No	Name of malfunction	Indoor unit display method				Outdoor uniot display (LED have 3 status) ☐OFF ■ON ★ Blinks				AC Status	Malfunctions
		Double 8 code display	Indicator display (LED blinks 0.5s-ON/0.5s-OFF)								
			Only for the mode with this function								
			Running LED	Cooling LED	Heating LED	D40/ D5	D41/ D6	D42/ D16	D43/ D30		
1	System high pressure protection	E1	3s off blink once							Cooling, dehumidifying, except the indoor fan motor is running, others will stop to run. Heating; all stop running	High pressure of system might be: 1. Refrigerant is too much 2. Poor heat exchaning for units (Including heat exchanger is dirty and unit heating radiating ambient is poor) 3. Ambient temp is too high
2	Anti-Freezing protection	E2	3s off blink twice							Cooling, dehumidifying compressor, outdoor fan motor will stop running, indoor fan motor will keep running	1. Poor indoor unit air returning 2. Indoor fan motor rotating speed abnormal 3. Ambient temp. is too high
3	Computer air exhaust high temp protec-tion	E4	3s off blink four times							Cooling, dehumidifying compressor, outdoor fan motor will stop running, indoor fan motorwill keep running Heating; all stop running	Please refer to trouble shooting (air exhaust protection, overload)
4	AC overload protection	E5	3s off blink five times							Cooling, dehumidifying compressor, outdoor fan motor will stop, indoor fan will work. Heating; all will stop running	1. Power supply is stable, fluctuation is too much 2. Power supply is too low, overload is too much
5	Indoor and outdoor units communication malfunction	E6	3s off blink six times							Cooling, compressor will stop, indoor fan motor works. Heating; all will stop	Please refer to trouble shooting
6	Anti-high temp protection	E8	3s off blink eight times							Cooling, compressor will stop, indoor fan motor works. Heating; all will stop	Please refer to trouble shooting
7	Indoor unit mo-tor no feedback	H6	3s off blink 11 times							Whole unit stop running	1. Poor insert for GPF 2. Indoor control board AP1 malfunction 3. Indoor motor M1 malfunction
8	Jump wire cap malfunction protection	C5	3s off blink 15 times							Whole unit stop running	Indoor control board AP1 jump cap poor connection. Please insert or replace the jump cap.
9	Indoor ambient sensor open circuit, short circut	F1		3s off blink once						Cooling, dehumidify-ing: indoor fan motor is running, other overloads will stop. Heating; whole unit will stop running	1. Room temp. sensor is not connected with the control panel AP1 2. Room temp. sensor is damaged.
10	Indoor evap-orator sensor circuit open, short circuit	F2		3s off blink twice						Cooling, dehumidify-ing: indoor fan motor is running, other overloads will stop. Heating; whole unit will stop running	1. Tube temp. sensor is not connected with the control panel AP1 2. Room temp. sensor is damaged.
11	Outdoor am-bient sensor circuit open, short circuit	F3		3s off blink three times						Cooling, dehumidifying; comnpressor will stop, indoor fan motor will work. Heat: all will stop.	Outdoor room temp. sensor hasn't connected well, or damaged. Please refer to the sensor resistance value for checking
12	Outdoor con-densor sensor open circuit, short circuit	F4		3s off blink four times						Cooling, dehumidifying; comnpressor will stop, indoor fan motor will work. Heat: all will stop.	Outdoor room temp. sensor hasn't connected well, or damaged. Please refer to the sensor resistance value for checking
13	Malfunction of detecting plate (WIFI)	JF									

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			Running LED	Cooling LED	Heating LED	D40/ D5	D41/ D6	D42/ D16	D43/ D30		
14	Outdoor air exhaust sensor open circuit, short circuit	F5	3s off blink five times							Cooling, dehumidifying; after running for 3 mins, the compressor will stop to run, indoor fan will stop to run. Heating: after run 3 mins, all will stop running	1. Exhaust temp sensor hasn't connected well, or damaged, please refer to the sensor resistance value for checking 2. Sensor head hasn't insert into the copper tube.
15	Overload limit/ descending frequency	F6	3s off blink six times							Overload normal operation, compressor is running, frequency descending	Please refer to trouble shooting
16	Over current need frequency descending	F8	3s off blink eight times							Overload normal operation, compressor is running, frequency descending	1. Input power supply is too low 2. System voltage is too high, over is too much
17	Air exhaust over high need frequency descending	F9	3s off blink nine times							Overload normal operation, compressor is running, frequency descending	1. Overload is too much, ambient temp. is too high 2. Refrigerant is short 3. Electric expansion malfunction
18	DC generatrix voltage is too high	PH	3s off blink 11 times							Cooling, dehumidifying, compressor stop running, Fan motor works. Heating: All will stop	1. Testing wire Terminal L and N Position. If higher than 265VAC, please cut off the power supply and restart until back to normal. 2. If input voltage is normal, testing the voltage of electrolytic capacitor on AP1 after turn on the unit. There may be some problem and replace the AP1 if the electrolytic capacitor voltage range at 200-280v
19	Complete unit current detection malfunction	U5	3s off blink 13 times							Cooling, dehumidifying; compressor stops running, indoor fan motor works; Heating: all will stop running	The circuit on AP1 has malfunction, replace the outdoor unit AP1
20	Compressor current overcurrent protection	P5	3s off blink 15 times							Cooling, dehumidifying; compressor stops running, indoor fan motor works; Heating: all will stop running	Please refer to troubleshooting (IPM protection, compressor lose steps, compressor current overcurrent protection)
21	Defrosting			Off 3s and blink once (during blinking, On 10s and OFF 5 s)						Defrosting will occur in heating mode. Compressor will operate while indoor fan will stop.	It's the normal state
22	Compressor overload protection	H3		3s off blink three times						Cooling, dehumidifying; compressor stops running, indoor fan motor works; Heating: all will stop running	1. Wire terminal OVCCOMP loosen or circuit has a problem, the resistance of SAT should be lower than 1 ohm. 2. Please refer to troubleshooting (exhaust/ overload protection)
23	IPM protection	H5		3s off blink five times						Cooling, dehumidifying; compressor stops running, indoor fan motor works; Heating: all will stop running	Please refer to trouble shooting
24	PFC protection	HC		3s off blink six times						Cooling, dehumidifying; compressor stops running, indoor fan motor works; Heating: all will stop running	Please refer to trouble shooting

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		Double 8 code display	Indicator display (LED blinks 0.5s-ON/0.5s-OFF)								
			Only for the mode with this function								
			Running LED	Cooling LED	Heating LED	D40/ D5	D41/ D6	D42/ D16	D43/ D30		
25	Compressor lose steps	H7			3s off blink seven times					Cooling, dehumidifying; compressor stops running, indoor fan motor works. Heating: all will stop running	Please refer to troubleshooting
26	Heating, anti-high temp. declines	H0			3s off blink 10 times					Overload normal works, compressor running, frequency declines	Please refer to troubleshooting
27	Start up fail	Lc			3s off blink 11 times					Cooling, dehumidifying; compressor stops running, indoor fan motor works. Heating: all will stop running	Please refer to troubleshooting
28	Compressor current testing circuit malfunction	U1			3s off blink 13 times					Cooling, dehumidifying; compressor stops running, indoor fan motor works. Heating: all will stop running	Replace the outdoor control board AP1
29	EEPROM malfunction	EE			3s off blink 15 times					Cooling, dehumidifying; compressor stops running, indoor fan motor works. Heating: all will stop running	Replace the outdoor control board AP1
30	Capacitor charge malfunction	PU			3s off blink 17 times					Cooling, dehumidifying; compressor stops running, indoor fan motor works. Heating: all will stop running	Please refer to Part 3 capacitor charging fault of troubleshoot-ing
31	Module sensor circuit diagram	P7			3s off blink 18 times					Cooling, dehumidifying; compressor stops running, indoor fan motor works. Heating: all will stop running	Replace the outdoor control board AP1
32	Module temp. over high protection	P8			3s off blink 19 times					Cooling, dehumidifying; compressor stops running, indoor fan motor works. Heating: all will stop running	To check whether the ambient temp. of IPM is too high or the heat-sinhing of IPM is dirty else replace the outdoor board AP1
33	DC Bus voltage dips	U3			3s off blink 20 times					Cooling, dehumidifying; compressor stops running, indoor fan motor works. Heating: all will stop running	Power voltage is not stable
34	Low DC Bus voltage protection	PL			3s off blink 21 times					Cooling, dehumidifying; compressor stops running, indoor fan motor works. Heating: all will stop running	1. Check the input voltage if the voltage is lower than 150VAC, restart the machine when the power supply is normal. 2. Check the reactor L connection.
35	IPM temp. is too high limit/ decrease frequency	EU								Overload normal works, compressor running, frequency declines	Whole unit break for 20 mins and discharge, to check the outdoor control board AP1's IPM module coolant whether is short, the radiator is tightened. If above phenomenom is not OK, please improve or replace the control board AP1
36	Four-way valve abnormal	U7								This malfunction happened, only in heating mode, all will stop running	1. Power supply voltage is lower than AC175V 2. Wire terminal 4V loosen or wire break 3. 4V damaged, replace 4V
37	Outdoor unit zero-cross detecting error									Cooling: compressor will stop, indoor fan motor works. Heating: all will stop	Replace the outdoor control board AP1
38	Outdoor DC fan motor malfunction	L3								Outdoor DC fan motor malfunction lead to compressor stop operation	DC fan motor malfunction or system blocked or the connec-tor loosed