

## H3/V3 Series Startup Form

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

### Pre Startup Checklist

Installing contractor should verify the following items.	
1. Is there any visible shipping damage?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Is the unit level?	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Are the unit clearances adequate for service and operation?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. Do all access doors open freely and are the handles operational?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. Have all shipping braces been removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No
6. Have all electrical connections been tested for tightness?	<input type="checkbox"/> Yes <input type="checkbox"/> No
7. Does the electrical service correspond to the unit nameplate?	<input type="checkbox"/> Yes <input type="checkbox"/> No
8. On 208/230V units, has transformer tap been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No
9. Has overcurrent protection been installed to match the unit nameplate requirement?	<input type="checkbox"/> Yes <input type="checkbox"/> No
10. Have all set screws on the fans been tightened?	<input type="checkbox"/> Yes <input type="checkbox"/> No
11. Do all fans rotate freely?	<input type="checkbox"/> Yes <input type="checkbox"/> No
12. Does the field water piping to the unit appear to be correct per design parameters?	<input type="checkbox"/> Yes <input type="checkbox"/> No
13. Is all copper tubing isolated so that it does not rub?	<input type="checkbox"/> Yes <input type="checkbox"/> No
14. Have the damper assemblies been inspected?	<input type="checkbox"/> Yes <input type="checkbox"/> No
15. Are air filters installed with proper orientation?	<input type="checkbox"/> Yes <input type="checkbox"/> No
16. Have condensate drain and p-trap been connected?	<input type="checkbox"/> Yes <input type="checkbox"/> No
17. Is the TXV sensing bulb in the correct location?	<input type="checkbox"/> Yes <input type="checkbox"/> No
18. Does the TXV sensing bulb have proper thermal contact and is properly insulated?	<input type="checkbox"/> Yes <input type="checkbox"/> No

**Ambient Temperature**

Ambient Dry Bulb Temperature _____°F	Ambient Wet Bulb Temperature _____°F
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**Supply Fan Assembly**

Alignment <input type="checkbox"/>		Check Rotation <input type="checkbox"/>		Nameplate Amps _____	
Number	hp	L1	L2	L3	
1					
2					
VFD Frequency _____			VAV Controls _____		

**Power Exhaust Fan Assembly**

Alignment <input type="checkbox"/>		Check Rotation <input type="checkbox"/>		Nameplate Amps _____	
Number	hp	L1	L2	L3	
1					
2					
VFD Frequency _____			VAV Controls _____		

**Energy Recovery Wheel Assembly**

Wheels Spin Freely <input type="checkbox"/>		Check Rotation <input type="checkbox"/>		FLA _____	
Number	hp	L1	L2	L3	
1					
2					

**Dampers**

OA Operation Check <input type="checkbox"/>	Damper Wiring Check <input type="checkbox"/>	Gears Check <input type="checkbox"/>
RA Operation Check <input type="checkbox"/>	Damper Wiring Check <input type="checkbox"/>	Gears Check <input type="checkbox"/>
EA Operation Check <input type="checkbox"/>	Damper Wiring Check <input type="checkbox"/>	Gears Check <input type="checkbox"/>
Damper Actuator Type: _____		
Economizer Changeover Type and Operation: _____		

**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

**Compressors/DX Cooling**

Check Rotation <input type="checkbox"/>						
Number	L1	L2	L3	Head Pressure PSIG	Suction Pressure PSIG	Crankcase Heater Amps
1						
2						
3						
4						

**Air-Cooled Condenser Fans**

Alignment <input type="checkbox"/>		Check Rotation <input type="checkbox"/>		Nameplate Amps _____	
Number	hp	L1	L2	L3	
1					
2					
3					
4					

**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

**Water/Glycol System**

1. Has the entire system been flushed and pressure checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Has the entire system been filled with fluid?	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Has air been bled from the heat exchangers and piping?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. Is the glycol the proper type and concentration (N/A if water)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. Is there a minimum load of 50% of the design load?	<input type="checkbox"/> Yes <input type="checkbox"/> No
6. Has the water piping been insulated?	<input type="checkbox"/> Yes <input type="checkbox"/> No
7. What is the freeze point of the glycol (N/A if water)? _____	

**Electric Heating**

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

**Electric Preheating**

Limit Lockout <input type="checkbox"/>		Aux. Limit Lockout <input type="checkbox"/>	
Outside Air Temperature Setpoint _____ °F			
Preheat Leaving Air Temperature Setpoint _____ °F			
Stage	Amps	Stage	Amps
1		3	
2		4	

