



HERNDON MECHANICAL GROUP

TECHNICAL INSPECTION CHECKLIST

HVAC

- Measure and document amps to all motors.
- Inspect and adjust the belts and bearings.
- Check the refrigerant pressures.
- Clear and inspect drain lines.
- Install algae tabs to prevent buildup and clogs.
- Verify economizer operation.
- Inspect and tighten electrical connections.
- Clean flame sensor and igniter.
- Inspect flue for exhaust leaks or internal obstructions.
- Evaluate and inspect contactors and capacitors.
- Verify operation of reversing valve and defrost cycle.
- Check gas connections for leaks at the system.
- Measure temperature differential for heat rise or gain.
- Inspect heat exchangers for cracks or holes.
- Inspect ductwork for kinks or tears.
- Perform leak search on the refrigeration system.
- Evaluate all system operations to ensure peak efficiency and performance, extending the system's lifespan and reducing costly repairs and replacements.

Ice Machines

- Inspect the quality and clarity of ice.
- Clear and inspect drain lines on both the maker and bin.
- Verify harvest timing and load.
- Check for leaks or freeze-ups.

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- Document any lime/scale buildup.
- Clean any biological growth found.
- Operate and test all machine functions.
- Ice is considered food; proper cleaning and maintenance are essential to prevent airborne pathogens and microorganisms from thriving in damp, cool conditions.

Coolers

- Inspect the performance and efficiency of the cooler.
- Check mechanical components, including:
 - Amps to compressor and fan motors
 - Contactors, capacitors, and limits
 - Refrigerant pressures
- Calculate heat removal from the cooler.
- Inspect and tighten electrical connections.
- Check the thermostat parameters against current conditions.
- Verify complete operation of the cooler.
- Recommend any necessary repairs to keep the cooler running efficiently year-round.

Make-Up Air (MUA)

- Verify blower amp readings are within manufacturer specifications.
- Check and adjust the gas pressure at the valve.
- Inspect gas line connections for leaks.
- Clean flame sensor and ignition.
- Inspect and adjust belt tension.
- Clear airflow switch tubes.
- Inspect contactors, overloads, and electrical connections.



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- Check the control box for damage or loose connections.
- Test and operate all heater functions.
- Recommend repairs to avoid downtime during cold weather.

Hanging Heaters

- Verify operation of thermostat.
- Tighten any loose electrical connections.
- Test ignition board sequencing.
- Clean airflow switch tubes and ports.
- Inspect heat exchangers for holes or cracks.
- Clean flame sensor and igniter.
- Verify proper voltage to the equipment.
- Measure amps to all motors.
- Test and inspect capacitors.
- Inspect flue for exhaust leaks and internal obstructions.
- Adjust gas pressure at the valve if needed.
- Recommend any necessary repairs or improvements to maintain comfort during winter months.