



12. CF SERIES START-UP FORMS

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

12.1. Pre-Startup Checklist

| 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 10 and Table 11? | <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 |



12.2.A2L 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 |

12.3.Ambient Temperature

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

12.4.Voltage

| L1-L2 | L2-L3 | L1-L3 |
|-------|-------|-------|
| | | |

| L1-L2 | L2-L3 | L1-L3 |
|-------|-------|-------|
| | | |



12.5.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 |

| Refrigeration System 2 - Cooling Mode | | | | | |
|---------------------------------------|----------|-----------------------|------------------|-------------|-----------|
| | Pressure | Saturated Temperature | Line Temperature | Sub-cooling | Superheat |
| Discharge | | | | N/A | N/A |
| Suction | | | | N/A | |
| Liquid | | | | | N/A |

| Refrigeration System 3 - Cooling Mode | | | | | |
|---------------------------------------|----------|-----------------------|------------------|-------------|-----------|
| | Pressure | Saturated Temperature | Line Temperature | Sub-cooling | Superheat |
| Discharge | | | | N/A | N/A |
| Suction | | | | N/A | |
| Liquid | | | | | N/A |

| Refrigeration System 4 - Cooling Mode | | | | | |
|---------------------------------------|----------|-----------------------|------------------|-------------|-----------|
| | Pressure | Saturated Temperature | Line Temperature | Sub-cooling | Superheat |
| Discharge | | | | N/A | N/A |
| Suction | | | | N/A | |
| Liquid | | | | | N/A |



12.6.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 |

| Refrigeration System 2 - 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 3 - 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 4 - Heating Mode (Heat Pump Only) | | | | | |
|--|----------|-----------------------|------------------|-------------|-----------|
| | Pressure | Saturated Temperature | Line Temperature | Sub-cooling | Superheat |
| Discharge | | | | N/A | N/A |
| Suction | | | | N/A | |
| Liquid | | | | | N/A |



12.7. 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 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

12.8. Compressors/DX Cooling

| Number | L1 Volts/Amps | L2 Volts/Amps | L3 Volts/Amps | Head Pressure PSIG | Suction Pressure PSIG |
|--------|---------------|---------------|---------------|--------------------|-----------------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |



14.1. Maintenance Log (E-Coated Coil)

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 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| FEB | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| MAR | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| APR | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| MAY | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| JUN | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| JUL | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| AUG | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| SEP | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| OCT | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| NOV | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| DEC | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

The following cleaners have been approved for use on AAON E-Coated Coils to remove mold, mildew, dust, soot, greasy residue, lint, and similar particulates 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™ | " " | G074480 / 80406 |

| Recommended Chloride Remover |
|--|
| RectorSeal 2601 Spenwick Drive, Houston, Texas 77055 (P): 713-263-8001 |