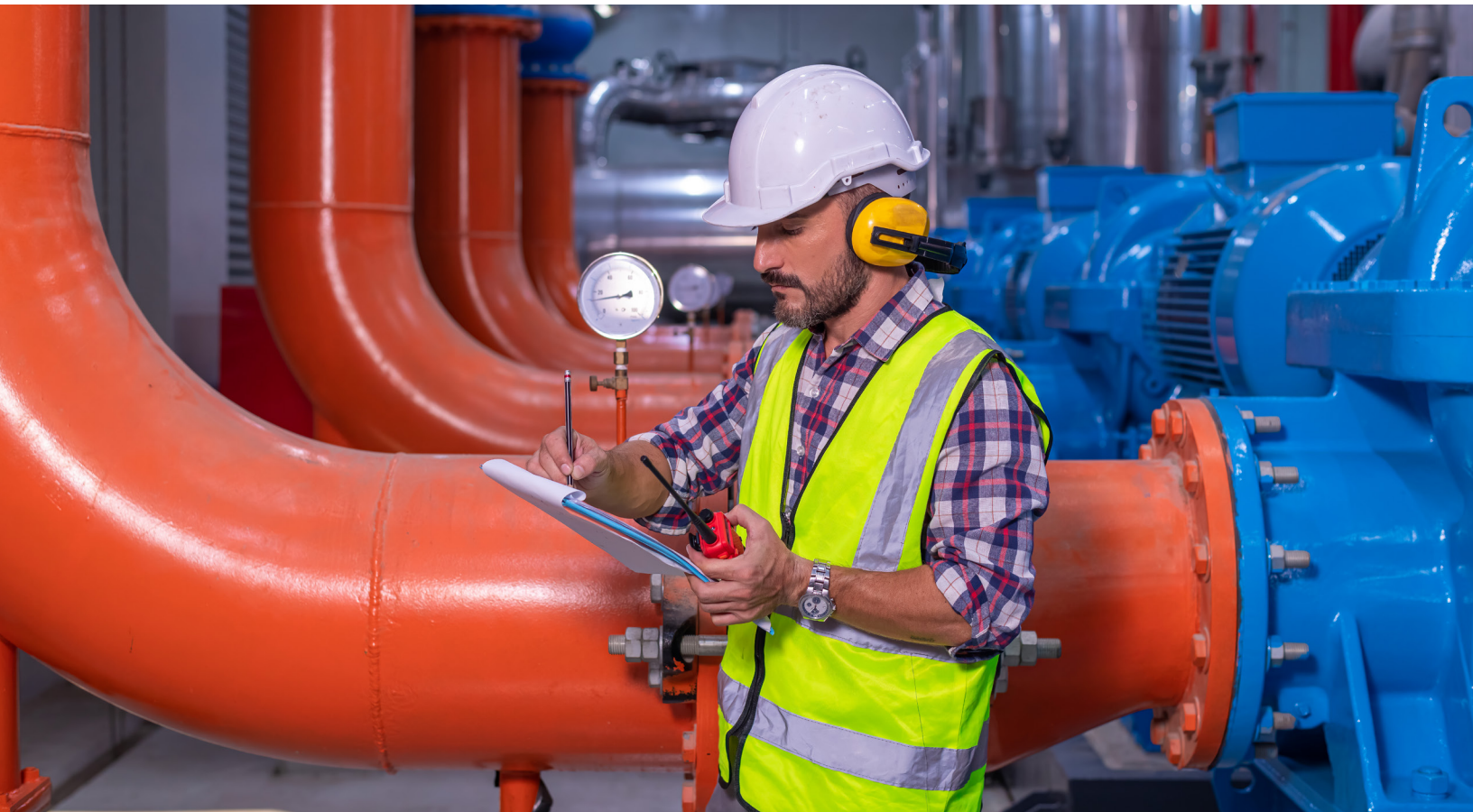
DTE CleanVision Energy Efficiency

Energy Efficiency Program for Business

2025 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 dteenergy.com/business



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:

Site name: _____

Manufacturer: _____ Date of tune-up: _____

Model number: _____ Annual hours of operation: _____

Serial number: _____ Unit size (tons): _____

Company performing tune-up: _____ Technician performing tune-up: _____

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:

Site name: _____

Manufacturer: _____ Date of tune-up: _____

Model number: _____ Annual hours of operation: _____

Serial number: _____ Unit size (tons): _____

Company performing tune-up: _____ Technician performing tune-up: _____

Chiller tune-up #3 (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:

Site name: _____

Manufacturer: _____ Date of tune-up: _____

Model number: _____ Annual hours of operation: _____

Serial number: _____ Unit size (tons): _____

Company performing tune-up: _____ Technician performing tune-up: _____

Chiller tune-up #4 (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:

Site name: _____

Manufacturer: _____ Date of tune-up: _____

Model number: _____ Annual hours of operation: _____

Serial number: _____ Unit size (tons): _____

Company performing tune-up: _____ Technician performing tune-up: _____

Chiller tune-up #5 (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:

Site name: _____

Manufacturer: _____ Date of tune-up: _____

Model number: _____ Annual hours of operation: _____

Serial number: _____ Unit size (tons): _____

Company performing tune-up: _____ Technician performing tune-up: _____

Chiller tune-up #6 (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:

Site name: _____

Manufacturer: _____ Date of tune-up: _____

Model number: _____ Annual hours of operation: _____

Serial number: _____ Unit size (tons): _____

Company performing tune-up: _____ Technician performing tune-up: _____

Chiller tune-up #7 (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:

Site name: _____

Manufacturer: _____ Date of tune-up: _____

Model number: _____ Annual hours of operation: _____

Serial number: _____ Unit size (tons): _____

Company performing tune-up: _____ Technician performing tune-up: _____

Chiller tune-up #8 (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:

Site name: _____

Manufacturer: _____ Date of tune-up: _____

Model number: _____ Annual hours of operation: _____

Serial number: _____ Unit size (tons): _____

Company performing tune-up: _____ Technician performing tune-up: _____