



# Installation, Operation, and Maintenance Manual 2026



## SB SERIES (3-18 ton)Startup Forms

### Vertical Self-Contained Units

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# 1. SB SERIES STARTUP FORMS

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

## 1.1. Pre-Startup Checklist

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 shipping braces been removed?	<input type="checkbox"/> Yes
6. Have all 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. On 208/230V units, has transformer tap been checked?	<input type="checkbox"/> Yes
10. Has overcurrent protection been installed to match the unit nameplate requirement?	<input type="checkbox"/> Yes
11. Have all set screws on the fans been tightened?	<input type="checkbox"/> Yes
12. Do all 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 copper tubing isolated so that it does not rub?	<input type="checkbox"/> Yes
15. Have the damper assemblies been inspected?	<input type="checkbox"/> Yes
16. Are air filters installed with proper orientation?	<input type="checkbox"/> Yes
17. Have 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 ventilation and exhaust openings unobstructed?	<input type="checkbox"/> Yes
20. Are markings, decals, and warnings on the unit clearly visible?	<input type="checkbox"/> Yes
21. Are all damaged or illegible markings and warnings replaced?	<input type="checkbox"/> Yes

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

1. Does each port (sensor 1-3) have a male connector plugged into both the Cabinet and Airstream connection 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. Normal unit operation commences 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. 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 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. Voltage

L1	L2	L3

L1-Ground	L2-Ground	L3-Ground

## 1.5. 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					
2					
Band Size_____			VAV Controls _____		
VFD Frequency _____					

## 1.6. Compressors/DX Cooling

Number	L1 Volts/Amps	L2 Volts/Amps	L3 Volts/Amps	Head Pressure PSIG	Suction Pressure PSIG
1					

## 1.7. Refrigeration Systems Cooling Mode

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

## 1.8. Refrigeration Systems Heating Mode

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

## 1.9. Unit Configuration

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

## 1.10. 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

## 1.11. Mixing Box Dampers

Aux. Limit Lockout <input type="checkbox"/>	Aux. Limit Lockout <input type="checkbox"/>	Aux. Limit Lockout <input type="checkbox"/>
Damper Actuator Type: _____		
Economizer Changeover Type and Operations: _____		

## 1.12. Electric Heating

Stages _____	
Limit Lockout <input type="checkbox"/>	Aux. Limit Lockout <input type="checkbox"/>
Stage	Volts/Amps
1	
2	
3	
4	
5	
6	
7	
8	

### 1.13. Additional Findings


### 1.14. Signature

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

<b>Name:</b>		
<b>Title:</b>		
<b>Rep/Contractor:</b>		
<b>Signature:</b> _____	<b>Date/Time:</b> _____	

## 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	RECOMMENDED CHLORIDE REMOVER
GulfClean™ Coil Cleaner or Enviro-Coil Cleaner	Rectorseal 2601 Spenwick Drive, Houston, Texas 77055 (P): 713-263-8001	G074480 / 80406 or V82540	Rectorseal 2601 Spenwick Drive, Houston, Texas 77055 (P): 713-263-8001
GulfClean Salt Reducer™	" "	G074490 / 80408	





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SB Series

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