



Refrigeration Installation for RDC

📍 Warrington Distribution Centre



 PROJECT OVERVIEW

EJM Engineered Systems Ltd delivered the complete refrigeration package for a new temperature-controlled distribution centre in Warrington.

The system supports both frozen and chilled storage, forming a key part of the national cold-chain network.



➔ KEY DELIVERABLES

- Full refrigeration plant design and installation
- Two-stage ammonia system with glycol secondary circuit
- GEA Grasso compressor packages with advanced Omni™ controls
- Coolers&Condensers evaporators for freezer and chill store
- BAC evaporative condenser with full water treatment system
- Glycol pump skids, surge drums, oil recovery systems
- RDM controls and monitoring integration
- Electrical installation including MCC panels
- Dehumidification for 35 loading docks
- Control room AC and roof void heating

❄️ PERFORMANCE

- **Frozen store:** -22°C
- **Chill store:** +2°C
- **Freezer duty:** 1150 kW
- **Chill duty:** 872 kW
- High-efficiency VSD compressors and pumps
- EC fan technology for reduced energy consumption
- Natural refrigerant (NH₃) for low environmental impact

✅ PROJECT BENEFITS

- Exceptional temperature stability
- Reduced energy consumption
- High reliability with built-in redundancy
- Full visibility and control via RDM
- Future-proof natural refrigerant strategy
- High-quality installation across mechanical and electrical systems



 ABOUT EJM

EJM Engineered Systems Ltd specialises in the design, installation, and commissioning of large-scale industrial refrigeration systems.

Our work on this regional distribution centre demonstrates our capability to deliver high-performance, energy-efficient solutions for mission-critical cold-chain operations.

