

multi temperature refrigeration plant

case study / Cheshire / Food Production Facility



refrigeration

maintaining the highest levels of efficiency...

SITE REFERENCE:	Food Production Facility
SITE LOCATION:	Cheshire
BUSINESS SECTOR:	Food Production
CONSTRUCTION PERIOD:	6 Months

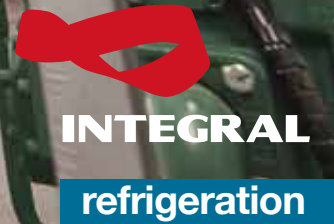
SCOPE OF WORKS:

- Industrial ammonia refrigeration plant
- Variable speed screw compressors
- Air cooled condensers with floating head pressure control
- Air purger
- Critically charged
- Surge drum / pump separator packages each c/w duty / standby ammonia pumps
- Air coolers serving 1.4MW total cooling (+2°C chill store -5°C spiral chillers -18°C freezer cold store)
- Hot gas defrost system
- Leak detection system
- Plant room safety equipment and ventilation
- Remote dial in/out access and
- Commissioning

PROJECT DESCRIPTION:

Integral have provided a multi temperature single stage pumped ammonia industrial refrigeration plant to serve a brand new 60,000ft² food production facility in the North West of England. With a wide range of operating room / air temperatures for various processes, Integral made use of multi-compressor packaged solutions in order to maintain highest levels of efficiency, whilst minimising payback periods. Plant standby and resiliency optimised through plant selection to keep the plant running 24/7, 365 days a year. The production facility went into operation in March 2018 and looks set to be their most energy efficient plant installed to date.







refrigeration

**retail & commercial
industrial**

lokold (products & fabrication)

spirals / edge drive / tunnels etc.

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INTEGRAL

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