

	<u>Maintenance Item</u>	Monthly	Semi-Annual	Annual
Indoor Unit	Filter - Clean/Replace*	X		
	Check/Clean Heat Exchanger*			X
	Check/Clean Drain Pan*		X	
	Check Drain Pump Operation		X	
	Check/Clean float switch*		X	
	Check/clean blower wheel*	X		
	Check all electrical connections at PCB			X
	Check for discoloration on PCB			X
	Check Piping/Insulation			X
	Inspect for refrigerant leaks			X
	Check unit airflow Delta		X	
	Check thermistor calibration**			X
	Check EEV operation***			X

Outdoor Unit	Check Electrical Connections		X	
	PCB - check for discoloration		X	
	COMM Board		X	
	Inverter - Compressor and Fan		X	
	Check and Clean Heat Exchanger*			X
	Inspect for refrigerant leaks			X
	Check transducer calibration**			X
	Check thermistor calibration**			X
	Check Oil Return Components**			X
	Check EEV Operation***			X

MCU	Check Electrical Connections		X	
	Check for refrigerant leaks			X
	Check thermistor calibration**			X

X: Recommended to perform

*: based on system environment may require more frequent checks

** : see procedure in Operational Checks section

***: if necessary - see Operational Checks section

Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice

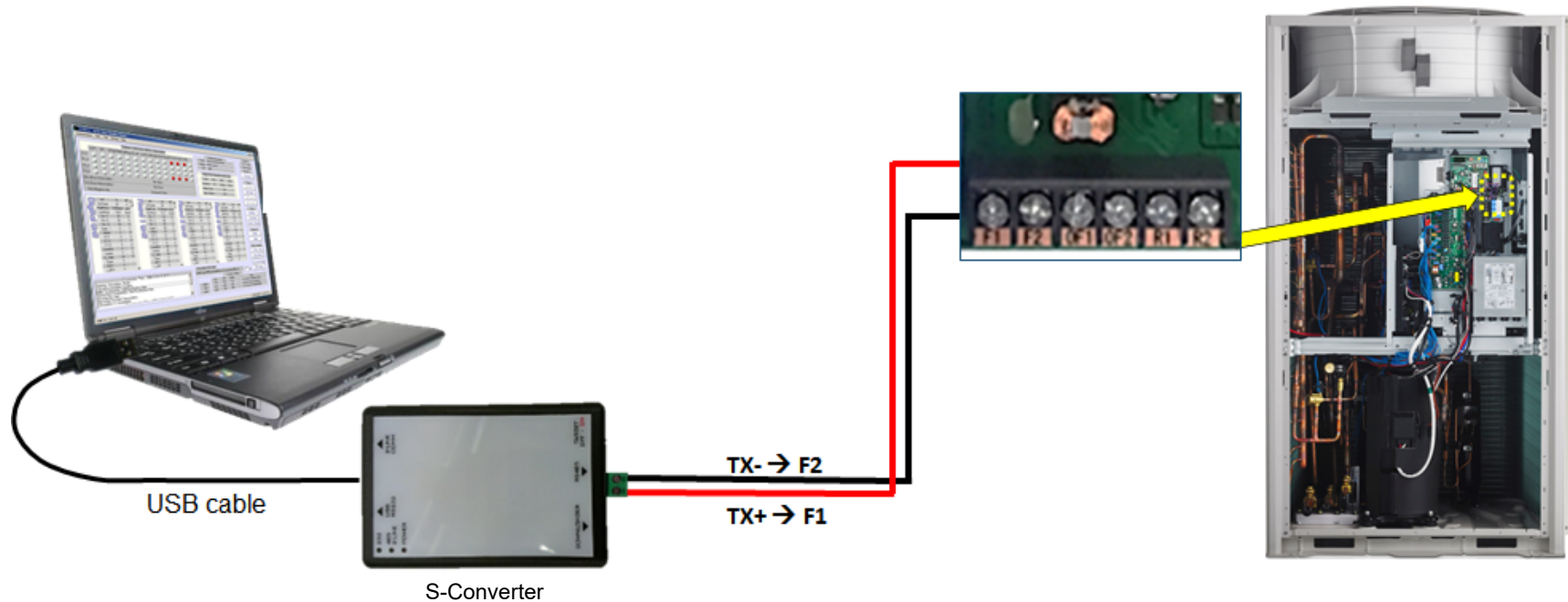
SNET Data SNET Pro 2 service software is used to monitor and program Samsung DVM S Systems

Perform the following Operational Checks utilizing Samsung
SNET Pro2 software and S-Converter

SNET Pro 2 can be found at SamsungHVAC.com or the link below

<https://www.samsunghvac.com/Software-Downloads/SNET-Pro2>

Software and driver need to be installed on Windows
based PC Contact local Samsung distributor or rep to
purchase S-Converter. Part# MIM-C02N



	Main Unit		Sub Unit 1		Sub Unit 2	
Model						
Serial						
	Value 1	Value 2	Value 1	Value 2	Value 1	Value 2

Outdoor Thermistors

- 1 Discharge Thermistor
- 2 Compressor Top Temp
- 3 Outdoor Temperature
- 4 IPM Temperature
- 5 Condenser Out Temperature
- 6 Liquid Tube Temperature
- 7 Suction Temperature
- 8 EVI In Temperature
- 9 EVI OUT Temperature
- 10 High Pressure Transducer
- 11 Low Pressure Transducer

Note the thermistor temperatures and transducer pressures from SNET in OFF mode.
Compare to ambient temperature and each other to ensure their calibration.
Note: Discharge, Comp Top temperatures may be higher due to CCH being energized

Outdoor Unit Info #1			Outdoor Unit Info #2		
Address	10.02.00		Address	10.02.00	
Serial Number	B83WP3GM400001		TestOperation(UP)	Completed	
Operation Mode	Stop		Comp Top1	121 F	2
Operation Status	Cool		Comp Top2	-	
Error Code	0		Outdoor Temp.	67 F	3
Capacity	10 HP		Compressor Current1	0	
Target Frequency1	0		Compressor Current2	-	
Order Frequency1	0		IPM1 Temp	106 F	4
Current Frequency1	0		IPM2 Temp	-	
Target Frequency2	0		CondOut Temp.	68 F	5
Order Frequency2	0		CondOut2 Temp.	-	
Current Frequency2	0		Liquid Tube Temp.	68 F	6
High Pressure	183.5 psi	11	Suction1 Temp.	68 F	7
Saturated T_Pd	67 F		Suction2 Temp.	69 F	
Low Pressure	187.7 psi	12	Suction3 Temp.	-	
Saturated T_Ps	67 F		Main EEV1	35	
Mid Pressure	-		Main EEV2	0	
Discharge1	90 F	1	EVI EEV	0	
Discharge2	-		EVI IN	68 F	8
Base Heater	☐		EVI OUT	68 F	9
			Outdoor Fan Step	0	

Operational Values

Typical values and operating information can be found in the
DVM Sequence of Operation Guide

Cooling Operations Check

Cond Out: 86-131°F
Cond Out: 5-36°F greater than ambient
Liquid Tube: 68-122°F

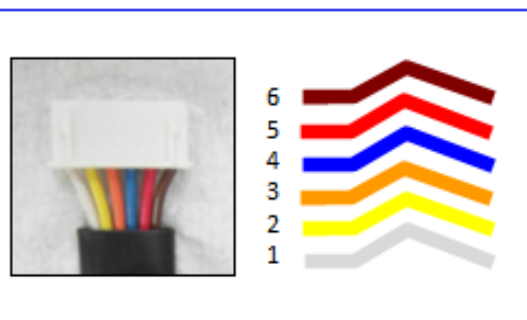
Heating Operations Check

High Pressure 355-455 psi
Decrease below 32°F outdoor ambient or 68°F indoor ambient
Low pressure 71-106 psi
Cond out sensor: more than 2°F lower than outdoor ambient

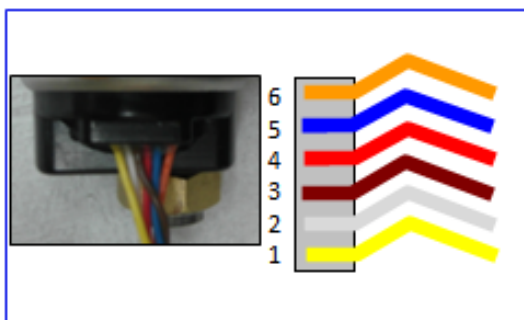
Main EEV

Verify coil resistance of Main EEV

1. Check wiring condition of connector



2. Check wiring condition of coil



3. Check coil resistance each terminal

RED – WHITE	150±15Ω
RED – ORANGE	//
BROWN-YELLOW	//
BRWON-BLU	//
COM : RED, BROWN	

Indoor Thermistors

- 1 Room Temperature
- 2 EVA In Temperature
- 3 EVA Out Temperature

Indoor Unit Data										
Address	Capacity	Power	Mode	Fan Speed	Set Temperature	Room Temp.	Eva In1	Eva Out1	EEV1	Error Code
0	0 Btu	☐	Cool	Off	64 F	69 F	73 F	73 F	35	0
1	0 Btu	☐	Cool	Off	65 F	70 F	66 F	67 F	35	0
2	0 Btu	☐	Cool	Off	65 F	68 F	70 F	68 F	35	0
4	0 Btu	☐	Cool	Off	65 F	68 F	69 F	69 F	35	0

Use the following pages to record indoor data from SNET

Indoor Operation

Cooling Operations Check

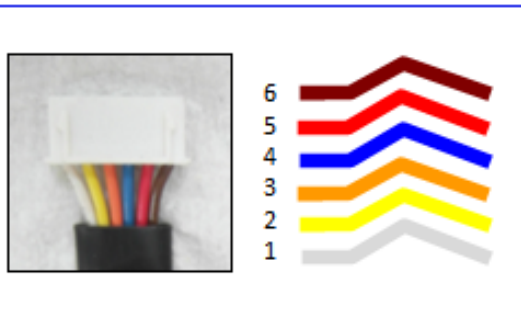
IDU EEV 250-1400 steps (out of 2000 steps)
 EVA In: 45° - 57° F
 EVA Out: 45° - 57° F
 (EVA In - EVA out) = 0° - 7° F

Heating Operations Check

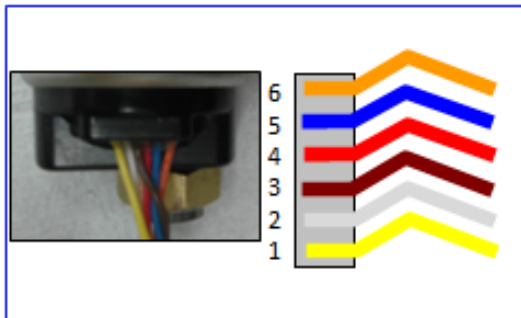
EVA Out: 113° - 194°F or higher
 EVA In: 91° - 122°F or higher

Indoor EEV Verify Coil resistance of Indoor EEV if EVA differential does not fall in line with Operations Check data

1. Check wiring condition of connector



2. Check wiring condition of coil



3. Check coil resistance each terminal

RED - WHITE	150±15Ω
RED - ORANGE	//
BROWN-YELLOW	//
BRWON-BLU	//
COM : RED, BROWN	

	IDU Address	Model Number	Serial Number	Location	Room Temp	EVA In Temp	EVA Out Temp
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

	IDU Address	Model Number	Serial Number	Location	Room Temp	EVA In Temp	EVA Out Temp
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

	IDU Address	Model Number	Serial Number	Location	Room Temp	EVA In Temp	EVA Out Temp
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

	IDU Address	Model Number	Serial Number	Location	Room Temp	EVA In Temp	EVA Out Temp
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							

	IDU Address	Model Number	Serial Number	Location	Room Temp	EVA In Temp	EVA Out Temp
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							

	IDU Address	Model Number	Serial Number	Location	Room Temp	EVA In Temp	EVA Out Temp
61							
62							
63							
64							

Notes:

MCU Thermistors

- 1 Subcooler In Temp
- 2 Subcooler Out Temp

MCU Unit Data														Main Micom
Address	A-Cool	A-Heat	A-EEV	A-Address	B-Cool	B-Heat	B-EEV	B-Address	LBV	MCU Bypass EEV	SubCool EEV	SubCooler In Temp.	SubCooler Out Temp.	
1	☐	☐	480	-	☐	☐	480	-	☐	-	0	65 F	65 F	UB91-01867A
2	☐	☐	480	-	☐	☐	0	-	☐	-	0	64 F	64 F	UB91-01867A

		Address 0	Address 1	Address 2	Address 3	Address 4	Address 5	Address 6	Address 7
Model									
	Serial								
		Value	Value	Value	Value	Value	Value	Value	Value
1									
2									
		Address 8	Address 9	Address 10	Address 11	Address 13	Address 14	Address 15	
Model									
	Serial								
		Value	Value	Value	Value	Value	Value	Value	
1									
2									

ARV Valve

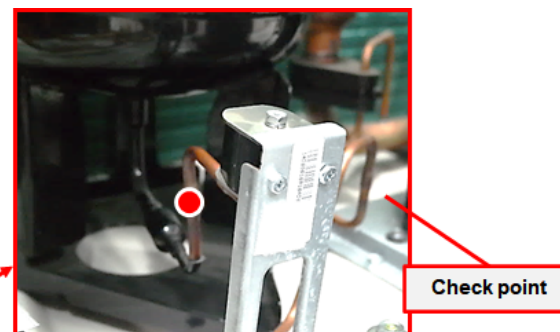
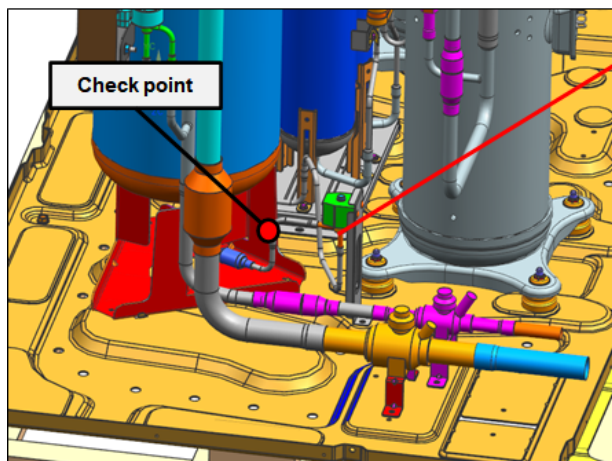
Test run – Check Accumulator – low pressure side Normal: ARV close (off) temp / ARV open (on) temp > 41°F

Test run 30 mins. – ARV disconnect (ARV close)

Warm the pipe and wait 5 mins, then check temperature ARV connect (ARV open), wait 5 mins. Then check temperature

ODU No	ODU No1		ODU No2	
ARV Status	ARV Off	ARV On	ARV Off	ARV On
Outdoor Temp	47°F	48°F	47°F	48°F
High Pressure	83°F	83°F	83°F	83°F
Low Pressure	42°F	40°F	42°F	40°F
Current Freq	53 Hz	64 Hz	49 Hz	58 Hz
Hot Gas	OFF	OFF	OFF	OFF
Suction	41°F	39°F	41°F	40°
ARV off	72°F	51°F	68°F	66°F

Note: example only



Oil Separator

Test run – Check Oil Separator – high pressure side

Check point – Oil out line from oil separator

Normal: Check point temperature = T_{Pd}

Abnormal: Check point temperature is close to ambient temperature

Address	10,06,00	10,06,01
Serial Number	-	-
Operation Mode	Test	Test
Operation Status	Heat	Heat
Error Code	911	911
Capacity	22HP	22HP
Target Frequency1	58	61
Order Frequency1	58	61
Current Frequency1	58	61
Target Frequency2	61	64
Order Frequency2	61	64
Current Frequency2	61	64
High Pressure	23.6	24.6
Saturated T _{Pd}	104°F	108°F
Low Pressure	5.4	5
Saturated T _{Ps}	-7℃	-9℃
Discharge1	53.1℃	68℃
Discharge2	53.5℃	62.7℃

