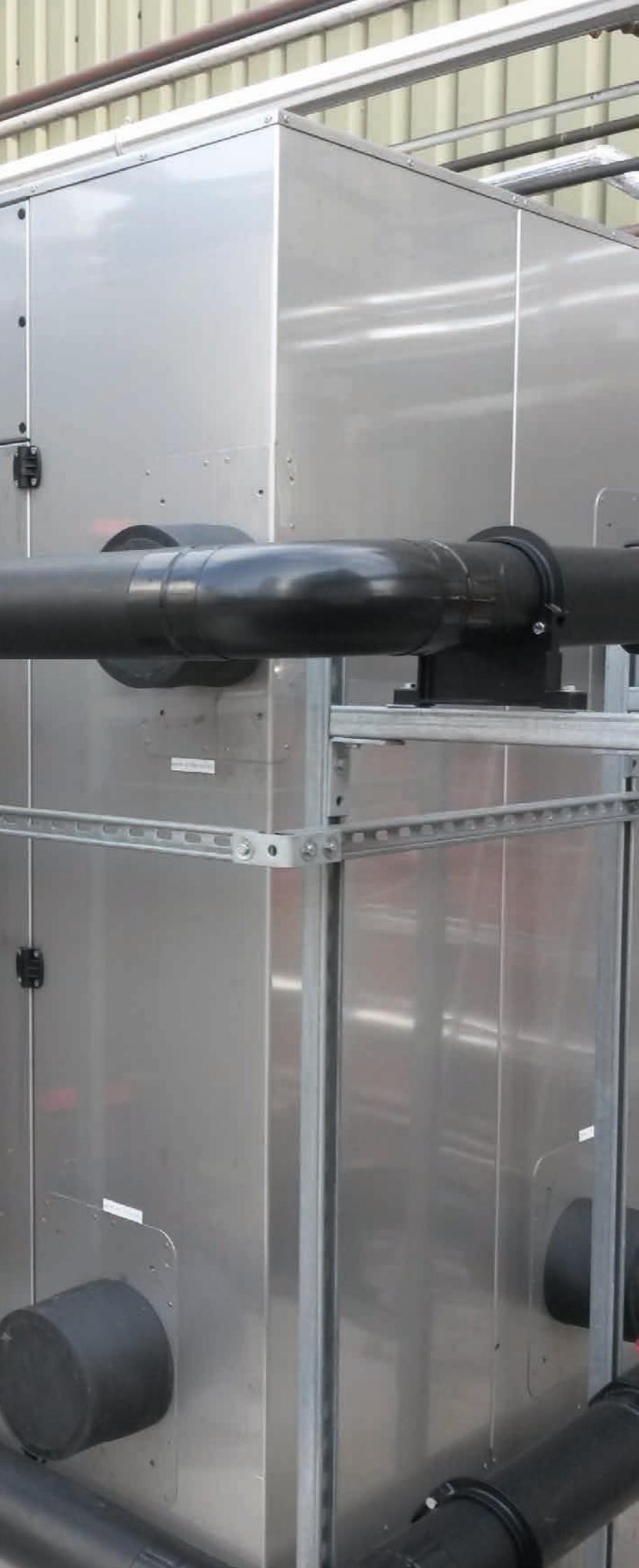
Adcock Refrigeration and Air Conditioning design, install, service and care for systems in commercial, industrial and individual residential premises right across the UK.

We work for some of the UK's leading construction, refurbishment and mechanical services companies in the UK and we have built an enviable portfolio of refrigeration projects which showcase our exceptional quality of work and attention to detail.

Our specialist refrigeration team is made up of some of the most highly regarded engineers in the UK who have designed and installed advanced, efficient technology systems.

Our achievements were recognised at the prestigious RAC Cooling Awards in 2014 when we were awarded **Contractor of the Year** for dedication to staying at the forefront of the industry.

For more detailed information on the projects outlined in this brochure and some of our other most recent projects, please visit our website.





Client: D&F McCarthy Ltd

Project: Supplied and install a bespoke Coolers & Condensers water immersed cooler

Nature of client business:

D & F McCarthy Ltd is East Anglia's leading wholesaler of fresh fruit and vegetables, boasting the expertise of over 135 years' experience in the market.

What the project entailed:

The customer wished to avoid the complication of a water plate heat exchanger and pump sets. Therefore we were able to design and supply an alternative bespoke water cooling coil to be installed inside the existing vegetable wash cooling tank.

It was also important that the water cooler materials were food safe and manufactured from 304 Stainless Steel so we designed a bespoke cooler that would meet all client requirements.

Equipment installed:

We supplied a bespoke Coolers & Condensers water immersed cooler, manufactured in 304 Stainless Steel complete with inter-connecting refrigeration pipework and controls.

This is all controlled and interfaced to the existing controls panel via a bespoke 304 Stainless Steel custom built control panel.



Client: Medical Research Council – Laboratory of Molecular Biology

Project: To design, supply & install cold rooms.

Nature of client business

The Laboratory of Molecular Biology is responsible for many pioneering techniques, such as methods for determining the three dimensional structures of proteins and other macromolecules, the sequencing of DNA and the development of monoclonal antibodies.

What the project entailed

Adcock were contracted to design & install multiple temperature controlled rooms for research purposes. The rooms were designed to operate with close temperature control to achieve +4deg°C & -20deg°C.

Each room was provided with two refrigeration systems with independent control systems to provide N+1 resiliency. A stand-alone Trend BMS system was provided for monitoring & recording functionality, with an interface to the site main BMS system.

Installation

Searle low noise coolers
Inverter controlled compressor
Danfoss Adap-Kool energy efficient control system

Oxygen depletion gas detection system
Trend BMS system with touch screen interface.





Client: Movianto UK Ltd

Project: Replace existing coldroom
with large capacity solution

The Movianto Group is a European contract logistics service provider to the pharmaceutical, biotechnology and healthcare industry. The Movianto Group has expanded rapidly over the last few years, offering outsourcing services along the supply chain such as warehousing, transportation and cold chain logistics to customers across Europe.

Scope of work job

Growth in business and lack of storage space in the existing coldroom had highlighted the need for a much larger coldroom.

What the project entailed

Due to the value of the product in the coldroom we had to design a high resilience solution to withstand any mechanical failure and maintain an even air distribution within the room. The room needed the facility within it to operate wire guided VNA fork lift trucks between the racking and to maximise the warehouse height.

To achieve this we had to build a 14 metre high room, supported by the main steels of the warehouse structure. Once this was achieved and commissioned it was agreed by the client to install a picking/ marshalling area in front of the coldroom, adjacent to the front of the warehouse wall/doors. This enabled them to achieve a complete cold chain from manufacture to refrigerated transport to refrigerated storage and back again to the end user (chemists).

The new coldroom measures 60m long by 13m wide by 14m high. Adcock installed 6 RC Scutt condensing units along with 12 Friga-bohn evaporators. Adcock oversaw the entire build encompassing such elements as all electrical installations including all new mains from the sub-main, lighting, racking and a comprehensive sprinkler system.

Equipment installed

6x RC Scutt 28kW condensing units for the coldroom.

1x unit in the marshalling area.

12x 14kw Friga-Bohn dual discharge evaporators in the coldroom.

2x in the marshalling area.

4x electrical control panels.





Client: RAF Lakenheath

Project: Design, supply, install and commission a new freezer room



Nature of client business

Our client is a food distribution warehouse for the base which is part of the Facility Support Services (FSS). The FSS squadron supports more than 15,000 customers from four groups, 21 squadrons, 14 tenant units and family members.

Scope of job

To manage, design, supply, install and commission a new freezer room in their food storage warehouse. We had to ensure that the down time was kept to a minimum to avoid any disruption and work cleanly and efficiently, managing the entire project from start to finish.

Installation

2 Searle KEC70-6L Evaporators
2 Danfoss Optyma, plus Mk1 LPHC136 NTP00E
3 Phase Condensing Units
Bespoke control panel with low and high temperature alarm
Personnel trapped alarm
Lighting and 400v mains power alterations, including testing.





Client: Norwich Medical Research University

Project: Design and install 2 close control cold rooms

Nature of client business

Based in Norwich, Norfolk, the Norwich Medical Research University is part of a new £19m building which is managed by the University of East Anglia. The new facility focuses on finding treatments for diseases affecting ageing populations.

Scope of job

Adcock were appointed by Eyre Building Services to manage, design and install 2 close control cold rooms that maintain a temperature of +4 +/- 0.5 degree differential and 1 close control heated cold room +37 +/- 0.5 degrees.

What the project entailed

Cold rooms are typically designed to operate at a 1-2 degree differential and in this case the cold rooms used thyristors to operate within a +/- 0.5 degree differential around the target set point. Each room has a bespoke control panel and include energy saving Searle EC evaporators. These are connected to Danfoss refrigeration condensing units and the lighting in all rooms are energy saving LED fixtures.



Installation

Searle KEC Evaporators

Danfoss OP-MPHM012SCP Condensing Units

Bespoke control panels with temperature and status monitoring

LED Lighting.



Client: Serco Ltd

Project: Install and commission three refrigeration systems and 17 evaporators



Nature of client business

Norfolk and Norwich University Hospital NHS Trust
Facilities Management

What the project entailed

As one of the UK's largest hospitals in terms of in-patient capacities with over 1000 beds, NNUH placed a large emphasis on both flexibility and the nature of the work. This required particular planning so that patient services were not affected by the works across an exceptionally busy catering department. A phased programme of installation and de-commissioning was therefore meticulously planned and implemented to avoid any disruption.

What Adcock brought to the job

From the initial pre-tender presentation which focused on concept of design, combining energy efficiency with redundancy in the event of plant failure, through

to planning and implementation, Adcock brought professionalism, a "can do" attitude and years of successful experience working in similar situations. Adcock also offered a high level of design knowledge, embracing new energy efficient technologies as well as the ability to co-ordinate skilled engineers to carry out the work. Adcock has also worked in conjunction with Serco Ltd since the NNUH first began operating in 2001 and has therefore developed an ongoing relationship having provided a wide range of both air conditioning and refrigeration systems over the years.

Installation

Adcock installed 4 New Bitzer Ecostar condensing units along with 17 New Searle evaporators and associated controls networked to the existing BMS system. A new bespoke modular freezer room system was also installed, to expand the department's existing frozen storage space.



REFRIGERATION
AIR CONDITIONING

At Adcock, we pride ourselves on delivering bespoke refrigeration systems using the latest technology to provide cost effective, energy efficient solutions that are also kind to the environment.

We offer an end-to-end solution from design, installation and commissioning, through to service and ongoing maintenance for projects of any size and scale. From large commercial cold rooms through to specialist controlled environment rooms used for medical research, our professional team of engineers provide a first-rate service to each and every project that we fulfil.

Our systems range from standard to complex with options for the latest inverter technology that offers cooling optimisation, adjusting to lower external ambient temperatures. Our advanced technologies allow energy levels to be reduced by a significant 30% compared to standard commercially available alternatives while also allowing for closer temperature control.

Our design and installation service is delivered by a first-class team of commissioning, service and maintenance engineers, providing full aftercare support, 24 hours a day, 7 days a week.

Call Adcock for:

- Design
- Installation
- Commissioning
- Service
- Maintenance

Regional Offices

Birmingham	0121 369 0188	King's Lynn	01553 692 277
Bromsgrove	01527 889 494	London	0207 099 7798
Cambridge	01223 812 330	Northampton	01604 748 700
Chatham	01634 673 870	Norwich	01603 453 300
Chelmsford	01245 398 780	Peterborough	01733 344 300
Derby	01332 916230	Reading	0118 934 8800
Guildford	01483 905120	CAD Office	01206 214 689
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