



Installation, Operation, and Maintenance Manual **2026**



RQ Series (2-5 ton) Startup Forms

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

The information in this document is subject to change. Printed versions may not reflect the most current updates. Please ensure that you have the most recent version prior to referencing any information within the document. Visit www.aaon.com to confirm your version is up to date, or to download the most recent version.

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) Sprin 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"/>	Aux. Limit Lockout <input type="checkbox"/>
Stage	Volts/Amps
1	
2	
3	
4	

1.15. Electric Preheating

Stages _____	
Limit Lockout <input type="checkbox"/>	Aux. 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.

[illegible]

2.1. Maintenance Log (E-Coated Coil)

AAON E-COATED COIL MAINTENANCE RECORD

Installation Site	_____	Installation Date	_____
Unit Model #	_____	Unit Location	_____
Unit Serial #	_____	Customer	_____

Year 20____	Ambient Temp (°F)	Surface Debris Removed	Coil Cleaned	Approved Cleaner Used	Potable Water Backwash Rinse	Potable Water Frontwash Rinse	Chlorides Removed	Comments
Jan								
Feb								
Mar								
Apr								
May								
Jun								
Jul								
Aug								
Sep								
Oct								
Nov								
Dec								

The following cleaning agents have been approved for use on AAON E-Coated Coils to remove mold, mildew, dust, soot, greasy residue, lint and similar particulate without harming the coated surfaces.

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

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



AAON

2425 South Yukon Ave.

Tulsa, OK 74107-2728

Phone: 918-583-2266

Fax: 918-583-6094

www.AAON.com

RQ Series

Installation, Operation, & Maintenance

G164820 · Rev. A · 20251022

It is the intent of AAON to provide accurate and current product information. However, in the interest of product improvement, AAON reserves the right to change pricing, specifications, and/or design of its product without notice, obligation, or liability.

Copyright © AAON, all rights reserved throughout the world.

AAON® and AAONAIRE® are registered trademarks of AAON, Inc., Tulsa, OK.