

Ductless Start-Up Checklist - Multi Zone

Installation Data

Site Address: _____

City: _____ State: _____ Zip Code: _____

Installing Contractor: _____ Contractor Contact #: () _____ - _____

Job Name: _____ Start-up Date: _____

Distributor: _____

System Details

UNITS	MODEL NO.	SERIAL NO.	CONTROLLER
OUTDOOR UNIT			
INDOOR UNIT A			
INDOOR UNIT B			
INDOOR UNIT C			
INDOOR UNIT D			
INDOOR UNIT E			

Are the outdoor unit and indoor units compatible? YES: _____ NO: _____

Wiring Electrical

Wire Size and Type Used? AWG: _____ TYPE: _____

Are there any breaks, splices, wire nuts or butt connectors between the outdoor unit and the indoor unit? YES: _____ NO: _____

Was the wiring from the outdoor unit port to the correct indoor unit verified? YES: _____ NO: _____

REMARKS: _____

Voltage Check

Wiring: Multi-zone

Outdoor Unit Disconnect	1(L1):GND	Outdoor Unit Terminal Block	1(L1):GND	NOTES: _____	
	2(L2):GND		2(L2):GND		
	1(L1):2(L2)		1(L1):2(L2)		
Port A	1(L1):GND	Port B	1(L1):GND	Port C	1(L1):GND
	2(L2):GND		2(L2):GND		2(L2):GND
	1(L1):2(L2)		1(L1):2(L2)		1(L1):2(L2)
	2(L2):3(S)		2(L2):3(S)		2(L2):3(S)
Port D	1(L1):GND	Port E	1(L1):GND	NOTES: _____	
	2(L2):GND		2(L2):GND		
	1(L1):2(L2)		1(L1):2(L2)		
	2(L2):3(S)		2(L2):3(S)		
Indoor Unit Voltage Check @ Indoor Unit A	1(L1):GND	Indoor Unit Voltage Check @ Indoor Unit B	1(L1):GND	Indoor Unit Voltage Check @ Indoor Unit C	1(L1):GND
	2(L2):GND		2(L2):GND		2(L2):GND
	1(L1):2(L2)		1(L1):2(L2)		1(L1):2(L2)
	2(L2):3(S)		2(L2):3(S)		2(L2):3(S)
Indoor Unit Voltage Check @ Indoor Unit D	1(L1):GND	Indoor Unit Voltage Check @ Indoor Unit E	1(L1):GND	NOTES: _____	
	2(L2):GND		2(L2):GND		
	1(L1):2(L2)		1(L1):2(L2)		
	2(L2):3(S)		2(L2):3(S)		

NOTE: Power needs to be verified from each leg to the ground as well as leg to leg.

Piping

Leak Check:

System held 500 psig (max. 550psi) for a minimum of 30 minutes using dry nitrogen.

YES: _____ NO: _____

Evacuation Method:

- Was the Triple Evacuation Method used as outlined in the installation manual?
- Was the Deep Vacuum Method used as outlined in the installation manual?
- Did the System Hold 500 microns for 1 hour?
- Does the line set match the diameter of the evaporator connections?
- For Conventional Fan Coils, does the line set match the outdoor unit connection size?

YES: _____ NO: _____

YES: _____ NO: _____

YES: _____ NO: _____

YES: _____ NO: _____

YES: _____ NO: _____

Multi Zone Piping:

- Are the service ports open?
- Check that the piping is not crossed. Turn on one indoor unit at a time and observe if the EEV is opening on the correct port.

YES: _____ NO: _____

NOTES:

PORT	LIQUID SIZE	SUCTION SIZE	LENGTH	CHARGE	NOTES:
A					
B					
C					
D					
E					
TOTAL CHARGE:					

Performance Check

Adjust the set-point of one indoor unit and allow 10 minutes of continuous operation before recording any values. Once all the values have been recorded, repeat the process for the remaining indoor unit(s) one at a time. Once complete, all the connected heads should operate.

(Operational data recorded on applicable heads with the wireless remote controller's Point Check function)

Unit	Set-Point	Mode	T1	T2	T3	T4	Tb	Tp	Th	LA/Lr
A										
B										
C										
D										
E										

NOTE:

- T1 - Indoor Ambient Temperature
- T2 - Indoor Coil Temperature
- T3 - ODU Coil Temperature
- T4 - Outdoor Ambient Temperature
- Tb - Suction Line Temperature @PMV
- Tp - Discharge Temperature Sensor
- Th - IPM Board Temperature
- LA/Lr - PMV Temperature

Error Codes

Were there any error codes present at start-up?

YES: _____ NO: _____

Indoor Unit Error Code:		Notes:
Outdoor Unit Error Code:		
Wall Controller:		
24V Interface:		

Comments:
