

# Part12 Trouble Shooting

## 1.ODU Error Code Table

Table39.1:Error code table

1)LED state: ○light off ● light on ★ the light is flashing

2)When a variety of faults occur, each fault light will be displayed for 5s and execute in turn

3)Digital tube display"00": No fault, The command to start the compressor has been sent, but the actual frequency is 0

priority	LED1	LED2	LED3	Code display	Failure
/	○	○	○	No display/ Number of indoor units	Normal (compressor stopped)
/	★	★	★	No display/ Operating frequency	Normal operation (compressor on)
/	●	●	●	0D/JH	Forced operation or fixed frequency operation
1	○	○	●	36	AC voltage under-voltage protection
2	○	○	★	35	overcurrent protection
3	○	●	○	H4	Low voltage switch protection
				H1	High voltage switch protection
6	○	★	○	39	IPM/PFC over temperature protection
8	○	★	★	C1	Outdoor temperature sensor failure
11	●	○	★	C6	Return air temperature sensor failure
12	●	●	○	E3	Compressor discharge temperature is too high protection
13	●	●	○	FH	Compressor discharge temperature is too low protection
15	●	●	★	E1	Four-way valve reversing abnormal protection
19	●	★	★	C2	Outdoor defrost sensor failure
20	★	○	○	3H	Outdoor DC fan failure
21	★	○	●	J7	Outdoor unit master control EE fault/dial code abnormal fault
22	★	○	★	C3	Compressor discharge sensor fault
23	★	●	○	H4	Heating/cooling low voltage frequency limiting/frequency reduction/protection
24	★	●	●	J2	Communication failure between outdoor unit and indoor unit
25	★	●	★	3E	Compressor start failure/running out of step failure
26	★	★	○	3F	PFC protection fault/PFC bias voltage error
27	★	★	●	31	Module protection fault / compressor phase current bias voltage error
29	/	/	/	J3	The communication between the driver board and the main control board is faulty

30	/	/	/	32	Drive EE failure
31	/	/	/	37	IPM/PFC module temperature sensor abnormality
32	/	/	/	33	Drive module software protection
33	○	●	●	F1	High pressure pressure sensor failure
35	●	○	●	F3	High pressure high pressure protection
37	●	★	●	J5	The number of outdoor units and the number of addresses are incorrectly set

## 2.Hydraulic module Error code table

error code	malfunction or protection	failure cause and corrective action
A7	Water flow fault	1.The wire circuit is short connected or open.Reconnect the Wire correctly
		2.Water flow rate is too low
		3.Water flow switch is failed,switch is open or close continuously,change the water flow switch
AA	Communication fault between controller and indoor unit	1.Wire doesn't connect wired controller and unit. Connect the wire
		2.Communication wire sequence is not right, Reconnect the communication fault wire in the right sequence between controller
		3.Whether there is a high magnetic field or power and indoor unit interfere,such as lifts,large power transformers,etc
		4.To add a barrier to protect the unit or to the other place
93	Final outlet water temp.sensor(Two2) fault	1.Check the resistance of the sensor
		2.The Two2 sensor connect is loosen.Reconnect it
		3.The Two2 sensor connect is wet or there is water in.Remove the water,make the connector dry,Add waterproof adhesive
		4.The Two2 sensor failure,change a new sensor
96	Water tank temp.sensor(Twt) fault	1.Check the resistance of the sensor
		2.The Twt sensor connector is loosen.Reconnect it
		3.The Twt sensor connector is wet or there is water in.remove the water , make the connector dry,Add waterproof adhesive
		4. The Twt sensor failure,change a new sensor
		5.If you want to close the domestic water heating when T5 sensor do not connected to the system,then T5 sensor can not be detected refer to "DHW MODE SETTING"
94	Inlet water temp.sensor(Twi) malfunction	1.Check the resistance of the sensor
		2.The Twi sensor connector is loosen.Reconnect it.inlet water temp.sensor
		3. The Twi sensor connector is wet or there is water in.(Twi) malfunction remove the water , make the connector dry,Add waterproof adhesive
		4. The Twi sensor failure,change a new sensor

error code	malfunction or protection	failure cause and corrective action
A9	Communication fault between indoor unit and outdoor unit	1.Wire doesn't connect between outdoor unit and main control board of indoor unit.connect the wire
		2.Communication wire sequence is not right.Reconnect the wire in the right sequence
		3.Whether there is a high magnetic field or high power interference, such as lifts, large power transformers, etc... To add a barrier to protect the unit or to move the unit to the place
A3	Refrigerant liquid temp.sensor(Tici) fault	1.Check the resistance of the sensor
		2.The Tici sensor connector is loose.Reconnect it
		3.The Tici sensor connector is wet or there is water in.remove the water, make the connector dry,Add waterproof adhesive
		4. The Tici sensor failure,change a new sensor
A4	Refrigerant gas temp.sensor (Tico)fault	1.Check the resistance of the sensor
		2.The Tico sensor connector is loose.Reconnect it
		3.The Tico sensor connector is wet or there is water in.remove the water, make the connector dry,Add waterproof adhesive
		4. The Tico sensor failure,change a new sensor
95	Outlet water temp.sensor (Two1)fault	1.The Two1 sensor connector is loose.Reconnect it
		2.The Two1 sensor connector is wet or there is water in.remove the water, make the connector dry,Add waterproof adhesive
		3. The Two1 sensor failure,change a new sensor
7F	Solar temp.sensor(Tsolar)fault	1.Check the resistance of the sensor
		2.The Tsolar sensor connector is loose.Reconnect it
		3.The Tsolar sensor connector is wet or there is water in.remove the water, make the connector dry,Add waterproof adhesive
		4. The Tsolar sensor failure,change a new sensor
7E	Floor heating water inlet temp.sensor(TWI_FLH)	1.Check the resistance of the sensor
		2.The TWI_FLH sensor connector is loose.Reconnect it
		3.The TWI_FLH sensor connector is wet or there is water in.remove the water, make the connector dry,Add waterproof adhesive
		4. The TWI_FLH sensor failure,change a new sensor
A5	IDU water pump fault	1.Check whether the water valve is open
		2.Check whether the water pump control line is loose
		3.Check whether filter is dirty and blocked
		4.Check whether pump voltage is lower than 170v or higher than 270v
		5.The water pump failure,change a new water pump

error code	malfunction or protection	failure cause and corrective action
98	Early closing fault of water flow switch	1.Check whether the wiring of water flow switch is correct
		2.Check whether other equipment is connected in series with the host
		3.Water flow switch failure,change a new water flow switch
97	Anti-freezing Low Pressure Switch(AFLP) protection	1.Check whether AFLP is loose
		2.Check whether there is insufficient refrigerant
		3.Check whether the filter is dirty and blocked
		4.The AFLP failure,change a new AFLP
7D	Expansion Board comm fault	Check whether the connection line is normal
AF	Electric heating overheat protection	1.Check whether the filter is dirty and blocked
		2.Check whether the thermal protection switch falls off
A8	EE fault	1.Check whether the internal and external connecting lines are connected normally
		2.The control panel failure,change a new control panel