



BUILDING A NEW HOME FOR FRESH FOOD AT NEW COVENT GARDEN MARKET



J & E HALL HAS COMPLETED A "PROJECT TO SUPPLY, INSTALL AND COMMISSION 27 DX SYSTEMS USING LOW GWP REFRIGERANT R407F, AT NEW COVENT GARDEN MARKET

CASE STUDY SUMMARY

CLIENT:	VINCI CONSTRUCTION
LOCATION:	New Covent Garden Market
OBJECTIVES:	To design, install and commission multi temperature systems within a limited timescale
SUPPLIED:	Cooling equipment for 3 separate areas housing 22 multi temperature rooms with temperature control varying from +20 °C to -20°C depending on the product

"It was a tight schedule - All trades had to work together within a tight 13 week window"

Mark Prince - J & E Hall Project Manager

CUSTOMER BACKGROUND

New Covent Garden Market (NCGM) is home to 175 individual businesses employing 2500 people and is London's original and largest fresh fruit, vegetable and flower wholesale market. After four decades at their Nine Elms site, the redevelopment has begun of a completely new market at the current site.

In order to help with the phased build and move programme, building has started on interim distribution units to house distributor tenants.

As part of the phased programme, J & E Hall won the contract to supply the cooling requirements for the interim distribution units. It was a tight schedule with all work having to be complete ready for tenants to move in within a 13 week timescale.



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CASE STUDY



The interim distribution unit (IDU) comprises of three tenant cold room warehouse units, each with a freezer room and specialist cold rooms (e.g. dairy stores). Each room requires cooling to a defined temperature and needs to be chilled on a continuous 24-hour basis as selling takes place overnight. With the interim buildings now complete, the next phase will start on the new tenant buildings.

WHY J & E HALL?

J & E Hall obtained the order from Vinci Construction and was appointed to carry out the work because it offered a competitive design, installation and commissioning solution. The company's proven competency as a national refrigeration supplier gave VINCI the confidence in its ability to draw on specialist knowledge within the business to deliver the project on time.

VINCI's senior buildings service manager says: "As a business we have an ethos of working with the best sub-contractors and that extends to J & E Hall. We like the fact that J & E Hall can easily co-ordinate their different areas of expertise to deliver a project within difficult time constraints."

THE CHALLENGE

J & E Hall Project Manager Mark Prince says: "The internal construction of all 3 building units is a temporary installation and all trades involved had to work together within the 13 week window. The biggest challenge was to work in co-ordination with the other 9 sub-contractors including ceiling fixers, sprinkler installation, main mechanical and electrical installation, flooring, fire alarms and CCTV."

There were some design challenges for the J & E Hall team due to limited space around the building. Design requirements also changed 6 weeks before work was due to commence, so J & E Hall had to bring a new design and equipment together in time to start the job.



THE SOLUTION

The final project included the supply and installation of 27 condensing units, designed by J & E Hall and manufactured by group company Hubbard. Capacities ranged from 6.7kW to 124kW serving 43 Guntner evaporators. Each separate area also required individual system control to perfectly chill dairy produce, vegetable, berries, avocados and bananas at the correct temperature varying from +20°C to -20°C.

The project also included leak detection, pipework, valves, electrical installation, control panels and site commissioning.

Mark Prince adds: "The customer chose DX systems so we used low GWP refrigerant R407F to deliver around 1MW cooling capacity to 3 storage units, which will have a storage capacity of nearly 1,100 tons."

All-in-all the project was a great example of the J & E Hall team working together to achieve project success. J & E Hall's Regional Manager Services (south) says: "The job certainly turned out to be an 'all hands on deck' project which included our Dartford, Southampton and Derby sites working together to complete the job."

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