

Energy Efficiency Program for Business

2023 Chiller tune-up checklist

This checklist is used to document the data required for your chiller tune-up applications. Please complete this document and include manufacturer's specification sheets, a screenshot of nominal tonnage, or nameplate verification. If more than four chillers are tuned-up, please use additional copies of this document for further equipment.

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Chiller tune-up #1 (HE-50)

Select one: Space cooling Process cooling

Select all that apply:

- Inspect and correct oil level and pressure at full load operation
- Clean the air-cooled condenser coil
- Check and adjust the system pressure
- Inspect and/or replace filter
- Inspect and/or replace belt
- Check and repair the electrical contactors
- Check refrigerant temperature and pressure
- Validate high pressure controls
- Clean water cooled chiller condenser tubes
- Check and repair economizer operation
- Validate suction temperature and pressure
- Patch and wash coat as required
- Check for proper venting
- Check and repair evaporator condition
- Validate compressor amp draw
- Validate supply motor amp draw
- Validate condenser fan(s) amp draw
- Check liquid line temperature
- Check suction pressure and temp
- Validate low-pressure controls
- Validate crankcase heater operation
- Clean water cooled chiller evaporator tubes (if performance warrants)
- Validate sub-cooling and superheat
- Inspect all refractory
- Check safety controls
- Lubricate all motors and check coupling alignment

Chiller information:

Manufacturer	Technician performing tune-up
Model number	Annual hours of operation
Serial number	Unit size (tons)

Chiller tune-up #2 (HE-50)

Select one: Space cooling Process cooling

Select all that apply:

- Inspect and correct oil level and pressure at full load operation
- Clean the air-cooled condenser coil
- Check and adjust the system pressure
- Inspect and/or replace filter
- Inspect and/or replace belt
- Check and repair the electrical contactors
- Check refrigerant temperature and pressure
- Validate high pressure controls
- Clean water cooled chiller condenser tubes
- Check and repair economizer operation
- Validate suction temperature and pressure
- Patch and wash coat as required
- Check for proper venting
- Check and repair evaporator condition
- Validate compressor amp draw
- Validate supply motor amp draw
- Validate condenser fan(s) amp draw
- Check liquid line temperature
- Check suction pressure and temp
- Validate low-pressure controls
- Validate crankcase heater operation
- Clean water cooled chiller evaporator tubes (if performance warrants)
- Validate sub-cooling and superheat
- Inspect all refractory
- Check safety controls
- Lubricate all motors and check coupling alignment

Chiller information:

Manufacturer	Technician performing tune-up
Model number	Annual hours of operation
Serial number	Unit size (tons)