



# 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

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

## 1.12. Electric Heating

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

|                 |            |
|-----------------|------------|
| 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 cleaning agents have been announced for use on AACN F-Coated Coils to remove mold mildew dust and bacteria and similar particulates without harming the coated surfaces

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

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



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