

**EQ** Protection device  
Details  
Division

\* Refer the service manual of each model for more detail Trouble-Shooting.

Malfunction Code																		
									7	8	9	A	H	C	J	E	F	
Indoor Unit	R	External protection devices activated	Indoor unit PCB assembly failure	Interlock error for fan	Drain level system error	Temp. of heat exchanger(1) error	Temp. of heat exchanger(2) error	Fan motor locked, overload, over current	Swing flap motor error	Over current of AC input	Electronic expansion valve drive error	Heater overheat	*Dust collector error *No-maintenance filter error	Capacity setting error (Indoor)	Shortage of water supply	Malfunctions of a humidifier system (water leaking)		
	C	Malfunctions in a sensor system			Sensor system of drain water error	Heat exchanger (1) (Liquid pipe) thermistor system error	Heat exchanger (2) (Gas pipe) thermistor system error	Sensor system of fan motor locked, overload	Sensor system of swing flap motor error	Sensor system of over-current of AC input	Suction air thermistor error	Discharge air thermistor system error	Contamination sensor error	Humidity sensor error	Remote control thermistor error	Radiation sensor error	High pressure switch error	
Outdoor Unit	E	Protection devices activated	Outdoor unit PCB assembly failure		High pressure switch (HPS) activated	Low pressure switch (LPS) activated	Overload of inverter compressor motor	Over current of STD compressor motor	Overload of fan motor Over current of fan motor	Over current of AC input	Electronic expansion valve drive error		Pump motor over current	Water temperature abnormal	(Site installed) Protection device activated	Malfunctions in a drain water	Ice thermal storage unit error	
	H	Malfunctions in a sensor system	Air temperature thermistor error	Sensor system of power supply error	High Pressure switch is faulty	Low pressure switch is faulty	Compressor motor overload sensor is abnormal	Compressor motor over current sensor is abnormal	Overload or over current sensor of fan motor is abnormal	Sensor system of over-current of AC input	Outdoor air thermistor system error	Discharge air thermistor system error	Pump motor sensor system of over current is abnormal	Water temperature sensor system error		Sensor system of drain water is abnormal	Ice thermal storage unit error (alarm)	
	F	No.1 and No.2 common protection device operates.	No.1 protection device operates.	No.2 protection device operates.	Discharge pipe temperature is abnormal				Temp. of heat exchanger(1) abnormal			Discharge pressure abnormal	Oil temperature is abnormally high	Suction pressure abnormal		Oil pressure abnormal	Oil level abnormal	
	J	Sensor system error of refrigerant temperature	Pressure sensor error	Current sensor error	Discharge pipe thermistor system error	Low pressure equivalent saturated temp. sensor system error	Suction pipe thermistor system error	Heat exchanger(1) thermistor system error	Heat exchanger(2) thermistor system error	Oil equalizer pipe or liquid pipe thermistor system error	Double tube heat exchanger outlet or gas pipe thermistor system error	Discharge pipe pressure sensor error	Oil temperature sensor error	Suction pipe pressure sensor error		Oil pressure sensor error	Oil level sensor error	
	L	Inverter system error			Temperature rise in a switch box	Radiation fin (power transistor) temperature is too high	Compressor motor grounded or short circuit, inverter PCB fault	Compressor motor grounded or short circuit		Over current of all inputs	Compressor over current, compressor motor wire out	Stall prevention error (start-up error) Compressor locked etc.	Power transistor error		Communication error between inverter and outdoor control unit			
	P	Shortage of refrigerant (thermal storage unit)	Power voltage imbalance, open phase		Sensor error of temperature rise in a switch box	Radiation fin temperature sensor error	DC current sensor system error	AC or DC output current sensor system error		Total input current sensor error					Capacity setting error (Outdoor)			
	U	Low pressure drop due to insufficient refrigerant or electronic expansion valve error, etc.	Reverse phase, Open phase	Power voltage failure Instantaneous power failure	Failure to carry out check operation, transmission error	Communication error between indoor unit and outdoor unit Communication error between outdoor unit and BS unit	*Communication error between remote control and indoor unit *Remote control board failure or setting error for remote control	Communication error between indoor units		*Communication error between indoor outdoor units *Communication error between outdoor unit and ice thermal storage unit	*Communication error between other indoor unit and sub remote controllers (sub remote control error) *Communication error of other indoor unit/remote system (model)	*Communication error between other indoor unit and outdoor unit in the same system *Communication error between other BS unit and indoor/outdoor unit	Combination error of indoor/BS/outdoor unit (model, quantity etc.), setting error of spare parts PCB when replaced	Improper connection of transmission wiring between outdoor and outdoor unit outside control adaptor	Centralized address duplicated	Attached equipment transmission error	Communication error between indoor unit and centralized control device	Failure to carry out check operation indoor-outdoor, outdoor-outdoor, communication error etc.
M		Centralized remote controller PCB error								Communication error between centralized remote control devices		Centralized remote control devices inappropriate combination		Centralized remote controller address setting error				
Others	3		The humidity sensor of return air sensor	Outdoor air humidity sensor error	Supply air temp. sensor error	Return air temp. sensor error	Outdoor air temp. sensor error	Remote controller temp. sensor error				Water leakage sensor 1 error	Water leakage sensor 2 error	Dew condensation sensor error				
	4	Humidifying valve error	Chilled water valve error	Hot water valve error	Heat exchanger of chilled water error	Heat exchanger of hot water error												
	5		Fan motor of supply air over current or overload	Fan motor of return air over current Fan motor of return air overload	Inverter system error (supply air side)	Inverter system error (return air side)												
	6	All system error	PC board error	Ozone density abnormal	Contamination sensor error	Indoor air thermistor system error	Outdoor air thermistor system error			HVU error (Ventiair dust-collecting unit)		Dumper system error	Door switch error	Replace the humidity element	Replace the high efficiency filter	Replace the deodorization catalyst	Simplified remote controller error	