

Start-up Data Sheet

All installation, start-up, and service of AboveAir Technologies' equipment must be performed by a qualified technician. The technician is responsible for verifying that the unit is properly installed and operating.

Email the completed checklist to productsupport@aboveair.com.

General Information

Customer Name:

City/State/Zip:

Address:

Project Name:

AHU/Evaporator Information

Record the nameplate information listed below:

AHU/Evaporator Section Serial Number:

AHU/Evaporator Section Model Number:

Electrical (Volts/Frequency/Phase):

Dual Power? ☐ Yes ☐ No

Check the supply voltage to the unit:

Source 1

Source 2 (if applicable)

L1-L2 (Volts):

L1-L2 (Volts):

L2-L3 (Volts):

L2-L3 (Volts):

L3-L1 (Volts):

L3-L1 (Volts):



Check the control voltage for the unit:

Transformer 1 (Volts): ☐ AC ☐ DC

Transformer 2 (Volts): ☐ AC ☐ DC

Transformer 3 (Volts): ☐ AC ☐ DC

Transformer 4 (Volts): ☐ AC ☐ DC

Transformer 5 (Volts): ☐ AC ☐ DC

Check the control software version:

Software Version:

Software Date:

Condenser/Condensing Unit Nameplate Information

(if applicable)

Record the nameplate information listed below:

Condenser Serial Number:

Condenser Model Number:

Electrical (Volts/Frequency/Phase):

Check the supply voltage to the unit:

L1-L2 (Volts):

L2-L3 (Volts):

L3-L1 (Volts):

Check the control voltage for the unit. If there is no local transformer, check the control voltage interlocked from the AHU/Evaporator Section:

Transformer 1 (Volts): ☐ AC ☐ DC

Transformer 2 (Volts): ☐ AC ☐ DC

Transformer 3 (Volts): ☐ AC ☐ DC



Supply Fan Information

Quantity of Fans:

Electrical (Volts/Frequency/Phase):

Fan Power: ☐ kW ☐ HP

Fan FLA:

Note: Adjust the air proving and damper delays as necessary to avoid air proving alarm failures.

Check the amp draw for each fan:

Supply Fan 1

L1 (Amps):

L2 (Amps):

L3 (Amps):

Supply Fan 2

L1 (Amps):

L2 (Amps):

L3 (Amps):

Supply Fan 3

L1 (Amps):

L2 (Amps):

L3 (Amps):

Verify condensate drain and condensate pump (if applicable) operates properly by adding water to the drain pan:

☐ Drain pan empties properly

☐ Condensate Pump (if applicable) operates

Cooling Information

Cooling Type: ☐ DX/Compressor ☐ Chilled Water ☐ Dual Cool

Refrigerant Type:

Enable compressor operation and allow the compressor to operate for at least 10 minutes before checking operation. Digital scroll compressors must be operated at 100% output and two stage compressors must be operated at maximum output.

Note: for water-/glycol-cooled, adjust the minimum valve position and valve delays as necessary for proper compressor operation.





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Circuit #1

Circuit #2

Suction Pressure (psig):

Suction Pressure (psig):

Suction Temperature (°F):

Suction Temperature (°F):

Head Pressure (psig):

Head Pressure (psig):

Liquid Temperature (°F):

Liquid Temperature (°F):

Calculate the subcooling and superheat. Add refrigerant to the system to maintain 8°F-15°F of subcooling. Superheat will typically be 8°F-20°F, depending on the space load, for systems utilizing a TEV. Systems with EEVs utilize a controller set point.

Circuit #1

Circuit #2

Subcooling (°F):

Subcooling (°F):

Superheat (°F):

Superheat (°F):

Record the final refrigerant charge:

Circuit #1 (lbs.):

Circuit #2 (lbs.):

Note: if the total system charge is over 20 pounds, add 1 oz of POE oil for every 5 pounds of refrigerant over this amount.

Circuit #1 (oz):

Circuit #2 (oz):





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Check the amp draw for each compressor. Note that the amp draws must be recorded at 100% output:

Circuit 1, Compressor 1

L1 (Amps):

L2 (Amps):

L3 (Amps):

Circuit 1, Compressor 2

L1 (Amps):

L2 (Amps):

L3 (Amps):

Circuit 2, Compressor 1

L1 (Amps):

L2 (Amps):

L3 (Amps):

Circuit 2, Compressor 2

L1 (Amps):

L2 (Amps):

L3 (Amps):

Check the amp draw for each crankcase heater:

Circuit 1, Compressor 1 (Amps):

Circuit 1, Compressor 2 (Amps):

Circuit 2, Compressor 1 (Amps):

Circuit 2, Compressor 2 (Amps):

Check the condenser water/glycol temperatures with all compressor stages operating:

☐ Condenser Water/Glycol Valve Actuates

EWT (°F):

LWT (°F):

Check the chilled water/dual cool/freecool water temperatures. Ensure that the cooling output is 100%:

☐ Chilled Water/Dual Cool/Freecool Valve Actuates

EWT (°F):

LWT (°F):



Heater Information

Heating Type: ☐ N/A ☐ Electric ☐ Hot Water ☐ Hot Gas Reheat

Heater Stages (electric heat only):

Check the amp draw for each heat stage. If one or more stage has an SCR controller, ensure that the heater output is 100%:

Heat Stage 1

L1 (Amps):

L2 (Amps):

L3 (Amps):

Heat Stage 3

L1 (Amps):

L2 (Amps):

L3 (Amps):

Heat Stage 2

L1 (Amps):

L2 (Amps):

L3 (Amps):

Check the hot water temperatures. Ensure that the heater output is 100%:

☐ Hot Water Valve Actuates

EWT (°F):

LWT (°F):

Check hot gas reheat valve operation. Ensure that the heater output is 100%. The system head pressure may fluctuate, but should not fall below 240 psig:

☐ Hot Gas Reheat Valve Actuates ☐ Head Pressure Remain in Range



Humidifier Information

Humidifier Type: ☐ N/A ☐ Staged ☐ Modulating

Verify humidifier fill and drain operation:

☐ Humidifier Fills ☐ Humidifier Drains

Check amp draw for the humidifier. If the humidifier is modulating, ensure that the humidifier output is 100%:

Humidifier

L1 (Amps):

L2 (Amps):

L3 (Amps):



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Condenser Fan Information

Quantity of Fans:

Electrical (Volts/Frequency/Phase):

Fan Power: ☐ kW ☐ HP

Fan FLA:

Check the amp draw for each fan:

Condenser Fan 1

L1 (Amps):

L2 (Amps):

L3 (Amps):

Condenser Fan 2

L1 (Amps):

L2 (Amps):

L3 (Amps):

Condenser Fan 3

L1 (Amps):

L2 (Amps):

L3 (Amps):

Condenser Fan 4

L1 (Amps):

L2 (Amps):

L3 (Amps):

Condenser Fan 5

L1 (Amps):

L2 (Amps):

L3 (Amps):

Condenser Fan 6

L1 (Amps):

L2 (Amps):

L3 (Amps):

Condenser Fan 7

L1 (Amps):

L2 (Amps):

L3 (Amps):

Condenser Fan 8

L1 (Amps):

L2 (Amps):

L3 (Amps):





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Your start-up is now complete, and the system is ready to be put into service. Be sure to email this completed form to productsupport@aboveair.com.

Technician Name:

Date:

Company:

Phone:

E-mail:



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