

# MECHANICAL REFRIGERATING SYSTEMS CHECKLIST

## ROUTINE CHILLER MAINTENANCE TASKS

### RECORD KEEPING

Maintain daily pressure and refrigeration temperature log sheets.

- Analyze these readings each day
- If the readings differ from design or established limits, determine the cause and make corrections immediately

Maintain a permanent Refrigeration Preventative Maintenance Log Book

Maintain a record of:

- Ammonia added to the system
- Oil added and drained from the system

### EQUIPMENT MAINTENANCE

- Follow the equipment manufacturer's preventive maintenance recommendations for all refrigeration system equipment.
- Maintain correct belt tension and alignment on all V-Belt drives.
- Maintain correct alignment on all direct drive couplings.
- Inspect and clean condenser troughs and spray nozzles weekly.
- Inspect and clean condenser pans and sumps as needed.
- Insure that condenser water treatment equipment and automatic bleed-off systems are functioning properly.
- Ensure all evaporators are defrosting properly (no under or over defrosting).
- Locate and repair all refrigerant and oil leaks promptly.
- Test ammonia detection system operation a minimum of twice per year.

### HOUSEKEEPING

- Keep machinery rooms neat and clean.
- Keep all refrigeration machinery clean.
- Keep all electrical equipment clean.
- Keep piping and vessels clean, free of rust and painted.
- Keep all pipe and vessel insulation clean and in good repair.
- Keep personal protective and breathing equipment in good working order and ensure proper storage.

### LUBRICATION

- Always use equipment manufacturer's recommended lubricants.
- Always follow equipment and manufacturer's frequency schedules.
- Be sure that valve stems are cleaned and oiled before closing any valve.

## ANNUAL CHILLER MAINTENANCE TASKS

DATE	INITIALS	ANNUAL REFRIGERATION EQUIPMENT MAINTENANCE
		Test all safety controls and interlocks.
		Inspect pressure relief valves for corrosion or accumulation of scale and for leaks.
		Inspect vent lines to ensure they are clear, discharge to a safe place and are protected against ingress of moisture.
		Service machinery room ventilation systems.
		Test all sump heaters, pump seal heaters, compressor crankcase heaters and all heat tape.
		Check all electrical connections for proper tightness.
		Check calibration of all pressure gauges.



Need help with your Ammonia Refrigeration System?  
For emergency service, call +1 833-399-2221  
<https://berg-group.com/>