



Samsung DVM S Error Code Booklet

Introduction

Welcome to the new Samsung Error Code Booklet, for our repair network.

This booklet has been designed to offer on site assistance for fault code analysis across the DVM S Samsung Smart Inverter range.

Please use this book when attending Service Calls as it will assist you with the next steps on how to diagnose the system problem.

Should you need further assistance, please call Technical Support at 888-699-6067

ERROR CODE	EXPLANATION
E101-120	Communication error related to indoor
E121-150	Indoor sensor related error
E151-200	Other errors related to indoor
E201-209	Communication error related to the outdoor unit
E210-220	MCU related inspection error
E221-400	Outdoor unit sensor related error
E401-550	Protect the outdoor unit control / self-diagnosis related errors
E551-600	Other errors related to the outdoor unit
E601-650	OPTION instrument (wired controller) related errors
E652-700	Other error
P701-800	Protect the outdoor unit control Low Level Risk - indoor normal operation
P801-900	GHP-R410A, R22 outdoor unit related error
E901-920	Hydro indoor related errors
E921-999	Reserved

MEANINGS OF FIRST ALPHABETICAL CHARACTER / NUMBER OF ERROR CODE	
	Displayed alphabet Explanation
E	When displaying Error 101-700
P	When displaying Error 701-800
C	When E206 occurs
	Displays address of subordinate within the set
	C001: HUB, C002: FAN, C003: INV1, C004: INV2
	When MCU error occurs
	Displays address of MCU
	Ex) U200: Main ODU, U201: Sub 1 ODU, U202: Sub 2 ODU
U	When displaying outdoor unit address
	Ex) U200: Main ODU, U201: Sub 1 ODU, U202: Sub 2 ODU
A	When displaying indoor unit address
	Ex) A000: Indoor unit address 0, A001: Indoor unit address 1, A002: Indoor unit address 2

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	101	DVM,DPM,DVS:Outdoor Unit Communication Error (Case": Indoor unit can't receive communication SINGLE: Indoor Unit Panel - Main communication error	
	102	Outdoor Unit -> communication error to Indoor Unit	
	103	Communication Error Between Indoor Unit Panel and Main	
	104	Communication error : "IF <-> Indoor unit" some disconnect in Indoor unit (communicating) only [GHP-R22] For [GHP-R22]	For GHP-R22
	105	Communication Error in between sensing space module and Indoor unit	
	106	Communication Error Between LCD and Panel	Verdi
	107	Communication Error Between LCD Outdoor Unit	Verdi
	108	Error due to repeated address setting (When 2 or more devices has same address within the network)	Check for system errors
	109	Communication error that indoor address is not completed.Check communication wire between indoor and outdoor, outdoor unit quantity, indoor address setting status.K3 reset.Reset DMS. Communication address not confirmed Other outdoor unit	Check for system errors
	121	Error of ROOM Temperature Sensor in Indoor unit short/open	reference page 34
	122	Error of Evaporator_in Sensor of Indoor unit short/open	reference page 34
	123	Error of Evaporator_out Sensor of Indoor unitshort/open	reference page 34
	124	Indoor Unit Communication Error (Indoor Unit -> outdoor unit Communication Error displayed in Outdoor unit)	
	125	Eva_mid2 Sensor of Indoor unit short/open	reference page 34
	127	[GHP-R22] Indoor Temperature (Suction Temperature) Sensor breakaway Error	For GHP-R22
	128	Breakaway of Indoor unit Evaporator_in Sensor	
	129	Breakaway of Indoor unit Evaporator_out Sensor	
	130	Breakaway of evaporator in and evaporator out sensors in indoor unit at the same time	
	131	Sub(Electronic) Heater Sensor 1 Error	
	132	Sub(Electronic) Heater Sensor 2 Error	
	133	Sub(Electronic) Heater Sensor 3 Error	
	134	Shutter Sensor Error (In case of model which have two shutter, upper Error : Aurora)	
	135	Perfect Fan Sensor Error	
	136	Shutter Sensor Error (In case, model which have two shutter Error in bottom : Aurora)	Aurora Bottom Sensor
	137	VOC SENSOR OPEN/SHORT ERROR	
	138	GAS SENSOR OPEN/SHORT ERROR	
	139	ERV CO2 SENSOR OPEN/SHORT ERROR	
	140	Indoor Dust sensor Error	
	141	IAQ CO2 SENSOR OPEN/SHORT ERROR	

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Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	142	Indoor Unit Humid Sensor short/open	
	143	Sensing space Sensor Error	
	144	Eva2_in Sensor of Indoor Unit short/open	Sensor attached duct of Eva2 for India
	145	Eva2_out Sensor of Indoor Unit short/open	Sensor attached duct of Eva2 for India
	146	EEV Inlet Sensor short/open	Sensor for EEV to know overheating rate
	147	Indoor Eva2_in Sensor break away Error	Sensor attached duct of Eva2 for India
	148	Indoor Eva2_out Sensor break away Error	Sensor attached duct of Eva2 for India
	149	AHU Master Indoor room sensor setting error	AHU
	150	RESERVED(DMS-SNET3 Error)	Refer to Error History
	151	Open error of electronic expansion valve in indoor unit(2nd)	Check MCU addressing if HR
	152	Close error of electronic expansion valve in indoor unit(2nd)	Check MCU addressing if HR
	153	Detect Indoor float s/w 2nd	
	154	Indoor unit Fan Error	
	155	Indoor unit Fan2 Error	
	156	Indoor unit (EEV2) open error 2nd	Duct of Indoor unit EEV2 for India
	157	Indoor unit (EEV2) close error 2nd	Duct of Indoor unit EEV2 for India
	158	UDoor upper operation Error	(check Photo Sensor or operating Relay Error)
	159	UDoor lower operation Error	(check Photo Sensor or operating Relay Error)
	161	Cooling and Heating mixed operating Error	
	162	Outdoor unit EEPROM error	
	163	EEPROM OPTION SETTING ERROR	
	165	Elect Discharge Temp Protect Error	
	166	Electric motor related to no wind Error	
	167	Using peripheral in Indoor Unit Option DIP S/W set Error	
	168	IAQ Safety S/W Open Error	
	169	AHU EEV Fault detection error	AHU

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Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	170	Error; Fahrenheit /Celsius degree use same time (Indoor Unit which selected Celsius)	07.03 Applied DVM N.A. No applied for Domestic Europe
	174	ERV + heat exchanger inlet temperature sensor short / open	ERV+
	175	Outdoor built-in indoor temperature sensor short / open error	ERV+
	177	In hydro box, take place emergency signal Error	hydro box - Error display in outdoor unit
	180	MCU SOL Valve cooling/heating opening 1st at the same time	
	181	MCU SOL Valve cooling/heating opening 1st at the same time	
	185	misconnect power line to Indoor Unit communication line	
	186	sMPI(SPI) Feedback Error	
	187	K1Filter Feedback Error	
	190	While in checking pipe, no change Temp in Eva_in or change Temp Eva_in of other Indoor unit	
	191	While in checking pipe, no change Temp in Eva_out or change Temp Eva_out of other Indoor unit	
	192	Indoor Unit COVER OPEN (Indoor unit switch for safety)	
	193	Indoor Panel Zero-Crossing Error	
	194	Indoor Main Zero-Crossing Error	
	195	IAQ safety S/W Open Error	
	198	Error due to disconnected thermal fuse of indoor unit	
	199	Error in Display Status of No pipe checking	
	201	After complete Tracking 5 times, mismatch of the indoor unit quantity set with those found by ODU error (some of indoor units disconnected communication wire, IDU powered off, etc.)	
	202	System Down (All Indoor unit Short) due to Communication Error	
	203	Outdoor Unit Communication Error Between MAIN-- SUB	
	204	After completing Tracking 5 times, there is different with a number of set MCU and communicated MCU	
	205	Communication Error on all PBA within the outdoor unit C-Box, communication cable error Communication Error Between Outdoor Unit Inv Micom -- Fan Motor Micom	
	206	Communication Error Between Outdoor Unit Main PBA - Sub PBA	
	206-C001	HUB PBA communication error	
	206-C002	FAN PBA communication error	
	206-C003	INV1 PBA communication error	
	206-C004	INV2 PBA communication error	
	210	Can NOT communicate with MCU over 2 min	

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Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	211	Indoor unit connected with confluence kit without continuity	
	212	Indoor unit connected with confluence kit and setting address was overlapped more than 3	
	213	MCU address not matched with indoor unit address	
	214	MCU address not matched with outdoor unit address	
	215	Rotary switch for indoor unit address in MCU was overlapped among MCUs	
	216	DIP switch for indoor unit setting was ON position even though indoor unit was not connected	
	217	DIP switch for indoor unit setting was OFF position even though indoor unit was connected	
	218	Setting number of indoor unit in MCU is larger than installed indoor units.	
	219	Error on temperature sensor located on MCU intercooler inlet (Short or Open) MCU Over Cooling In Sensor Open/Short	reference page 34
	220	Error on temperature sensor located on MCU intercooler outlet (Short or Open) MCU Over Cooling Out Sensor Open/Short	reference page 34
	221	OUT temperature SENSOR ERROR (OPEN/SHORT) - ERROR LEVEL: more than 4.9V(-50°C), less than 0.4V(93°C)	reference page 34
	226	OUT_temperature temperature Sensor breakaway Error	
	231	COND_OUT Main temperature SENSOR ERROR (OPEN/SHORT) - ERROR LEVEL: More than 4.9V(-50°C), less than 0.4V(93°C)"	reference page 34
	236	COND_OUT Sub1 temperature SENSOR ERROR (OPEN/SHORT) - ERROR LEVEL: More than 4.9V(-50°C), less than 0.4V(93°C)"	reference page 34
	237	COND temperature SENSOR ERROR (OPEN/SHORT) - ERROR LEVEL: More than 4.9V(-50°C), less than 0.4V(93°C)	reference page 34
	241	COND_MID or COND OUT Sensor of Outdoor Unit breakaway Error	
	242	Outdoor Unit Heater Error	
	246	COND_OUT 1 breakaway	
	251	PWM DISCHARGE temperature SENSOR ERROR (OPEN/SHORT) - ERROR detect Condition: detect Outdoor temperature more than -10°C - ERROR LEVEL: More than 4.95V(-30°C), less than 0.5V(151°C)	
	256	Fixed COMP 1 DCHRG SENSOR ERROR (OPEN/SHORT) - ERROR detect Condition: detect Outdoor temperature more than - ERROR LEVEL: More than 4.95V(-30°C), less than 0.5V(151°C)	
	257	Fixed COMP 2 DCHRG SENSOR ERROR (OPEN/SHORT) - ERROR detect Condition: detect Outdoor temperature more than -10°C - ERROR LEVEL: more than 4.95V(-30°C),less than 0.5V(151°C)"	
	258	Fixed COMP 3 DCHRG SENSOR ERROR (OPEN/SHORT) - ERROR detect Condition: Outdoor temperature more than -10 detect °C - ERROR LEVEL: more than 4.95V(-30°C),less than 0.5V(151°C)	
	261	Digital COMP_discharge Sensor breakaway Error	
	262	Fixd COMP1_discharge Sensor breakaway Error	

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Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	263	Fixd COMP2_discharge Sensor breakaway Error	
	264	Fixd COMP3_discharge Sensor breakaway Error	
	265	SUMP temperature sensor breakaway (Main)	
	266	SUMP temperature sensor breakaway (Sub1)	
	267	High Pressure SENSOR breakaway ERROR	
	268	SUMP temperature sensor breakaway (Sub3)	
	269	SUCTION Sensor breakaway	
	271	Digital COMP Sump_temperature Digital SENSOR ERROR (OPEN/SHORT) - ERROR detect Condition: detect outdoor temperature -10°C - ERROR LEVEL: more than 4.95V(-30°C), less than 0.5V(151°C)”	
	276	FIXED COMP1 Sump_temperature SENSOR ERROR (OPEN/SHORT) - ERROR detect Condition: detect outdoor temperature more than -10°C - ERROR LEVEL: more than 4.95V(-30°C), less than 0.5V(151°C)”	
	277	FIXED COMP2 Sump_temperature SENSOR ERROR (OPEN/SHORT) - ERROR detect Condition: detect outdoor temperature -10°C - ERROR LEVEL: more than 4.95V(-30°C), less than 0.5V(151°C)”	
	278	FIXED COMP3 Sump_temperature FIXED 3 SENSOR ERROR (OPEN/SHORT) - ERROR detect Condition: detect outdoor temperature more than -10°C - ERROR LEVEL: more than 4.95V(-30°C), less than 0.5V(151°C)”	
	291	High pressure SENSOR ERROR (OPEN/SHORT) while in operating COMP only, detect (shortError: less than 0.4v, Error detect), (OPENError: over 4.2v, Error detect)	
	296	Low Pressure SENSOR ERROR (OPEN/SHORT) while in operating COMP only, detect (shortError: less than 0.4v, Error detect), (OPENError:over 4.7v, Error detect)	
	301	High Pressure SENSOR breakaway ERROR	
	306	Low Pressure SENSOR breakaway ERROR	
	307	Oil Balance Sensor SHORT/OPEN	
	308	SUCTION Sensor SHORT/OPEN	
	309	Oil Balace Sensor2 Sensor SHORT/OPEN	
	310	Oil Balance Sensor3Sensor SHORT/OPEN	
	311	Double pipe Sensor SHORT/OPEN	
	312	Main Cooling Sol Valve Open Error	
	313	4-Way Valve operation Error	
	314	Oil Balace Sensor4 SHORT/OPEN	
	315	CT1 Sensor Short or Open	
	316	CT2 Sensor Short or Open	
	317	CT3 Sensor Short or Open	

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Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	320	OLP Sensor SHORT / OPEN	
	321	EVI INLET Sensor SHORT/OPEN	reference page 34
	322	EVI OUTLET Sensor SHORT/OPEN	reference page 34
	323	Error on suction sensor 2 (Short or Open)	
	324	Outdoor Unit Fan Motor Current Sensor SHORT / OPEN	
	325	Outdoor Unit Fan2 Motor Current Sensor SHORT / OPEN	
	330	Outdoor plumbing inlet sensor out 0 time (TA_0)	
	331	Outdoor sensor out once the entrance pipe (TA_1)	
	332	2, the inlet pipe outdoor sensor out (TA_2)	
	333	Three times the inlet pipe outdoor sensor out (TA_3)	
	334	Outdoor four times the inlet pipe sensor out (TA_4)	
	335	Outdoor pipe exit sensor out 0 time (TB_0)	
	336	1 outdoor sensor out pipe outlet (TB_1)	
	337	Outdoor sensor out two times pipe outlet (TB_2)	
	338	Outdoor sensor out three times pipe outlet (TB_3)	
	339	Outdoor sensor out four pipe outlet (TB_4)	
	346	Error due to operation failure of Fan2	
	347	Motor wire of Fan2 is not connected	
	348	Lock error on Fan2 of outdoor unit	
	353	Error due to overheated motor of outdoor unit's Fan2	
	355	Error due to overheated IPM of Fan2.	
	361	2 CT1 inverter compressor start failure, or a low-current	
	364	Error due to over-current of inverter compressor 2. 2 DC Peak Inverter compressor stop.	
	365	V-limit error of inverter compressor 2. 2 inverter compressor overload stops (30A or more).	
	366	Error due to over voltage /low voltage of inverter PBA2. Less than 2 DC Link Voltage 150V 410V inverter over.	
	367	Error due to unconnected wire of compressor 2. Inverter compressor rotation over 2 Wire dependence or compressor	
	368	Output current sensor error of inverter PBA2. 2 Comp inverter current sensor error.	
	369	DC voltage sensor error of inverter PBA2. 2 DC Link Inverter Sensor Error.	
	371	2 inverter outdoor unit EEPROM Read / Write error (OTP error)	
	374	Heat sink temperature sensor error of inverter PBA2. 2 inverter heat sink temperature sensor error.	
	378	Hall IC connection error of Fan2. Outdoor fan 2 IPM H / W OC	

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Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	385	Error due to input current of inverter 2. 2 inverter input current sensor Error.	
	386	Over-voltage/low-voltage error of Fan2	
	387	Outdoor fan 2 Hall Sensor Error	
	389	V-limit error on Fan2 of compressor	
	391	Fan Controller 2 EEPROM Read / Write Error	
	393	Output current sensor error of Fan2. Fan Controller 2 Current sensor error.	
	396	DC voltage sensor error of Fan2. Fan Controller 2 DC Link sensor error.	
	399	Heat sink temperature sensor error of Fan2. 2 fan controller heatsink temperature sensor error.	
	400	Error due to overheat caused by contact failure on IPM of Inverter PBA2	
	401	Outdoor Freezing detect 1	
	402	Outdoor Freezing detect 2	
	403	Outdoor Freezing detect 3 - Freeze COMP DOWN	
	404	Outdoor overload 1 Protection Control Error	
	405	Outdoor overload 2 Protection Control Error	
	406	Outdoor overload 3 Protection Control Error	
	407	COMP down due to High PressureSensor Protection Control 1	
	408	COMP down due to High PressureSensor Protection Control 2	
	409	COMP down due to High PressureSensor Protection Control 3	
	410	COMP down due to Low PressureSensor Protection Control 1	
	411	COMP down due to Low PressureSensor Protection Control 2	
	412	COMP down due to Low PressureSensor Protection Control 3	
	413	Outdoor SUMP DOWN_1 Protection Control	
	414	Outdoor SUMP DOWN_2 Protection Control	
	415	Outdoor SUMP DOWN_3 Protection Control	
	416	Outdoor DischargeTemperature _1 Protection Control	
	417	Outdoor DischargeTemperature _2 Protection Control	
	418	Outdoor DischargeTemperature _3 Protection Control	
	419	Outdoor EEV#1 opening 6th Self-Check Error	
	420	Outdoor EEV#2 opening 6th Self-Check Error	
	421	Outdoor EEV#3 opening 6th Self-Check Error	
	422	Outdoor EEV#1 closing 6th Self-Check Error	

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Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	423	Outdoor EEV#2 closing 6th Self-Check Error	
	424	Outdoor EEV#3 closing 6th Self-Check Error	
	425	Outdoor Reverse Phase or Missing Phase detect 1 Error	
	426	Outdoor Reverse Phase or Missing Phase detect 2 Error	
	427	Outdoor Reverse Phase or Missing Phase detect 3 Error	
	428	COMP down by Compression Ratio control Error 1	
	429	COMP down by Compression Ratio control Error 2	
	430	COMP down by Compression Ratio control Error 3	
	431	Oil Balance Valve1 Error	
	432	Oil Balance Valve2 Error	
	433	Oil Balance Valve3 Error	
	434	Oil Balance Valve opening Error (In DVM PLUS 2, HotGasValve Opening Error)	
	435	Water Cooling Flow Switch Error	
	436	Evaporator Protect for Freeze and Burst Error	
	437	Oil Balance Valve Closing Error(In DVM PLUS 2, HotGasValve Opening Error)	
	438	EVI EEV Opening Error	
	439	Error due to refrigerant leakage	
	440	Forbid Heat mode operation when outdoor temperature is over 30°C	
	441	Forbid Cooling Mode when OutdoorTemperature is less than -5°C	
	442	Forbid an operation during heat mode with refrigerant charging operation when outdoor temperature is over 15°C	
	443	Before Cooling working, less than Low Pressure 1K(inability to re-operate)	
	445	CCH is detached. CCH Self-Check Error (CCH malfunction Or Sump Sensor miss connection).	
	446	Error due to operation failure of Fan1. Fan Controller 1 Fan failed maneuver.	
	447	Motor wire of Fan1 is not connected. Fan controller wiring 1 Wire U.S.	
	448	Lock error on Fan1. Fan Controller 1 Lock error.	
	450	COND High Temperature(Protection Control) Every Time	
	451	Low Pressure Switch Low Pressure(Protection Control)	
	452	Instant power off Error (delete when COMP re-operate) Outdoor Zero-Crossing Error	
	453	Outdoor Fan high temperature Error	
	454	OutdoorFan RPM Error (more than 2500rpm and the difference that target velocity compare with practical velocity is more than 100rpm per 10SEC, more than 10 times)	

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Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	455	OutdoorFan IPM(Internal PCB Module) high temperature Error	
	456	OutdoorFan Overcurrent Error	
	457	OutdoorFan Reversed direction of the wind Error	
	458	Outdoor unit Fan (Fan Error) Or CT1 over currency	
	459	Outdoor unit IPM Fault Error Or CT2 over currency	
	460	Outdoor unit communication-power disconnected detect Or CT3 over currency	
	461	Inverter COMP operating failure Or CT1 low currency	
	462	All currency control COMP Stop Or CT2 low currency	
	463	OLP Temperature control COMP Stop Or CT3 low currency	
	464	DC Peak COMP stop	
	465	COMP Overload stop(over 30A)	
	466	DC Link voltage less than 150V,over 410V	
	467	COMP revolute error Or COMP Wire In-connection	
	468	Inv Comp Current Sensor Error	
	469	DC Link Sensor Error	
	470	Outdoor unit EEPROM Read/Write Error	
	471	Outdoor unit EEPROM Read/Write Error(OTP error)	
	472	Outdoor unit Zero crossing Error	
	473	inverter Comp Lock Error	
	474	Heat sink temperature sensor error of inverter PBA1	
	475	Outdoor unit BLDC Fan 2 Error Or OutdoorFan2 RPM Error (more than 2500rpm and the difference that target velocity compare with practical velocity is more than 100rpm per 10SEC, more than 10 times)	
	476	4WAY Error detect	Self-Check, After 6 times, COMP DOWN
	477	Control for protecting liquid refrigerant	
	478	Error due to over current of Fan1. OutdoorFan IPM H/W OC.	
	479	4WAY miss connection detect Error	PAC Fixed
	480	Fixed Comp 1 Stege OLP Protection Control(leakage for refrigerant Error)	
	481	Comp1 operating Error	Duct for India
	482	Comp2 operating Error	Duct for India
	483	Overvoltage of H/W Detect DC Link	INV
	484	PFC Overload (overcurrent) Error	

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Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	485	Error due to input current of inverter 1. Input current Sensor Error.	
	486	Error due to over voltage/low voltage of Fan. Outdoor Fan DC-Link Voltage Under/Over Error.	
	487	Hall IC error of Fan1. Outdoor Fan Hall Sensor Error.	
	489	V-limit error on Fan1 of compressor	
	490	Outdoor Temperature 0 deegree & Indoor Temperature less than 0 deegree prohibition to operate	ERV Ventilation System
	491	Fan Controller1 EEPROM Read/Write Error	
	492	Outdoor Fan2 IPM H/W OC	
	493	Output current sensor error of Fan1. Fan Controller1 Current Sensor Error.	
	494	Delayed time Error due to OutdoorFan2 Fan Error	
	495	Outdoor Fan2 Overheat Error	
	496	DC voltage sensor error of Fan1. Fan Controller1 DC Link Sensor Error.	
	497	Outdoor Fan2 Overcurrent Error	
	498	Outdoor Fan2 IPM(Internal PCB Module) Overheat Error	
	499	Heat sink temperature sensor error of Fan1. Fan Controller1 Heat Sink Temp Sensor Error.	
	500	IPM Overheat Error for Inverter COMP	
	503	Error due to alert the user to check if the service valve is closed	
	504	Error due to self diagnosis of compressor operation	
	505	Error due to self diagnosis of high pressure sensor	
	506	Error due to self diagnosis of low pressure sensor	
	512	RESERVED(DMS-SNET3 Error)	Refer to Error History
	551	Defrost working	
	552	Low Discharge Pressure	
	553	equability operation	
	554	loading_failure / total Leakage of Refrigerant of Outdoor Unit	side of COMP1 of Duct for India
	555	Recovery of oil	
	556	Outdoor Unit power set option Error	
	557	When DPM mode, Product option are not same between indoor units	
	559	indoor Unit operating stop due to detect unknown error in Outdoor Unit	
	560	Outdoor Unit Switch option setting error(not applied)	
	561	Outdoor Unit SA(SUPPLY AIR) FAN RPM	

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Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	562	Outdoor Unit RA(ROOM AIR) FAN RPM	
	563	indoor Unit mixed install error	
	564	IAQ Clean Fan Error	
	565	Miss connection Error between Comp and power wire - power line of Eva1 connect with Comp2 or power line of Eva2 connect with Comp1	Duct for India
	570	Boot Code Check FAIL	
	573	Error due to using single type outdoor unit in a module installation	
	574	Total Leakage of Refrigerant of Outdoor Unit 2	Comp2 side of Duct for India
	575	Total Leakage of Refrigerant of Outdoor Unit 3 (Comp1, Comp2 bot detected)	Duct for India both detect
	601	Wired LCD (controller) <-> Indoor Unit Communication Error	
	602	Master Wire LCD <-> Slave Wire LCD Communication Error	
	603	Communication Packet Error (Baudrate / different communication type)	
	604	Wired LCD (controller) <-> Indoor Unit Tracking Error over 10 times	check for system error
	605	7 Day Scheduler <-> Wire LCD ,CAUR Communication Error	
	606	Wire LCD COM1/COM2 Cross Install Error	
	607	Wile Wire LCD Master-Master installation, Communication Error	
	608	External linkage ERV Controller No installation Error	
	609	External linkage Indoor No installation Error	
	610	CAUR <-> Transmitter Communication Error	
	611	DMS <-> CAUR Communication Error	
	612	DMS <-> PEAK Transmitter Communication Error	
	613	DMS <-> PIM/SIM Transmitter Communication Error	
	614	Amount of eletricity syste <-> PIM/SIM Transmitter Communication Error	
	615	Transmitter <-> Indoor unit Communication Error (After complete Transmitter Tracking, for 2min some indoor unit can't communicate.)	
	616	Transmitter <-> Outdoor unit Communication Error (After complete Transmitter Tracking, for 2min outdoor unit can't communicate)	
	617	Peak power Transmitter <-> Demand Controller Communication Error, Demand Transmitter <-> Amount of eletricity system communication Error	
	618	ERV Controller+indoor unit (16EA) over Max install number Error	
	619	celsius/fahrenheit indoor unit mixed install Error (out of indoor unit connected with New wire LCD, "Celsius/Fahrenheit" indoor unit mixed install)	
	620	New Wire Remote controller "celsius/Fahrenheit" Set Error (Dip S/W #4 Set Error)	

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Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	621	New Wire Remote controller Master/Slave Dip Switch option Set Error (Difference with set option of Master and Slave)	
	622	Demand Controller / select the type of amount of electricity system Error	
	623	Demand Transmitter PT / CT ratio set Error	
	624	Demand Transmitter data receive error from amount of electricity	
	625	Master DMS ? Slave DMS Communication Error	
	626	ERV linkage wire remote controller(AWR-WE00) ERV separate installation Error (not connect indoor unit and, only ERV be installed) indoor unit linkage wire remocontroller(AWR-VH10) indoor unit separate installation Error (not connect indoor unit and, only ERV be installed)	
	627	While in linkage control Master/Slave Wire Remote controller, Slave Wire Remote controller 2EA installation Error (Installing Wire Remocontroller set slave in Master Wire Remocontroller 2EA at the same time)	
	628	DMS <-> Transmitter Communication Error	
	629	DMS <-> DDC Communication Error	
	630	ERV wire remote controller normal ventilation option set Error - Check normal ventilation option set only. - ERV normal ventilation No option, use Wire Remote controller option normal ventilation	
	631	ERVWire Remote controller auto ventilation option set Error - Check set auto ventilation only - ERV auto ventilation no option, use wire remote controller auto ventilation	
	632	Error when input the pulse except set the value of Pulse Width by PIM 1. less than 20ms , 2. over 400ms , 3. over range of set pulse width, 4. repeated pulse over 3min	
	652	While COM 1 Dual Master installation Communication Error	
	653	temperature Sensor Open/Short Error	reference page 34
	654	FRAM Error or damper Error(ERV model)	
	655	RESERVED(DMS-SNET3 Error)	Refer to Error History
	656	RESERVED(DMS-SNET3Error)	Refer to Error History
	701	float 1st	
	702	Indoor EEV clcosing 1st	
	703	Indoor EEV opening 1st	
	720	Outdoor EEV#1 opening Self-Check Every time error	
	721	Outdoor EEV#2 opening Self-Check Every time error	
	722	Outdoor EEV#3 opening Self-Check Every time error	
	723	Outdoor EEV#1 closing Self-Check Every time error	
	724	Outdoor EEV#2 closing Self-Check Every time error	
	725	Outdoor EEV#3 closing Self-Check Every time error	
	768	RESERVED(DMS-SNET3)	Error History

****Not all error codes apply to North American Products****

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	801	[GHP-R410A] communication error : "IF <-> Outdoor unit" : Disconnection	
	802	[GHP-R410A] communication error : "Outdoor unit <-> IF" : Disconnection	
	803	[GHP-R410A] communication error : "IF <-> Indoor unit" some disconnect in Indoor unit (communicating)	
	804	[GHP-R410A] communication error : Among outdoor unit	
	805	[GHP-R410A] Error setting outdoor unit organization	
	806	[GHP-R410A] Remocon Sensor disconnect/short circuit	
	807	[GHP-R410A] outdoor liquid pipe Sensor disconnect/short circuit	
	808	[GHP-R410A] outdoor Unit - overcooling heat exchanger entry temp thermystor disconnect/short circuit	
	809	[GHP-R410A]COMP suction temp overheat	
	810	[GHP-R410A] COMP suction superheat not soar	
	811	[GHP-R410A] refrigerant high pressure Switch disconnect	
	812	[GHP-R410A] Gas EEV Output error	
	813	[GHP-R410A] refrigerant low pressure Sensor error(2nd)	
	814	[GHP-R410A] refrigerant high pressure Sensor error 1	
	815	[GHP-R410A] refrigerant high pressure Sensor error 2 (value of high pressure sensor less than standard low pressure)	
	816	[GHP-R410A] Water Pump operation failure	
	817	[GHP-R410A] Water Pump a number of revolute error	
	818	[GHP-R410A] IPM(outdoor unit FAN operating Driver) error	
	819	[GHP-R410A] outdoor heat exchange Fan 1 operating failure	
	820	[GHP-R410A] outdoor heat exchange Fan 2 operating failure	
	821	[GHP-R410A] outdoor heat exchange Fan 3 operating failure	
	822	[GHP-R410A] outdoor heat exchange Fan 1 a number of revolute error	
	823	[GHP-R410A] outdoor heat exchange Fan 2 a number of revolute error	
	824	[GHP-R410A] outdoor heat exchange Fan 3 a number of revolute error	
	825	[GHP-R410A] outdoor Unit - heat exchange Fan error	
	826	[GHP-R410A] outdoor Unit - Accum exit temp thermystor 1 disconnect/short circuit	
	827	[GHP-R410A] outdoor Unit - Accum exit temp thermystor 2 disconnect/short circuit	
	828	[GHP-R410A] outdoor unit Unit - refrigerant low pressure Switch disconnect	
	829	[GHP-R410A] refrigerant low pressure error	
	830	[GHP-R410A] three phase error	
	831	[GHP-R410A] one phase power part error	

****Not all error codes apply to North American Products****

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	832	[GHP-R410A] Main - Sub MICOM Program Version Unmatch	
	833	[GHP-R410A] indoor unit connection number Over	
	834	[GHP-R410A] indoor unit connection capacity Over	
	835	[GHP-R410A] outdoor-indoor connection Unmatch	
	836	[GHP-R410A] Outdoor Unit -Regular Inspection	
	837	[GHP-R410A] Refrigerant High pressure error 1	
	838	[GHP-R410A] Refrigerant High pressure error 2	
	841	[GHP-R410A] Outdoor Unit Gas Temp Thermistor short/disconnection	
	843	[GHP-R410A] Engine water temp Sensor short/disconnection	
	844	[GHP-R410A] Engine discharge temp Sensor disconnection	
	845	[GHP-R410A] Engine fluid pressure error	
	846	[GHP-R410A] Engine Fluid pressure Switch disconnected	
	847	[GHP-R410A] Engine over revolute 1	
	848	[GHP-R410A] Engine over revolute 2	
	849	[GHP-R410A] Starter Error	
	850	[GHP-R410A] Engine a number of revolute control error	
	851	[GHP-R410A] Engine Stop	
	852	[GHP-R410A] IGUNAITA(firer) low voltage	
	853	[GHP-R410A] IGUNAITA(firer) disconnect	
	854	[GHP-R410A] IGUNAITA(firer) over voltage	
	855	[GHP-R410A] Engine discharge temp Error	
	856	[GHP-R410A] Engine water temp overheat	
	857	[GHP-R410A] Engine operation failure	
	858	[GHP-R410A] Engine cooling	
	859	[GHP-R410A] Engine insufficient operating revolute	
	860	[GHP-R410A] Engine a number of revolute Haunting Error	
	861	[GHP-R410A] COMP discharge temperature overheat	
	862	[GHP-R410A] Compressor Discharge temperature Sensor1 short/disconnection	
	863	[GHP-R410A] Compressor Discharge temperature Sensor2 short/disconnection	
	864	[GHP-R410A] Compressor Discharge temperature Sensor3 short/disconnection	
	865	[GHP-R410A] Compressor Discharge temperature Sensor4 short/disconnection	

****Not all error codes apply to North American Products****

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	866	[GHP-R410A] Compressor nhale temperature Sensor1 short/disconnection	
	867	[GHP-R410A] Compressor suction temperature Sensor2 short/disconnection	
	868	[GHP-R22] Outdoor Unit - Accum Entrance Temperature Sensor short/disconnection	
	869	[GHP-R22] Outdoor Unit - refrigerants Gas pipe temperature Sensor short/disconnection	
	870	[GHP-R22] Outdoor Unit - comp lubricating oil insufficiency error	
	871	[GHP-R22] Outdoor Unit - Refrigerant overfill error	
	872	[GHP-R22] Outdoor Unit - Compressor induction temperature error	
	873	[GHP-R22] Engine cooling system Error	
	874	[GHP-R22] Engine Oil System error	
	875	[GHP-R22] Engine power system Error	
	876	[GHP-R22] Engine operating/control system Error	
	880	[GHP-R410A] Outdoor Unit - Engine Temp of Cooling water low	
	881	[GHP-R410A] Outdoor Unit - leakage of Engine oil	
	882	[GHP-R410A] Outdoor Unit - Lack of Comp oil	
	883	[GHP-R410A] Outdoor Unit - starter Trans voltage short	
	901	Water Inlet Sensor(Tw1) SHORT / OPEN	
	902	Water Outlet Sensor(Tw3) SHORT / OPEN	
	903	PHE Sensor(Tw2) SHORT / OPEN	
	904	Water TANK Sensor SHORT / OPEN	
	905	SOLAR Sensor SHORT / OPEN	
	911	Flow Swtich Open Error	
	912	Flow Swtich Close Error	
	UP	Trial operation incompleted (UnPrepared) - It will be cleared when trial operation was executed for 1 hour or when automatic inspection is completed	DVM S Only (does not apply to CAC)

****Not all error codes apply to North American Products****

Option Codes

TYPE	MODEL	OPTION CODE	DESCRIPTION	STATIC
1-Way Cassette	AM007FN1DCH/AA	017044-1180C8-201616-330010	7,000 btu/h	N/A
	AM009FN1DCH/AA	017044-1180F8-201C1C-330010	9,000 btu/h	N/A
	AM012FN1DCH/AA	017044-11545D-202323-330010	12,000 btu/h	N/A
Mini 4-Way Cassette	AM009FNNDCH/AA	01504F-19540A-201C1C-330000	9,000 btu/h	N/A
	AM012FNNDCH/AA	01504F-19342C-202323-330000	12,000 btu/h	N/A
	AM018FNNDCH/AA	01504F-19547F-203434-330000	18,000 btu/h	N/A
	AM020FNNDCH/AA	01504F-195591-203C3C-330000	20,000 btu/h	N/A
4-Way Cassette	AM009FN4DCH/AA	014047-195064-201A1A-330000	9,000 btu/h	N/A
	AM012FN4DCH/AA	014047-195097-202323-330000	12,000 btu/h	N/A
	AM018FN4DCH/AA	014047-195097-203434-330000	18,000 btu/h	N/A
	AM024FN4DCH/AA	014047-1950C7-204848-330000	24,000 btu/h	N/A
	AM030FN4DCH/AA	014047-195409-205A5A-330020	30,000 btu/h	N/A
	AM036FN4DCH/AA	014047-19541B-206E6E-330020	36,000 btu/h	N/A
	AM048FN4DCH/AA	014047-19544F-209191-330020	48,000 btu/h	N/A
Neo Forte	AM007FNTDCH/AA	010044-1170FA-201616-330000	External EEV - 7,000 btu/h	N/A
	AM009FNTDCH/AA	010044-1170FA-201C1C-330000	External EEV - 9,000 btu/h	N/A
	AM012FNTDCH/AA	010044-11744D-202323-330000	External EEV - 12,000 btu/h	N/A
	AM018FNTDCH/AA	010044-11645E-203434-330020	External EEV - 18,000 btu/h	N/A
	AM020FNTDCH/AA	010044-11646F-203C3C-330020	External EEV - 20,000 btu/h	N/A
	AM024FNTDCH/AA	010044-11648F-204848-330020	External EEV - 24,000 btu/h	N/A
	AM007HNQDCH/AA	010044-1170FA-201616-330000	Internal EEV - 7,000 btu/h	N/A
	AM009HNQDCH/AA	010044-1170FA-201C1C-330000	Internal EEV - 9,000 btu/h	N/A
	AM012HNQDCH/AA	010044-11744D-202323-330000	Internal EEV - 12,000 btu/h	N/A
	AM018HNQDCH/AA	010044-11645E-203434-330020	Internal EEV - 18,000 btu/h	N/A
	AM020HNQDCH/AA	010044-11646F-203C3C-330020	Internal EEV - 20,000 btu/h	N/A
	AM024HNQDCH/AA	010044-11648F-204848-330020	Internal EEV - 24,000 btu/h	N/A

Option Codes

TYPE	MODEL	OPTION CODE	DESCRIPTION	STATIC
Slim Duct	AM007FNLDCH/AA	010054-1254AE-201616-331110	7,000 btu/h	0"
	AM007FNLDCH/AA	010054-1255D1-201616-331110	7,000 btu/h	0.04" (default)
	AM007FNLDCH/AA	010054-1255D1-201616-331110	7,000 btu/h	0.08"
	AM007FNLDCH/AA	010054-125904-201616-331110	7,000 btu/h	0.16"
	AM009FNLDCH/AA	010054-121913-201C1C-331110	9,000 btu/h	0"
	AM009FNLDCH/AA	010054-121946-201C1C-331110	9,000 btu/h	0.04" (default)
	AM009FNLDCH/AA	010054-121946-201C1C-331110	9,000 btu/h	0.08"
	AM009FNLDCH/AA	010054-121979-201C1C-331110	9,000 btu/h	0.16"
	AM012FNLDCH/AA	010054-121946-202323-331110	12,000 btu/h	0"
	AM012FNLDCH/AA	010054-121979-202323-331110	12,000 btu/h	0.04" (default)
	AM012FNLDCH/AA	010054-121979-202323-331110	12,000 btu/h	0.08"
	AM012FNLDCH/AA	010054-1219AC-202323-331110	12,000 btu/h	0.16"
	AM018FNLDCH/AA	010054-1259BA-203434-331110	18,000 btu/h	0"
	AM018FNLDCH/AA	010054-1259ED-203434-331110	18,000 btu/h	0.04" (default)
	AM018FNLDCH/AA	010054-1259ED-203434-331110	18,000 btu/h	0.08"
	AM018FNLDCH/AA	010054-125E10-203434-331110	18,000 btu/h	0.16"
	AM024FNLDCH/AA	010054-125D2D-204848-331110	24,000 btu/h	0"
	AM024FNLDCH/AA	010054-125E50-204848-331110	24,000 btu/h	0.04" (default)
	AM024FNLDCH/AA	010054-125E50-204848-331110	24,000 btu/h	0.08"
	AM024FNLDCH/AA	010054-125E83-204848-331110	24,000 btu/h	0.16"
	AM030FNLDCH/AA	010054-1B5915-205A5A-331110	30,000 btu/h	0"
	AM030FNLDCH/AA	010054-1B5948-205A5A-331110	30,000 btu/h	0.04" (default)
	AM030FNLDCH/AA	010054-1B599F-205A5A-331110	30,000 btu/h	0.12"
	AM030FNLDCH/AA	010054-1B5AE4-205A5A-331110	30,000 btu/h	0.24"
	AM036FNLDCH/AA	010054-1B5956-206E6E-331110	36,000 btu/h	0"
	AM036FNLDCH/AA	010054-1B5989-206E6E-331110	36,000 btu/h	0.04" (default)
	AM036FNLDCH/AA	010054-1B5AD0-206E6E-331110	36,000 btu/h	0.12"
	AM036FNLDCH/AA	010054-1B5E25-206E6E-331110	36,000 btu/h	0.24"
	AM048FNLDCH/AA	010054-1B59B9-209191-331110	48,000 btu/h	0"
	AM048FNLDCH/AA	010054-1B59EC-209191-331110	48,000 btu/h	0.04" (default)
	AM048FNLDCH/AA	010054-1B5E33-209191-331110	48,000 btu/h	0.12"
	AM048FNLDCH/AA	010054-1B5E88-209191-331110	48,000 btu/h	0.24"

Option Codes

TYPE	MODEL	OPTION CODE	DESCRIPTION	STATIC	
Medium Static Duct (2015)	AM007JNMDCH/AA	010054-1B5095-201616-331110	7,500 btu/h	0" - 0.04" (default)	
	AM007JNMDCH/AA	010054-1B50F8-201616-331110	7,500 btu/h	0.04" - 0.12"	
	AM007JNMDCH/AA	010054-1B544B-201616-331110	7,500 btu/h	0.12" - 0.2"	
	AM007JNMDCH/AA	010054-1B549E-201616-331110	7,500 btu/h	0.2" - 0.3"	
	AM007JNMDCH/AA	010054-1B55D1-201616-331110	7,500 btu/h	0.3" - 0.39"	
	AM007JNMDCH/AA	010054-1B5913-201616-331110	7,500 btu/h	0.39" - 0.49"	
	AM007JNMDCH/AA	010054-1B5956-201616-331110	7,500 btu/h	0.49" - 0.59"	
	AM009JNMDCH/AA	010054-1B5096-201C1C-331110	9,500 btu/h	0" - 0.04" (default)	
	AM009JNMDCH/AA	010054-1B50FA-201C1C-331110	9,500 btu/h	0.04" - 0.12"	
	AM009JNMDCH/AA	010054-1B544D-201C1C-331110	9,500 btu/h	0.12" - 0.2"	
	AM009JNMDCH/AA	010054-1B5591-201C1C-331110	9,500 btu/h	0.2" - 0.3"	
	AM009JNMDCH/AA	010054-1B55E4-201C1C-331110	9,500 btu/h	0.3" - 0.39"	
	AM009JNMDCH/AA	010054-1B5917-201C1C-331110	9,500 btu/h	0.39" - 0.49"	
	AM009JNMDCH/AA	010054-1B595A-201C1C-331110	9,500 btu/h	0.49" - 0.59"	
	AM012JNMDCH/AA	010054-1B50A6-202323-331110	12,000 btu/h	0" - 0.04" (default)	
	AM012JNMDCH/AA	010054-1B5409-202323-331110	12,000 btu/h	0.04" - 0.12"	
	AM012JNMDCH/AA	010054-1B545C-202323-331110	12,000 btu/h	0.12" - 0.2"	
	AM012JNMDCH/AA	010054-1B54AF-202323-331110	12,000 btu/h	0.2" - 0.3"	
	AM012JNMDCH/AA	010054-1B55F2-202323-331110	12,000 btu/h	0.3" - 0.39"	
	AM012JNMDCH/AA	010054-1B5934-202323-331110	12,000 btu/h	0.39" - 0.49"	
	AM012JNMDCH/AA	010054-1B5967-202323-331110	12,000 btu/h	0.49" - 0.59"	
	AM015JNMDCH/AA	010054-1B50F9-202C2C-331110	15,000 btu/h	0" - 0.04" (default)	
	AM015JNMDCH/AA	010054-1B544D-202C2C-331110	15,000 btu/h	0.04" - 0.12"	
	AM015JNMDCH/AA	010054-1B5580-202C2C-331110	15,000 btu/h	0.12" - 0.2"	
	AM015JNMDCH/AA	010054-1B55D3-202C2C-331110	15,000 btu/h	0.2" - 0.3"	
	AM015JNMDCH/AA	010054-1B5915-202C2C-331110	15,000 btu/h	0.3" - 0.39"	
	AM015JNMDCH/AA	010054-1B5968-202C2C-331110	15,000 btu/h	0.39" - 0.49"	
AM015JNMDCH/AA	010054-1B59AB-202C2C-331110	15,000 btu/h	0.49" - 0.59"		

Option Codes

TYPE	MODEL	OPTION CODE	DESCRIPTION	STATIC
Medium Static Duct (2015)	AM018JNMDCH/AA	010054-1B542C-203535-331110	18,000 btu/h	0" - 0.04" (default)
	AM018JNMDCH/AA	010054-1B5570-203535-331110	18,000 btu/h	0.04" - 0.12"
	AM018JNMDCH/AA	010054-1B55B4-203535-331110	18,000 btu/h	0.12" - 0.2"
	AM018JNMDCH/AA	010054-1B5907-203535-331110	18,000 btu/h	0.2" - 0.3"
	AM018JNMDCH/AA	010054-1B594A-203535-331110	18,000 btu/h	0.3" - 0.39"
	AM018JNMDCH/AA	010054-1B599D-203535-331110	18,000 btu/h	0.39" - 0.49"
	AM018JNMDCH/AA	010054-1B5AD0-203535-331110	18,000 btu/h	0.49" - 0.59"
Medium Static Duct	AM018FNMDCH/AA	010054-125571-203434-331110	18,000 btu/h	0"
	AM018FNMDCH/AA	010054-125593-203434-331110	18,000 btu/h	0.08"
	AM018FNMDCH/AA	010054-1255C5-203434-331110	18,000 btu/h	0.16" (default)
	AM018FNMDCH/AA	010054-1255F5-203434-331110	18,000 btu/h	0.24"
	AM018FNMDCH/AA	010054-125957-203434-331110	18,000 btu/h	0.32"
	AM024FNMDCH/AA	010054-125904-204848-331110	24,000 btu/h	0"
	AM024FNMDCH/AA	010054-125936-204848-331110	24,000 btu/h	0.08"
	AM024FNMDCH/AA	010054-125979-204848-331110	24,000 btu/h	0.16" (default)
	AM024FNMDCH/AA	010054-125DF9-204848-331110	24,000 btu/h	0.24"
	AM024FNMDCH/AA	010054-125DFC-204848-331110	24,000 btu/h	0.32"
	AM030FNMDCH/AA	010054-1259CE-205A5A-331110	30,000 btu/h	0.24"
	AM030FNMDCH/AA	010054-125E02-205A5A-331110	30,000 btu/h	0.32" (default)
	AM030FNMDCH/AA	010054-125E00-205A5A-331110	30,000 btu/h	0.4"
	AM036FNMDCH/AA	010054-125E00-206E6E-331110	36,000 btu/h	0.24"
	AM036FNMDCH/AA	010054-125E44-206E6E-331110	36,000 btu/h	0.32" (default)
	AM036FNMDCH/AA	010054-125E88-206E6E-331110	36,000 btu/h	0.4"
	AM048FNMDCH/AA	010054-125E20-209191-331110	48,000 btu/h	0.24"
	AM048FNMDCH/AA	010054-125E43-209191-331110	48,000 btu/h	0.32" (default)
	AM048FNMDCH/AA	010054-125E86-209191-331110	48,000 btu/h	0.4"

Option Codes

TYPE	MODEL	OPTION CODE	DESCRIPTION	STATIC
High Static Duct (2015)	AM024JNHDC/AA	010054-1355A6-204646-331110	24,000 btu/h	0.12" - 0.21" (default)
	AM024JNHDC/AA	010054-1355F9-204646-331110	24,000 btu/h	0.21" - 0.3"
	AM024JNHDC/AA	010054-13594E-204646-331110	24,000 btu/h	0.3" - 0.39"
	AM024JNHDC/AA	010054-135A70-204646-331110	24,000 btu/h	0.39" - 0.49"
	AM024JNHDC/AA	010054-135AA3-204646-331110	24,000 btu/h	0.49" - 0.59"
	AM024JNHDC/AA	010054-135AE6-204646-331110	24,000 btu/h	0.59" - 0.69"
	AM024JNHDC/AA	010054-135E18-204646-331110	24,000 btu/h	0.69" - 0.79"
	AM027JNHDC/AA	010054-1355C7-204F4F-331110	27,000 btu/h	0.12" - 0.21" (default)
	AM027JNHDC/AA	010054-13591C-204F4F-331110	27,000 btu/h	0.21" - 0.3"
	AM027JNHDC/AA	010054-13595F-204F4F-331110	27,000 btu/h	0.3" - 0.39"
	AM027JNHDC/AA	010054-135A93-204F4F-331110	27,000 btu/h	0.39" - 0.49"
	AM027JNHDC/AA	010054-135AC5-204F4F-331110	27,000 btu/h	0.49" - 0.59"
	AM027JNHDC/AA	010054-135E08-204F4F-331110	27,000 btu/h	0.59" - 0.69"
	AM027JNHDC/AA	010054-135E3A-204F4F-331110	27,000 btu/h	0.69" - 0.79"
	AM030JNHDC/AA	010054-1355D8-205858-331110	30,000 btu/h	0.12" - 0.21" (default)
	AM030JNHDC/AA	010054-13593A-205858-331110	30,000 btu/h	0.21" - 0.3"
	AM030JNHDC/AA	010054-13598E-205858-331110	30,000 btu/h	0.3" - 0.39"
	AM030JNHDC/AA	010054-135AB1-205858-331110	30,000 btu/h	0.39" - 0.49"
	AM030JNHDC/AA	010054-135AF4-205858-331110	30,000 btu/h	0.49" - 0.59"
	AM030JNHDC/AA	010054-135E37-205858-331110	30,000 btu/h	0.59" - 0.69"
	AM030JNHDC/AA	010054-135E59-205858-331110	30,000 btu/h	0.69" - 0.79"
	AM036JNHDC/AA	010054-135919-206969-331110	36,000 btu/h	0.12" - 0.21" (default)
	AM036JNHDC/AA	010054-135A70-206969-331110	36,000 btu/h	0.21" - 0.3"
	AM036JNHDC/AA	010054-135AB4-206969-331110	36,000 btu/h	0.3" - 0.39"
	AM036JNHDC/AA	010054-135AF7-206969-331110	36,000 btu/h	0.39" - 0.49"
	AM036JNHDC/AA	010054-135E39-206969-331110	36,000 btu/h	0.49" - 0.59"
	AM036JNHDC/AA	010054-135E6C-206969-331110	36,000 btu/h	0.59" - 0.69"
	AM036JNHDC/AA	010054-135EAF-206969-331110	36,000 btu/h	0.69" - 0.79"

Option Codes

TYPE	MODEL	OPTION CODE	DESCRIPTION	STATIC	
High Static Duct (2015)	AM048JNHDCH/AA	010054-135A82-208D8D-331110	48,000 btu/h	0.12" - 0.21" (default)	
	AM048JNHDCH/AA	010054-135AC5-208D8D-331110	48,000 btu/h	0.21" - 0.3"	
	AM048JNHDCH/AA	010054-135E18-208D8D-331110	48,000 btu/h	0.3" - 0.39"	
	AM048JNHDCH/AA	010054-135E5B-208D8D-331110	48,000 btu/h	0.39" - 0.49"	
	AM048JNHDCH/AA	010054-135E9F-208D8D-331110	48,000 btu/h	0.49" - 0.59"	
	AM048JNHDCH/AA	010054-135FB2-208D8D-331110	48,000 btu/h	0.59" - 0.69"	
	AM048JNHDCH/AA	010054-135FC5-208D8D-331110	48,000 btu/h	0.69" - 0.79"	
	AM054JNHDCH/AA	010054-135E07-209E9E-331110	54,000 btu/h	0.12" - 0.21" (default)	
	AM054JNHDCH/AA	010054-135E4A-209E9E-331110	54,000 btu/h	0.21" - 0.3"	
	AM054JNHDCH/AA	010054-135E8D-209E9E-331110	54,000 btu/h	0.3" - 0.39"	
	AM054JNHDCH/AA	010054-135FB1-209E9E-331110	54,000 btu/h	0.39" - 0.49"	
AM054JNHDCH/AA	010054-135FC4-209E9E-331110	54,000 btu/h	0.49" - 0.59"		
High Static Duct	AM036FNHDCH/AA	010054-135562-206E6E-331110	36,000 btu/h	0.2"	
	AM036FNHDCH/AA	010054-1355C6-206E6E-331110	36,000 btu/h	0.40" (default)	
	AM036FNHDCH/AA	010054-13596E-206E6E-331110	36,000 btu/h	0.6"	
	AM036FNHDCH/AA	010054-135AE4-206E6E-331110	36,000 btu/h	0.8"	
	AM048FNHDCH/AA	010054-135AC3-209191-331110	48,000 btu/h	0.2"	
	AM048FNHDCH/AA	010054-135E6A-209191-331110	48,000 btu/h	0.40" (default)	
	AM048FNHDCH/AA	010054-135FA3-209191-331110	48,000 btu/h	0.6"	
	AM048FNHDCH/AA	010054-135FC8-209191-331110	48,000 btu/h	0.8"	
	AM072FNHDCH/AA	011054-195097-20DCDC-331110	72,000 btu/h	0.2"	
	AM072FNHDCH/AA	011054-1950C7-20DCDC-331110	72,000 btu/h	0.4"	
	AM072FNHDCH/AA	011054-1950E8-20DCDC-331110	72,000 btu/h	0.60" (default)	
	AM072FNHDCH/AA	011054-19544D-20DCDC-331110	72,000 btu/h	0.8"	
	AM072FNHDCH/AA	011054-19549F-20DCDC-331110	72,000 btu/h	0.98"	
	AM096FNHDCH/AA	011054-195407-231C1C-331110	96,000 btu/h	0.2"	
	AM096FNHDCH/AA	011054-195429-231C1C-331110	96,000 btu/h	0.4"	
	AM096FNHDCH/AA	011054-19545B-231C1C-331110	96,000 btu/h	0.60" (default)	
	AM096FNHDCH/AA	011054-19549E-231C1C-331110	96,000 btu/h	0.8"	
AM096FNHDCH/AA	011054-1955D1-231C1C-331110	96,000 btu/h	0.98"		
AM096FNHDCH/AA	011054-1955F3-231C1C-331110	96,000 btu/h	1.1"		

Option Codes

TYPE	MODEL	OPTION CODE	DESCRIPTION	STATIC
OAP Duct	AM072JNESCH/AA	01B064-19348E-231515-333000	72,000 btu/h	1.14" - 1.21"
	AM072JNESCH/AA	01B064-19343E-231515-333000	72,000 btu/h	0.97" - 1" (default)
	AM072JNESCH/AA	01B064-1930EC-231515-333000	72,000 btu/h	0.77" - 0.82"
	AM072JNESCH/AA	01B064-193097-231515-333000	72,000 btu/h	0.58" - 0.62"
	AM072JNESCH/AA	01B064-193051-231515-333000	72,000 btu/h	0.37" - 0.42"
	AM072JNESCH/AA	01B064-193020-231515-333000	72,000 btu/h	0.15" - 0.23"
	AM096JNESCH/AA	01B064-1934AE-231C1C-333000	96,000 btu/h	1.16" - 1.21"
	AM096JNESCH/AA	01B064-19345E-231C1C-333000	96,000 btu/h	0.97" - 1.02" (default)
	AM096JNESCH/AA	01B064-19340E-231C1C-333000	96,000 btu/h	0.78" - 0.82"
	AM096JNESCH/AA	01B064-1930A8-231C1C-333000	96,000 btu/h	0.57" - 0.62"
	AM096JNESCH/AA	01B064-193061-231C1C-333000	96,000 btu/h	0.37" - 0.43"
	AM096JNESCH/AA	01B064-193030-231C1C-333000	96,000 btu/h	0.17" - 0.27"
	AHU Kit	MXD-K025AN	01A054-105000-204646-330100	12,000 ~ 30,000 btu/h
MXD-K025AN		01A054-105000-204646-330110	12K ~ 30K btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 1" max
MXD-K050AN		01A054-105000-208C8C-330100	36,000 ~ 60,000 btu/h	0.4" (default), 1" max
MXD-K050AN		01A054-105000-208C8C-330110	36K ~ 60K btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 1" max
MXD-K075AN		01A054-105000-20D2D2-330100	72,000 ~ 90,000 btu/h	0.4" (default), 1" max
MXD-K075AN		01A054-105000-20D2D2-330110	72K ~ 90K btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 1" max
MXD-K100AN		01A054-105000-231C1C-330100	96,000 ~ 120,000 btu/h	0.4" (default), 1" max
MXD-K100AN		01A054-105000-231C1C-330110	96K ~ 120K btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 1" max
Under-Ceiling Convertible	AM018FNCDCH/AA	013054-105000-203434-330010	18,000 btu/h	N/A
	AM024FNCDCH/AA	013054-105000-204848-330010	24,000 btu/h	N/A
Big Ceiling	AM036JNCDCH/AA	013054-1C2479-206969-330000	36,000 btu/h	N/A
	AM048JNCDCH/AA	013054-1C54BE-208D8D-330000	48,000 btu/h	N/A

Option Codes

TYPE	MODEL	OPTION CODE	DESCRIPTION	STATIC
Concealed Floor Standing	AM006JNFDCH/AA	01A054-105000-201212-330010	6,000 btu/h	N/A
	AM009JNFDCH/AA	01A054-105000-201C1C-330010	9,500 btu/h	N/A
	AM012JNFDCH/AA	01A054-105000-202323-330010	12,000 btu/h	N/A
	AM018JNFDCH/AA	01A054-105000-203434-330010	18,000 btu/h	N/A
	AM024JNFDCH/AA	01A054-105000-204848-330010	24,000 btu/h	N/A
Floor Standing	AM006JNGDCH/AA	01A054-105000-201212-330010	6,000 btu/h	N/A
	AM009JNGDCH/AA	01A054-105000-201C1C-330010	9,500 btu/h	N/A
	AM012JNGDCH/AA	01A054-105000-202323-330010	12,000 btu/h	N/A
	AM018JNGDCH/AA	01A054-105000-203434-330010	18,000 btu/h	N/A
	AM024JNGDCH/AA	01A054-105000-204848-330010	24,000 btu/h	N/A
Multi-position AHU (2015)	AM012JNZDCH/AA	01A054-105000-202323-330100	12000 btu/h	0.1" - 0.5" (default)
	AM012JNZDCH/AA	01A054-105000-202323-330110	12000 btu/h, discharge temp control enabled (requires additional sensor)	0.1" - 0.5"
	AM018JNZDCH/AA	01A054-105000-203535-330100	18000 btu/h	0.1" - 0.7" (default)
	AM018JNZDCH/AA	01A054-105000-203535-330110	18000 btu/h, discharge temp control enabled (requires additional sensor)	0.1" - 0.7"
	AM024JNZDCH/AA	01A054-105000-204646-330100	24000 btu/h	0.1" - 0.7" (default)
	AM024JNZDCH/AA	01A054-105000-204646-330110	24000 btu/h, discharge temp control enabled (requires additional sensor)	0.1" - 0.7"
	AM030JNZDCH/AA	01A054-105000-205858-330100	30000 btu/h	0.1" - 1.0" (default)
	AM030JNZDCH/AA	01A054-105000-205858-330110	30000 btu/h, discharge temp control enabled (requires additional sensor)	0.1" - 1.0"
	AM036JNZDCH/AA	01A054-105000-206969-330100	36000 btu/h	0.1" - 1.0" (default)
	AM036JNZDCH/AA	01A054-105000-206969-330110	36000 btu/h, discharge temp control enabled (requires additional sensor)	0.1" - 1.0"
	AM048JNZDCH/AA	01A054-105000-208D8D-330100	48000 btu/h	0.1" - 1.0" (default)
	AM048JNZDCH/AA	01A054-105000-208D8D-330110	48000 btu/h, discharge temp control enabled (requires additional sensor)	0.1" - 1.0"
	AM054JNZDCH/AA	01A054-105000-209E9E-330100	54000 btu/h	0.1" - 1.0" (default)
	AM054JNZDCH/AA	01A054-105000-209E9E-330110	54000 btu/h, discharge temp control enabled (requires additional sensor)	0.1" - 1.0"
	AM060JNZDCH/AA	01A054-105000-20B0B0-330100	60000 btu/h	0.1" - 1.0" (default)
	AM060JNZDCH/AA	01A054-105000-20B0B0-330110	60000 btu/h, discharge temp control enabled (requires additional sensor)	0.1" - 1.0"
AM072JNZDCH/AA	01A054-105000-20D3D3-330100	72000 btu/h	0.1" - 1.0" (default)	
AM072JNZDCH/AA	01A054-105000-20D3D3-330110	72000 btu/h, discharge temp control enabled (requires additional sensor)	0.1" - 1.0"	

Option Codes

TYPE	MODEL	OPTION CODE	DESCRIPTION	STATIC
QS Multi-position AHU	AM012GNVQCH	01A054-105000-202323-330100	12000 btu/h	0.4" (default), 0.75" max
	AM012GNVQCH	01A054-105000-202323-330110	12000 btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 0.75" max
	AM018GNVQCH	01A054-105000-203434-330100	18000 btu/h	0.4" (default), 0.75" max
	AM018GNVQCH	01A054-105000-203434-330110	18000 btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 0.75" max
	AM024GNVQCH	01A054-105000-204848-330100	24000 btu/h	0.4" (default), 1" max
	AM024GNVQCH	01A054-105000-204848-330110	24000 btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 1" max
	AM030GNVQCH	01A054-105000-205A5A-330100	30000 btu/h	0.4" (default), 1" max
	AM030GNVQCH	01A054-105000-205A5A-330110	30000 btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 1" max
	AM036GNVQCH	01A054-105000-206D6D-330100	36000 btu/h	0.4" (default), 1" max
	AM036GNVQCH	01A054-105000-206D6D-330110	36000 btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 1" max
	AM048GNVQCH	01A054-105000-208E8E-330100	48000 btu/h	0.4" (default), 1" max
	AM048GNVQCH	01A054-105000-208E8E-330110	48000 btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 1" max
	AM054GNVQCH	01A054-105000-209F9F-330100	54000 btu/h	0.4" (default), 1" max
	AM054GNVQCH	01A054-105000-209F9F-330110	54000 btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 1" max
	AM060GNVQCH	01A054-105000-20AFAF-330100	60000 btu/h	0.4" (default), 1" max
	AM060GNVQCH	01A054-105000-20AFAF-330110	60000 btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 1" max
	AM072GNVQCH	01A054-105000-20E0E0-330100	72000 btu/h	0.4" (default), 1" max
	AM072GNVQCH	01A054-105000-20E0E0-330110	72000 btu/h, discharge temp control enabled (requires additional sensor)	0.4" (default), 1" max

Installation Setting

Set the indoor unit option by wireless remote controller, wired controller, or SNET Pro2.

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	RESERVED	External Temperature Sensor/ Reduced Fan Operation	Central Control	Fan RPM Compensation (cassettes)
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Factory Condensate Pump	Hot water heater	Reserved R&D	EEV Stop Step During Heating Thermo Off	Master/Slave (used when multiple IDU's are connected to 1 wired controller)
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External control output	S-plasma ion	Chime/ mixed operation	Filter Reminder Timer
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	Wireless Remote Control Address	Heating setting compensation	EEV opening of an indoor unit stopped during oil return or Defrost operation	MDS (MotionSensor)	360 Cassette air swing cycle time

- ▶ 1WAY/2WAY/4WAY MODEL: Drain pump(SEG8) will be set to 'USE + 3 minute delay' even if the drain pump is set to 0.
- ▶ 1WAY/LWAY/4WAY, DUCT MODEL: Number of hours using filter(SEG18) will be set to '1000 hour' even if the SEG18 is set to except for 2 or 6.
- ▶ If you input a number other than 0-4 of the individual control of the indoor unit(SEG20), the indoor is set as "indoor 1".
- ▶ SEG5 central control option is default set as 1 (Use), so you don't need to set the central control option additionally. However, if the central control is not connected but it doesn't indicate an error message you need to set the central control option as 0 (Disuse) to exclude the indoor unit from the central control.

Installation Setting Cont.

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6		
Explanation	PAGE		MODE		RESERVED R&D		Use of external temperature sensor		Use of central control		Fan RPM COMPENSATION		
Remote Controller Display			Auto 2		Auto 8		Cool 8		Cool 8		Dry 8		
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	
	0		2		0	Disuse	0	Disuse	0	Disuse	0	Disuse	
					1	Use	1	Use	1	Use	1	Use	1
2				2				2			2	High ceiling kit	
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12		
Explanation	PAGE		Use of drain pump		Use of hot water heater		RESERVED		EEV Stop Step During Heating Thermo Off		Master / Slave		
Remote Controller Display			Dry 8		Fan 8		Fan 8		Heat 8		Heat 8		
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	
	1		0	Disuse	0	Disuse	0	Disuse	0	0	0	0	Slave
			1	Use	1	Use	1	Use	1	80	1	Master	
2			Use + 3minute delay										
Option	SEG13		SEG14		SEG15		SEG16		SEG17		SEG18		
Explanation	Page		Use of external control		External Control Output		S-Plasma		Chime/ mixed operation		Filter Reminder Timer		
Remote Controller Display			Auto 8		Auto 8		Cool 8		Cool 8		Dry 8		
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	
	2		0	Disuse	0	Thermo on	0	Disuse	0	Mixed operation control 1 Use buzzer	2	1000 hours	
			1	ON/OFF Control					1	Mixed operation control 1 Disuse of buzzer	6	2000 hours	
2			Off Control	1	Operation on	1	Use	2	Mixed operation control 2 Use buzzer				
3								3	Mixed operation control 2 Disuse of buzzer				
Option	SEG19		SEG20		SEG21		SEG22		SEG23		SEG24		
Explanation	PAGE		Wireless Remote Control Address		Heating setting compensation		EEV opening of an indoor unit stopped during oil return of defrost operation		MDS (motion Sensor)		360 Cassette air swing cycle time		
Remote Controller Display			Dry 8		Heat 8		Fan 0		Heat 0		Heat 0		
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	
	3		0 or 1	Channel 1	0	Disuse	0	150 steps			8	Disuse	
			2	Channel 2	1	2°C							
			3	Channel 3					1	0 steps			
			4	Channel 4	2	5°C					9	Use	

Outdoor Unit Commissioning

K1 (Number of press)	Key operation	Display on segment
1 time	Refrigerant charging in Heating mode	K, 1, BLANK, BLANK
2 times	Trial operation in Heating mode	K, 2, BLANK, BLANK
3 times	Pump out in Heating mode (Outdoor unit address 1)	K, 3, BLANK, 1
4 times	Pump out in Heating mode (Outdoor unit address 2)	K, 3, BLANK, 2
5 times	Pump out in Heating mode (Outdoor unit address 3)	K, 3, BLANK, 3
6 times	Pump out in Heating mode (Outdoor unit address 4)	K, 3, BLANK, 4
7 times	Vacuimig (Outdoor unit address 1)	K, 4, BLANK, 1
8 times	Vacuimig (Outdoor unit address 2)	K, 4, BLANK, 2
9 times	Vacuimig (Outdoor unit address 3)	K, 4, BLANK, 3
10 times	Vacuimig (Outdoor unit address 4)	K, 4, BLANK, 4
11 times	Vacuuming (All ODU, IDU, MCU)	K, 4, BLANK, A
12 times	End Key operation -	
Press and hold 1 time	Auto trial operation	K, K, BLANK, BLANK

K2 (Number of press)	Key operation	Display on segment
1 time	Refrigerant charging in Cooling mode	K, 5, BLANK, BLANK
2 times	Trial operation in Cooling mode	K, 6, BLANK, BLANK
3 times	Pump down all units in Cooling mode	K, 7, BLANK, BLANK
4 times	H/R: Checking the pipe connection H/P: Automatic setting of operation mode (Cooling/Heating) for trail operation	K, 8, BLANK, BLANK
5 times	Checking the amount of refrigerant	"K" "9" X X (Display of last two digits may differ depending on the progress)
6 times	Discharge mode of DC link voltage	K, A, BLANK, BLANK
7 times	Forced defrost operation	K, B, BLANK, BLANK
8 times	Forced oil collection	K, C, BLANK, BLANK
9 times	End Key operation -	

K3 (Number of press)	Key operation	Display on segment
1 time	Intialize (Reset) setting	Same as initial state

Outdoor Unit Commissioning Cont.

K4 (Number of press)	Key operation	Display on segment	
		SEG 1	SEG 2, 3, 4
1 time	Outdoor unit model	1	AM160FXV**** - Off,1,6
2 times	Order frequency of the compressor 1	2	120 Hz 1, 2, 0
3 times	Order frequency of the compressor 2	3	120 Hz 1, 2, 0
4 times	High pressure (MPa)	4	1.52 MPa 1, 5, 2
5 times	Low pressure (MPa)	5	0.43 MPa 0, 4, 3
6 times	Discharge temperature (Compressor 1)	6	87°C 0, 8, 7
7 times	Discharge temperature (Compressor 2)	7	87°C 0, 8, 7
8 times	IPM temperature (Compressor 1)	8	87°C 0, 8, 7
9 times	IPM temperature (Compressor 2)	9	87°C 0, 8, 7
10 times	CT sensor value (Compressor 1)	A	2 A 0, 2, 0
11 times	CT sensor value (Compressor 1)	B	2 A 0, 2, 0
12 times	Suction temperature	C	-42°C -, 4, 2
13 times	COND OUT temperautre	D	-42°C -, 4, 2
14 times	Temperature of liquid pipe	E	-42°C -, 4, 2
15 times	TOP temperature (Compressor 1)	F	87°C 0, 8, 7
16 times	TOP temperature (Compressor 2)	G	87°C 0, 8, 7
17 times	Outdoor temperature	H	-42°C -, 4, 2
18 times	ESC inlet temperature	I	-42°C -, 4, 2
19 times	ESC outlet temperature	J	-42°C -, 4, 2
20 times	Main EEV1 step	K	2000 2, 0, 0
21 times	Main EEV2 step	L	2000 2, 0, 0
22 times	ESC EEV step	M	300 3, 0, 0
23 times	HR EEV step	N	300 3, 0, 0
24 times	Fan step (SSR or BLDC)	O	13 STEP 0, 1, 3
25 times	Current frequency (Compressor 1)	P	120 Hz 1, 2, 0
26 times	Current frequency (Compressor 2)	Q	120 Hz 1, 2, 0
27 times	Suction 2 temperature	R	-42°C -, 4, 2

Outdoor Unit Commissioning Cont.

Option item	Input unit	SEG1	SEG2	SEG3	SEG4	Function of the option	Remarks
Emergency operation for compressor malfunction	Individual	0	0	0	0	Disabled(Factory default)	E560 will occur when all the compressors are set as malfunction state
				0	1	Set compressor 1 as malfunction state	
				0	2	Set compressor 2 as malfunction state	
Capacity correction for cooling	Main	0	1	0	0	7-9(Factory default)	Targeted evaporation temperature (when low temperature value is set, discharged air temperature of the indoor unit will decrease)
				0	1	5-7	
				0	2	9-11	
				0	3	10-12	
				0	4	11-13	
				0	5	12-14	
				0	6	13-15	
Capacity correction for heating	Main	0	2	0	0	3.0(Factory default)	Targeted high pressure(Mpa) (When low pressure value is set, discharge air temperature of the indoor unit will decrease)
				0	1	2.5	
				0	2	2.6	
				0	3	2.7	
				0	4	2.8	
				0	5	2.9	
				0	6	3.1	
				0	7	3.2	
Current restriction rate	Individual	0	3	0	0	100%(Factory default)	When restriction option is set, cooling and heating performance may decrease
				0	1	95%	
				0	2	90%	
				0	3	85%	
				0	4	80%	
				0	5	75%	
				0	6	70%	
				0	7	65%	
				0	8	60%	
				0	9	55%	
Oil collection interval	Main	0	4	1	1	No restriction	
				0	0	Factory default	
				0	1	Shorten interval by half	
Temperature to trigger defrost operation	Main	0	5	0	0	Factory default	Disable snow prevention function
				0	1	Apply setting when the product is being installed in humid area such as near river or lake	
Fan speed correction for outdoor unit	Individual	0	6	0	0	Factory default	
				0	1	Increase fan speed	
Silent mode for night time	Main	0	7	0	0	Disabled (Factory default)	Increase the outdoor unit's fan speed to maximum value
				0	1	LEVEL 1	
				0	2	LEVEL 2	
				0	3	LEVEL 3	
High head condition setting	Main	0	8	0	0	Disabled (factory default)	
				0	1	Level 1 of height difference type 1 (indoor unit is lower than outdoor unit)	
				0	2	Level 2 of height difference type 1 (indoor unit is lower than outdoor unit)	
Long piping condition setting (setting is unnecessary if high head condition is set)	Main	0	9	0	0	Disable (Factory default)	
				0	1	LEVEL 1	
				0	2	LEVEL 2	
Energy saving setting	Main	1	0	0	0	Disabled (Factory default)	Energy saving mode trigger when the room reaches desired temperature while operating in heating mode
				0	1	Enabled	
Rotation defrost(HR only)	Main	1	1	0	0	Disabled (Factory default)	When enabled continuous heating operation is possible but heating performance will decrease during rotation defrost operation
				0	1	Enabled	
Expand operational temperature range for cooling operation	Main	1	2	0	0	Disabled (Factory default)	When enabled continuous cooling operation is possible even in low temperature condition up to -15C, but noise of MCU will increase
				0	1	Enabled	
Channel address	Main	1	3	A	U	Automatic setting (Factory default)	Address for classifying the product on upper level controller (DMS, S NET 3 etc)**
				0	15	Manual settings for channel 0 - 15	

****Recommended to set before tracking on upper level controllers****

DVM S Outdoor Unit EEPROM Code Table

Model Name	EEP Code	Model Name	EEP Code
AM072FXVAFH	DB82-01437A	AM072HXWAJR	DB82-02085A
AM096FXVAFH	DB82-01439A	AM096HXWAJR	DB82-02086A
AM120FXVAFH	DB82-01441A	AM120HXWAJR	DB82-02087A
AM144FXVAFH	DB82-01443A	AM192HXWAJR	DB82-02088A
AM072FXVAFR	DB82-01448A	AM168HXVAFH	DB82-02310A
AM096FXVAFR	DB82-01449A	AM192HXVAFH	DB82-02311A
AM120FXVAFR	DB82-01450A	AM168HXVAFR	DB82-02312A
AM144FXVAFR	DB82-01451A	AM192HXVAFR	DB82-02313A
AM072FXVAJH	DB82-01438A	AM168HXVAJH	DB82-02314A
AM096FXVAJH	DB82-01440A	AM192HXVAJH	DB82-02315A
AM120FXVAJH	DB82-01442A	AM168HXVAJR	DB82-02316A
AM144FXVAJH	DB82-01444A	AM192HXVAJR	DB82-02317A
AM072FXVAJR	DB82-01452A	AM072KXVTFH	DB82-03381A
AM096FXVAJR	DB82-01453A	AM096KXVTFH	DB82-03382A
AM120FXVAJR	DB82-01454A	AM072KXVTJH	DB82-03383A
AM144FXVAJR	DB82-01455A	AM096KXVTJH	DB82-03384A
AM072HXWAFR	DB82-02081A	AM216KXVGJH	DB82-03420A
AM096HXWAFR	DB82-02082A	AM038KXWDCH	DB82-03454A
AM120HXWAFR	DB82-02083A	AM048KXWDCH	DB82-03455A
AM192HXWAFR	DB82-02084A	AM055KXWDCH	DB82-03456A

****EEPROM Codes Subject to Change****

Thermistor Information (Resistance-Temperature)

Discharge Temp Sensor

TYPE: 204CT

Resistance: 200 k Ω @ 77°F

Resistance Tolerance: \pm 5%

TEMP (°F)	MAX (k Ω)	CENTER (k Ω)	MIN (k Ω)
32	563.1	553.5	515.2
41	476.1	446.2	417.1
50	385.1	362.4	340.2
59	312.6	295.4	278.5
68	256.6	242.5	229.5
77	210	200	190
86	174.6	165.7	156.8
95	145.8	137.8	130
104	122.5	115.4	108.4
113	103.3	96.95	90.78
122	87.87	81.92	76.45
131	74.47	69.44	64.59
140	63.65	59.16	54.85
149	54.55	50.54	46.71
158	46.96	43.37	39.96
167	40.55	37.34	34.31
176	35.16	32.29	29.58
185	30.56	27.99	25.56
194	26.66	24.34	22.17
203	23.31	21.23	19.28
212	20.46	18.58	16.89
221	18.01	16.31	14.74
230	15.9	17.37	12.95
239	14.08	12.69	11.41
248	12.51	11.25	10.09
257	11.14	9.993	8.941
266	9.95	8.904	7.948
275	8.9	7.947	7.078
284	7.983	7.112	6.32
293	7.175	6.378	5.656
302	6.465	5.735	5.075
311	5.838	5.168	4.564
320	5.285	4.669	4.114

Thermistor Information (Resistance-Temperature)

Coil and Ambient (IDU & ODU) Temp Sensor

TYPE: 103AT-1

Resistance: 10 kΩ @ 77°F

Resistance Tolerance: ± 1%

TEMP (°F)	MAX (kΩ)	CENTER (kΩ)	MIN (kΩ)
-58	351.4	329.5	308.8
-49	263.4	247.7	232.6
-40	199.9	188.5	177.5
-31	152.4	144.1	136
-22	117.5	111.3	105.4
-13	86.5	86.4	82
-4	71.2	67.8	64.5
5	55.9	53.4	50.9
14	44.4	42.5	40.8
23	35.3	33.9	32.5
32	28.4	27.3	26.2
41	22.9	22.1	21.2
50	18.6	18	17.3
59	15.2	14.7	14.2
68	12.5	12.1	11.7
77	10.3	10	9.7
86	8.6	8.3	8
95	7.2	6.9	6.7
104	6	5.8	5.6
113	5.1	4.9	4.7
122	4.3	4.2	4
131	3.7	3.5	3.4
140	3.1	3	2.9
149	2.7	2.6	2.5
158	2.3	2.2	2.1
167	2	1.9	1.8
176	1.8	1.7	1.6
185	1.5	1.5	1.7
194	1.3	1.3	1.2
203	1.2	1.1	1.1
212	1	1	0.9
221	0.9	0.9	0.8
230	0.8	0.8	0.7

BLDC Fan Trouble Shooting

ACTION		NOTE
STEP 1	Check the Voltage	
1	After remove the Fan motor connector,	
2	Check DC310V on terminals 1 and 3. If Not applied, Change Main PCB	
STEP 2	Check voltage	
1	Check DC15V terminals 3 and 4	
2	If voltage is applied motor is faulty	
3	If voltage is not applied, PCB is defective	
STEP 3	Check the Power IC & Driver IC defect	
1	Check the Power IC defect	
	Pin1(RED) Pin3(BLK) : Short (0Ω)	
	à Power IC damaged	
2	Check the Driver IC defect	
	Pin3(BLK) Pin4(WHT) : Short (0Ω) à	
	à Driver IC damaged	

TYPE	POWER	HALL SENSOR
AC Motor	Connector 5 pin & 3 wire (Red, Yellow, Blue)	Connector 3 pin & 3 wire (Yellow, Orange, Gray)
BLDC motor Internal Control PCB	Connector 6 pin / 7 pin & 6 wire	
BLDC motor External Control PCB	Connector 5 pin & 3 wire (Red, White, Black)	6 wire (Yellow, Pink, Blue, Black, Orange, Green)

TROUBLE SHOOTING

TYPE 1 - BLDC FAN MOTOR (Internal Control PCB)		
	ACTION	JUDGEMENT
STEP 1	Unit Power down, disconnect motor cable	
STEP 2	Measure BLDC Motor, Vm resistance No. 1 (red, Vm) & No.3 (Black, GND)	Normal: hundreds K Ω or more Defect: tens Ω or short
STEP 3	Measure BLDC Motor, Vcc resistance No. 4 (white, Vcc) & No.3 (Black, GND)	Normal: K Ω or more (1.2K Ω or M Ω) Defect: tens Ω or short (Zener diode or Driver IC damage)
STEP 4	Rotate the shaft by hand	Normal: Rotate smoothly Defect: Shaft is tight (Magnet dislocation or coil short)

- If fan motor resistance is not normal, do not connect to PCB, otherwise normal PCB can be damaged.
- Only when motor resistance is normal, reconnect to the normal PCB, reconnect to the normal PCB and check the operation.
If not run → Fan motor defect with unknown reason.

TYPE 2 - BLDC FAN MOTOR (External Control PCB, Power + Hall Sensor)		
	ACTION	JUDGEMENT
STEP 1	Unit Power down, disconnect motor cable (Power connector, Hall Sensor)	
STEP 2	Measure BLDC Motor, Vm resistance No. 1 (red, U) & No.5 (Black, W) No. 1 (red, U) & No.3 (White, V) No. 3 (white, V) & No.5 (black, W) *Use multi meter	Normal: less than 10 Ω (4.5 $\Omega \pm 7\%$ or Ω) each resistance are similar (EX) OK: U-V: 4.5 Ω , V-W: 4.4 Ω , U-W: 4.6 Ω NG: U-V: 4.5 Ω , V-W: 1.2 Ω , U-W: 3.9 Ω Defect: less than 4 Ω or open (not measured) (Motor coil might be open)
STEP 3	Check Hall Sensor 1. Connect motor to PCB, power supply 2. Rotate the fan motor by hand 3. Check DC voltage in the connector 1-4, 3-4, 4-5 *Use oscilloscope if possible	Normal: DC Voltage is up & down Defect: Voltage is stable (5V or 0V) (Hall sensor IC defect)

- If motor is normal, replace the Fan PCB.
- After replace the PCB, still motor is not working
Replace the fan motor(Fan motor defect with unknown reason)

TROUBLE SHOOTING

INTERNAL CONTROL PCB TYPE ONLY			
	ACTION		
STEP 1	Power down		
STEP 2	Disconnect fan motor connector from IDU PCB		
STEP 3	Power on, Check DC Voltage	1 pin	DC 310V
		2 pin	-
		3 pin	Ground
		4 pin	DC 15V
		5 pin	Vsp (0-5V)
		6 pin	Vg (Feed Back - pulse)

INTERNAL CONTROL PCB TYPE ONLY			
CAUTION	HOW TO CHECK		
WHEN PCB CHECK * BE CAREFUL NOT TO GET SHORT * CHECK BEFORE ERROR OCCUR	Power supply to indoor unit only	PBA #1, #3 pin DC voltage check Normal: about 280-320V $220 \times 1.414 = 310V$	
	Do not run the indoor unit	PBA #3, #4 pin DC voltage check Normal: about 15V	
	Run the indoor unit in fan mode and test in advance (within 20 - 30 sec)	Motor #3, #5 pin DC voltage check Normal: about 2-5V or up and down *While this test Fan error is normal as fan is disconnected	



**TS Phone Number 1-888-699-6067 for
further assistance**