case study / Samworth Brothers Ltd. / Food Distribution
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.