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FridgeHUB scales new heights at fish factory

CASE STUDY:

REFRIGERATION LINDUM / DEAN & WOOD



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Refrigeration Lindum

Beijer Ref's FridgeHUB has supported the successful installation of a transcritical CO₂ refrigeration system from SCM for a leading supplier of chilled fish to the UK retail market.

Grimsby-based industrial specialist Refrigeration Lindum has worked with the factory since it opened in 1998 and has completed more than 40 separate installations, including blast chillers and a 20-tonne ice production facility.



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The site initially operated with R22 refrigerant and later transitioned to R404A, R407C and R448A. With 180kW of additional cooling needed for the salmon processing hall, discussions were held regarding sustainability and low GWP natural refrigerant CO₂ was chosen for the application, emphasising the end user's commitment to creating a carbon neutral facility.

It was a first CO₂ installation for Refrigeration Lindum but a chance meeting with FridgeHUB, part of the Beijer Ref UK group, followed by an introduction to SCM products, was to prove significant. A close working relationship quickly developed between the contractor, manufacturer SCM and FridgeHUB, in particular Alice Thornton from the FridgePROJECTS division. This enabled the installation to flow smoothly from selection to commissioning, with Alice keeping the customer informed at every stage of the process.

Paul Sampson, Managing Director at Refrigeration Lindum, said:

“Although this was our first CO₂ installation, the support and commissioning provided by **FridgeHUB** made the experience enjoyable and straightforward. Both **FridgeHUB** and **SCM** were outstanding.”



The high quality transcritical pack features “Plug ‘n Cool” design, meaning that installation required only a mains supply and connection of the suction and liquid pipework to the system. Using a 4-fan vertical discharge condenser and four Bitzer 4FTE-30K compressors provided an all-in-one solution.

Setting new standards

Because the system falls under the Pressure Systems Safety Regulations (PSSR) and needed to be Pressure Equipment Directive (PED) compliant, a third party inspector ensured UKCA and CE marking of components, along with certification of all products installed.

Training for engineers by the **Beijer Ref Academy** provided detailed working knowledge of the system and dispelled any uncertainty about working with CO₂ for the first time.

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Paul Sampson added:
“Because our engineers are trained and used to working with ammonia, the safety side of detection and high pressures was soon grasped thanks to the excellent training. After that, the installation through to commissioning was basically what we have been doing throughout our 45 years in the trade.”



Beijer Ref launched **FridgeHUB** last year to set new standards in how refrigeration equipment is supplied to the industry. Natural, sustainable solutions are the foundation with systems available for CO₂ and A2L refrigerants, covering standard condensing units through to pack systems.

FridgeHUB combines five key strands to enhance product support, including **FridgePROJECTS**, a team of specialist project managers covering commercial and heavy commercial systems above 10kW.

FridgePROJECTS area sales manager Alice Thornton said: “FridgeHUB was created to redefine the way refrigeration equipment is supplied and this project is a fantastic example of the many advantages we can offer. As well as supplying all the equipment, installation materials and Carel controls, working so closely with the customer meant we were there to offer support and guidance when it mattered.”

If you would like to discuss the services provided by FridgeHUB or would like a quotation for a specific project email:

fridgeprojects@fridgehub.co.uk



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