

Ikea Ballymun, Dublin 11, Freezer Room



PROJECT

Tech Refrigeration and Air Conditioning undertook the project of installing an external freezer room at Ikea Ballymun, Dublin 11. This freezer room, designed to store food at temperatures between -18°C and -21°C , spans dimensions of 5.800 meters by 11.200 meters, with a height varying from 3.050 meters on the high side to 2.850 meters on the low side. The project encompassed the decommissioning and disposal of the existing container, followed by the construction of the new freezer room and installation of all necessary refrigeration components. Detailed planning and execution were crucial to meet the specific requirements of Ikea and ensure minimal disruption to their ongoing operations.

PRODUCT

The external freezer room is constructed with high-quality materials to ensure optimal insulation and durability for food storage. The walls are insulated with 125mm Kingspan Quadcore, while the ceilings feature 150mm Kingspan Quadcore insulation. The interior finish is white foodsafe, and the external walls are clad in goosewing grey weatherclad for enhanced protection. The floor includes a heater mat with a control panel, transformer, and probes, along with two layers of 60mm EPS200 high-density insulation and a 120mm reinforced concrete wearing slab with a power-floated finish.

The roofing system extends over the new room with new cladding sheets, gutters, and downpipes. The manual sliding door measures 1.800 meters wide by 2.200 meters high, with foodsafe white internal and goosewing grey external finishes, and is equipped with heaters on all four sides and a secure lock. Additionally, a concrete ramp facilitates access to the freezer room.

In terms of refrigeration, the outdoor condenser is positioned within 10 meters of the room, while the indoor evaporator is mounted inside, connected to a weatherproof housed unit beside the door that contains the digital controller and electrics. The installation process included pressure testing the pipework, vacuuming, and filling the system with refrigeration gas. The unit was commissioned and set to maintain the specified temperature range, ensuring efficient and reliable operation.



CLIENT

Ikea Ballymun, located in Dublin 11, is one of the major outlets of the global furniture and home goods retailer, Ikea. Known for its wide range of products that combine style, functionality, and affordability, Ikea Ballymun serves a large customer base in the region. The store's commitment to sustainability and operational efficiency extends to its facilities and infrastructure, ensuring that all aspects of its operations meet high standards of quality and environmental responsibility.

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