

ammonia industrial refrigeration plant

case study / Samworth Brothers Ltd. / Food Distribution

Samworth Brothers
QUALITY FOODS


INTEGRAL
refrigeration

delivering engineering excellence

ensuring lowest possible running costs...

SITE REFERENCE:	Samworth Brothers Ltd
SITE LOCATION:	Leicestershire
BUSINESS SECTOR:	Food Distribution
CONSTRUCTION PERIOD:	6 Months



SCOPE OF WORKS:

- Industrial two stage ammonia refrigeration plant
- Variable speed reciprocating compressors
- Evaporative condensers with floating head pressure control
- Automatic air purger
- HP liquid receiver
- Surge drum/pump separator packages including duty standby ammonia pumps
- Air coolers serving 4MW total cooling (+2°C chill store; -2°C deep chill; -23°C freezer cold store; -32°C blast freezer and +5°C tempering room)
- Hot gas defrost system
- Glycol underfloor heater mat using waste heat from refrigeration plant
- Emergency roof void ventilation system to ammonia valve stations
- Leak detection system
- Plant room safety equipment and ventilation
- Independent wireless temperature monitoring
- Remote dial in/out access
- Commissioning
- 2 year comprehensive maintenance contract

PROJECT DESCRIPTION:

Integral provided a supremely efficient ammonia industrial refrigeration plant to serve a brand new 155,000 ft² food distribution facility for the end user Samworth Brothers Supply Chain in Leicester. With a focus on low energy costs and plant longevity. The Integral solution ensured lowest possible running costs with its capital plant selection and control procedures.

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**retail & commercial
industrial**

lokold (products & fabrication)

spirals / edge drive / tunnels etc.

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