



A/C Unit Start-up Report

Applicable to units: ControlAIR Series PW, SW, CW, TW, CA, SA, TA, and HW
PreciseAIR Series PPW, PCA, and PHW
CoolAIR Series BW, BA, and BHW

| | |
|---------------------------|--|
| Start-up date | |
| Equipment serial number | |
| Equipment model number | |
| Customer Name / Location | |
| Customer PO number | |
| Report by (name and date) | |

This report must be completely filled out during start-up and returned to AIR. Failure to return this sheet may limit or cause delays in warranty coverage. Items not applicable should be marked "N/A".

Check the boxes below to confirm that the item has been checked/executed.

Inspection

- The unit has been visually inspected and any damage listed under the Special Notes section.

Mechanical

- Air discharge ducts are installed and secured.
- The blower(s) can be operated (no restrictions in the duct or air supply system). Duct work is complete and all dampers are open.
- Air filters are in place (where applicable).
- Condensate drain is piped.

Direct expansion, water cooled systems:

ControlAIR Series PW, SW, CW, TW, PreciseAIR Series PPW, and CoolAIR Series BW

- Condenser water connections are made and tested against leaks.
- Condenser water flow is available (valves are open and flow is not restricted).

Direct expansion, split systems:

ControlAIR Series SW, CW, TW, CA, SA, TA, PreciseAIR Series PCA, and CoolAIR Series BA

- The condensing unit and air handler are properly piped.
- The refrigeration pipes are supported.

Refrigerant lines between condensing unit and air handler:

- Pressure tested against leaks.
- Lines were evacuated.
- System (including field installed lines) is charged with refrigerant.
- The suction line is insulated.

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Electrical

- Main control panel power wiring connections are terminated.
- All devices are wired per electrical drawings.
- Electrical panel is free of debris (check on top of contactors, fuses, PLC, VFD's, power supply, etc.).
- Check for loose power connections, contactors, motor protectors, distribution blocks, etc.

All instruments are installed properly and wired per the electrical drawings:

- Electric actuated inline control valves.
- Room mounted temperature/humidity sensors.
- Duct mounted temperature/humidity sensors.
- Smoke detector wire to the unit panel and/or the Customer's fire alarm panel (where applicable).

Check prior to start

- All manual valves are open.
- Main panel power (Volts): L1-L2: _____ L1-L3: _____ L2-L3: _____

Blower #1

- Rotation ok.
- Pulley alignment
- Belt tensioning prior to running: _____ (verify against blower sticker)
- Blower clean of debris
- Drive and Pulley set screws are tight
- VFD high limit set to the design fan rpm
- RPM: _____

Blower #2 (if applicable)

- Rotation ok.
- Pulley alignment
- Belt tensioning prior to running: _____ (verify against blower sticker)
- Blower clean of debris
- Drive and Pulley set screws are tight
- VFD high limit set to the design fan rpm
- RPM: _____

Direct expansion:

ControlAIR Series PW, SW, CW, TW, CA, SA, TA, PreciseAIR Series PPW, PCA and CoolAIR Series BW, BA

- Compressor oil level ok to start compressor. Oil level sight glass: _____ %

Direct expansion, water cooled systems:

ControlAIR Series PW, SW, CW, TW, PreciseAIR PPW and CoolAIR Series BW

- Water cooled condenser supply water: Pressure: _____ Temperature: _____

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Direct expansion, air cooled systems:

ControlAIR Series CA, SA, TA, PreciseAIR Series PCA and CoolAIR Series BA

- Panel power (Volts): L1-L2: _____ L1-L3: _____ L2-L3: _____
- Ambient air where air cooled condenser is located: : _____ °F
- Fans rotation ok.

Duct heater (if applicable):

- Panel power (Volts): L1-L2: _____ L1-L3: _____ L2-L3: _____

Check after 10 minutes running:

- Refrigerant/water pipes vibration is acceptable.
- Sheet metal vibration is non-existent or acceptable.

Blower #1:

- Amps L1: _____ L2: _____ L3: _____ Overload setting: _____ A

Blower #2 (if applicable):

- Amps L1: _____ L2: _____ L3: _____ Overload setting: _____ A

Direct expansion:

ControlAIR Series PW, SW, CW, TW, CA, SA, TA, PreciseAIR Series PPW, PCA and CoolAIR Series BW, BA

- Compressor oil level remains at acceptable levels. Oil level sight glass: _____ %
- Setpoints-> Temperature: _____ RH: _____
- Total System CFM: _____

| Time | CMP 1 Load | CMP 2 Load | Temp. entering coil | Temp. leaving coil | Room Temp. | Room RH | CMP 1 LP | CMP 1 HP | CMP 2 LP | CMP 2 HP |
|------|------------|------------|---------------------|--------------------|------------|---------|----------|----------|----------|----------|
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With compressors running at 100%:

CMP #1:

- Amps L1: _____ L2: _____ L3: _____
- Overload setting: _____ A
- Suction pressure: _____ psi
- Suction temperature: _____ psi
- Discharge pressure: _____ psi
- Discharge temperature: _____ °F
- Calculated superheat: _____ °F

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CMP #2 (if applicable):

- Amps L1: _____ L2: _____ L3: _____
- Overload setting: _____ A
- Suction pressure: _____ psi
- Suction temperature: _____ °F
- Discharge pressure: _____ psi
- Discharge temperature: _____ °F
- Calculated superheat: _____ °F

Air handlers with chilled water:

ControlAIR Series HW, PreciseAIR Series PHW and CoolAIR Series BHW

- Setpoints-> Temperature: _____ RH: _____
- Total System CFM: _____
- Water entering coil temperature: _____ °F

| Time | Water Valve Open % | VFD Hz (if used) | Temp. entering coil | Temp. leaving coil | Room Temp. | Room RH |
|------|--------------------|------------------|---------------------|--------------------|------------|---------|
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- Heater is tested and working properly (if applicable). With heater at 100%, gather the data:
 Heater Power: _____ °F
 Temperature after the coil: _____ °F
 Temperature after the heater: _____ °F
- Blower speed is ok (check if it is carrying condensation water from the coil). Adjust if needed.

Check before leaving the site

- System was balanced for airflow.
- Belt tensioning after running for 24h (verify against blower sticker)
 Blower 1: _____
 Blower 2: _____
- All valves caps (including Schrader valves) are in place.
- All doors are in place and secure.



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Direct expansion:

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- The time between same compressor starts is set to the correct value.
- Communicate bearing lubrication and belt tensioning procedures with maintenance.

Person's name that you communicated with: _____

Special notes

Please write down any considerations and/or special notes and problems encountered during start-up.

- Was the unit running as expected?
- Is there any unfinished work?
- Does AIR have to go back and finish something?
- Was the system balanced for airflow?
- Which problems did you encounter (sensor, wiring, power, mechanical damage, leaks)?

USE AN EXTRA PAGE IF THE SPACE BELOW IS NOT SUFFICIENT AND ATTACH TO THIS REPORT.