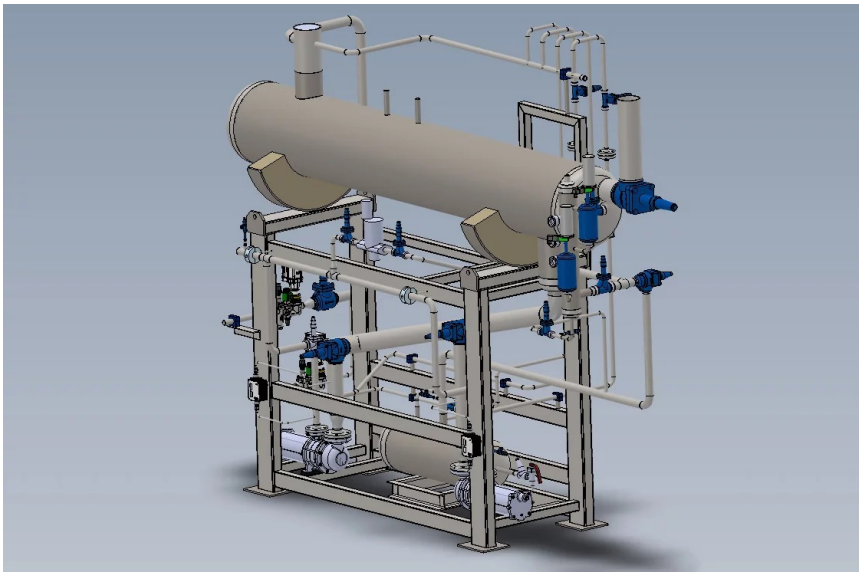
Ammonia Refrigeration Systems



Engineering | Safety | Reliability | Turnkey Solutions

MISF Engineering provides comprehensive **industrial ammonia (NH_3) refrigeration engineering and technical services**, combining multidisciplinary engineering capabilities with hands-on industry expertise in ammonia refrigeration system operation, maintenance, safety, and reliability.

We support clients throughout the system lifecycle—from evaluating and improving existing refrigeration plants to engineering and supplying new or replacement systems.

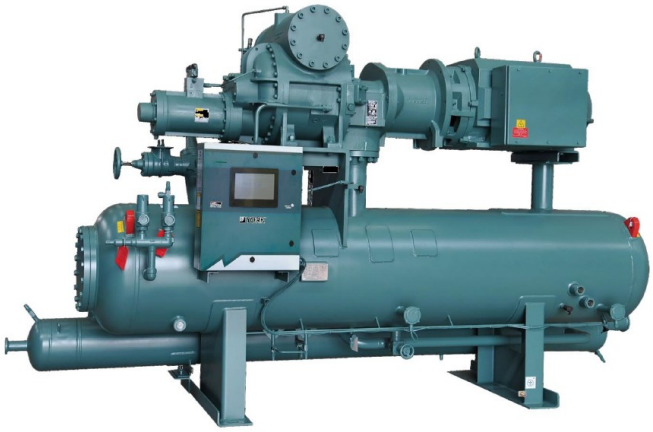
Engineering & System Optimization

Our engineering team can evaluate existing ammonia refrigeration systems and develop practical solutions for upgrades, expansions, equipment replacement, and reliability improvements.

Capabilities include:

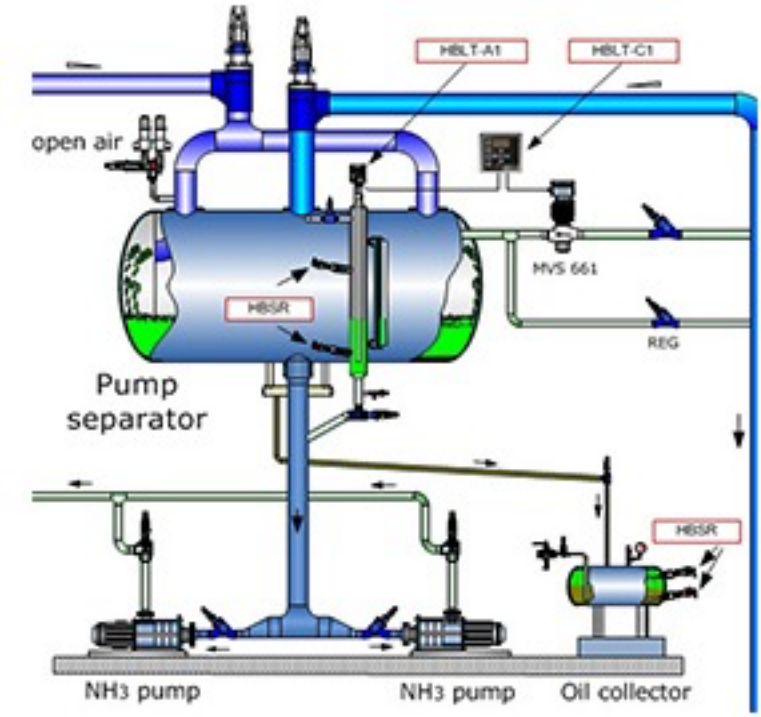
- System evaluation and optimization
- Refrigeration equipment sizing and selection
- Piping and equipment engineering
- Pressure vessel and heat exchanger engineering
- Pipe stress analysis
- Structural and equipment support evaluations
- Fitness-for-Service (FFS) assessments

- Multidisciplinary mechanical, piping, structural, electrical, and instrumentation support



Safety & Mechanical Integrity

Safe and reliable operation is critical for industrial ammonia refrigeration facilities. MISF Engineering provides engineering and operational expertise to help clients identify risks and maintain system integrity.



Services include:

- Mechanical integrity assessments

- Equipment and piping condition evaluations
- Hazard identification and risk mitigation
- Plant safety evaluations
- Emergency response planning and preparedness
- Operational best-practice reviews
- Safety and reliability improvement recommendations

Operations & Reliability Support

Our industry specialists provide practical support based on extensive experience with operating industrial ammonia refrigeration systems.

We can assist with:

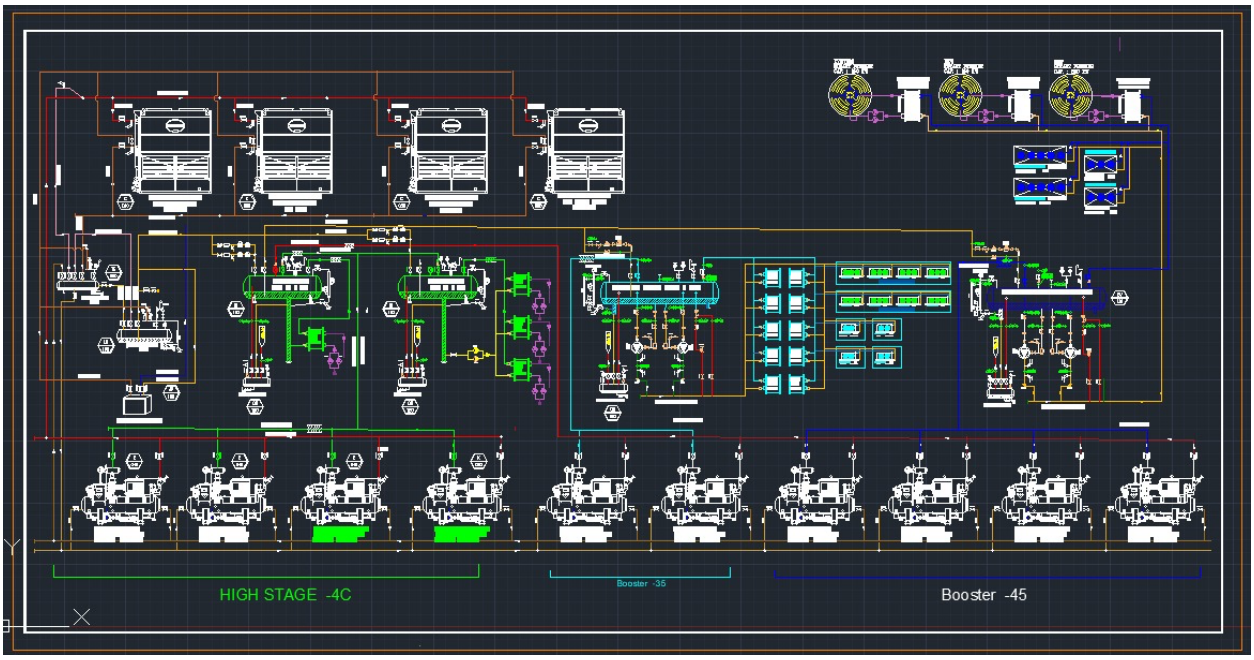
- Safe operating practices
- Preventive and corrective maintenance programs
- Troubleshooting and operational support
- Reliability assessments
- System performance improvement
- Maintenance and operating procedure development

Turnkey Ammonia Refrigeration Solutions

From Refrigeration Requirement to Operating System

MISF Engineering can support **new installations, system expansions, and replacement ammonia refrigeration systems**.

Provide us with your required **refrigeration capacity or tonnage and operating requirements**, and our team can develop a solution tailored to your facility, operational objectives, and budget.



Our turnkey capabilities can include:

DEFINE Refrigeration requirements • Capacity/Tonnage • Operating Conditions • Facility Constraints

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ENGINEER System Design • Equipment Sizing • Piping • Mechanical • Structural • Electrical • Instrumentation

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SOURCE & FABRICATE Compressors • Condensers • Evaporators • Vessels • Piping • Valves • Controls • Packaged Systems

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INSTALL & COMMISSION Installation Support • Testing • Startup • Commissioning • Operational Support

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One Team. Complete Refrigeration Support.

Whether your facility needs **troubleshooting, mechanical integrity support, a safety assessment, system optimization, additional refrigeration capacity, equipment replacement, or a completely new ammonia refrigeration system**, MISF Engineering can support the project from initial evaluation through implementation.

Let’s Discuss Your Refrigeration Needs

Tell us your required refrigeration capacity, current operating challenges, or upcoming project requirements.

MISF Engineering LLC
Engineering Solutions. Practical Execution. Reliable Results.

Request a Consultation | Discuss Your Project