RN NextGen Series Startup Form

Job Name:_____ Date:_____

Address:_____

_____

Model Number:_____

Serial Number:_____ Tag:_____

Startup Contractor:_____

Address:_____

_____ Phone:_____

PRE STARTUP CHECKLIST

Installing contractor must verify the following items.

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

A2L REFRIGERANT DETECTION SYSTEM (RDS) PRE-START CHECKLIST

1. Does each port (sensor 1-3) have a male connector plugged into both Cabinet and Airstream connection on mitigation board?	☐ Yes	☐ No
2. Do compressor and gas heat operation shut off when the cabinet board sensor trips.	☐ Yes	☐ No
3. Normal unit operation commences except the compressor and gas heater after the cabinet board sensor trips?	☐ Yes	☐ No
4. Does compressor shut off and fan stay on when the Airstream board sensor trips?	☐ Yes	☐ No
5. Non-compressor or gas heating/cooling stay on when both boards trip? (electric heater stays on)	☐ Yes	☐ No
6. When A2L airstream alarm is activated do supply fans start, VAV boxes open, and compressors stop?	☐ Yes	☐ No

Supply Fan Assembly

Alignment ☐ Check Rotation ☐ Nameplate Amps _____

Number	hp	L1	L2	L3
1				
2				

Band Size _____ VAV Control _____

VFD Frequency _____

Energy Recovery Wheel Assembly

Wheel(s) Spins Freely ☐ Check Rotation ☐ FLA _____

Number	hp	L1	L2	L3
1				
2				

Power Exhaust Fan Assembly

Alignment ☐ Check Rotation ☐ Nameplate Amps _____

Number	hp	L1	L2	L3
1				
2				

Outside Air/Economizer Dampers

Operation Check ☐ Damper Wiring Check ☐

Damper Actuator Type: SR ☐ 0-10 ☐ Floating ☐

Economizer Changeover Type and Operation _____

Ambient Temperature

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

Unit Configuration

Water-Cooled Condenser ☐ Air-Cooled Condenser ☐

Compressor/DX Cooling						
Number	L1	L2	L3	Head Pressure KPA/PSIG	Suction Pressure KPA/PSIG	Crankcase Heater Amps
1						
2						
3						
4						

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

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

Air-Cooled Condenser Fans				
VFD X ☐			EC X ☐	
Alignment ☐		Check Rotation ☐		Nameplate Amps _____
Number	hp	L1	L2	L3
1				
2				
3				
4				
5				
6				

WATER/GLYCOL SYSTEM

1. Has the entire system been flushed and pressure checked?	☐ Yes	☐ No
2. Has the entire system been filled with fluid?	☐ Yes	☐ No
3. Has air been bled from the heat exchangers and piping?	☐ Yes	☐ No
4. Is the glycol the proper type and concentration (N/A if water)?	☐ Yes	☐ No
5. Is there a minimum load of 50% of the design load?	☐ Yes	☐ No
6. Has the water piping been insulated?	☐ Yes	☐ No
7. What is the freeze point of the glycol (N/A if water)? _____		
8. What is the glycol concentration? _____		
No Water Leaks ☐	Condenser Safety Check ☐	
Water Flow _____ GPM		
Water Inlet Temperature _____ °C/°F	Water Outlet Temperature _____ °C/°F	

Gas Heating		
Verify there are no leaks in the gas piping. ☐		
Natural Gas ☐	Propane ☐	Purge Air from Lines ☐	Verify Pilot Spark ☐
Stage	Manifold Pressure (w.c.) inlet	Manifold Pressure (w.c.) inlet
1		
2		
3		
4		

Electric Heating	
Stages _____	Limit Lockout ☐	Aux. Limit Lockout ☐
Stage	Amps
1	
2	
3	
4	
5	
6	
7	
8	

Electric Preheating	
Limit Lockout ☐	Aux. Limit Lockout ☐
Outside Air Temperature Setpoint _____ °C/°F	
Preheat Leaving Air Temperature Setpoint _____ °C/°F	
Stage	Amps
1	
2	
3	
4	

ADDITIONAL FINDINGS

SIGNATURE

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

Name:

Title:

Rep/Contractor:

Signature

Date/Time