



Installation, Operation, and Maintenance Manual

2026



RQ Series (2-5 ton) Startup Forms

Packaged Rooftop Units, Heat Pumps, and Outdoor Air Handling Units

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1. RQ SERIES START-UP FORMS

Job Name: _____ Date: _____
Address: _____
Model Number: _____
Serial Number: _____ Tag: _____
Startup Contractor: _____
Address: _____
Phone: _____

1.1. Pre-Startup Checklist

The installing contractor must verify the following items.

1. Is there any visible shipping damage?	<input type="checkbox"/> Yes
2. Is the unit level?	<input type="checkbox"/> Yes
3. Are the unit clearances adequate for service and operation?	<input type="checkbox"/> Yes
4. Do all access doors open freely, and are the handles operational?	<input type="checkbox"/> Yes
5. Have all of the shipping braces been removed?	<input type="checkbox"/> Yes
6. Have all of the electrical connections been tested for tightness?	<input type="checkbox"/> Yes
7. Has all gas heat piping been checked for leaks?	<input type="checkbox"/> Yes
8. Does the electrical service correspond to the unit nameplate?	<input type="checkbox"/> Yes
9. Has the transformer tap been checked for the 208/230V units?	<input type="checkbox"/> Yes
10. Has adequate overcurrent protection been installed to match the requirements listed on the unit nameplate?	<input type="checkbox"/> Yes
11. Have all set screws on the fans been tightened?	<input type="checkbox"/> Yes
12. Do all of the fans rotate freely?	<input type="checkbox"/> Yes
13. Does the field water piping to the unit appear to be correct per design parameters?	<input type="checkbox"/> Yes
14. Is all of the copper tubing isolated so it does not rub?	<input type="checkbox"/> Yes
15. Have the damper assemblies been inspected?	<input type="checkbox"/> Yes
16. Are the air filters installed with proper orientation?	<input type="checkbox"/> Yes
17. Have the condensate drain and p-trap been connected?	<input type="checkbox"/> Yes
18. Is the actual refrigerant charge of the largest circuit in accordance with the required conditioned floor area according to Table 16?	<input type="checkbox"/> Yes
19. Are the ventilation and exhaust openings unobstructed?	<input type="checkbox"/> Yes
20. Are the markings, decals, and warnings on the unit clearly visible?	<input type="checkbox"/> Yes
21. Have all of the damaged or illegible markings and warnings been replaced?	<input type="checkbox"/> Yes

1.2. A2I Refrigerant Detection System (RDS) Pre-Start Checklist

1. Does each port (sensors 1-3) have a male connector plugged into both the Cabinet and Airstream connections on the mitigation board?	<input type="checkbox"/> Yes
2. Do the compressor and gas heat operation shut off when the cabinet board sensor trips?	<input type="checkbox"/> Yes
3. Does normal unit operation commence, except for the compressor and gas heater, after the cabinet board sensor trips?	<input type="checkbox"/> Yes
4. Does the compressor shut off and the fan stay on when the Airstream board sensor trips?	<input type="checkbox"/> Yes
5. Does the non-compressor or gas heating/cooling stay on when both boards trip? (electric heater stays on)	<input type="checkbox"/> Yes
6. When the A2L airstream alarm is activated, do the supply fans start, VAV boxes open, and compressors stop?	<input type="checkbox"/> Yes

1.3. Ambient Temperature

Ambient Temperature	
Ambient Dry Bulb Temperature _____ °C/°F	Ambient Wet Bulb Temperature _____ °C/°F

1.4. Supply Fan Assembly

Alignment <input type="checkbox"/>		Check Rotation <input type="checkbox"/>		Nameplate Amps _____	
Number	Hp	L1 Volts/Amps	L2 Volts/Amps	L3 Volts/Amps	
1					
Band Size _____	VAV Controls _____				
VFD Frequency _____					

1.5. Energy Recovery Wheel Assembly

Wheel(s) Spin Freely <input type="checkbox"/>		Check Rotation <input type="checkbox"/>		FLA _____	
Number	Hp	L1 Volts/Amps	L2 Volts/Amps	L3 Volts/Amps	
1					

1.6. Power Exhaust Fan Assembly

Alignment <input type="checkbox"/>		Check Rotation <input type="checkbox"/>		Nameplate Amps _____	
Number	Hp	L1 Volts/Amps	L2 Volts/Amps	L3 Volts/Amps	
1					
Band Size _____					
VFD Frequency _____					

1.7. Outside Air/Economizer Dampers

Operation Check <input type="checkbox"/>
Damper Actuator Type:
Economizer Changeover Type and Operations: _____
Damper Wiring Check <input type="checkbox"/>
Gears Check <input type="checkbox"/>

1.8. Unit Configuration

Water- Cooled Condenser <input type="checkbox"/>	Air Cooled Condenser <input type="checkbox"/>
No Water Leaks <input type="checkbox"/>	Evaporative Condenser <input type="checkbox"/>
Condenser Safety Check <input type="checkbox"/>	
Water Flow _____ GPM	
Water Inlet Temperature _____ °F	
Water Outlet Temperature _____ °F	

1.9. Compressors/DX Cooling

Number	L1 Volts/Amps	L2 Volts/Amps	L3 Volts/Amps	Head Pressure PSIG	Suction Pressure PSIG
1 - Full Capacity					
2 - Reduced Capacity					

1.10. Refrigeration Systems

Refrigeration System 1 Full Capacity - Cooling Mode					
	Pressure	Saturated Temperature	Line Temperature	Sub-cooling	Superheat
Discharge				N/A	N/A
Suction				N/A	
Liquid					N/A

Refrigeration System 1 Reduced Capacity - Cooling Mode					
	Pressure	Saturated Temperature	Line Temperature	Sub-cooling	Superheat
Discharge				N/A	N/A
Suction				N/A	
Liquid					N/A

Refrigeration System 1 Full Capacity - Heating Mode (Heat Pump Only)					
	Pressure	Saturated Temperature	Line Temperature	Sub-cooling	Superheat
Discharge				N/A	N/A
Suction				N/A	
Liquid					N/A

Refrigeration System 1 Reduced Capacity - Heating Mode (Heat Pump Only)					
	Pressure	Saturated Temperature	Line Temperature	Sub-cooling	Superheat
Discharge				N/A	N/A
Suction				N/A	
Liquid					N/A

1.11. Air-Cooled Condenser Fans

Alignment <input type="checkbox"/>		Check Rotation <input type="checkbox"/>		Nameplate Amps _____	
Number	Hp	L1 Volts/Amps	L2 Volts/Amps	L3 Volts/Amps	
1					

1.12. Water/Glycol System

1. Has the entire system been flushed and pressure checked?	<input type="checkbox"/> Yes
2. Has the entire system been filled with fluid?	<input type="checkbox"/> Yes
3. Has air been bled from the heat exchangers and piping?	<input type="checkbox"/> Yes
4. If glycol is used, is it the proper type and concentration (N/A if water)?	<input type="checkbox"/> Yes
5. Is there a minimum load of 50% of the design load?	<input type="checkbox"/> Yes
6. Has the water piping been insulated?	<input type="checkbox"/> Yes
7. What is the freezing point of the glycol (N/A if water)? _____	<input type="checkbox"/> Yes

1.13. Gas Heating

Natural Gas <input type="checkbox"/>		Propane <input type="checkbox"/>	Purge Air from Lines <input type="checkbox"/>	Verify Pilot Spark <input type="checkbox"/>
Stage	Manifold Pressure (w.c.) inlet		Manifold Pressure (w.c.) outlet	
1				
2				
3				
4				

1.14. Electric Heating

Stages _____	
Limit Lockout <input type="checkbox"/>	
Stage	Volts/Amps
1	
2	
3	
4	

1.15. Electric Preheating

Stages _____	
Limit Lockout <input type="checkbox"/>	
Stage	Volts/Amps
1	
2	
3	
4	

1.16. Additional Findings

1.17. Signature

By signing this form, you verify that all of the information contained is correct and filled out to the best of your ability.

Name:	
Title:	
Rep/Contractor:	
Signature:	Date/Time:

2. APPENDIX C - MAINTENANCE LOGS

This log must be kept with the unit. It is the responsibility of the owner and/or maintenance/service contractor to document any service, repair, or adjustments. AAON Service and Warranty Departments are available to advise and provide phone help for proper operation and replacement parts. The responsibility for proper start-up, maintenance, and servicing of the equipment falls to the owner and a qualified licensed technician.

AAON E-COATED COIL MAINTENANCE RECORD

Installation Site
Unit Model #
Unit Serial #

Installation Date Unit Location Customer

The following remaining agents have been announced for use on AAC/ON E-coated coils in various mold conditions:

RECOMMENDED CHLORIDE REMOVER
Rectorseal
2601 Spennwick Drive, Houston, Texas 77055
(P): 713-263-8001

CLEANING AGENT	RESELLER	PART NUMBER
GulfClean™ Coil Cleaner or Enviro-Coil Cleaner	RectorSeal 2601 Spennwick Drive, Houston, Texas 77055 (P): 713-263-8001	G074480 / 80406 or V82540
GulfClean Salt Reducer™		G074490 / 80408



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