## 9.2 Error Code List

			Display Me				
No.	Malfunction Name	Dual- 8 Code	Indicator has 3 kinds of display status and during blinking, ON			A/C status	Possible Causes
		Display	0.5s and OFF 0.5s				
			Yellow Indicator	Red Indicator	Green Indicator		
1	High pressure protection of system	E1	Indicator	Indiodeor		During cooling and drying operation, except indoor fan operates, all loads stop operation. During heating operation, the complete unit stops.	<ol> <li>Refrigerant was superabundant;</li> <li>Poor heat exchange (including filth blockage of heat exchanger and bad radiating environment );Ambient temperature is too high.</li> </ol>
2	Antifreezing protection	E2	OFF 1s and blink 3 times			During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates.	<ol> <li>Poor air-return in indoor unit;</li> <li>Fan speed is abnormal;</li> <li>Evaporator is dirty.</li> </ol>
3	Refrigerant leakage protection	F0		OFF 1s and blink 9 times		The Dua <b>l-</b> 8 Code Display will show F0 and the complete unit stops.	1.Refrigerant leakage; 2.Indoor evaporator temperature sensor works abnormally; 3.The unit has been plugged up somewhere.
4	High discharge temperature protection of compressor	E4		OFF 1s and blink 7 times		During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates. During heating operation, all loads stop.	Please refer to the malfunction analysis (discharge protection,overload).
5	Overcurrent protection	E5	OFF 1s and blink 5 times			During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates. During heating operation, all loads stop.	<ol> <li>Supply voltage is unstable;</li> <li>Supply voltage is too low and load is too high;</li> <li>Evaporator is dirty.</li> </ol>
6	Communication Malfunction	E6	Always ON			During cooling operation,compressor stops while indoor fan motor operates. During heating operation, the complete unit stops.	Refer to the corresponding malfunction analysis.
7	High temperature resistant protection	E8	OFF 1s and blink 6 times			During cooling operation:compressor will stop while indoor fan will operate. During heating operation, the complete unit stops.	Refer to the malfunction analysis(overload, high temperature resistant).
8	EEPROM malfunction	EE	OFF 1s and blink 11 times			During cooling and drying operation, compressor will stop while indoor fan will operate;During heating operation, the complete unit will stop	Replace outdoor control panel AP1
9	Limit/decrease frequency due to high temperature of module	EU				All loads operate normally,while operation frequency for compressor is decreased	Discharging after the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly.If its no use, please replace control panel AP1.
	Malfunction protection of jumper cap	C5				Wireless remote receiver and button are effective, but can not dispose the related command	<ol> <li>No jumper cap insert on mainboard.</li> <li>Incorrect insert of jumper cap.</li> <li>Jumper cap damaged.</li> <li>Abnormal detecting circuit of mainboard.</li> </ol>

No.	Malfunction Name	Dua <b>l-</b> 8 Code Display	Display Method of Outdoor Unit Indicator has 3 kinds of display				
			0.5s Yellow	during blin and OFF 0 Red	.5s Green	A/C status	Possible Causes
11	Gathering refrigerant	Fo	OFF 1s and blink 17 times	Indicator	Indicator	When the outdoor unit receive signal of Gathering refrigerant,the system will be forced to run under cooling mode for gathering refrigerant	Nominal cooling mode
12	Indoor ambient temperature sensor is open/ short circuited	F1				During cooling and drying operation, indoor unit operates while other loads will stop; during heating operation,the	<ol> <li>Loosening or bad contact of indoor ambient temp. sensor and mainboard terminal.</li> <li>Components in mainboard fell down leads short circuit.</li> <li>Indoor ambient temp. sensor damaged.(check with sensor resistance value chart)</li> <li>Mainboard damaged.</li> </ol>
13	Indoor evaporator temperature sensor is open/ short circuited	F2				the setting temperature. Cooling,drying:internal fan motor stops operation while other loads stop operation; Heating: AC stop operation	<ol> <li>Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal.</li> <li>Components on the mainboard fall down leads short circuit.</li> <li>Indoor evaporator temp. sensor damaged.(check temp. sensor value chart for testing)</li> <li>Mainboard damaged.</li> </ol>
14	Outdoor ambient temperature sensor is open/ short circuited	F3		OFF 1s and blink 6 times		operating, compressor stops while indoor fan operates; During heating operation, the	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)
15	Outdoor condenser temperature sensor is open/ short circuited	F4		OFF 1s and blink 5 times		operation, compressor stops while indoor fan will operate; During heating operation,the	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)
16	Outdoor discharge temperature sensor is open/ short circuited	F5		OFF 1s and blink 7 times		sop after operating for about 3 mins,while indoor fan will operate; During heating operation,the complete unit will stop after	1.Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor) 2.The head of temperature sensor hasnt been inserted into the copper tube
17	Limit/decrease frequency due to overload	F6		OFF 1s and blink 3 times		operation frequency for	Refer to the malfunction analysis(overload, high temperature resistant)
18	Decrease frequency due to overcurrent	F8		OFF 1s and blink once		All loads operate normally,while	The input supply voltage is too low;System pressure is too high and overload
19	Decrease frequency due to high air discharge	F9		OFF 1s and blink twice		operation frequency for	Overload or temperature is too high; Refrigerant is insufficient; Malfunction of electric expansion valve (EKV)
20	Limit/decrease frequency due to antifreezing	FH		OFF 1s and blink 4 times		All loads operate normally,while operation frequency for compressor is decreased	Poor air-return in indoor unit or fan speed is too low

			Display Me	thad of Ou	tdoor L Init		
No.	Malfunction Name	Dua <b>l-</b> 8 Code Display	Indicator has status and		of display iking, ON	A/C status	Possible Causes
			Indicator	Indicator			
21	Voltage for DC bus-bar is too high	PH	OFF 1s and blink 13 times			During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	<ol> <li>Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 265VAC, turn on the unit after the supply voltage is increased to the normal range.</li> <li>If the AC input is normal,measure the voltage of electrolytic capacitor C on control panel (AP1),if its normal, theres malfunction for the circuit, please replace the control panel (AP1)</li> </ol>
22	Voltage of DC bus-bar is too low	PL	OFF 1s and blink 12 times			During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	<ol> <li>Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 150VAC,turn on the unit after the supply voltage is increased to the normal range.</li> <li>If the AC input is normal,measure the voltage of electrolytic capacitor C on control panel (AP1),if its normal, theres malfunction for the circuit, please replace the control panel (AP1)</li> </ol>
23	Compressor Min frequence in test state	P0					Showing during min. cooling or min. heating test
24	Compressor rated frequence in test state	P1					Showing during nominal cooling or nominal heating test
25	Compressor maximum frequence in test state	P2					Showing during max. cooling or max. heating test
26	Compressor intermediate frequence in test state	P3					Showing during middle cooling or middle heating test
27	Overcurrent protection of phase current for compressor	P5				During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.
28	Charging malfunction of capacitor	PU				During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Refer to the part three—charging malfunction analysis of capacitor
29	Malfunction of module temperature sensor circuit	P7				During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Replace outdoor control panel AP1

No.	Malfunction Name	Dua <b>l-</b> 8 Code Display	Display Method of Outdoor Unit Indicator has 3 kinds of display status and during blinking, ON 0.5s and OFF 0.5s			A/C status	Possible Causes
			Yellow Indicator	Red Indicator	Green Indicator		
30	Module high temperature protection	P8				"During cooling operation,compressor will stop while indoor fan will operate; During heating operation,the complete unit will stop"	After the complete unit is deenergized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly. If its no use, please replace control panel AP1.
31	Overload protection for compressor	H3	OFF 1s and blink 8 times			"During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation."	Refer to the malfunction analysis(overload, high temperature resistant)
32	IPM protection	H5	OFF 1s and blink 4 times			"During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation,the complete unit will stop operation."	
33	Internal motor(fan motor) do not operate	H6				Internal fan motor, external fan motor, compressor and electric heater stop operation,guide louver stops at present location.	Refer to the malfunction analysis(overload, high temperature resistant)
34	Desynchronizing of compressor	H7				"During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation,the complete unit will stop operation."	Refer to the malfunction analysis (IPM protection,loss of synchronism protection and overcurrent protection of phase current for compressor.
35	PFC protection	HC	OFF 1s and blink 14 times			"During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation,the complete unit will stop operation."	
36	Outdoor DC fan motor malfunction	L3		OFF 1s and blink 14 times		Outdoor DC fan motor malfunction lead to compressor stop operation	
37	power protection	L9	OFF 1s and blink 9 times			compressor stop operation and Outdoor fan motor will stop 30s latter,3 minutes latter fan motor and compressor will restart	Refer to the malfunction analysis (IPM protection,loss of synchronism protection and overcurrent protection of phase current for compressor.
38	Indoor unit and outdoor unit doesn't match	LP	OFF 1s and blink 16 times			compressor and Outdoor fan motor can't work	Refer to the malfunction analysis
39	Failure startup	LC				"During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation,the complete unit will stop operation."	DC fan motor malfunction or system blocked or the connector loosed
No.	Malfunction Name	Dual- 8 Code Display			of display king, ON	A/C status	Possible Causes

40	Malfunction of phase current detection circuit for compressor	U1				"During cooling and drying operation,compressor will stop while indoor fan will operate; During heating operation,the complete unit will stop"	To protect the electronical components when detect high power
41	Malfunction of voltage dropping for DC bus-bar	U3				"During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop"	Indoor unit and outdoor unit doesn't match
42	Malfunction of complete units current detection	U5				"During cooling and drying operation,the compressor will stop while indoor fan will operate; During heating operating,the complete unit will stop operation."	Refer to the malfunction analysis
43	The four-way valve is abnormal	U7				If this malfunction occurs during heating operation, the complete unit will stop operation.	Replace outdoor control panel AP1
44	Frequency limiting(power)			OFF 1s and blink 13 times			Supply voltage is unstable
45	Compressor running		OFF 1s and blink once				Theres circuit malfunction on outdoor units control panel AP1,please replace the outdoor units control panel AP1.
46	The temperature for turning on the unit is reached			OFF 1s and blink 8 times			<ol> <li>Supply voltage is lower than AC175V;</li> <li>Wiring terminal 4V is loosened or broken;</li> <li>4V is damaged, please replace 4V.</li> </ol>
47	Frequency limiting(module temperature)			OFF 1s and blink 11 times			Replace outdoor control panel AP1
48	Normal communication				OFF 0.5s and blink once		
49	Defrosting (Heating indicator ON 10s OFF 0.5s)					Defrosting will occur in heating mode.Compressor will operate while indoor fan will stop operation.	
50	Malfunction of detecting plate(WIFI)	JF					Refer to the malfunction analysis