



Samsung 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 any further assistance please call
Technical Support on 1300 887 660 Option 1.

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	Plumbing 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 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: Outdoor unit 1, U201: Outdoor unit 2, U202: Outdoor unit 3, U203: Indoor unit 4
U	When displaying outdoor unit address Ex) U200: Outdoor unit 1, U201: Outdoor unit 2, U202: Outdoor unit 3, U203: Indoor unit 4
	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)	
	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	The communication address is not confirmed. (NASA only)
	121	Error of ROOM Temperature Sensor in Indoor unit short/open	
	122	Error of Evaporator_in Sensor of Indoor unit short/open	
	123	Error of Evaporator_out Sensor of Indoor unit short/open	
	124	Indoor Unit Communication Error (Indoor Unit -> outdoor unit Communication Error displayed in Outdoor unit)	
	125	Eva_mid2 Sensor of Indoor unit short/open	
	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	

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)	
	152	Close error of electronic expansion valve in indoor unit(2nd)	
	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

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 for Trane 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	missconnect 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, mismatching of the indoor unit numbers set with those communicated error (some of indoor unit disconnection)	
	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	

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	
	220	Error on temperature sensor located on MCU intercooler outlet (Short or Open) MCU Over Cooling Out Sensor Open/Short	
	221	OUT temperature SENSOR ERROR (OPEN/SHORT) - ERROR LEVEL: more than 4.9V(-50°C), less than 0.4V(93°C)	
	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)"	
	236	COND_OUT Sub1 temperature SENSOR ERROR (OPEN/SHORT) - ERROR LEVEL: More than 4.9V(-50°C), less 0.4V(93°C)"	
	237	COND temperature SENSOR ERROR (OPEN/SHORT) - ERROR LEVEL: More than 4.9V(-50°C), less than 0.4V(93°C)	
	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	

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	
	270	Suction 2 temperature sensor is detached	
	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)(DVM 4 HP Switch)	
	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)"(DVM 4 LP Switch)	
	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	Oii 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	

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	317	CT3 Sensor Short or Open	
	320	OLP Sensor SHORT / OPEN	
	321	EVI INLET Sensor SHORT/OPEN	
	322	EVI OUTLET Sensor SHORT/OPEN	
	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	
	326	Error on Total suction sensor (Short or 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)	

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	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	
	383	Error due to special overcurrent of Fan2	
	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	

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	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	
	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 ia less than -5°C	
	442	Forbid an operation during heat mode with refrigerant charging operation when out door 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	

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	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)	
	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

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	483	Overvoltage of H/W Detect DC Link	INV
	484	PFC Overload (overcurrent) Error	
	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	

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	560	Outdoor Unit Switch option setting error(not applied)	
	561	Outdoor Unit SA(SUPPLY AIR) FAN RPM	
	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	Wire LCD <-> Indoor Unit Communication Error	
	602	Master Wire LCD <-> Slave Wire LCD Communication Error	
	603	Communication Packet Error (Baudrate / different communication type)	
	604	Wire LCD <-> Indoor Unit Tracking Error over 10 times	
	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 completeTransmitter 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	

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	619	celcius/fahrenheit indoor unit mixed install Error (out of indoor unit connected with New wire LCD, "Celcius/Fahrenheit" indoor unit mixed install)	
	620	New Wire Remote controller "celcius/Fahrenheit" Set Error (Dip S/W #4 Set Error)	
	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 controll 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	
	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 clsoing 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	

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	725	Outdoor EEV#3 closing Self-Check Every time error	
	768	RESERVED(DMS-SNET3)	Error History
	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 thermistor 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 thermistor 1 disconnect/short circuit	
	827	[GHP-R410A] outdoor Unit - Accum exit temp thermistor 2 disconnect/short circuit	
	828	[GHP-R410A] outdoor unit Unit - refrigerant low pressure Switch disconnect	
	829	[GHP-R410A] refrigerant low pressure error	

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	830	[GHP-R410A] three phase error	
	831	[GHP-R410A] one phase power part error	
	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	

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	864	[GHP-R410A] Compressor Discharge temperature Sensor3 short/disconnection	
	865	[GHP-R410A] Compressor Discharge temperature Sensor4 short/disconnection	
	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	
	907	Prevention hydro unit from freezing burst	1Time Check circulating water flow
	908/909	Prevention the hydro unit from freezing	Check circulating water flow 3Times
	910	Breakaway of water out temperature sensor	Check the location and connection state of water out temperature sensor
	911	Less water flow than the minimum water flow (Differential water pressure/Flow Swtich Open Error	
	912	Flow Swtich Close Error	

Error Message

SEG1	SEG2, 3, 4	ERROR MESSAGE	NOTE
	918	No feedback interlock signal of pump operation	
	971	Open or short of the room temperature sensor (Water law application based on room temperature)	
	972	Open or short of water in pressure sensor	Check the PCB connection status and whether the sensor is defective or not
	973	Open or short of water out pressure sensor	
	974	Open or short of external water out temperature sensor	
	UP	Trial operation incompleted (UnPrepared) - It will be cleared when trial operation was executed for 1 hour or when automatic inspection is completed	

Outdoor Unit Error Display

LED Display			Description
Yellow	Green	Red	
○	○	○	POWER OFF / VDD NG
○	○	◎	IPM OVER CURRENT (O.C)
○	○	●	ABNORMAL SERIAL COMMUNICATION
○	●	●	(INDOOR <-> OUTDOOR)
○	◎	●	NORMAL OPERATION
○	◎	○	COMP STARTING ERROR
○	●	◎	DC-LINK VOLTAGE UNDER/OVER ERROR
			PFC OVERLOAD/H/W DC LINK OVER
◎	○	◎	OUTDOOR TEMP SENSOR ERROR (DUAL/SINGLE)
◎	○	●	DISCHARGE OVER TEMPERATURE (DUAL/SINGLE)
◎	◎	○	DISCHARGE TEMP SENSOR ERROR (DUAL/SINGLE)
◎	◎	●	CURRENT SENSOR ERROR
			HEAT SINK SENSOR / INPUT CURRENT SENSOR ERROR
◎	●	○	COMP V LIMIT ERROR
			HEAT SINK OVER HEAT
◎	●	◎	COIL TEMP SENSOR - SENSOR ERROR (DUAL / SINGLE)
◎	●	●	1 MIN TIME OUT COMM
			(INDOOR <-> OUTDOOR)
○	●	○	EEPROM DATA ERROR
●	○	○	FAN ERROR
●	○	◎	OTP ERROR
●	○	●	COMP ROTATION ERROR
●	◎	○	OPERATION CONDITION SECESSION (DUAL ONLY)
●	◎	◎	DC-LINK VOLTAGE SENSOR ERROR
●	◎	●	I-TRIP ERROR / PFC OVER CURRENT
●	●	○	GAS LEAK ERROR (DUAL / SINGLE)
●	●	◎	AC LINE ZERO CROSS SIGNAL OUT
●	●	●	POWER ON RESET (1 SEC)
◎	○	○	CAPACITY MISMATCH
○	◎	◎	TEST OPERATION COOLING MODE
◎	◎	◎	TEST OPERATION HEATING MODE

● LED ON ○ LED OFF ◎ LED BLINKING

Option Codes

ITEM	MODEL	SEG																								PRESSURE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Static
Slim 1-Way Cassette	AM017HN1DEH/EU	0	1	D	0	4	4	1	9	6	0	8	5	2	0	2	0	2	0	3	3	0	0	0	0	
	AM022HN1DEH/EU	0	1	D	0	4	4	1	9	7	0	A	6	2	0	1	4	1	4	3	3	0	0	0	0	
	AM022FN1DEH/EU	0	1	7	0	4	4	1	1	8	0	C	8	2	0	1	6	1	6	3	3	0	0	1	0	
	AM028FN1DEH/EU	0	1	7	0	4	4	1	1	8	0	F	8	2	0	1	C	1	C	3	3	0	0	1	0	
	AM036FN1DEH/EU	0	1	7	0	4	4	1	1	5	4	5	D	2	0	2	4	2	4	3	3	0	0	1	0	
	AM056JN1DEH/EU	0	1	8	0	4	4	1	9	5	4	3	C	2	0	3	8	3	8	3	3	0	0	1	0	
	AM071JN1DEH/EU	0	1	8	0	4	4	1	9	5	4	5	F	2	0	4	7	4	7	3	3	0	0	1	0	
2-Way Cassette	AM056FN2DEH/EU	0	1	2	0	4	4	1	1	5	5	6	1	2	0	3	8	3	8	3	3	0	0	1	0	
	AM071FN2DEH/EU	0	1	2	0	4	4	1	1	5	5	8	2	2	0	4	7	4	7	3	3	0	0	1	0	
Global 4-Way Cassette	AM045FN4DEH/EU	0	1	4	0	4	F	1	9	5	0	9	7	2	0	2	D	2	D	3	3	0	0	0	0	
	AM056FN4DEH/EU	0	1	4	0	4	F	1	9	5	0	A	7	2	0	3	8	3	8	3	3	0	0	0	0	
	AM071FN4DEH/EU	0	1	4	0	4	F	1	9	4	0	D	8	2	0	4	7	4	7	3	3	0	0	0	0	
	AM090FN4DEH/EU	0	1	4	0	4	F	1	9	5	4	0	9	2	0	5	A	5	A	3	3	0	0	0	0	
	AM112FN4DEH/EU	0	1	4	0	4	F	1	9	5	4	1	B	2	0	7	0	7	0	3	3	0	0	1	0	
	AM128FN4DEH/EU	0	1	4	0	4	F	1	9	5	4	2	D	2	0	8	0	8	0	3	3	0	0	2	0	
	AM140FN4DEH/EU	0	1	4	0	4	F	1	9	5	4	4	F	2	0	8	C	8	C	3	3	0	0	2	0	
BIG Duct	AM220FNHDEH/EU	0	1	1	0	5	4	1	9	5	0	9	7	2	0	D	C	D	C	3	1	1	1	1	0	5mmAq
		0	1	1	0	5	4	1	9	5	0	C	7	2	0	D	C	D	C	3	1	1	1	1	0	10mmAq
		0	1	1	0	5	4	1	9	5	0	E	8	2	0	D	C	D	C	3	1	1	1	1	0	15mmAq
		0	1	1	0	5	4	1	9	5	4	4	D	2	0	D	C	D	C	3	1	1	1	1	0	20mmAq
		0	1	1	0	5	4	1	9	5	4	9	F	2	0	D	C	D	C	3	1	1	1	1	0	25mmAq
	AM280FNHDEH/EU	0	1	1	0	5	4	1	9	5	4	0	7	2	3	1	C	1	C	3	1	1	1	1	0	5mmAq
		0	1	1	0	5	4	1	9	5	4	2	9	2	3	1	C	1	C	3	1	1	1	1	0	10mmAq
		0	1	1	0	5	4	1	9	5	4	5	B	2	3	1	C	1	C	3	1	1	1	1	0	15mmAq
		0	1	1	0	5	4	1	9	5	4	9	E	2	3	1	C	1	C	3	1	1	1	1	0	20mmAq
		0	1	1	0	5	4	1	9	5	5	D	1	2	3	1	C	1	C	3	1	1	1	1	0	25mmAq
		0	1	1	0	5	4	1	9	5	5	F	3	2	3	1	C	1	C	3	1	1	1	1	0	28mmAq

Option Codes

ITEM	MODEL	SEG																								PRESSURE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Static
GD-S (Big Duct)	AM180JNHFKH	0	1	2	0	7	4	1	C	5	0	8	0	2	0	B	4	B	4	3	3	1	1	1	0	5 \leq SP < 7.5
		0	1	2	0	7	4	1	C	5	0	8	0	2	0	B	4	B	4	3	3	1	1	1	0	7.5 \leq SP < 10
		0	1	2	0	7	4	1	C	5	0	8	0	2	0	B	4	B	4	3	3	1	1	1	0	10 \leq SP < 12.5
		0	1	2	0	7	4	1	C	5	0	8	0	2	0	B	4	B	4	3	3	1	1	1	0	12.5 \leq SP < 15
		0	1	2	0	7	4	1	C	5	4	3	7	2	0	B	4	B	4	3	3	1	1	1	0	15 \leq SP < 17.5
		0	1	2	0	7	4	1	C	5	4	4	8	2	0	B	4	B	4	3	3	1	1	1	0	17.5 \leq SP \leq 20
	AM224JNHFKH	0	1	2	0	7	4	1	C	5	0	C	0	2	0	E	0	E	0	3	3	1	1	1	0	5 \leq SP < 7.5
		0	1	2	0	7	4	1	C	5	0	E	3	2	0	E	0	E	0	3	3	1	1	1	0	7.5 \leq SP < 10
		0	1	2	0	7	4	1	C	5	0	F	5	2	0	E	0	E	0	3	3	1	1	1	0	10 \leq SP < 12.5
		0	1	2	0	7	4	1	C	5	4	3	6	2	0	E	0	E	0	3	3	1	1	1	0	12.5 \leq SP < 15
		0	1	2	0	7	4	1	C	5	4	5	8	2	0	E	0	E	0	3	3	1	1	1	0	15 \leq SP < 17.5
		0	1	2	0	7	4	1	C	5	4	8	E	2	0	E	0	E	0	3	3	1	1	1	0	17.5 \leq SP \leq 20
Floor Standing	AM036FNFDEH/EU	0	1	A	0	5	4	1	0	5	0	0	0	2	0	2	4	2	4	3	3	0	0	1	0	
	AM056FNFDEH/EU	0	1	A	0	5	4	1	0	5	0	0	0	2	0	3	8	3	8	3	3	0	0	1	0	
	AM071FNFDEH/EU	0	1	A	0	5	4	1	0	5	0	0	0	2	0	4	7	4	7	3	3	0	0	1	0	
ERV Plus	AM050FNKDEH/EU	0	1	E	0	4	4	1	9	5	5	8	0	2	0	2	4	2	4	3	3	2	0	0	0	
	AM100FNKDEH/EU	0	1	E	0	4	4	1	9	5	5	7	3	2	0	4	7	4	7	3	3	2	0	2	0	
G-MINI 4-W/C	AM015HNNDEH/EU	1	5	0	4	4	F	1	9	7	0	B	8	2	0	0	F	0	F	3	3	0	0	0	0	
	AM022FNNDEH/EU	0	1	5	0	4	F	1	9	7	0	E	8	2	0	1	6	1	6	3	3	0	0	0	0	
	AM028FNNDEH/EU	0	1	5	0	4	F	1	9	5	4	0	A	2	0	1	C	1	C	3	3	0	0	0	0	
	AM036FNNDEH/EU	0	1	5	0	4	F	1	9	3	4	2	C	2	0	2	4	2	4	3	3	0	0	0	0	
	AM045FNNDEH/EU	0	1	5	0	4	F	1	9	5	4	4	E	2	0	2	D	2	D	3	3	0	0	0	0	
	AM056FNNDEH/EU	0	1	5	0	4	F	1	9	5	4	7	F	2	0	3	8	3	8	3	3	0	0	0	0	
	AM060FNNDEH/EU	0	1	5	0	4	F	1	9	5	5	9	1	2	0	3	C	3	C	3	3	0	0	0	0	
SLIM DUCT-S	AM017FNLDEH/EU	0	1	0	0	5	4	1	2	5	4	9	E	2	0	1	1	1	1	3	3	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	2	5	4	9	E	2	0	1	1	1	1	3	3	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	2	5	5	F	5	2	0	1	1	1	1	3	3	1	1	1	0	0mmAq
	AM022FNLDEH/EU	0	1	0	0	5	4	1	2	5	E	0	8	2	0	1	6	1	6	3	1	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	2	5	A	C	3	2	0	1	6	1	6	3	1	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	2	5	A	8	0	2	0	1	6	1	6	3	1	1	1	1	0	0mmAq
	AM028FNLDEH/EU	0	1	0	0	5	4	1	2	5	E	7	A	2	0	1	C	1	C	3	1	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	2	5	E	1	5	2	0	1	C	1	C	3	1	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	2	5	A	E	2	2	0	1	C	1	C	3	1	1	1	1	0	0mmAq
	AM036FNLDEH/EU	0	1	0	0	5	4	1	2	5	E	C	D	2	0	2	4	2	4	3	1	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	2	5	E	6	8	2	0	2	4	2	4	3	1	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	2	5	E	3	5	2	0	2	4	2	4	3	1	1	1	1	0	0mmAq

Option Codes Cont.

ITEM	MODEL	SEG																								PRESSURE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
SLIM DUCT-S	AM017KNLDEH/EU	0	1	0	0	5	4	1	C	9	0	6	2	2	0	1	2	1	2	3	3	1	1	1	0	0mmAq
		0	1	0	0	5	4	1	C	9	0	B	5	2	0	1	2	1	2	3	3	1	1	1	0	1mmAq
		0	1	0	0	5	4	1	C	9	4	0	A	2	0	1	2	1	2	3	3	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	C	9	5	8	4	2	0	1	2	1	2	3	3	1	1	1	0	3mmAq
	AM022KNLDEH/EU	0	1	0	0	5	4	1	C	9	0	0	7	3	2	1	6	1	6	3	1	1	1	1	0	0mmAq
		0	1	0	0	5	4	1	C	9	0	C	D	5	2	1	6	1	6	3	1	1	1	1	0	1mmAq
		0	1	0	0	5	4	1	C	9	4	8	2	A	2	1	6	1	6	3	1	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	C	9	5	8	A	4	2	1	6	1	6	3	1	1	1	1	0	3mmAq
	AM028KNLDEH/EU	0	1	0	0	5	4	1	C	9	0	B	3	2	0	1	C	1	C	3	3	1	1	1	0	0mmAq
		0	1	0	0	5	4	1	C	9	4	1	7	2	0	1	C	1	C	3	3	1	1	1	0	1mmAq
		0	1	0	0	5	4	1	C	9	4	6	C	2	0	1	C	1	C	3	3	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	C	9	5	C	5	2	0	1	C	1	C	3	3	1	1	1	0	3mmAq
	AM036KNLDEH/EU	0	1	0	0	5	4	1	C	9	4	0	4	2	0	2	4	2	4	3	3	1	1	1	0	0mmAq
		0	1	0	0	5	4	1	C	9	4	5	9	2	0	2	4	2	4	3	3	1	1	1	0	1mmAq
		0	1	0	0	5	4	1	C	9	4	A	E	2	0	2	4	2	4	3	3	1	1	1	0	2mmAq
0		1	0	0	5	4	1	C	9	9	1	6	2	0	2	4	2	4	3	3	1	1	1	0	3mmAq	
SLIM DUCT-1	AM045FNLDEH/EU	0	1	0	0	5	4	1	2	5	E	F	6	2	0	2	D	2	D	3	1	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	2	5	A	E	2	2	0	2	D	2	D	3	1	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	2	5	9	9	F	2	0	2	D	2	D	3	1	1	1	1	0	0mmAq
	AM056FNLDEH/EU	0	1	0	0	5	4	1	2	5	E	F	9	2	0	3	8	3	8	3	1	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	2	5	E	3	4	2	0	3	8	3	8	3	1	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	2	5	A	C	1	2	0	3	8	3	8	3	1	1	1	1	0	0mmAq
SLIM DUCT-2	AM071FNLDEH/EU	0	1	0	0	5	4	1	2	5	E	F	4	2	0	4	7	4	7	3	1	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	2	5	D	9	E	2	0	4	7	4	7	3	1	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	2	5	9	B	B	2	0	4	7	4	7	3	1	1	1	1	0	0mmAq
SLIM DUCT-3	AM090FNLDEH/EU	0	1	0	0	5	4	1	B	5	E	2	A	2	0	5	A	5	A	3	1	1	1	1	0	6mmAq
		0	1	0	0	5	4	1	B	5	A	D	4	2	0	5	A	5	A	3	1	1	1	1	0	3mmAq
		0	1	0	0	5	4	1	B	5	9	6	C	2	0	5	A	5	A	3	1	1	1	1	0	0mmAq
	AM112FNLDEH/EU	0	1	0	0	5	4	1	B	5	E	2	A	2	0	7	0	7	0	3	1	1	1	1	0	6mmAq
		0	1	0	0	5	4	1	B	5	A	D	4	2	0	7	0	7	0	3	1	1	1	1	0	3mmAq
		0	1	0	0	5	4	1	B	5	9	6	C	2	0	7	0	7	0	3	1	1	1	1	0	0mmAq
	AM128FNLDEH/EU	0	1	0	0	5	4	1	B	5	E	8	F	2	0	8	0	8	0	3	1	1	1	1	0	6mmAq
		0	1	0	0	5	4	1	B	5	E	4	B	2	0	8	0	8	0	3	1	1	1	1	0	3mmAq
		0	1	0	0	5	4	1	B	5	A	F	5	2	0	8	0	8	0	3	1	1	1	1	0	0mmAq
	AM140FNLDEH/EU	0	1	0	0	5	4	1	B	5	F	C	3	2	0	8	C	8	C	3	1	1	1	1	0	6mmAq
		0	1	0	0	5	4	1	B	5	E	7	F	2	0	8	C	8	C	3	1	1	1	1	0	3mmAq
		0	1	0	0	5	4	1	B	5	E	3	A	2	0	8	C	8	C	3	1	1	1	1	0	0mmAq

Option Codes Cont.

ITEM	MODEL	SEG																								PRESSURE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
SLIM DUCT-1 [Uplevel Static Pressure]	AM022FNMDEH/EU	0	1	0	0	5	4	1	3	5	5	E	4	2	0	1	6	1	6	3	1	1	1	1	0	6mmAq
		0	1	0	0	5	4	1	3	5	4	1	E	2	0	1	6	1	6	3	1	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	3	5	0	E	A	2	0	1	6	1	6	3	1	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	3	5	0	B	6	2	0	1	6	1	6	3	1	1	1	1	0	0mmAq
	AM028FNMDEH/EU	0	1	0	0	5	4	1	3	5	9	A	9	2	0	1	C	1	C	3	1	1	1	1	0	6mmAq
		0	1	0	0	5	4	1	3	5	5	6	2	2	0	1	C	1	C	3	1	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	3	5	4	2	C	2	0	1	C	1	C	3	1	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	3	5	0	E	8	2	0	1	C	1	C	3	1	1	1	1	0	0mmAq
	AM036FNMDEH/EU	0	1	0	0	5	4	1	3	5	4	C	F	2	0	2	4	2	4	3	1	1	1	1	0	6mmAq
		0	1	0	0	5	4	1	3	5	4	2	C	2	0	2	4	2	4	3	1	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	3	5	0	F	B	2	0	2	4	2	4	3	1	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	3	5	0	E	A	2	0	2	4	2	4	3	1	1	1	1	0	0mmAq
MSP DUCT-S [Uplevel Static Pressure]	AM045FNMDEH/EU	0	1	0	0	5	4	1	2	5	9	0	6	2	0	2	D	2	D	3	1	1	1	1	0	8mmAq
		0	1	0	0	5	4	1	2	5	5	A	4	2	0	2	D	2	D	3	1	1	1	1	0	6mmAq
		0	1	0	0	5	4	1	2	5	5	8	3	2	0	2	D	2	D	3	1	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	2	5	5	5	0	2	0	2	D	2	D	3	1	1	1	1	0	0mmAq
MSP DUCT-0	AM056FNMDEH/EU	0	1	0	0	5	4	1	2	5	9	5	7	2	0	3	8	3	8	3	1	1	1	1	0	8mmAq
		0	1	0	0	5	4	1	2	5	5	F	5	2	0	3	8	3	8	3	1	1	1	1	0	6mmAq
		0	1	0	0	5	4	1	2	5	5	C	5	2	0	3	8	3	8	3	1	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	2	5	5	9	3	2	0	3	8	3	8	3	1	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	2	5	5	7	1	2	0	3	8	3	8	3	1	1	1	1	0	0mmAq
	AM071FNMDEH/EU	0	1	0	0	5	4	1	2	5	D	F	C	2	0	4	7	4	7	3	1	1	1	1	0	8mmAq
		0	1	0	0	5	4	1	2	5	D	F	9	2	0	4	7	4	7	3	1	1	1	1	0	6mmAq
		0	1	0	0	5	4	1	2	5	9	7	9	2	0	4	7	4	7	3	1	1	1	1	0	4mmAq
		0	1	0	0	5	4	1	2	5	9	3	6	2	0	4	7	4	7	3	1	1	1	1	0	2mmAq
		0	1	0	0	5	4	1	2	5	9	0	4	2	0	4	7	4	7	3	1	1	1	1	0	0mmAq
MSP DUCT-0	AM090FNMDEH/EU	0	1	0	0	5	4	1	2	5	D	F	D	2	0	5	A	5	A	3	1	1	1	1	0	8mmAq
		0	1	0	0	5	4	1	2	5	D	2	9	2	0	5	A	5	A	3	1	1	1	1	0	6mmAq
		0	1	0	0	5	4	1	2	5	9	4	5	2	0	5	A	5	A	3	1	1	1	1	0	4mmAq

Option Codes Cont.

ITEM	MODEL	SEG																								PRESSURE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
HSP DUCT	AM112FNHDEH/EU	0	1	0	0	5	4	1	3	5	5	4	0	2	0	7	0	7	0	3	3	1	1	1	0	5mmAq
		0	1	0	0	5	4	1	3	5	5	9	1	2	0	7	0	7	0	3	3	1	1	1	0	10mmAq
		0	1	0	0	5	4	1	3	5	9	1	6	2	0	7	0	7	0	3	3	1	1	1	0	15mmAq
		0	1	0	0	5	4	1	3	5	A	E	A	2	0	7	0	7	0	3	3	1	1	1	0	20mmAq
	AM128FNHDEH/EU	0	1	0	0	5	4	1	3	5	5	6	0	2	0	8	0	8	0	3	3	1	1	1	0	5mmAq
		0	1	0	0	5	4	1	3	5	5	C	5	2	0	8	0	8	0	3	3	1	1	1	0	10mmAq
		0	1	0	0	5	4	1	3	5	9	3	D	2	0	8	0	8	0	3	3	1	1	1	0	15mmAq
		0	1	0	0	5	4	1	3	5	E	1	8	2	0	8	0	8	0	3	3	1	1	1	0	20mmAq
	AM140FNHDEH/EU	0	1	0	0	5	4	1	3	5	5	8	0	2	0	8	C	8	C	3	3	1	1	1	0	5mmAq
		0	1	0	0	5	4	1	3	5	9	1	9	2	0	8	C	8	C	3	3	1	1	1	0	10mmAq
		0	1	0	0	5	4	1	3	5	A	D	3	2	0	8	C	8	C	3	3	1	1	1	0	15mmAq
		0	1	0	0	5	4	1	3	5	F	6	0	2	0	8	C	8	C	3	3	1	1	1	0	20mmAq
MSP DUCT-1	AM112FNMDEH/EU	0	1	0	0	5	4	1	2	2	F	F	0	2	0	7	0	7	0	3	1	1	1	0	12mmAq	
		0	1	0	0	5	4	1	2	2	F	F	0	2	0	7	0	7	0	3	1	1	1	0	10mmAq	
		0	1	0	0	5	4	1	2	2	E	B	B	2	0	7	0	7	0	3	1	1	1	0	8mmAq	
		0	1	0	0	5	4	1	2	2	E	2	6	2	0	7	0	7	0	3	1	1	1	0	6mmAq	
		0	1	0	0	5	4	1	2	2	E	0	4	2	0	7	0	7	0	3	1	1	1	0	4mmAq	
MSP DUCT-2	AM128FNMDEH/EU	0	1	0	0	5	4	1	2	2	E	3	6	2	0	8	0	8	0	3	1	1	1	0	14mmAq	
		0	1	0	0	5	4	1	2	2	E	1	4	2	0	8	0	8	0	3	1	1	1	0	12mmAq	
		0	1	0	0	5	4	1	2	2	E	E	2	2	0	8	0	8	0	3	1	1	1	0	10mmAq	
		0	1	0	0	5	4	1	2	2	A	B	0	2	0	8	0	8	0	3	1	1	1	0	8mmAq	
		0	1	0	0	5	4	1	2	2	9	9	E	2	0	8	0	8	0	3	1	1	1	0	6mmAq	
		0	1	0	0	5	4	1	2	2	9	6	C	2	0	8	0	8	0	3	1	1	1	0	4mmAq	
	AM140FNMDEH/EU	0	1	0	0	5	4	1	2	2	E	F	C	2	0	8	C	8	C	3	1	1	1	0	14mmAq	
		0	1	0	0	5	4	1	2	2	E	A	A	2	0	8	C	8	C	3	1	1	1	0	12mmAq	
		0	1	0	0	5	4	1	2	2	E	4	7	2	0	8	C	8	C	3	1	1	1	0	10mmAq	
		0	1	0	0	5	4	1	2	2	E	2	4	2	0	8	C	8	C	3	1	1	1	0	8mmAq	
		0	1	0	0	5	4	1	2	2	A	F	2	2	0	8	C	8	C	3	1	1	1	0	6mmAq	
0	1	0	0	5	4	1	2	2	9	C	F	2	0	8	C	8	C	3	1	1	1	0	4mmAq			
CEILING	AM056FNCDEH/EU	0	1	3	0	5	4	1	0	5	0	0	0	2	0	3	8	3	8	3	3	0	0	1	0	
	AM071FNCDEH/EU	0	1	3	0	5	4	1	0	5	0	0	0	2	0	4	7	4	7	3	3	0	0	1	0	
BIG CEILING	AM112JNC DKH/EU	0	1	3	0	5	4	1	C	2	4	7	9	2	0	7	0	7	0	3	3	0	0	0	0	
	AM140JNC DKH/EU	0	1	3	0	5	4	1	C	5	4	B	E	2	0	8	C	8		3	3	0	0	0	0	

Option Codes Cont.

ITEM	MODEL	SEG																								PRESSURE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
CONSOLE	AM022KNJDEH/EU	0	1	9	0	4	4	1	9	5	0	7	4	2	0	1	6	1	6	3	3	0	0	1	0	
	AM028FNJDEH/EU	0	1	9	0	4	4	1	9	5	0	B	7	2	0	1	C	1	C	3	3	0	0	1	0	
	AM036FNJDEH/EU	0	1	9	0	4	4	1	9	5	0	D	7	2	0	2	4	2	4	3	3	0	0	1	0	
	AM045KNJDEH/EU	0	1	9	0	4	4	1	9	5	0	F	9	2	0	2	D	2	D	3	3	0	0	1	0	
	AM056FNJDEH/EU	0	1	9	0	4	4	1	9	5	4	1	B	2	0	3	8	3	8	3	3	0	0	1	0	
NEO-FORTE without EEV	AM015HNTDEH/EU	0	1	0	0	4	4	1	1	7	0	B	8	2	0	0	F	0	F	3	3	0	0	0	0	
	AM022FNTDEH/EU	0	1	0	0	4	4	1	1	7	0	F	A	2	0	1	6	1	6	3	3	0	0	0	0	
	AM028FNTDEH/EU	0	1	0	0	4	4	1	1	7	0	F	A	2	0	1	C	1	C	3	3	0	0	0	0	
	AM036FNTDEH/EU	0	1	0	0	4	4	1	1	7	4	4	D	2	0	2	4	2	4	3	3	0	0	0	0	
	AM056FNTDEH/EU	0	1	0	0	4	4	1	1	6	4	6	F	2	0	3	8	3	8	3	3	0	0	2	0	
	AM071FNTDEH/EU	0	1	0	0	4	4	1	1	6	4	8	F	2	0	4	7	4	7	3	3	0	0	2	0	
NEO-FORTE with EEV	AM015HNQDEH/EU	0	1	0	0	4	4	1	1	7	0	B	8	2	0	0	F	0	F	3	1	0	0	0	0	
	AM022FNQDEH/EU	0	1	0	0	4	4	1	1	7	0	F	A	2	0	1	6	1	6	3	1	0	0	0	0	
	AM028FNQDEH/EU	0	1	0	0	4	4	1	1	7	0	F	A	2	0	1	C	1	C	3	1	0	0	0	0	
	AM036FNQDEH/EU	0	1	0	0	4	4	1	1	7	4	4	D	2	0	2	4	2	4	3	1	0	0	0	0	
	AM045FNQDEH/EU	0	1	0	0	4	4	1	1	6	4	3	F	2	0	2	D	2	D	3	1	0	0	2	0	
	AM056FNQDEH/EU	0	1	0	0	4	4	1	1	6	4	6	F	2	0	3	8	3	8	3	1	0	0	2	0	
	AM071FNQDEH/EU	0	1	0	0	4	4	1	1	6	4	8	F	2	0	4	7	4	7	3	1	0	0	2	0	
BORACAY with EEV	AM015KNQDEH/EU	0	1	0	0	0	4	4	1	1	9	0	E	A	2	0	0	F	0	F	3	1	0	0	0	
	AM022KNQDEH/EU	0	1	0	0	0	4	4	1	1	9	0	F	A	2	0	1	6	1	6	3	1	0	0	0	
	AM028KNQDEH/EU	0	1	0	0	0	4	4	1	1	6	0	C	8	2	0	1	6	1	6	3	1	0	0	0	
	AM036KNQDEH/EU	0	1	0	0	0	4	4	1	1	5	4	0	B	2	0	2	4	2	4	3	1	0	0	0	
	AM045KNQDEH/EU	0	1	0	0	0	4	4	1	1	5	4	1	C	2	0	2	D	2	D	3	1	0	2	0	
	AM056KNQDEH/EU	0	1	0	0	0	4	4	1	1	5	4	2	C	2	0	3	8	3	8	3	1	0	2	0	
	AM071KNQDEH/EU	0	1	0	0	0	4	4	1	1	6	4	4	F	2	0	4	7	4	7	3	1	0	2	0	
BORACAY without EEV	AM015KNTDEH/EU	0	1	0	0	0	4	4	1	1	9	0	E	A	2	0	0	F	0	F	3	3	0	0	0	
	AM022KNTDEH/EU	0	1	0	0	0	4	4	1	1	9	9	F	A	2	0	1	6	1	6	3	3	0	0	0	
	AM028KNTDEH/EU	0	1	0	0	0	4	4	1	1	6	0	C	8	2	0	1	C	1	C	3	3	0	0	0	
	AM036KNTDEH/EU	0	1	0	0	0	4	4	1	1	5	4	0	B	2	0	2	4	2	4	3	3	0	0	0	
	AM045KNTDEH/EU	0	1	0	0	0	4	4	1	1	5	4	1	C	2	0	2	D	2	D	3	3	0	0	0	
	AM056KNTDEH/EU	0	1	0	0	0	4	4	1	1	5	4	2	C	2	0	3	8	3	8	3	3	0	2	0	
	AM071KNTDEH/EU	0	1	0	0	0	4	4	1	1	6	4	4	F	2	0	4	7	4	7	3	3	0	2	0	

Option Codes Cont.

ITEM	MODEL	S:G																							PRESSURE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Static
GLOBAL DUCT	AM036HNMPKH/EU	0	1	0	0	5	4	1	C	5	0	8	4	2	0	2	4	2	4	3	3	1	2	0	5	
		0	1	0	0	5	4	1	C	5	0	E	B	2	0	2	4	2	4	3	3	1	2	0	5	
		0	1	0	0	5	4	1	C	5	5	5	2	2	0	2	4	2	4	3	3	1	2	0	5	
		0	1	0	0	5	4	1	C	5	5	C	A	2	0	2	4	2	4	3	3	1	2	0	5	
		0	1	0	0	5	4	1	C	5	A	3	0	2	0	2	4	2	4	3	3	1	2	0	5	
		0	1	0	0	5	4	1	C	5	A	8	5	2	0	2	4	2	4	3	3	1	2	0	5	
	AM045HNMPKH/EU	0	1	0	0	5	4	1	C	5	0	D	5	2	0	2	D	2	D	3	3	1	2	0	4	
		0	1	0	0	5	4	1	C	5	4	1	D	2	0	2	D	2	D	3	3	1	2	0	4	
		0	1	0	0	5	4	1	C	5	5	C	4	2	0	2	D	2	D	3	3	1	2	0	4	
		0	1	0	0	5	4	1	C	5	9	3	B	2	0	2	D	2	D	3	3	1	2	0	4	
		0	1	0	0	5	4	1	C	5	A	A	2	2	0	2	D	2	D	3	3	1	2	0	4	
	AM056HNMPKH/EU	0	1	0	0	5	4	1	C	5	4	7	F	2	0	3	8	3	8	3	3	1	2	0	2	
		0	1	0	0	5	4	1	C	5	5	D	5	2	0	3	8	3	8	3	3	1	2	0	2	
		0	1	0	0	5	4	1	C	5	9	2	B	2	0	3	8	3	8	3	3	1	2	0	2	
		0	1	0	0	5	4	1	C	5	A	7	1	2	0	3	8	3	8	3	3	1	2	0	2	
		0	1	0	0	5	4	1	C	5	A	C	8	2	0	3	8	3	8	3	3	1	2	0	2	
	AM071HNMPKH/EU	0	1	0	0	5	4	1	C	5	5	8	0	2	0	4	7	4	7	3	3	1	2	0	1	
		0	1	0	0	5	4	1	C	5	5	E	6	2	0	4	7	4	7	3	3	1	2	0	1	
		0	1	0	0	5	4	1	C	5	9	3	C	2	0	4	7	4	7	3	3	1	2	0	1	
		0	1	0	0	5	4	1	C	5	A	8	2	2	0	4	7	4	7	3	3	1	2	0	1	
		0	1	0	0	5	4	1	C	5	A	D	9	2	0	4	7	4	7	3	3	1	2	0	1	

Option Codes Cont.

ITEM	MODEL	S:G																								PRESSURE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Static
GLOBAL DUCT	AM090HNMPKH/EU	0	1	0	0	5	4	1	C	5	4	6	F	2	0	5	A	5	A	3	3	1	2	1	2	
		0	1	0	0	5	4	1	C	5	5	E	8	2	0	5	A	5	A	3	3	1	2	1	2	
		0	1	0	0	5	4	1	C	5	A	6	1	2	0	5	A	5	A	3	3	1	2	1	2	
		0	1	0	0	5	4	1	C	5	A	C	8	2	0	5	A	5	A	3	3	1	2	1	2	
	AM112HNMPKH/EU	0	1	0	0	5	4	1	C	5	4	1	B	2	0	7	0	7	0	3	3	1	2	2	3	
		0	1	0	0	5	4	1	C	5	5	6	0	2	0	7	0	7	0	3	3	1	2	2	3	
		0	1	0	0	5	4	1	C	5	5	E	B	2	0	7	0	7	0	3	3	1	2	2	3	
		0	1	0	0	5	4	1	C	5	9	3	D	2	0	7	0	7	0	3	3	1	2	2	3	
	AM128HNMPKH/EU	0	1	0	0	5	4	1	C	5	4	2	C	2	0	8	0	8	0	3	3	1	2	0	2	
		0	1	0	0	5	4	1	C	5	5	7	2	2	0	8	0	8	0	3	3	1	2	0	2	
		0	1	0	0	5	4	1	C	5	5	E	A	2	0	8	0	8	0	3	3	1	2	0	2	
		0	1	0	0	5	4	1	C	5	9	2	E	2	0	8	0	8	0	3	3	1	2	0	2	
	AM140HNMPKH/EU	0	1	0	0	5	4	1	C	5	4	4	C	2	0	8	C	8	C	3	3	1	2	0	1	
		0	1	0	0	5	4	1	C	5	5	9	2	2	0	8	C	8	C	3	3	1	2	0	1	
		0	1	0	0	5	4	1	C	5	5	F	A	0	8	C	8	C	3	3	1	2	0	1		
		0	1	0	0	5	4	1	C	5	9	3	E	2	0	8	C	8	C	3	3	1	2	0	1	
	AM112HHPKH/EU	0	1	0	0	5	4	1	C	5	5	4	0	2	0	7	0	7	0	3	3	1	2	2	6	
		0	1	0	0	5	4	1	C	5	5	A	4	2	0	7	0	7	0	3	3	1	2	2	6	
		0	1	0	0	5	4	1	C	5	5	C	6	2	0	7	0	7	0	3	3	1	2	2	6	
		0	1	0	0	5	4	1	C	5	9	0	8	2	0	7	0	7	0	3	3	1	2	2	6	
		0	1	0	0	5	4	1	C	5	9	4	A	2	0	7	0	7	0	3	3	1	2	2	6	
		0	1	0	0	5	4	1	C	5	9	7	C	2	0	7	0	7	0	3	3	1	2	2	6	
		0	1	0	0	5	4	1	C	5	9	A	E	2	0	7	0	7	0	3	3	1	2	2	6	
		0	1	0	0	5	4	1	C	5	9	B	F	2	0	7	0	7	0	3	3	1	2	2	6	
	AM128HHPKH/EU	0	1	0	0	5	4	1	C	5	5	6	1	2	0	8	0	8	0	3	3	1	2	2	5	
		0	1	0	0	5	4	1	C	5	5	B	3	2	0	8	0	8	0	3	3	1	2	2	5	
		0	1	0	0	5	4	1	C	5	5	E	5	2	0	8	0	8	0	3	3	1	2	2	5	
		0	1	0	0	5	4	1	C	5	9	1	7	2	0	8	0	8	0	3	3	1	2	2	5	
0		1	0	0	5	4	1	C	5	9	4	9	2	0	8	0	8	0	3	3	1	2	2	5		
0		1	0	0	5	4	1	C	5	9	8	B	2	0	8	0	8	0	3	3	1	2	2	5		
0		1	0	0	5	4	1	C	5	9	B	D	2	0	8	0	8	0	3	3	1	2	2	5		
0		1	0	0	5	4	1	C	5	9	C	E	2	0	8	0	8	0	3	3	1	2	2	5		

Option Codes Cont.

ITEM	MODEL	SfG																								PRESSURE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
GLOBAL DUCT	AM128HNHPKH/EU	0	1	0	0	5	4	1	C	5	5	8	1	2	0	8	C	8	C	3	3	1	2	2	4	
		0	1	0	0	5	4	1	C	5	5	D	3	2	0	8	C	8	C	3	3	1	2	2	4	
		0	1	0	0	5	4	1	C	5	9	0	5	2	0	8	C	8	C	3	3	1	2	2	4	
		0	1	0	0	5	4	1	C	5	9	3	7	2	0	8	C	8	C	3	3	1	2	2	4	
		0	1	0	0	5	4	1	C	5	9	6	9	2	0	8	C	8	C	3	3	1	2	2	4	
		0	1	0	0	5	4	1	C	5	9	8	B	2	0	8	C	8	C	3	3	1	2	2	4	
		0	1	0	0	5	4	1	C	5	9	C	D	2	0	8	C	8	C	3	3	1	2	2	4	
		0	1	0	0	5	4	1	C	5	9	D	E	2	0	8	C	8	C	3	3	1	2	2	4	
HYDRO UNIT	AM160FNBDEH/EU	0	1	0	0	4	C	1	0	5	0	0	0	2	0	8	C	8	C	3	3	2	2	0	0	
	AM320FNBDEH/EU	0	1	0	0	4	C	1	0	5	0	0	0	2	3	1	C	1	C	3	3	2	2	0	0	
	AM500FNBDEH/EU	0	1	0	0	4	C	1	0	5	0	0	0	2	3	2	D	2	D	3	3	2	2	0	0	
HYDRO UNIT HT	AM160FNBFEH/EU	0	1	1	0	4	C	1	0	5	0	0	0	2	0	A	0	A	0	3	3	2	2	0	0	
	AM250FNBFEH/EU	0	1	1	0	4	C	1	0	5	0	0	0	2	0	F	A	F	A	3	3	2	2	0	0	
	AM160FNBFGH/EU	0	1	1	0	4	C	1	0	5	0	0	0	2	0	A	0	A	0	3	3	2	2	0	0	
	AM250FNBFGH/EU	0	1	1	0	4	C	1	0	5	0	0	0	2	0	F	A	F	A	3	3	2	2	0	0	
360 CASSETTE	AM045KN4DEH*	0	1	0	0	4	F	1	9	5	0	B	7	2	0	2	D	2	D	3	3	0	0	0	0	
	AM045KN4DEH*	0	1	0	0	4	F	1	9	5	0	C	7	2	0	3	8	3	8	3	3	0	0	0	0	
	AM071KN4DEH*	0	1	0	0	4	F	1	9	5	0	D	8	2	0	4	7	4	7	3	3	0	0	0	0	
	AM090KN4DEH*	0	1	0	0	4	F	1	9	5	4	1	A	2	0	5	A	5	A	3	3	0	0	0	0	
	AM112KN4DEH*	0	1	0	0	4	F	1	9	5	4	2	B	2	0	7	0	7	0	3	3	0	0	2	0	
	AM128KN4DEH*	0	1	0	0	4	F	1	9	5	4	6	C	2	0	8	0	8	0	3	3	0	0	2	0	
	AM140KN4DEH*	0	1	0	0	4	F	1	9	5	4	8	E	2	0	8	C	8	C	3	3	0	0	2	0	
A3050 (EEV INCLUDED)	AM015JNVDKH/EU	0	1	2	0	4	4	1	9	9	0	D	9	2	0	0	F	0	F	3	1	0	0	0	0	
	AM022JNVDKH/EU	0	1	2	0	4	4	1	9	9	4	2	A	2	0	1	6	1	6	3	1	0	0	0	0	
	AM028JNVDKH/EU	0	1	2	0	4	4	1	9	9	4	5	C	2	0	1	C	1	C	3	1	0	0	0	0	
	AM036JNVDKH/EU	0	1	2	0	4	4	1	9	8	4	5	E	2	0	2	4	2	4	3	1	0	0	1	0	
	AM045JNVDKH/EU	0	1	2	0	4	4	1	9	5	5	A	2	2	0	2	D	2	D	3	1	0	0	1	0	
	AM056JNVDKH/EU	0	1	2	0	4	4	1	9	9	4	2	C	2	0	3	8	3	8	3	1	0	0	2	0	
	AM071JNVDKH/EU	0	1	2	0	4	4	1	9	8	4	7	F	2	0	4	7	4	7	3	1	0	0	2	0	
	AM082JNVDKH/EU	0	1	2	0	4	4	1	9	5	5	A	3	2	0	5	2	5	2	3	1	0	0	2	0	
A3050 (EEV NOT INCLUDED)	AM015JNADKH/EU	0	1	2	0	4	4	1	9	9	0	D	9	2	0	0	F	0	F	3	1	0	0	0	0	
	AM022JNADKH/EU	0	1	2	0	4	4	1	9	9	4	2	A	2	0	1	6	1	6	3	1	0	0	0	0	
	AM028JNADKH/EU	0	1	2	0	4	4	1	9	9	4	5	C	2	0	1	C	1	C	3	1	0	0	0	0	
	AM036JNADKH/EU	0	1	2	0	4	4	1	9	8	4	5	E	2	0	2	4	2	4	3	1	0	0	1	0	
	AM045JNADKH/EU	0	1	2	0	4	4	1	9	5	5	A	2	2	0	2	D	2	D	3	1	0	0	1	0	
	AM056JNADKH/EU	0	1	2	0	4	4	1	9	9	4	2	C	2	0	3	8	3	8	3	1	0	0	2	0	
	AM071JNADKH/EU	0	1	2	0	4	4	1	9	8	4	7	F	2	0	4	7	4	7	3	1	0	0	2	0	
	AM082JNADKH/EU	0	1	2	0	4	4	1	9	5	5	A	3	2	0	5	2	5	2	3	1	0	0	2	0	

Option Codes Cont.

ITEM	MODEL	S/G																								PRESSURE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Static
OAP DUCT	AM140JNEPEH/EU	0	1	B	0	6	4	1	B	4	F	F	B	2	0	8	C	8	C	3	3	3	0	0	0	25mmAq
		0	1	B	0	6	4	1	B	4	F	9	5	2	0	8	C	8	C	3	3	3	0	0	0	20mmAq
		0	1	B	0	6	4	1	B	4	E	2	E	2	0	8	C	8	C	3	3	3	0	0	0	15mmAq
		0	1	B	0	6	4	1	B	4	A	A	6	2	0	8	C	8	C	3	3	3	0	0	0	10mmAq
		0	1	B	0	6	4	1	B	4	A	5	1	2	0	8	C	8	C	3	3	3	0	0	0	7.5mmAq
		0	1	B	0	6	4	1	B	4	9	0	B	2	0	8	C	8	C	3	3	3	0	0	0	5mmAq
	AM220JNEPEH/EU	0	1	B	0	6	4	1	9	4	5	3	0	2	3	1	6	1	6	3	3	3	0	0	0	25mmAq
		0	1	B	0	6	4	1	9	4	4	1	F	2	3	1	6	1	6	3	3	3	0	0	0	23mmAq
		0	1	B	0	6	4	1	9	4	0	E	C	2	3	1	6	1	6	3	3	3	0	0	0	20mmAq
		0	1	B	0	6	4	1	9	4	0	E	A	2	3	1	6	1	6	3	3	3	0	0	0	17.5mmAq
		0	1	B	0	6	4	1	9	4	0	9	7	2	3	1	6	1	6	3	3	3	0	0	0	15mmAq
		0	1	B	0	6	4	1	9	4	0	7	5	2	3	1	6	1	6	3	3	3	0	0	0	12.5mmAq
	0	1	B	0	6	4	1	9	4	0	6	4	2	3	1	6	1	6	3	3	3	0	0	0	10mmAq	
	AM280JNEPEH/EU	0	1	B	0	6	4	1	9	4	5	8	1	2	3	1	C	1	C	3	3	3	0	0	0	27.5mmAq
		0	1	B	0	6	4	1	9	4	5	5	0	2	3	1	C	1	C	3	3	3	0	0	0	25mmAq
		0	1	B	0	6	4	1	9	4	5	3	0	2	3	1	C	1	C	3	3	3	0	0	0	22.5mmAq
		0	1	B	0	6	4	1	9	4	4	0	E	2	3	1	C	1	C	3	3	3	0	0	0	20mmAq
		0	1	B	0	6	4	1	9	4	0	D	B	2	3	1	C	1	C	3	3	3	0	0	0	17.5mmAq
		0	1	B	0	6	4	1	9	4	0	A	8	2	3	1	C	1	C	3	3	3	0	0	0	15mmAq
		0	1	B	0	6	4	1	9	4	0	8	6	2	3	1	C	1	C	3	3	3	0	0	0	12.5mmAq
		0	1	B	0	6	4	1	9	4	0	6	4	2	3	1	C	1	C	3	3	3	0	0	0	10mmAq

Installation Setting

4. Set the door unit option by wireless remote controller.

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	RESERVED	Exterior temperature sensor	Central Control	FAN RPM COMPENSATION
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Drain pump	Hot water heater	Electronic heater	Opening the Electronic Expansion Valve	Master/Slave
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External control output	S-plasma ion	Buzzer	Number of hours using filter
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	Individual control of a remote controller	Heating setting compensation	EEV opening of an indoor units topped during oil return or Defrost operation	Away Set OFF Timer	Human sensor

- ▶ 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 basically 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		Use of robot cleaning		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	0	Disuse	0	Disuse	0	Disuse	0	Disuse									
					0	2	1	Use	1	Use	1	Use	1	Use							
							2	RPM compensation High ceiling kit													
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12										
Explanation	PAGE		Use of drain pump		Use of hot water heater		Use of electronic heater		Opening the EEV of an indoor unit when heating operation stops		Master / Slave										
Remote Controller Display			Dry 8		Fan 8		Fan 8		Heat 8		Heat 8										
Indication and Details	Indication	Details	Indication	Details	0	Disuse	0	Disuse	0	Disuse	0	Disuse									
					1	2	1	Use	1	Use	1	Use	1	Use							
							2	Use + 3minute delay													
Option	SEG13		SEG14		SEG15		SEG16		SEG17		SEG18										
Explanation	Page		Use of external control		Setting the output of external control		S-Plasma		Buzzer Control		Number of hours using filter										
Remote Controller Display			Auto 8		Auto 8		Cool 8		Cool 8		Dry 8										
Indication and Details	Indication	Details	Indication	Details	0	Disuse	0	Thermo on	0	Disuse	0	Mixed operation control 1 Use buzzer									
					2	1	ON/OFF Control	1	Operation on	1	Use	1	Mixed operation control 1 Disuse of buzzer	2	1000 hours						
																2	Off Control	3	Window on/off	3	Mixed operation control 2 Use buzzer
Option	SEG19		SEG20		SEG21		SEG22		SEG23		SEG24										
Explanation	PAGE		Individual control of a remote controller		Heating setting compensation		EEV opening of an indoor unit stopped during oil return of defrost operation		Away Set OFF Timer		Human sensor										
Remote Controller Display			Dry 8		Heat 8		Fan 0				Heat 0										
Indication and Details	Indication	Details	Indication	Details	0	Disuse	0	150 steps	0	150 steps	0	Disuse									
					3	4	0 or 1	Channel 1	0	Disuse	0	150 steps	0 or 1	Auto Set OFF 30 Min.	8	Disuse					
							2	Channel 2	1	2°C	1	0 steps	2	Auto Set OFF 60 Min.	9	Use					
							3	Channel 3	2	5°C			3	Auto Set OFF 120 Min.							
							4	Channel 4	4	Auto Set OFF 180 Min.											

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	Vacuumig (Outdoor unit address 1)	K, 4, BLANK, 1
8 times	Vacuumig (Outdoor unit address 2)	K, 4, BLANK, 2
9 times	Vacuumig (Outdoor unit address 3)	K, 4, BLANK, 3
10 times	Vacuumig (Outdoor unit address 4)	K, 4, BLANK, 4
11 times	Vacuuming (All outdoor units)	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	Inverter comp 1 check	K, D, BLANK, BLANK
10 times	Inverter comp 2 check	K, E, BLANK, BLANK
11 times	Fan 1 check	K, F, BLANK, BLANK
12 times	Fan 2 check	K, G, BLANK, BLANK
13 times type A PBA	End key operation	
13 times type B PBA	HR Pipe pairing (HP NOT USED)	
14 times type B PBA	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 temperature	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
28 times	Master indoor address	S	Master indoor unit not selected BLANK,N, D Indoor unit No 1 selected as the masterunit 0, 0, 1

DVM MINI (ECO)

K1 (Number of press)	Key operation	Display on segment
Press & hold 1 time	Auto trial operation	
	Auto start up for "UP" mode	
1 time	Refrigerant charging in heating	K, 1, BLANK, BLANK
2 times	Trial operation in Heating mode	K, 2, BLANK, BLANK
3 times	Pump out operation	K, 3, BLANK
4 times	Open all valves for vacuuming	K, 4, BLANK
5 times	EXIT	

Outdoor Unit Commissioning Cont. DVM MINI (ECO)

K2 (Number of press)	Function	7-segment display
1 time	Refrigerant charging in cooling operation	K, 5, BLANK, BLANK
2 times	Cooling test run	K, 6, BLANK, BLANK
3 times	Pump-down operation	K, 7, BLANK, BLANK
4 times	Automatic setting of operation mode	K, 8, BLANK, BLANK
5 times	Checking the amount of refrigerant	"K" "9" X X (Display of last two digits may
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	Inverter compressor 1 check	K, D, BLANK, BLANK
10 times	H/R : Auto pipe pairing MCU, H/P UNUSED	
11 times	EXIT	

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

K4 (Number of press)	Key operation	Display on segment		
1 time	Outdoor unit model	1	0, 0, 5	5HP (AM050*XM*)
2 times	Order frequency	2	1, 2, 0	120 Hz
3 times	High pressure (MPa)	3	1, 5, 2	1.52 MPa
4 times	Low pressure (MPa)	4	0, 4, 3	0.43 MPa
5 times	Discharge temperature	5	0, 8, 7	87 °C
6 times	IPM temperature	6	0, 8, 7	87 °C
7 times	CT sensor value	7	0, 2, 0	31/12/1899 2:00:00 am
8 times	Suction temperature	8	-, 4, 2	-42 °C
9 times	COND OUT temperature	9	-, 4, 2	-42 °C
10 times	Temperature of liquid pipe	A	-, 4, 2	-42 °C
11 times	TOP temperature	B	-, 4, 2	-42 °C
12 times	Outdoor temperature	C	-, 4, 2	-42 °C
13 times	EVI inlet temperature	D	-, 4, 2	-42 °C
14 times	EVI outlet temperature	E	-, 4, 2	-42 °C
15 times	Main EEV step	F	2, 0, 0	2000 Steps
16 times	EVI EEV step	G	3, 0, 0	300 Steps
17 times	Fan step	H	0, 1, 3	13 Steps
18 times	Current frequency	I	1, 2, 0	120 Hz
19 times	Master indoor unit	J	BLANK, N, D	Master indoor unit not selected
			0, 0, 1	If indoor unit No.1 is selected as the master unit
20 times	HR Bypass EEV step	K	3, 0, 0	300 Steps

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	
				0	8	3.3	
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	Increase fan speed to maximum value
				0	1	Increase fan speed	
Silent mode for night time	Main	0	7	0	0	Disabled (Factory default)	Enable Night Mode
				0	1	LEVEL 1	
				0	2	LEVEL 2	
				0	3	LEVEL 3	
High head condition setting	Main	0	8	0	0	Disabled (factory default)	When outdoor unit is located 40-80 metres above the indoor unit
				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	3	Height difference type 2 (outdoor unit is lower than indoor unit)	When indoor unit is over 30 metres above the outdoor unit.
				0	0	Disable (Factory default)	When equivalent length of furthest indoor unit from the outdoor unit is over 100-170 metres
				0	1	LEVEL 1	
Energy saving setting	Main	1	0	0	2	LEVEL 2	When equivalent length of furthest indoor unit from the outdoor unit is over 170 metres
				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 from upper level controller (DMS, S NET 3 etc)
				0	15	Manual settings for channel 0 - 15	

Eeproms

Model Name	EEP Code
AM080FXVAGH/EU	DB82-01358A
AM100FXVAGH/EU	DB82-01359A
AM120FXVAGH/EU	DB82-01360A
AM140FXVAGH/EU	DB82-01361A
AM160FXVAGH/EU	DB82-01362A
AM180FXVAGH/EU	DB82-01363A
AM200FXVAGH/EU	DB82-01364A
AM220FXVAGH/EU	DB82-01365A
AM080FXVAGR/EU	DB82-01330A
AM100FXVAGR/EU	DB82-01331A
AM120FXVAGR/EU	DB82-01332A
AM140FXVAGR/EU	DB82-01333A
AM160FXVAGR/EU	DB82-01334A
AM180FXVAGR/EU	DB82-01335A
AM200FXVAGR/EU	DB82-01336A
AM220FXVAGR/EU	DB82-01337A

Thermistor Information

TYPE : 204CT

RESISTANCE : 200 kΩ at 25°C

RESISTANCE TOLERANCE : ±5%

TEMP.(°C)	204CT (kΩ)	TEMP.(°C)	204CT (kΩ)	TEMP.(°C)	204CT (kΩ)	TEMP.(°C)	204CT (kΩ)	TEMP.(°C)	204CT (kΩ)
0	553.5	33	148.3	66	49	99	19.07	128	9.321
1	529.8	34	142.9	67	47.52	100	18.58	129	9.11
2	507.3	35	137.8	68	46.08	101	18.1	130	8.904
3	485.9	36	133	69	44.7	102	17.63	131	8.702
4	465.5	37	128.3	70	43.37	103	17.18	132	8.505
5	446.2	38	123.8	71	42.08	104	16.74	133	8.314
6	427.7	39	119.5	72	40.83	105	16.31	134	8.128
7	410.2	40	115.4	73	39.63	106	15.9	135	7.947
8	393.5	41	111.4	74	38.47	107	15.5	136	7.77
9	377.6	42	107.5	75	37.34	108	15.11	137	7.599
10	362.4	43	103.9	76	36.26	109	14.73	138	7.432
11	347.7	44	100.3	77	35.22	110	14.37	139	7.27
12	333.7	45	96.95	78	34.21	111	14.01	140	7.112
13	320.3	46	93.7	79	33.23	112	13.67	141	6.957
14	307.6	47	90.58	80	32.29	113	13.33	142	6.807
15	295.4	48	87.58	81	31.37	114	13.01	143	6.66
16	283.8	49	84.69	82	30.48	115	12.69	144	6.517
17	272.8	50	81.92	83	29.62	116	12.39	145	6.378
18	262.2	51	79.23	84	28.79	117	12.09	146	6.243
19	252.1	52	76.64	85	27.99	118	11.8	147	6.111
20	242.5	53	74.14	86	27.21	119	11.52	148	5.982
21	233.2	54	71.75	87	26.45	120	11.25	149	5.857
22	224.3	55	69.44	88	25.73	121	10.98	150	5.735
23	215.9	56	67.23	89	25.02	122	10.72	151	5.616
24	207.8	57	65.09	90	24.34	123	10.47	152	5.5
25	200	58	63.04	91	23.68	124	10.23	153	5.386
26	192.5	59	61.06	92	23.03	125	9.993	154	5.276
27	185.3	60	59.16	93	22.41	126	9.763	155	5.168
28	178.5	61	57.3	94	21.81	127	9.539	156	5.063
29	171.9	62	55.52	95	21.23	124	10.23	157	4.961
30	165.7	63	53.79	96	20.66	125	9.993	158	4.861
31	159.6	64	52.14	97	20.12	126	9.763	159	4.764
32	153.8	65	50.54	98	19.59	127	9.539	160	4.669

Thermistor Information

TYPE : 103AT-1

RESISTANCE : 10 kΩ at 25°C

B VALUE TOLERANCE : ±2%

TEMP.(°C)	103AT (kΩ)	TEMP.(°C)	103AT (kΩ)	TEMP.(°C)	103AT (kΩ)	TEMP.(°C)	103AT (kΩ)	TEMP.(°C)	103AT (kΩ)
-50	329.5	-17	58.68	16	14.12	49	4.299	82	1.577
-49	310.9	-16	55.97	17	13.58	50	4.16	83	1.533
-48	283.5	-15	53.41	18	13.06	51	4.025	84	1.491
-47	277.2	-14	50.98	19	12.56	52	3.896	85	1.451
-46	262	-13	48.68	20	12.09	53	3.771	86	1.411
-45	247.7	-12	46.5	21	11.63	54	3.651	87	1.373
-44	234.3	-11	44.43	22	11.2	55	3.536	88	1.336
-43	221.7	-10	42.47	23	10.78	56	3.425	89	1.3
-42	209.9	-9	40.57	24	10.38	57	3.318	90	1.266
-41	198.9	-8	38.77	25	10	58	3.215	91	1.232
-40	188.5	-7	37.06	26	9.632	59	3.116	92	1.2
-39	178.5	-6	35.44	27	9.281	60	3.02	93	1.168
-38	169	-5	33.9	28	8.944	61	2.927	94	1.137
-37	160.2	-4	32.44	29	8.622	62	2.838	95	1.108
-36	151.9	-3	31.05	30	8.313	63	2.751	96	1.079
-35	144.1	-2	29.73	31	8.014	64	2.668	97	1.051
-34	136.7	-1	28.48	32	7.728	65	2.589	98	1.024
-33	129.8	0	27.28	33	7.454	66	2.511	99	0.9984
-32	123.3	1	26.13	34	7.192	67	2.436	100	0.9731
-31	117.1	2	25.03	35	6.94	68	2.364	101	0.9484
-30	111.3	3	23.99	36	6.699	69	2.295	102	0.9246
-29	105.7	4	23	37	6.467	70	2.228	103	0.9014
-28	100.5	5	22.05	38	6.245	71	2.163	104	0.8789
-27	95.52	6	21.15	39	6.032	72	2.1	105	0.8572
-26	90.84	7	20.3	40	5.827	73	2.039	106	0.836
-25	86.43	8	19.48	41	5.629	74	1.98	107	0.8155
-24	82.26	9	18.7	42	5.438	75	1.924	108	0.7956
-23	78.33	10	17.96	43	5.255	76	1.869	109	0.7763
-22	74.61	11	17.24	44	5.08	77	1.816	110	0.7578
-21	71.1	12	16.56	45	4.911	78	1.765		
-20	67.77	13	15.9	46	4.749	79	1.716		
-19	64.57	14	15.28	47	4.593	80	1.668		
-18	61.54	15	14.69	48	4.443	81	1.621		

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	

REFRIGERANT CHARGING GRAMS

REFRIGERANT CHARGING GRAMS									
SIZE OF LIQUID PIPE	6.35	9.52	12.7	15.88	19.05	22.22	25.4	28.58	
ADDITIONAL AMOUNT	0.02	0.06	0.125	0.18	0.27	0.35	0.53	0.65	

LIQUID LINE + KW INDOOR = TOTAL

MODEL /CAPACTIY	2.2	2.8	3.6	4.5	5.6	6	7.1	9	11.2	12.8	14	22	28	500CMH	1000CMH
SLIM 1 WAY CASSETTE AM***FN1DEH/EU	0.25	0.25	0.25												
SLIM 2 WAY CASSETTE AM***FN2DEH/EU					0.31										
GLOBAL 4WAY CASSETTE AM***FN4DEH/EU				0.45	0.45		0.45	0.45	0.57	0.69	0.69				
FLOOR STANDING UNIT AM***FNFDEH/EU			0.22		0.32		0.32								
ERV PLUS AM***FNKDEH/EU														0.11	0.36
GLOBAL MINI 4WAY CASSETTE AM***FNNDEH/EU	0.29	0.29	0.29	0.37	0.37	0.37									
SLIM DUCT AM***FNLDEH/EU	0.24	0.24	0.24	0.24	0.45		0.45	0.42	0.42	0.62	0.62				
MSP DUCT-S AM***FNMDEH/EU	0.24	0.24	0.24	0.28	0.28		0.28	0.32	0.54	0.68	0.68				
CEILING AM***FNCDEH/EU					0.39		0.39								
CONSOLE		0.27	0.27		0.27										
NEO FORTE AM***FNTDEH/EU	0.24	0.24	0.24		0.36		0.36								
NEO FORTE AM***FNQDEH/EU WITH EEV	0.24	0.24	0.24	0.36	0.36		0.36								
HSP DUCT AM***FNHDEH/EH									0.68	0.68	0.68	1.18	1.18		
MCU (MCU-S*NEE*N)	0.5														



**TS Phone Number 1300 887 660 Option 1
for further assistance**