

Energy Efficiency Program for Business

2024 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 eight chillers are tuned-up, please use additional copies of this form.

To access this document and apply online, go to mienergyrebates.com



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Chiller Tune-Up #1 (HE-50)

Select One: ☐ Space Cooling ☐ Process Cooling

Select All That Apply:

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

- | | |
|--|--|
| <input type="checkbox"/> Inspect and correct oil level and pressure at full load operation | <input type="checkbox"/> Check and repair evaporator condition |
| <input type="checkbox"/> Clean the air-cooled condenser coil | <input type="checkbox"/> Validate compressor amp draw |
| <input type="checkbox"/> Check and adjust the system pressure | <input type="checkbox"/> Validate supply motor amp draw |
| <input type="checkbox"/> Inspect and/or replace filter | <input type="checkbox"/> Validate condenser fan(s) amp draw |
| <input type="checkbox"/> Inspect and/or replace belt | <input type="checkbox"/> Check liquid line temperature |
| <input type="checkbox"/> Check and repair the electrical contactors | <input type="checkbox"/> Check suction pressure and temp |
| <input type="checkbox"/> Check refrigerant temperature and pressure | <input type="checkbox"/> Validate low-pressure controls |
| <input type="checkbox"/> Validate high pressure controls | <input type="checkbox"/> Validate crankcase heater operation |
| <input type="checkbox"/> Clean water cooled chiller condenser tubes | <input type="checkbox"/> Clean water cooled chiller evaporator tubes (if performance warrants) |
| <input type="checkbox"/> Check and repair economizer operation | <input type="checkbox"/> Validate sub-cooling and superheat |
| <input type="checkbox"/> Validate suction temperature and pressure | <input type="checkbox"/> Inspect all refractory |
| <input type="checkbox"/> Patch and wash coat as required | <input type="checkbox"/> Check safety controls |
| <input type="checkbox"/> Check for proper venting | <input type="checkbox"/> 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 #3 (HE-50)

Select One: ☐ Space Cooling ☐ Process Cooling

Select All That Apply:

- | | |
|--|--|
| <input type="checkbox"/> Inspect and correct oil level and pressure at full load operation | <input type="checkbox"/> Check and repair evaporator condition |
| <input type="checkbox"/> Clean the air-cooled condenser coil | <input type="checkbox"/> Validate compressor amp draw |
| <input type="checkbox"/> Check and adjust the system pressure | <input type="checkbox"/> Validate supply motor amp draw |
| <input type="checkbox"/> Inspect and/or replace filter | <input type="checkbox"/> Validate condenser fan(s) amp draw |
| <input type="checkbox"/> Inspect and/or replace belt | <input type="checkbox"/> Check liquid line temperature |
| <input type="checkbox"/> Check and repair the electrical contactors | <input type="checkbox"/> Check suction pressure and temp |
| <input type="checkbox"/> Check refrigerant temperature and pressure | <input type="checkbox"/> Validate low-pressure controls |
| <input type="checkbox"/> Validate high pressure controls | <input type="checkbox"/> Validate crankcase heater operation |
| <input type="checkbox"/> Clean water cooled chiller condenser tubes | <input type="checkbox"/> Clean water cooled chiller evaporator tubes (if performance warrants) |
| <input type="checkbox"/> Check and repair economizer operation | <input type="checkbox"/> Validate sub-cooling and superheat |
| <input type="checkbox"/> Validate suction temperature and pressure | <input type="checkbox"/> Inspect all refractory |
| <input type="checkbox"/> Patch and wash coat as required | <input type="checkbox"/> Check safety controls |
| <input type="checkbox"/> Check for proper venting | <input type="checkbox"/> 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 #4 (HE-50)

Select One: ☐ Space Cooling ☐ Process Cooling

Select All That Apply:

- | | |
|--|--|
| <input type="checkbox"/> Inspect and correct oil level and pressure at full load operation | <input type="checkbox"/> Check and repair evaporator condition |
| <input type="checkbox"/> Clean the air-cooled condenser coil | <input type="checkbox"/> Validate compressor amp draw |
| <input type="checkbox"/> Check and adjust the system pressure | <input type="checkbox"/> Validate supply motor amp draw |
| <input type="checkbox"/> Inspect and/or replace filter | <input type="checkbox"/> Validate condenser fan(s) amp draw |
| <input type="checkbox"/> Inspect and/or replace belt | <input type="checkbox"/> Check liquid line temperature |
| <input type="checkbox"/> Check and repair the electrical contactors | <input type="checkbox"/> Check suction pressure and temp |
| <input type="checkbox"/> Check refrigerant temperature and pressure | <input type="checkbox"/> Validate low-pressure controls |
| <input type="checkbox"/> Validate high pressure controls | <input type="checkbox"/> Validate crankcase heater operation |
| <input type="checkbox"/> Clean water cooled chiller condenser tubes | <input type="checkbox"/> Clean water cooled chiller evaporator tubes (if performance warrants) |
| <input type="checkbox"/> Check and repair economizer operation | <input type="checkbox"/> Validate sub-cooling and superheat |
| <input type="checkbox"/> Validate suction temperature and pressure | <input type="checkbox"/> Inspect all refractory |
| <input type="checkbox"/> Patch and wash coat as required | <input type="checkbox"/> Check safety controls |
| <input type="checkbox"/> Check for proper venting | <input type="checkbox"/> 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 #5 (HE-50)

Select One: ☐ Space Cooling ☐ Process Cooling

Select All That Apply:

- | | |
|--|--|
| <input type="checkbox"/> Inspect and correct oil level and pressure at full load operation | <input type="checkbox"/> Check and repair evaporator condition |
| <input type="checkbox"/> Clean the air-cooled condenser coil | <input type="checkbox"/> Validate compressor amp draw |
| <input type="checkbox"/> Check and adjust the system pressure | <input type="checkbox"/> Validate supply motor amp draw |
| <input type="checkbox"/> Inspect and/or replace filter | <input type="checkbox"/> Validate condenser fan(s) amp draw |
| <input type="checkbox"/> Inspect and/or replace belt | <input type="checkbox"/> Check liquid line temperature |
| <input type="checkbox"/> Check and repair the electrical contactors | <input type="checkbox"/> Check suction pressure and temp |
| <input type="checkbox"/> Check refrigerant temperature and pressure | <input type="checkbox"/> Validate low-pressure controls |
| <input type="checkbox"/> Validate high pressure controls | <input type="checkbox"/> Validate crankcase heater operation |
| <input type="checkbox"/> Clean water cooled chiller condenser tubes | <input type="checkbox"/> Clean water cooled chiller evaporator tubes (if performance warrants) |
| <input type="checkbox"/> Check and repair economizer operation | <input type="checkbox"/> Validate sub-cooling and superheat |
| <input type="checkbox"/> Validate suction temperature and pressure | <input type="checkbox"/> Inspect all refractory |
| <input type="checkbox"/> Patch and wash coat as required | <input type="checkbox"/> Check safety controls |
| <input type="checkbox"/> Check for proper venting | <input type="checkbox"/> 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 #6 (HE-50)

Select One: ☐ Space Cooling ☐ Process Cooling

Select All That Apply:

- | | |
|--|--|
| <input type="checkbox"/> Inspect and correct oil level and pressure at full load operation | <input type="checkbox"/> Check and repair evaporator condition |
| <input type="checkbox"/> Clean the air-cooled condenser coil | <input type="checkbox"/> Validate compressor amp draw |
| <input type="checkbox"/> Check and adjust the system pressure | <input type="checkbox"/> Validate supply motor amp draw |
| <input type="checkbox"/> Inspect and/or replace filter | <input type="checkbox"/> Validate condenser fan(s) amp draw |
| <input type="checkbox"/> Inspect and/or replace belt | <input type="checkbox"/> Check liquid line temperature |
| <input type="checkbox"/> Check and repair the electrical contactors | <input type="checkbox"/> Check suction pressure and temp |
| <input type="checkbox"/> Check refrigerant temperature and pressure | <input type="checkbox"/> Validate low-pressure controls |
| <input type="checkbox"/> Validate high pressure controls | <input type="checkbox"/> Validate crankcase heater operation |
| <input type="checkbox"/> Clean water cooled chiller condenser tubes | <input type="checkbox"/> Clean water cooled chiller evaporator tubes (if performance warrants) |
| <input type="checkbox"/> Check and repair economizer operation | <input type="checkbox"/> Validate sub-cooling and superheat |
| <input type="checkbox"/> Validate suction temperature and pressure | <input type="checkbox"/> Inspect all refractory |
| <input type="checkbox"/> Patch and wash coat as required | <input type="checkbox"/> Check safety controls |
| <input type="checkbox"/> Check for proper venting | <input type="checkbox"/> 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 #7 (HE-50)

Select One: ☐ Space Cooling ☐ Process Cooling

Select All That Apply:

- | | |
|--|--|
| <input type="checkbox"/> Inspect and correct oil level and pressure at full load operation | <input type="checkbox"/> Check and repair evaporator condition |
| <input type="checkbox"/> Clean the air-cooled condenser coil | <input type="checkbox"/> Validate compressor amp draw |
| <input type="checkbox"/> Check and adjust the system pressure | <input type="checkbox"/> Validate supply motor amp draw |
| <input type="checkbox"/> Inspect and/or replace filter | <input type="checkbox"/> Validate condenser fan(s) amp draw |
| <input type="checkbox"/> Inspect and/or replace belt | <input type="checkbox"/> Check liquid line temperature |
| <input type="checkbox"/> Check and repair the electrical contactors | <input type="checkbox"/> Check suction pressure and temp |
| <input type="checkbox"/> Check refrigerant temperature and pressure | <input type="checkbox"/> Validate low-pressure controls |
| <input type="checkbox"/> Validate high pressure controls | <input type="checkbox"/> Validate crankcase heater operation |
| <input type="checkbox"/> Clean water cooled chiller condenser tubes | <input type="checkbox"/> Clean water cooled chiller evaporator tubes (if performance warrants) |
| <input type="checkbox"/> Check and repair economizer operation | <input type="checkbox"/> Validate sub-cooling and superheat |
| <input type="checkbox"/> Validate suction temperature and pressure | <input type="checkbox"/> Inspect all refractory |
| <input type="checkbox"/> Patch and wash coat as required | <input type="checkbox"/> Check safety controls |
| <input type="checkbox"/> Check for proper venting | <input type="checkbox"/> 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 #8 (HE-50)

Select One: ☐ Space Cooling ☐ Process Cooling

Select All That Apply:

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