2．IDU Fault code table

Serial	Error code	Error code definition	Recovery or not	Problem possible reasons
1	**A1**	Indoor ambient temperature sensor failure	Yes	Indoor PCB is broken The fuse of indoor PCB is broken temperature sensor broken , or exceed test limit
2	**A2**	Temperature sensor about middle position of evaporator failure	Yes	Indoor PCB is broken The fuse of indoor PCB is broken temperature sensor broken , or exceed test limit
3	**A3**	Indoor coil pipe inlet temperature sensor failure	Yes	Indoor PCB is broken The fuse of indoor PCB is broken temperature sensor broken , or exceed test limit
4	**A4**	Indoor coil pipe outlet temperature sensor failure	Yes	Indoor PCB is broken The fuse of indoor PCB is broken temperature sensor is broken , or exceed test limit
5	**A5**	Indoor water pump failure	Yes	Water pump no power Water pump switch short-circuit or unconnected Water pump is broken Drain pipe block or up lean Indoor PCB is broken
6	**A6**	Failure of indoor PG fan	No	Fan motor failure Fan motor block The connection between PCB and fan motor failure. Indoor fan block
7	**A7**	Failure of reversible synchronous motor	No	Step motor failure The connection between PCB and step motor failure.
8	**A8**	Indoor unit ERRPROM module failure	No	Indoor unit PCB is broken Error module is broken.

9	**A9**	The communication between indoor unit and outdoor unit failed	No	The communication wire between indoor unit and outdoor unit is broken. Indoor unit power close Indoor PCB is broken
10	**AA**	The communication between indoor unit and wire controller failed	No	The communication wire between indoor unit and outdoor unit is broken. Indoor unit power close Indoor PCB is broken Wire controller is broken
11	**AC**	Two or more indoor unit central control system address repeated	Yes	The central control address setting incorrect
12	**AE**	Operation mode conflict	Yes	The operation mode setting incorrect
13	**AH**	Two or more indoor unit refrigerant system address repeated	Yes	System address setting incorrect
14	**AJ**	Indoor unit total capacity exceeded	Yes	Stop some indoor units
15	**AF**	The EXV leakage	Yes	EXV is blocked Indoor unit temperature sensor issue. Evaporator inlet sensor failure.
16	**A0**	The EXV to open failure	No	
17	**99**	Communication failure between internal machine and fan drive board	Yes	Drive board, power supply shall not be electrified Communication lines are not connected or loose Module board failure
18	**9A**	Indoor fan module temperature protection	Yes	The temperature of the inner fan module is too high
19	**9H(9B)**	The Indoor fan module fails to start or runs out of step	No	There is foreign matter in the indoor cavity or the fan blade screw is loose The motor model set in the internal machine does not match the actual indoor motor Model Module board failure

				Motor failure
20	**9C**	Overcurrent protection of Indoor fan	No	Internal parameters static pressure setting is relatively large
				There is foreign matter in the indoor cavity or the wind vane screw is loose
				Internal machine setting motor model does not match the actual indoor motor Model
				Module board failure
				Motor failure
21	**9J(9D)**	DC overvoltage protection of Indoor fan	No	The fan line is not connected or loose
				Module board failure
				Motor failure
22	**9E**	Indoor fan driver board IPM alarm	No	Internal parameters static pressure setting is relatively large
				There is foreign matter in the indoor cavity or the wind vane screw is loose
				Internal machine setting motor model does not match the actual indoor motor Model
				Module board failure
				Motor failure
23	**9F**	Indoor fan drive board EE fault	No	Module board failure, unable to read EE parameter after power-on
				EE parameter is manually changed

3. ODU Fault code table

Serial	Error Code	Error code definition	Recovery or not	Possible reason
1	**F3**	High pressure too high protection "Pd"	Yes	Exhaust pipe or condenser pipe block
				Condenser dirty
				Outdoor unit fan stop or low speed
				Refrigerant overcharge

2	**F6**	Low pressure too low protection "Ps"	No	Indoor unit fan stop or low speed
				Evaporator dirty
				Indoor EXV full open in cooling mode (Outdoor EXV full open in heating mode)
				Lack refrigerant
				The pipe between evaporator and suction port block
3	**FH (FB)**	Discharge temperature "Tdi" too low limit frequency protection	No	Once confirm the unrecoverable
4	**H1 (B1)**	High *pressure switch failure* "HPSa"	No	System pressure exceed high pressure switch limit.
				High pressure switch failure
				High pressure sensor failure
				Instantaneous power-off
				Stop valve closed
				Outdoor unit fan stop
				Outdoor unit air outlet block
				In heating mode indoor unit fan stop
				In heating mode indoor unit EXV block
5	**H4(B4)**	Low *pressure switch failure* "HPSa"	NO	System pressure exceed high pressure switch limit.
				Low pressure switch failure
				Low pressure sensor failure
				Instantaneous power-off
				Stop valve closed
				Outdoor unit fan stop
				Outdoor unit air outlet block
				In heating mode indoor unit fan stop
				In heating mode indoor unit EXV block
6	**H5**	Refrigerant shortage fault	No	System leakage
7	**HJ**	Main power failure	No	Supply power phase-reversal
				Supply power phase lack
				Outdoor unit PCB failure

8	**E3**	No.1-DC Compressor "Tda" *discharge temperature too high shutdown protection*	No	1.System less refrigerant 2.DC inverter Compressor failure 3.Compressor air return filter block 4.EXV open degree is small 5.EXV block 6.Gas pipe stop valve closed 7.Liquid pipe stop valve closed 8.System exhaust sensor failure 9.Outdoor unit PCB failure
9	**J7**	Outdoor unit main control PCB ERROM module failure	No	Mail PCB failure
10	**JJ**	Indoor unit total capacity exceeding	Yes	Indoor units' total capacity over 130% of the outdoor units' total capacity
11	**47**	Indoor unit loss failure	Yes	Communication wire between indoor units failure Indoor PCB failure Power supply of indoor units failure
12	**E1**	The 4-way valve is fault	NO	/
13	**E9**	Drive refrigerant cooling pipe low temperature protection	NO	/
14	**C1**	Ambient "Tao" *temperature sensor failure*	Yes	1.Temperature sensor failure 2.Test temperature exceed limit 3.Sensor connection is incorrect 4.Outdoor unit PCB failure
15	**C2**	Defrosting "Tdef" *temperature sensor failure*	Yes	
16	**C3**	Compressor 1# discharge"Tda" *temperature sensor failure*	Yes	
17	**C6**	Suction pipe of compressor "Ts" *temperature sensor failure*	Yes	

18	**C8**	Condenser Mid temperature sensor failure	Yes	
19	**CJ**	Oil “Toila” *temperature sensor failure*	Yes	
20	**F1**	High pressure sensor failure "Pd"	Yes	High pressure sensor failure High pressure sensor connection is incorrect. Outdoor unit PCB failure
21	**F4**	Low pressure sensor failure "Ps"	Yes	Low pressure sensor is broken. The connection between sensor and outdoor PCB incorrect Outdoor unit PCB failure
22	**J2**	*Communication failure* between outdoor and indoor unit	Yes	The communication wire between indoor unit and outdoor unit disconnect, short circuit or connect incorrect. Indoor unit main power failed Indoor unit PCB failure
23	**J3**	*Communication failure* between PCB and INV drive module	Yes	The connection between driving module and main PCB failure The communication part of outdoor unit control PCB failure Frequency driving board failure Compressor failure
24	**J4**	*Communication failure* between main PCB and DC fan motor drive module	Yes	DC fan motor drive module failure DC fan failure
25	**31**	Compressor 1# drive Module IPM protection (F0)	Yes	1. Supply voltage below level let the current excessive 2. Supply voltage exceed limit 3. Outdoor fan stop or low speed 4. Drive module temperature too high
26	**32**	Compressor 1# drive Module hardware protection	Yes	
27	**33**	Compressor 1# drive Module software	Yes	

		protection		
28	**34**	Compressor 1# drive module unconnected	Yes	The connect of driving module and DC inverter compressor incorrect Driving module failure Compressor failure
29	**35**	Compressor 1# phase current overload protection	Yes	Compressor overload Compressor coil disconnect Inverter driving board failure Compressor failure
30	**36**	Compressor 1# DC bus voltage over-voltage or under-voltage failure	Yes	Supply voltage below level Supply voltage exceed limit Driving module failure
31	**37**	Compressor 1# temperature sensor of drive module heat fins failure	No	Inverter driving board failure
32	**38**	Compressor 1# drive module high temperature limit frequency failure	Yes	Driving module failure Compressor failure Outdoor unit fan stop or low speed
33	**39**	Compressor 1# drive module high temperature shutdown protection	Yes	Driving module failure Compressor failure Temperature sensor failure
34	**3E**	Compressor 1# drive module AC Input over current protection	No	Once confirm the unrecoverable
35	**3F**	Compressor 1# drive Module PFC protection (F0)	Yes	/
36	**3H(3B)**	DC fan 1 module startup failure or running out of step	Yes	1. Loose fan blade screws, abnormal air inlet or overstocking of snow 2. Incorrect external capacity setting (Dialing) or incorrect model setting (Dialing) 3. fan controller EE parameter does not match the actual motor Model 4. Module board failure 5. Motor failure

37	**HE(BE)**	High AC input voltage protection of unit	Yes	1. Unstable voltage 2. Abnormal connection
38	**3C**	DC fan 1 overcurrent protection	Yes	1. Loose fan blade screws, abnormal air inlet or overstocking of snow 2. Incorrect external capacity setting (Dialing) or incorrect model setting (Dialing) 3. fan controller EE parameter does not match the actual motor Model 4. Module board failure 5. Motor failure
39	**3J(3D)**	DC fan 1DC over-voltage protection	Yes	1. The fan line is not connected or loose 2. Module board failure 3. Motor Failure
40	**43**	DC Fan 1 driver board hardware protection	No	1. Module board failure, unable to read EE parameter after power-on 2. EE parameter is manually changed
41	**4H(4B)**	DC Fan 2 driver board hardware protection	No	1. Module board failure, unable to read EE parameter after power-on 2. EE parameter is manually changed
42	**5H(5B)**	DC Fan 2 module startup failure or running out of step	Yes	1. Loose fan blade screws, abnormal air inlet or overstocking of snow 2. Incorrect external capacity setting (Dialing) or incorrect model setting (Dialing) 3. fan controller EE parameter does not match the actual motor Model 4. Module board failure 5. Motor failure
43	**5C**	DC Fan 2 overcurrent protection	Yes	1. Loose fan blade screws, abnormal air inlet or overstocking of snow 2. Incorrect external capacity setting (Dialing) or incorrect model setting (Dialing) 3. fan controller EE parameter does not match the actual motor Model 4. Module board failure 5. Motor failure
44	**5J(5D)**	DC Fan 2 DC over-voltage protection	Yes	1. The fan line is not connected or loose 2. Module board failure 3. Motor Failure