

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST **FAN COIL UNIT/ DUCTLESS MINI SPLIT**

ACTIVITY AND BLDG #: Pa 051-227MECHANIC
SIGNATURE: DATE: 9-19-19LOCATION: 3rd room room 10157 Asset# 5154START TIME: 9:10FINISH TIME: 9:20

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
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.	<input checked="" type="checkbox"/>		
2	Schedule shutdown with operating personnel, as needed.	<input checked="" type="checkbox"/>		
3	Review manufacturer's instructions.	<input checked="" type="checkbox"/>		
4	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.	<input checked="" type="checkbox"/>		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	Check fan blades for dust buildup and clean if necessary.	<input checked="" type="checkbox"/>		
2	When applicable, check fan blades and moving parts for cracks and excessive wear.	<input checked="" type="checkbox"/>		
3	Tighten all electrical connectors to proper torque as needed.	<input checked="" type="checkbox"/>		
4	Check that the fan runs properly in all speeds as applicable.	<input checked="" type="checkbox"/>		
5	Check dampers and rotating auto diffusers for dirt accumulations, clean as necessary. Check felt, repair or replace as necessary.	<input checked="" type="checkbox"/>		
6	Check damper actuators and linkage for proper operation as applicable. Adjust linkage on dampers if out of alignment.		<input checked="" type="checkbox"/>	NA
7	Lubricate mechanical connections of dampers sparingly as applicable.	<input checked="" type="checkbox"/>		
8	Check the valve(s) for signs of leakage and proper operation. If leak is detected, submit a UE.	<input checked="" type="checkbox"/>		
9	Clean coils by brushing, blowing, vacuuming, or pressure washing.	<input checked="" type="checkbox"/>		
10	Check coils for leaking, tightness of fittings.	<input checked="" type="checkbox"/>		
11	Use fin comb to straighten coil fins as needed.	<input checked="" type="checkbox"/>		
12	Check belts for wear and cracks, adjust tension or alignment as applicable. Replace belts when necessary.		<input checked="" type="checkbox"/>	NA
13	Check rigid couplings for alignment on direct drives, and for tightness of assembly	<input checked="" type="checkbox"/>		

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
14	Check freestat for proper temperature setting and operation on units with outside air.	✓		
15	Vacuum interior of unit.	✓		
16	Check filter door for proper gasketing and air leaks. Correct as necessary.	✓		
17	Change the filter as needed with the correct size and type filter.	✓		
18	Insure that drain(s) are clear and running.	✓		
19	Clean up work area.	✓		

Note: The Contractor shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence.

Checklist compiled in accordance with:

- General Services Administration (GSA) Public Building Service. 2012. *Public Buildings Maintenance Standards Final*. October 1.

- Original equipment manufacturers (OEM) documentation for exact or similar assets, which can be located at ([Provide Link to OEM Manual/Asset Library](#))

Additional Notes:

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST **FAN COIL UNIT/ DUCTLESS MINI SPLIT**

ACTIVITY AND BLDG #: Pa051-227MECHANIC
SIGNATURE: DATE: 9-19-19LOCATION: 1st room room 10937 Asset # 5155START TIME: 9:20FINISH TIME: 9:30

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	Review manufacturer's instructions.	✓		
4	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 as needed.	✓		
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.		✓	NA
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.		✓	NA
13	Check rigid couplings for alignment on direct drives, and for tightness of assembly	✓		

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
14	Check frezestat for proper temperature setting and operation on units with outside air.	✓		
15	Vacuum interior of unit.	✓		
16	Check filter door for proper gasketing and air leaks. Correct as necessary.	✓		
17	Change the filter as needed with the correct size and type filter.	✓		
18	Insure that drain(s) are clear and running.	✓		
19	Clean up work area.	✓		

Note: The Contractor shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence.

Checklist compiled in accordance with:

- General Services Administration (GSA) Public Building Service. 2012. *Public Buildings Maintenance Standards Final*. October 1.

- Original equipment manufacturers (OEM) documentation for exact or similar assets, which can be located at ([Provide Link to OEM Manual/ Asses Library](#))

Additional Notes:

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST **OUTDOOR CONDENSING UNIT**

SITE AND BLDG #: Pa051-227MECHANIC
SIGNATURE: DATE: 9-19-19LOCATION/RM #: Outside WO# 10937 ASSET # 5228START TIME: 12FINISH TIME: 12:10

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (if task complete is checked no, provide explanation)
		YES	NO	
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.	<input checked="" type="checkbox"/>		
2	Schedule outage of unit with personnel in area the unit serves.	<input checked="" type="checkbox"/>		
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.	<input checked="" type="checkbox"/>		
4	If disposal of the equipment is required, follow regulations concerning removal of refrigerants and disposal of the unit.	<input checked="" type="checkbox"/>		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	Remove debris from air screen and clean underneath unit.	<input checked="" type="checkbox"/>		
2	Wash coil with coil cleaning solution - Rinse Thoroughly	<input checked="" type="checkbox"/>		
3	Straighten fin tubes with fin comb, as needed.	<input checked="" type="checkbox"/>		
4	Check electrical connections for tightness.	<input checked="" type="checkbox"/>		
5	Check mounting base for tightness.	<input checked="" type="checkbox"/>		
6	Inspect fans for bent blades, unbalance, excessive noise and vibrations.	<input checked="" type="checkbox"/>		
7	Inspect all piping for leaks and tighten loose connections.	<input checked="" type="checkbox"/>		
8	Check wires at condenser electrical fused safety switches for tightness and burned insulation. Repair as necessary.	<input checked="" type="checkbox"/>		
9	Check supply air temperature to ensure unit is operating properly. If possible record room temperature.	<input checked="" type="checkbox"/>		
10	Inspect unit for overall condition and recommend for replacement or other needed repairs.	<input checked="" type="checkbox"/>		
11	Clean up work area.	<input checked="" type="checkbox"/>		

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.

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST DDC CONTROLLER -HVAC Control Panel

SITE AND BLDG #: Pa051-227

MECHANIC SIGNATURE: 

DATE: 9-19-19

LOCATION/RM #: boiler WO# 10937 ASSET # 5256

START TIME: 9:40

FINISH TIME: 9:50

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.	<input checked="" type="checkbox"/>		
2	Read and understand the manufacturer's instructions before making any adjustments or calibrations.	<input checked="" type="checkbox"/>		
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.	<input checked="" type="checkbox"/>		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	Obtain username and password for login. If not available, contact appropriate company manager to obtain access.	<input checked="" type="checkbox"/>		
2	Login into system, check for any alarms currently on system. Make necessary repairs to correct alarms back to normal state.	<input checked="" type="checkbox"/>		
3	Check physical condition of the device. Shut off power to the unit. Vacuum any remaining dust. Turn power back on to the unit.	<input checked="" type="checkbox"/>		
4	Check electrical power connections including incoming line voltage.	<input checked="" type="checkbox"/>		
5	Check all fuses for evidence of heating or weakening.	<input checked="" type="checkbox"/>		
6	Check inputs and outputs on DDC/PLC check input and outputwiring connections for tightness very carefully.	<input checked="" type="checkbox"/>		
7	If applicable, check relays for burnt contact points.	<input checked="" type="checkbox"/>		
8	Check all point labels are correct and up to date, if applicable.	<input checked="" type="checkbox"/>		
9	Check all plug connections in the panel to ensure the plugs are fully seated.	<input checked="" type="checkbox"/>		

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 #, W/O #, photos, and a detailed description of the deficiency.

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST DDC CONTROLLER -HVAC Control Panel

SITE AND BLDG #: Ag051-227

MECHANIC SIGNATURE: 

DATE: 9-19-19

LOCATION/RM #: Boiler WO# 10937 ASSET # 5257

START TIME: 9:40

FINISH TIME: 9:50

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.	<input checked="" type="checkbox"/>		
2	Read and understand the manufacturer's instructions before making any adjustments or calibrations.	<input checked="" type="checkbox"/>		
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.	<input checked="" type="checkbox"/>		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	Obtain username and password for login. If not available, contact appropriate company manager to obtain access.	<input checked="" type="checkbox"/>		
2	Login into system, check for any alarms currently on system. Make necessary repairs to correct alarms back to normal state.	<input checked="" type="checkbox"/>		
3	Check physical condition of the device. Shut off power to the unit. Vacuum any remaining dust. Turn power back on to the unit.	<input checked="" type="checkbox"/>		
4	Check electrical power connections including incoming line voltage.	<input checked="" type="checkbox"/>		
5	Check all fuses for evidence of heating or weakening.	<input checked="" type="checkbox"/>		
6	Check inputs and outputs on DDC/PLC check input and outputwiring connections for tightness very carefully.	<input checked="" type="checkbox"/>		
7	If applicable, check relays for burnt contact points.	<input checked="" type="checkbox"/>		
8	Check all point labels are correct and up to date, if applicable.	<input checked="" type="checkbox"/>		
9	Check all plug connections in the panel to ensure the plugs are fully seated.	<input checked="" type="checkbox"/>		

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.

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST DDC CONTROLLER -HVAC Control Panel

SITE AND BLDG #: PA051-227

MECHANIC
SIGNATURE: 

DATE: 8-19-19

LOCATION/RM #: 203 WO# 10937 ASSET # 5333

START TIME: 9:50

FINISH TIME: 10

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
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.	<input checked="" type="checkbox"/>		
2	Read and understand the manufacturer's instructions before making any adjustments or calibrations.	<input checked="" type="checkbox"/>		
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.	<input checked="" type="checkbox"/>		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	Obtain username and password for login. If not available, contact appropriate company manager to obtain access.	<input checked="" type="checkbox"/>		
2	Login into system, check for any alarms currently on system. Make necessary repairs to correct alarms back to normal state.	<input checked="" type="checkbox"/>		
3	Check physical condition of the device. Shut off power to the unit. Vacuum any remaining dust. Turn power back on to the unit.	<input checked="" type="checkbox"/>		
4	Check electrical power connections including incoming line voltage.	<input checked="" type="checkbox"/>		
5	Check all fuses for evidence of heating or weakening.	<input checked="" type="checkbox"/>		
6	Check inputs and outputs on DDC/PLC check input and output wiring connections for tightness very carefully.	<input checked="" type="checkbox"/>		
7	If applicable, check relays for burnt contact points.	<input checked="" type="checkbox"/>		
8	Check all point labels are correct and up to date, if applicable.	<input checked="" type="checkbox"/>		
9	Check all plug connections in the panel to ensure the plugs are fully seated.	<input checked="" type="checkbox"/>		

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 #, W/O #, photos, and a detailed description of the deficiency.

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST **DDC CONTROLLER -HVAC Control Panel**

SITE AND BLDG #: Pa051-227

MECHANIC SIGNATURE: 

DATE: 9-19-19

LOCATION/RM #: 112 WO# 10937 ASSET # 5334

START TIME: 9:10

FINISH TIME: 10:10

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.	<input checked="" type="checkbox"/>		
2	Read and understand the manufacturer's instructions before making any adjustments or calibrations.	<input checked="" type="checkbox"/>		
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.	<input checked="" type="checkbox"/>		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	Obtain username and password for login. If not available, contact appropriate company manager to obtain access.	<input checked="" type="checkbox"/>		
2	Login into system, check for any alarms currently on system. Make necessary repairs to correct alarms back to normal state.	<input checked="" type="checkbox"/>		
3	Check physical condition of the device. Shut off power to the unit. Vacuum any remaining dust. Turn power back on to the unit.	<input checked="" type="checkbox"/>		
4	Check electrical power connections including incoming line voltage.	<input checked="" type="checkbox"/>		
5	Check all fuses for evidence of heating or weakening.	<input checked="" type="checkbox"/>		
6	Check inputs and outputs on DDC/PLC check input and output wiring connections for tightness very carefully.	<input checked="" type="checkbox"/>		
7	If applicable, check relays for burnt contact points.	<input checked="" type="checkbox"/>		
8	Check all point labels are correct and up to date, if applicable.	<input checked="" type="checkbox"/>		
9	Check all plug connections in the panel to ensure the plugs are fully seated.	<input checked="" type="checkbox"/>		

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.