

**CERTIFICATION OF WORK
PREVENTIVE MAINTENANCE**

(To be completed by the Contractor and saved in the Contractor's CMMS)

FACID/Building: _____ Date of Visit: 9/18/19

Contractor Personnel on Site:

- | | |
|----------|----------|
| 1. _____ | 3. _____ |
| 2. _____ | 4. _____ |

Work Performed:

Preventive Maintenance - Services Completed (Annual, Quarterly, Monthly, equipment identification, etc.)

1. _____
2. _____
3. _____
4. _____
5. _____

CERTIFICATION OF WORK

To be signed by the Contractor:

Print Name: Johnny W Brown Date: 9/18/19

Signed: 

To be signed by Facility Manager:

By signing the Certification of Work, the said government representative signature does not constitute acceptance of any work performed by the contractor, it only acknowledges that the contractor was on-site during the identified timeline:

Print Name/Rank: Christopher Huebler Date: 9/18/19


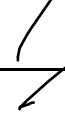
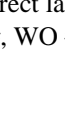
Signed: 

E-Mail: _____

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST
OUTDOOR PACKAGED UNIT/ROOF TOP UNIT (RTU)

SITE AND BLDG #: **MD005-01**MECHANIC
SIGNATURE: DATE: **9/18/19**LOCATION/RM #: **WO# 10564 ASSET # 1954**
1955START TIME: **0900**FINISH TIME: **1630**

| CHECK POINT | CHECKPOINT DESCRIPTION | TASK COMPLETE | | NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION) |
|--|---|---------------|----|---|
| | | YES | NO | |
| SPECIAL INSTRUCTIONS | | | | |
| 1 | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to. | | | |
| 2 | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work | | | |
| TO BE PERFORMED AT EACH INSPECTION SERVICE | | | | |
| 1 | Thoroughly inspect and clean interior and exterior of machine with wet/ dry vacuum, (remove panels). | | | |
| 2 | Clean drain pan and note excessive corrosion. Treat rusted areas with rust inhibitor. Ensure that the rust inhibitor chemical does not add volatile organic compounds or contaminants to the drain pan. If possible, rinse well after application or choose a less hazardous material. Consult the chemicals Safety Data Sheet (SDS) for this information | | | |
| 3 | Check for refrigeration leaks on all lines, valves, fittings, coils, etc., using a halogen leak detector or similar testing device. If leaks are not able to be stopped or corrected, report leak status to supervisor. | | | |
| 4 | Check condition of cooling and reheat coils. Use fin comb if need to straighten fins. | | | |
| 5 | Clean coils. Use detergent solution and warm water if coil is heavily soiled. | | | |
| 7 | Clean and lubricate motor and squirrel cage fan(s). Check alignment of motor and fan. Check bearings for excessive wear. | | | |
| 8 | Check belt tension and condition. Adjust or replace as required. | | | |
| 9 | Replace pre-filters if needed. | | | |
| 10 | Replace final filter if needed. | | | |

| CHECK POINT | CHECKPOINT DESCRIPTION | TASK COMPLETE | | NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION) |
|----------------|---|--|----|---|
| | | YES | NO | |
| 11 | If applicable confirm the following: i. Humidistat activates humidifier. ii. Reheat coils activate properly. iii. Discharge air temperature is set properly. |  | | |
| 12 | Check and adjust vibration eliminator mountings if equipped. Repair or replace if required |  | | |
| 13 | If applicable, clean and test condensate pump and alarm. |  | | |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed discription of the deficiency.

To be performed by: HVAC Technician

Additional Notes:

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST
FAN COIL UNIT/ DUCTLESS MINI SPLIT

MECHANIC
SIGNATURE



DATE:

9/18/19

SITE AND BLDG #: MD005-01

LOCATION/RM #:

WO# 10564





ASSET # 1956 - 1969

START TIME: 0900

FINISH TIME:

1630

| CHECK POINT | CHECKPOINT DESCRIPTION | TASK COMPLETE | | NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION) |
|--|--|---------------|----|---|
| | | YES | NO | |
| SPECIAL INSTRUCTIONS | | | | |
| 1 | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to. | / | | |
| 2 | Schedule shutdown with operating personnel, as needed. | / | | |
| 3 | As needed, de-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work. Follow lock out/tag out procedures at all times. | / | | |
| TO BE PERFORMED AT EACH INSPECTION SERVICE | | | | |
| 1 | Check fan blades for dust buildup and clean if necessary. | / | | |
| 2 | When applicable, check fan blades and moving parts for cracks and excessive wear. | / | | |
| 3 | Tighten all electrical connectors to proper torque asneeded. | / | | |
| 4 | Check that the fan runs properly in all speeds as applicable. | / | | |
| 5 | Check dampers and rotating auto diffusers for dirt accumulations, clean as necessary. Check felt, repair or replace as necessary. | / | | |
| 6 | Check damper actuators and linkage for proper operation as applicable. Adjust linkage on dampers if out of alignment. | / | | |
| 7 | Lubricate mechanical connections of dampers sparingly as applicable. | / | | |
| 8 | Check the valve(s) for signs of leakage and proper operation. If leak is detected, submit a UE. | / | | |
| 9 | Clean coils by brushing, blowing, vacuuming, or pressure washing. | / | | |
| 10 | Check coils for leaking, tightness of fittings. | / | | |
| 11 | Use fin comb to straighten coil fins as needed. | / | | |
| 12 | Check belts for wear and cracks, adjust tension or alignment as applicable. Replace belts when necessary. | / | | |
| 13 | Check rigid couplings for alignment on direct drives, and for tightness of assembly | / | | |
| 14 | Vacuum interior of unit. | / | | |

| CHECK POINT | CHECKPOINT DESCRIPTION | TASK COMPLETE | | NOTES/ ACTIONS <small>(IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)</small> |
|----------------|---|---|----|--|
| | | YES | NO | |
| 15 | Check filter door for proper gasketing and air leaks. Correct as necessary. |  | | |
| 16 | Change the filter as needed with the correct size and type filter. |  | | |
| 17 | Insure that drain(s) are clear and running. |  | | |
| 18 | Clean up work area. |  | | |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed discription of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST OUTDOOR CONDENSING UNIT

**MECHANIC
SIGNATURE:**

0900

DATE: 9/18/19

START TIME: 0900

FINISH TIME: 1630**SITE AND BLDG #:** MD005-01

| | | | |
|----------------|-----------|---------|------|
| LOCATION/RM #: | WO# 10564 | ASSET # | 1970 |
| | | | 1971 |

| CHECK POINT | CHECKPOINT DESCRIPTION | TASK COMPLETE | | NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION) |
|--|--|---------------|----|---|
| | | YES | NO | |
| SPECIAL INSTRUCTIONS | | | | |
| 1 | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to. | | | |
| 2 | Schedule outage of unit with personnel in area the unit serves. | | | |
| 3 | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work. | | | |
| 4 | If disposal of the equipment is required, follow regulations concerning removal of refrigerants and disposal of the unit. | | | |
| TO BE PERFORMED AT EACH INSPECTION SERVICE | | | | |
| 1 | Remove debris from air screen and clean underneath unit. | | | |
| 2 | Wash coil with coil cleaning solution - Rinse Thoroughly | | | |
| 3 | Straighten fin tubes with fin comb, as needed. | | | |
| 4 | Check electrical connections for tightness. | | | |
| 5 | Check mounting base for tightness. | | | |
| 6 | Inspect fans for bent blades, unbalance, excessive noise and vibrations. | | | |
| 7 | Inspect all piping for leaks and tighten loose connections. | | | |
| 8 | Check wires at condenser electrical fused safety switches for tightness and burned insulation. Repair as necessary. | | | |
| 9 | Check supply air temperature to ensure unit is operating properly. If possible record room temperature. | | | |
| 10 | Inspect unit for overall condition and recommend for replacement or other needed repairs. | | | |
| 11 | Clean up work area. | | | |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed discription of the deficiency.

To be performed by: HVAC Technician

Additional Notes:

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST

DDC CONTROLLER

SITE AND BLDG #: **MD005-01**MECHANIC
SIGNATURE

DATE: **9/18/19**

LOCATION/RM #:

WO# **10564**ASSET # **1972 - 1977**

START TIME:

0900

FINISH TIME:

1630

| CHECK POINT | CHECKPOINT DESCRIPTION | TASK COMPLETE | | NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION) |
|--|--|---------------|----|---|
| | | YES | NO | |
| SPECIAL INSTRUCTIONS | | | | |
| 1 | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to. | | | |
| 2 | Read and understand the manufacturer's instructions before making any adjustments or calibrations. | | | |
| 3 | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work. | | | |
| TO BE PERFORMED AT EACH INSPECTION SERVICE | | | | |
| 1 | Obtain username and password for login. If not available, contact appropriate company manager to obtain access. | | | |
| 2 | Login into system, check for any alarms currently on system. Make necessary repairs to correct alarms back to normal state. | | | |
| 3 | Check physical condition of the device. Shut off power to the unit. Vacuum any remaining dust. Turn power back on to the unit. | | | |
| 4 | Check electrical power connections including incoming line voltage. | | | |
| 5 | Check all fuses for evidence of heating or weakening. | | | |
| 6 | Check inputs and outputs on DDC/PLC check input and output wiring connections for tightness very carefully. | | | |
| 7 | If applicable, check relays for burnt contact points. | | | |
| 8 | Check all point labels are correct and up to date, if applicable. | | | |
| 9 | Check all plug connections in the panel to ensure the plugs are fully seated. | | | |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: HVAC Technician

Additional Notes: