

PREVENTATIVE MAINTENANCE

FILE # 0150001138

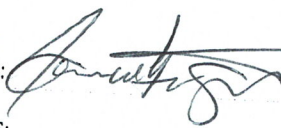
PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST FAN COIL UNIT/ DUCTLESS MINI SPLIT

SITE AND BLDG #:

Pa 042-01

MECHANIC

SIGNATURE:



DATE: 3-12-19

LOCATION/RM #:

102

WO#

7977

ASSET #

5149

START TIME:

FINISH TIME:

| 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. | | | |
| 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. | | | |
| 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. | | | |
| 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 U.E. | | | |
| 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. | | | |

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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.
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 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:

under warranty

mini split

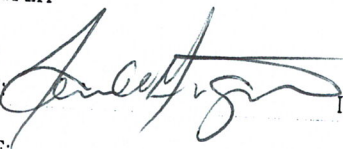
PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST FAN COIL UNIT/ DUCTLESS MINI SPLIT

SITE AND BLDG #:

PA 042-00

MECHANIC

SIGNATURE:



DATE: 3-12-19

LOCATION/RM #: 101

WO# 7877

ASSET # 8150

START TIME:

FINISH TIME:

| 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. | | | |
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| 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. | | | |
| 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. | | | |
| 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. | | | |

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- 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.
- 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 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:

under warranty

mini split

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST FAN COIL UNIT/ DUCTLESS MINI SPLIT

SITE AND BLDG #:

Pr 042-01

MECHANIC
SIGNATURE:

DATE: 3-12-19

LOCATION/RM #: 100

WO# 7977

ASSET # 8151

START TIME:

FINISH TIME:

| 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. | | | |
| 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. | | | |
| 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. | | | |
| 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. | | | |

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- 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.
- 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 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:

Mini split

under warranty

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST FAN COIL UNIT/ DUCTLESS MINI SPLIT

SITE AND BLDG #:

P-042-01

MECHANIC

SIGNATURE:

LOCATION/RM #: 200

WO#

7922

ASSET # 5152

START TIME:

DATE: 3-12-19

FINISH TIME:

| 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. | | | |
| 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. | | | |
| 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. | | | |
| 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. | | | |

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- 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.
- 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 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: General Maintenance Worker

Additional Notes:

under warranty

mini split

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST FAN COIL UNIT/ DUCTLESS MINI SPLIT

SITE AND BLDG #:

P. 042. 61

MECHANIC

SIGNATURE:



DATE: 3-12-19

LOCATION/RM #:

202

WO#

7992

ASSET #

5153

START TIME:

FINISH TIME:

| 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. | | | |
| 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. | | | |
| 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. | | | |
| 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. | | | |

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- 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.
- 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 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:

under warranty

mini split


PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST OUTDOOR CONDENSING UNIT

SITE AND BLDG #:

P-042-01

MECHANIC

SIGNATURE:



DATE:

3-12-19

LOCATION/RM #:

OUTSIDE

WO#

7977

ASSET #

5824

START TIME:

FINISH TIME:

| CHECK POINT | CHECK POINT DESCRIPTION | TASK COMPLETED | | NOTES/ACTIONS (IF TASK COMPLETED, 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 description of the deficiency.

To be performed by: HVAC Technician

Additional Notes:

under warranty

min split

CU

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST OUTDOOR CONDENSING UNIT

SITE AND BLDG #:

P042-01

MECHANIC

SIGNATURE:

DATE:

3-2-19

LOCATION/RM #:

G-TS-12

WO# 7927

ASSET # 5225

START TIME:

FINISH TIME:

| CHECK POINT | DESCRIPTION | TASK COMPLETED | | NOTES/ACTIONS (IF TASK COMPLETED DISCLOSED NO CORRECTIVE ACTION) |
|---|--|----------------|----|---|
| | | 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 description of the deficiency.

To be performed by: HVAC Technician

Additional Notes:

Mini split CU

under warranty

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST OUTDOOR CONDENSING UNIT

SITE AND BLDG #:

P-092-07

MECHANIC

SIGNATURE:

DATE: 3-12-19

LOCATION/RM #:

OUTSUN

WO# 7977

ASSET # 1225

START TIME:

FINISH TIME:

| CHECK POINT | CHECKPOINT DESCRIPTION | BASIC COMPLIANCE | | NOTES/ACTIONS (IF ASSESSMENT 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. | | | |

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To be performed by: HVAC Technician

Additional Notes:

under warranty

mini split ch