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: Click or tap here to enter text.

Address: Click or tap here to enter text.

City/State/Zip: Click or tap here to enter text.

Project Name: Click or tap here to enter text.

AHU/Evaporator Information

***Record the nameplate information listed below:***

AHU/Evaporator Section Serial Number: Click or tap here to enter text.

AHU/Evaporator Section Model Number: Click or tap here to enter text.

Electrical (Volts/Frequency/Phase): Click or tap here to enter text.

Dual Power? [ ]  Yes [ ]  No

***Check the supply voltage to the unit:***

Source 1

L1-L2 (Volts): Click or tap here to enter text.

L2-L3 (Volts): Click or tap here to enter text.

L3-L1 (Volts): Click or tap here to enter text.

Source 2 (if applicable)

L1-L2 (Volts): Click or tap here to enter text.

L2-L3 (Volts): Click or tap here to enter text.

L3-L1 (Volts): Click or tap here to enter text.

***Check the control voltage for the unit:***

Transformer 1 (Volts): Click or tap here to enter text. [ ]  AC [ ]  DC

Transformer 2 (Volts): Click or tap here to enter text. [ ]  AC [ ]  DC

Transformer 3 (Volts): Click or tap here to enter text. [ ]  AC [ ]  DC

Transformer 4 (Volts): Click or tap here to enter text. [ ]  AC [ ]  DC

Transformer 5 (Volts): Click or tap here to enter text. [ ]  AC [ ]  DC

***Check the control software version:***

Software Version: Click or tap here to enter text. Software Date: Click or tap here to enter text.

Condenser/Condensing Unit Nameplate Information

*(if applicable)*

***Record the nameplate information listed below:***

Condenser Serial Number: Click or tap here to enter text.

Condenser Model Number: Click or tap here to enter text.

Electrical (Volts/Frequency/Phase): Click or tap here to enter text.

***Check the supply voltage to the unit:***

L1-L2 (Volts): Click or tap here to enter text.

L2-L3 (Volts): Click or tap here to enter text.

L3-L1 (Volts): Click or tap here to enter text.

***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): Click or tap here to enter text. [ ]  AC [ ]  DC

Transformer 2 (Volts): Click or tap here to enter text. [ ]  AC [ ]  DC

Transformer 3 (Volts): Click or tap here to enter text. [ ]  AC [ ]  DC

Supply Fan Information

Quantity of Fans: Click or tap here to enter text.

Electrical (Volts/Frequency/Phase): Click or tap here to enter text.

Fan Power: Click or tap here to enter text. [ ]  kW [ ]  HP

Fan FLA: Click or tap here to enter text.

***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): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text. Supply Fan 2

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text. Supply Fan 3

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text.

***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: Click or tap here to enter text.

***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.***

Circuit #1

Suction Pressure (psig): Click or tap here to enter text.

Suction Temperature (°F): Click or tap here to enter text.

Head Pressure (psig): Click or tap here to enter text.

Liquid Temperature (°F): Click or tap here to enter text.

Circuit #2

Suction Pressure (psig): Click or tap here to enter text.

Suction Temperature (°F): Click or tap here to enter text.

Head Pressure (psig): Click or tap here to enter text.

Liquid Temperature (°F): Click or tap here to enter text.

***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

Subcooling (°F): Click or tap here to enter text.

Superheat (°F): Click or tap here to enter text.

Circuit #2

Subcooling (°F): Click or tap here to enter text.

Superheat (°F): Click or tap here to enter text.

***Record the final refrigerant charge:***

Circuit #1 (lbs.): Click or tap here to enter text.

Circuit #2 (lbs.): Click or tap here to enter text.

***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): Click or tap here to enter text.

Circuit #2 (oz): Click or tap here to enter text.

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

Circuit 1, Compressor 1

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text.

Circuit 1, Compressor 2

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text.

Circuit 2, Compressor 1

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text.

Circuit 2, Compressor 2

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text.

***Check the amp draw for each crankcase heater:***

Circuit 1, Compressor 1 (Amps): Click or tap here to enter text.

Circuit 1, Compressor 2 (Amps): Click or tap here to enter text.

Circuit 2, Compressor 1 (Amps): Click or tap here to enter text.

Circuit 2, Compressor 2 (Amps): Click or tap here to enter text.

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

[ ]  Condenser Water/Glycol Valve Actuates

EWT (°F): Click or tap here to enter text. LWT (°F): Click or tap here to enter text.

***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): Click or tap here to enter text. LWT (°F): Click or tap here to enter text.

Heater Information

Heating Type: [ ]  N/A [ ]  Electric [ ]  Hot Water [ ]  Hot Gas Reheat

Heater Stages (electric heat only): Click or tap here to enter text.

***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): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text.

Heat Stage 2

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text. Heat Stage 3

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text.

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

[ ]  Hot Water Valve Actuates

EWT (°F): Click or tap here to enter text. LWT (°F): Click or tap here to enter text.

***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): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text.

Condenser Fan Information

Quantity of Fans: Click or tap here to enter text.

Electrical (Volts/Frequency/Phase): Click or tap here to enter text.

Fan Power: Click or tap here to enter text. [ ]  kW [ ]  HP

Fan FLA: Click or tap here to enter text.

***Check the amp draw for each fan:***

Condenser Fan 1

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text. Condenser Fan 2

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text. Condenser Fan 3

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text. Condenser Fan 4

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text. Condenser Fan 5

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text. Condenser Fan 6

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text. Condenser Fan 7

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text. Condenser Fan 8

L1 (Amps): Click or tap here to enter text.

L2 (Amps): Click or tap here to enter text.

L3 (Amps): Click or tap here to enter text.

**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: Click or tap here to enter text.

Date: Click or tap here to enter text.

Company: Click or tap here to enter text.

Phone: Click or tap here to enter text.

E-mail: Click or tap here to enter text.