

Dunnes Stores Redmond Square, Wexford

Chiller Replacement with Smardt Turbocor



“The Smardt Turbocor chiller installed in Dunnes Redmond Square is operating at an average efficiency of COP 6.7”

Dunnes Stores Redmond Square is a large grocery and department store located in the heart of bustling Wexford Town. The store, which is located on the east coast of Ireland and exposed to the harsh ocean air, required a full upgrade of the roof mounted chilled water system.

Sirus put forth an economic and environmental argument for installing a high efficiency chiller plant with magnetic bearing and oil free Turbocor compressor technology to replace the existing 450 kW chiller unit.

Sirus undertook a full turn-key project which involved the replacement of the chiller, supporting steel framework, chilled water pipework and chilled water distribution pumps.

Sirus project managed the entire retrofit and all sub-contractors. Sirus also fulfilled the role of Project Supervisor Construction Stage (PSCS) for health and safety management throughout the course of the works.

The site is remote connected to Sirus Energy Bureau, where building energy and chiller operational performance is monitored. Comprehensive electrical and thermal metering was also installed to verify the high efficiency chiller performance.

The Smardt Turbocor chiller installed in Redmond Square is currently operating at an average efficiency of COP 6.7.

Building Energy Solutions

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FINAL CLIENT

Dunnes Stores

LOCATION

Redmond Square, Wexford Town, Ireland.

SERVICES PROVIDED

Energy Analysis
Turn-key chiller installation
PSCS Health & Safety
Replacement of pipework and ancillary equipment
Flushing and cleaning of chilled water system
System Commissioning
BMS Upgrade
Modbus metering network

DURATION

Year 2014

REFERENCE CONTACT

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PARTNERS

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