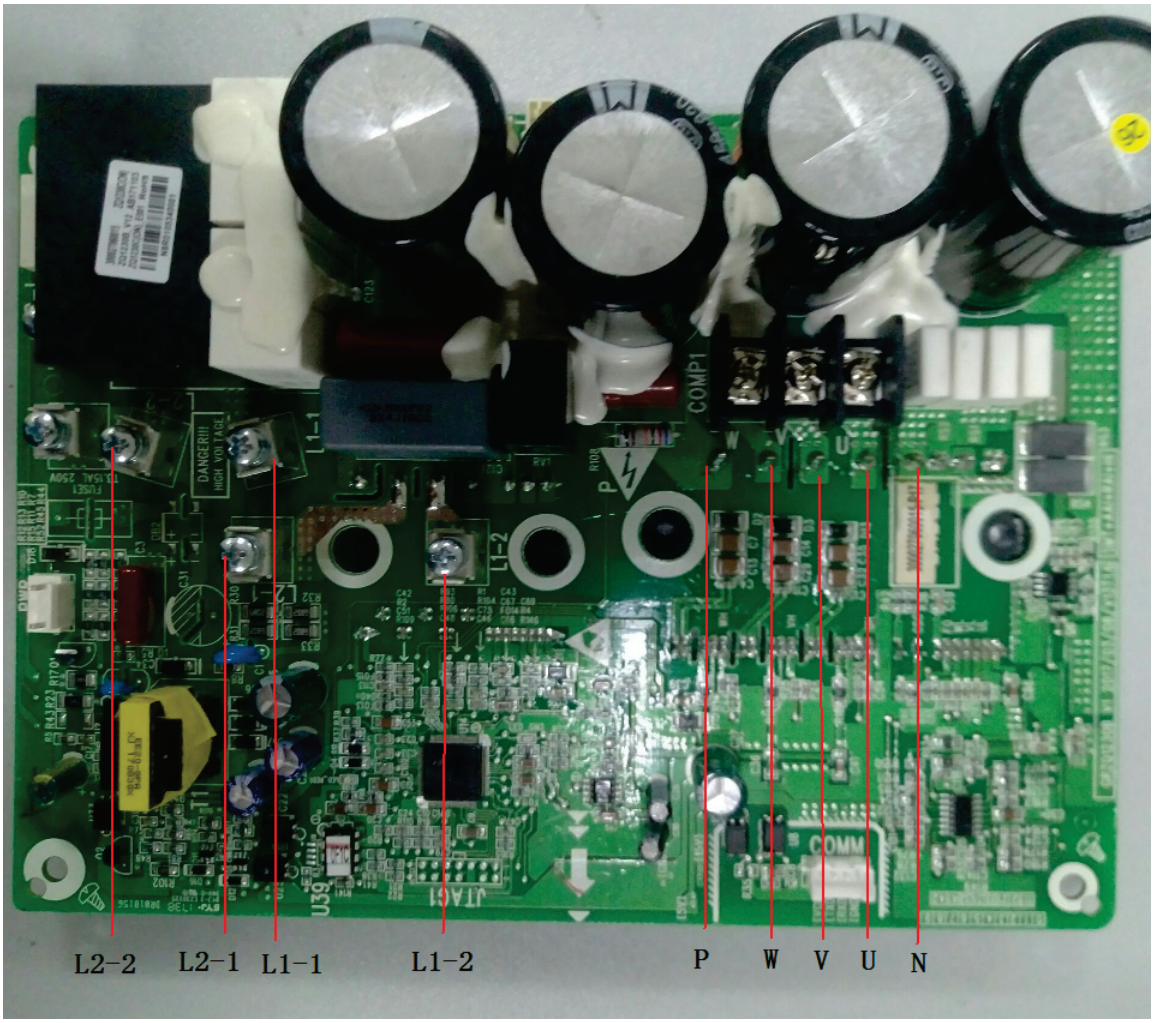
GUD125W/NhB-S , GUD140W/NhB-S

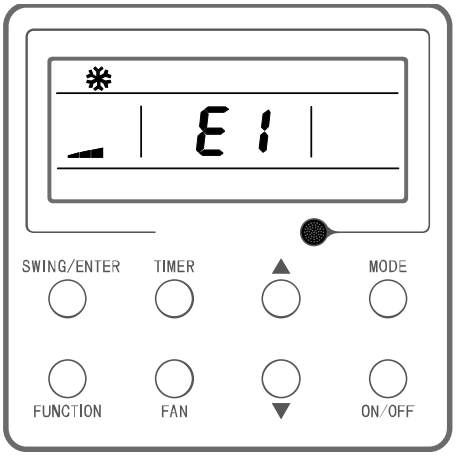


3.3 Error Code

Number	Error code	Error
1	E1	Compressor high pressure protection
2	E2	Indoor anti-freeze protection
3	E3	Compressor low pressure protection, refrigerant lack protection and refrigerant collection mode
4	E4	Compressor air discharge high-temperature protection
5	E6	Communication error
6	E8	Indoor fan error
7	E9	Water-full protection
8	F0	Indoor ambient temperature sensor error
9	F1	Evaporator temperature sensor error
10	F2	Condenser temperature sensor error
11	F3	Outdoor ambient temperature sensor error
12	F4	Discharge temperature sensor error
13	F5	Wired controller temperature sensor error

Number	Error code	Error
14	C5	IDU jumper cap error
15	EE	ODU memory chip error
16	PF	Electric box sensor error
17	H3	Compressor overload protection
18	H4	Overload
19	H5	IPM protection
20	H6	DC fan error
21	H7	Driver out-of-step protection
22	HC	Pfc protection
23	Lc	Startup failure
24	Ld	Compressor phase-sequence protection
25	LF	Power protection
26	Lp	IDU and ODU unmatched
27	U7	4–way valve switch-over error
28	P0	Driver reset protection
29	P5	Over-current protection
30	P6	Master control and driver communication error
31	P7	Driver module sensor error
32	P8	Driver module high temperature protection
33	PA	AC current protection
34	Pc	Driver current error
35	Pd	Sensor connection protection
36	PL	Bus low-voltage protection
37	PH	Bus high-voltage protection
38	PU	Charge loop error
39	PP	Input voltage error
40	ee	Drive memory chip error
41	C4	ODU jumper cap error
42	dJ	Phase-loss and anti-phase protection
43	oE	ODU error, for specific error please see the status of ODU main board indicator
44	EL	Emergency stop (fire alarm)

If malfunction occurs during operation, LCD temperature display zone will show the failure information. If several malfunctions occur at the same time, their corresponding error codes will be shown in turn. When malfunction occurs, please shut off the unit and send for professional personnel to repair. For example, E1 (as shown below) indicates high pressure protection.



3.4 Troubleshooting

3.4.1 “E1” Compressor High Pressure Protection

Error display: ODU main board, IDU wired controllerler and IDU receiver light board will display

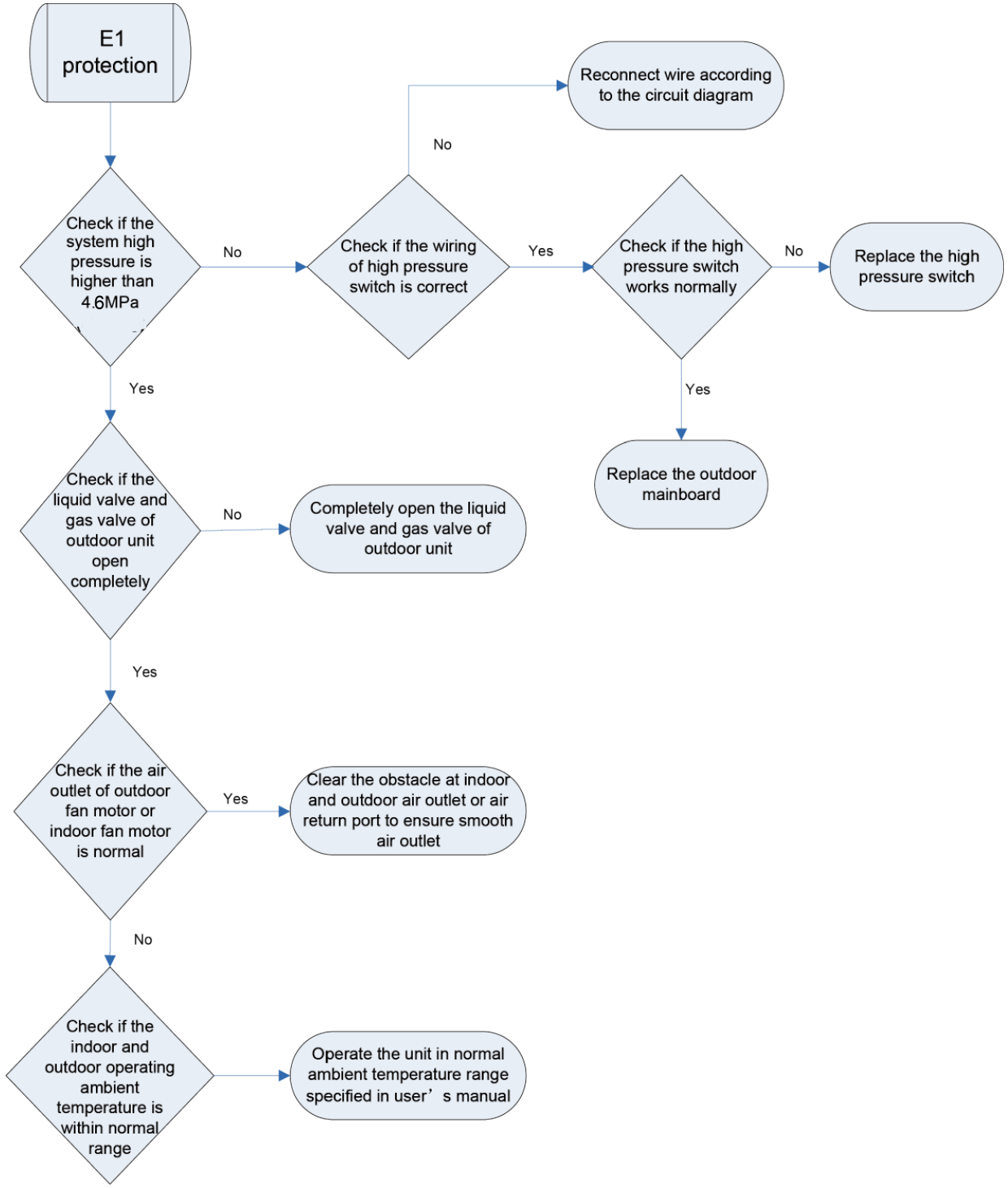
Error judgment condition and method:

It is judged through the action of high pressure switch. If the high pressure switch is cut off, it is judged that high pressure is too high and the system stops operation for protection.

Possible reason：

■Cut-off valve of ODU is not fully opened
■High pressure switch is abnormal
■Outdoor or indoor fan is not working properly
■IDU filter or air duct is blocked (heating mode)
■Ambient temperature is too high
■Refrigerant charging amount is too much
■System pipeline is blocked

Troubleshooting：



3.4.2 "E2" Indoor Anti-freezing Protection

Error display: IDU wired controllerler and IDU receiver light board will display

Error judgment condition and method:

Check IDU pipe temperature. When pipe temperature is too low, freeze protection will be activated to prevent freezing damage of evaporator.

Possible reason：

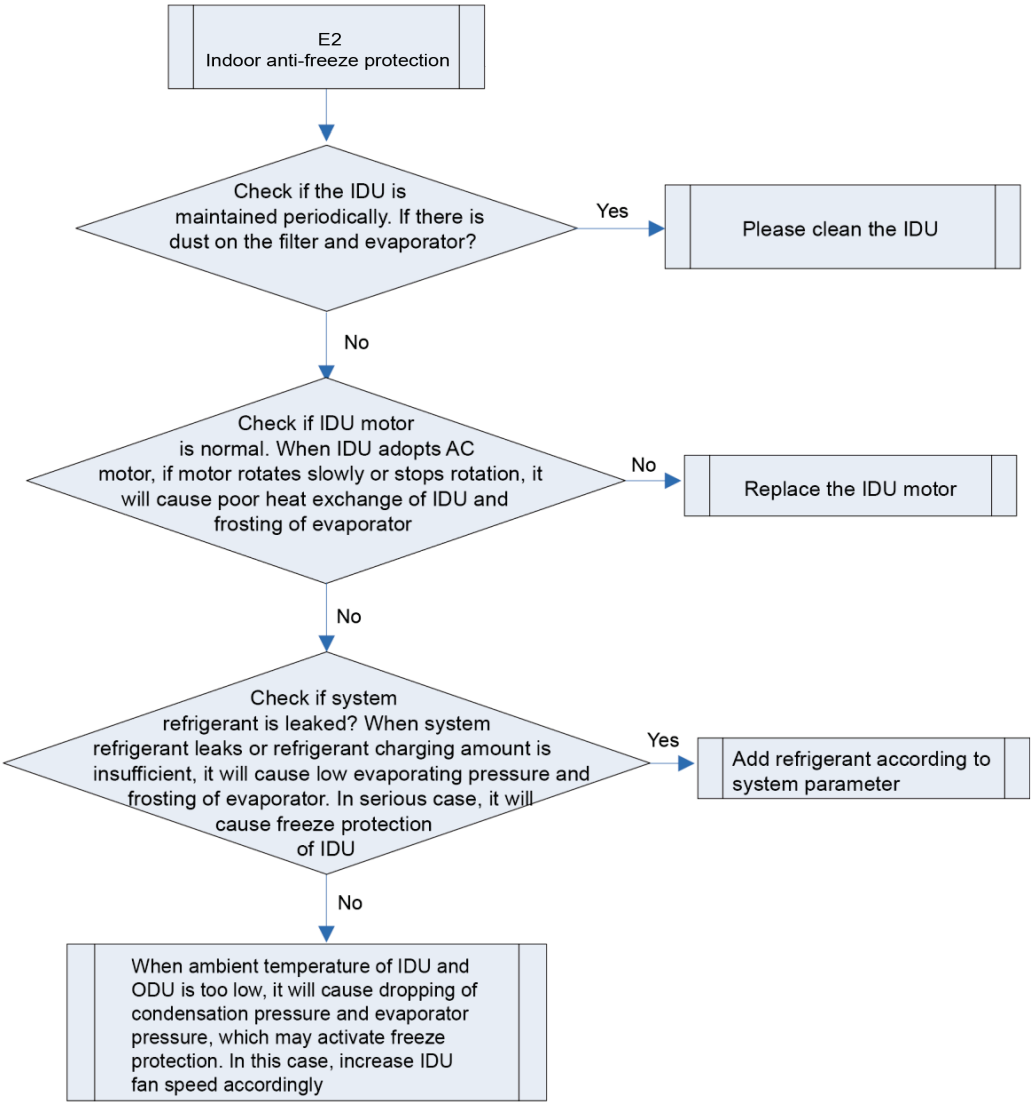
■IDU filter and evaporator are dirty

■IDU motor is blocked

■Refrigerant amount is insufficient

■Ambient temperature of IDU and ODU is too low

Troubleshooting：



3.4.3 “E3” Compressor Low-pressure Protection, Refrigerant Shortage Protection, Refrigerant Recovery Mode

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

Error judgment condition and method:

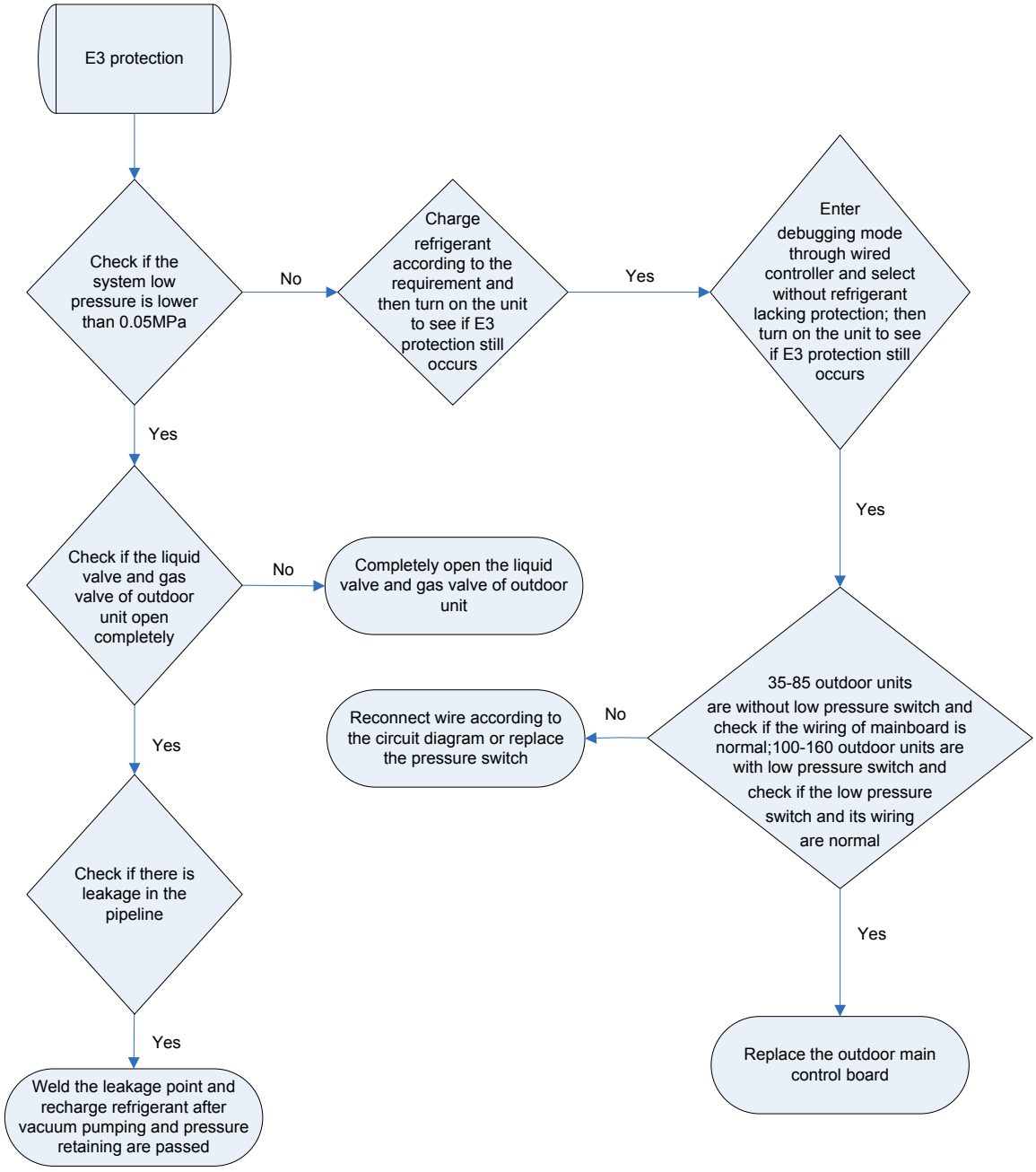
It is judged through the action of low pressure switch. If the low pressure switch is cut off, it is judged that low pressure is too low and the system stops operation for protection.

Possible reason：

■Cut-off valve of ODU is not fully opened

■Low pressure sensor is abnormal
■Outdoor or indoor fan is not working properly
■IDU filter or air duct is blocked (cooling mode)
■Ambient temperature is too low
■Refrigerant charging amount is insufficient
■System pipeline is blocked;

Troubleshooting :



3.4.4 “E4” Compressor Air Discharge High-temperature Protection

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

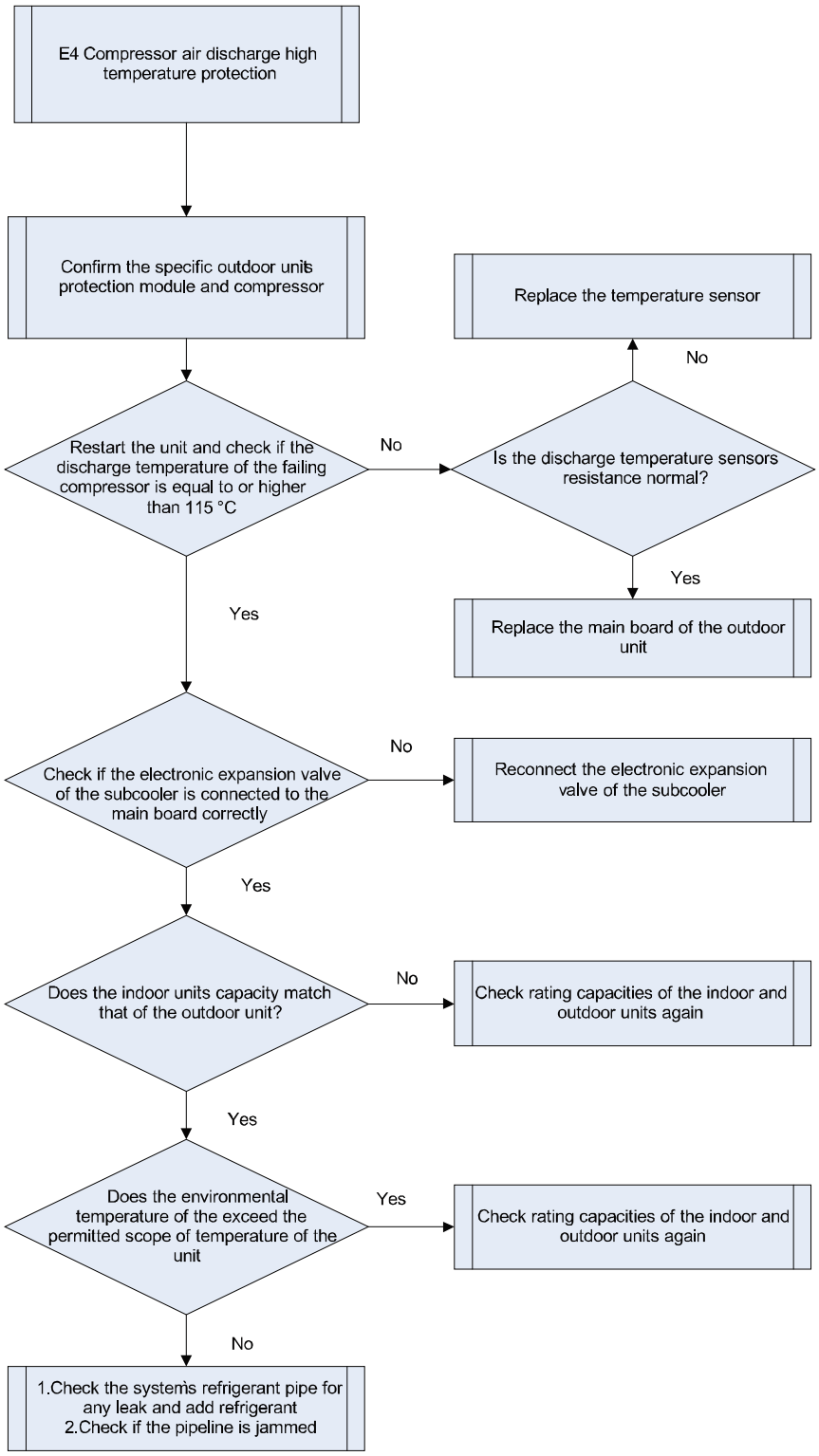
Error judgment condition and method:

Test the compressor discharge temperature through compressor discharge pipe and shell top temperature sensor. If the tested temperature value is higher than 115°C, the unit will stop for protection

Possible reason：

■Cut-off valve of ODU is not fully opened
■Electronic expansion valve is abnormal
■Outdoor or indoor fan is not working properly
■IDU filter or air duct is blocked (cooling mode)
■Ambient temperature exceeds allowable operation range
■Refrigerant charging amount is insufficient
■System pipeline is blocked;

Troubleshooting：



3.4.5 “E6” Communication Error

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

Error judgment condition and method:

If no communication between ODU and IDU or between IDU and wired controller in continuously 120s, this error will be reported.

Possible reason:

■Communication wire is connected improperly or loose.

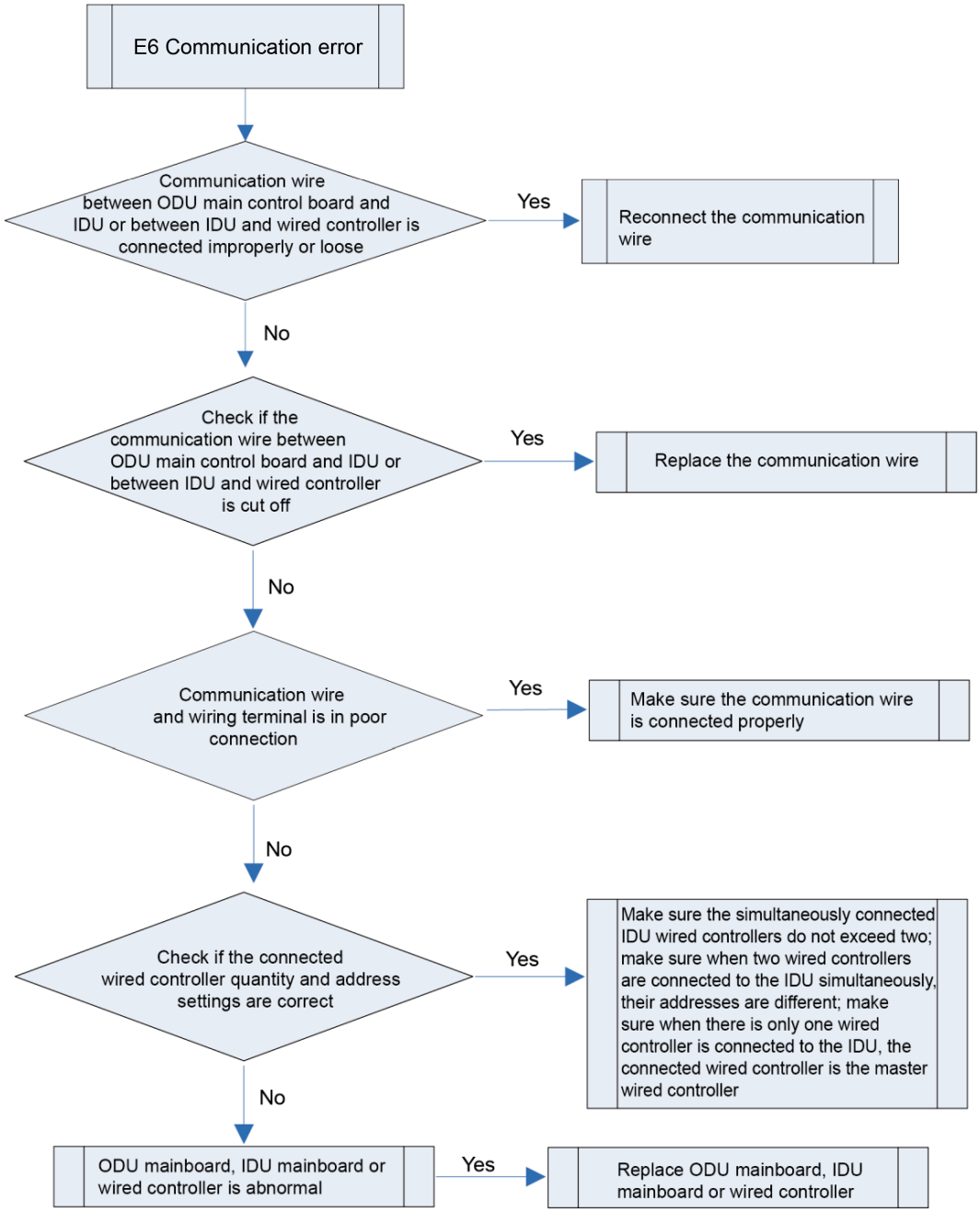
■Communication wire is cut off

■Communication wire is in poor connection

■Connected wired controller quantity or address setting is improper

■Controller is abnormal

Troubleshooting：



3.4.6 “E8” Indoor Fan Error

Error display: IDU wired controllerler and IDU receiver light board will display

Error judgment condition and method:

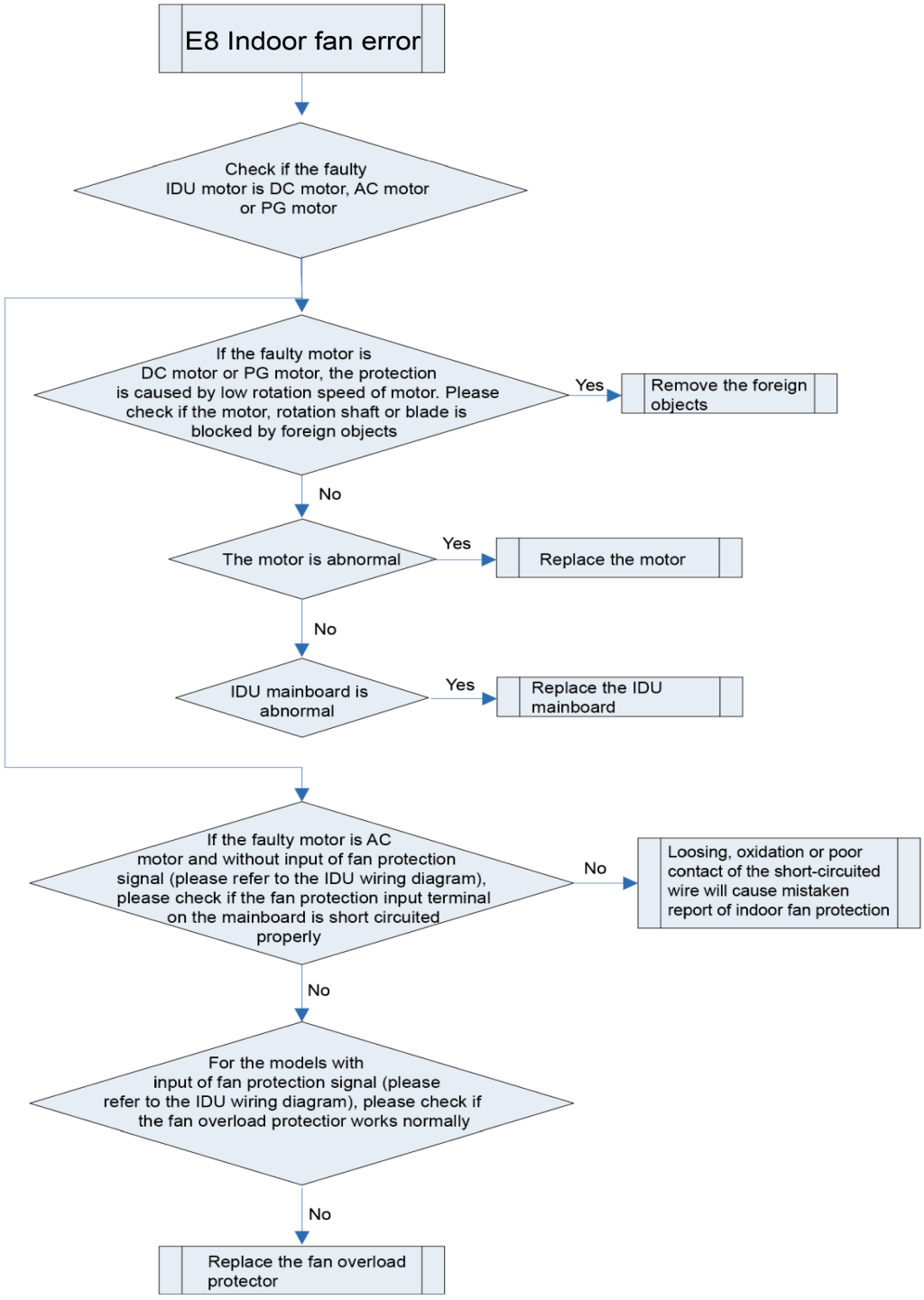
Check if the rotation speed of IDU is too slow, or it stops rotation, or protection signal of outdoor fan is transferred. If yes, it is judged that indoor fan protection occurs

Possible reason:

■Motor stops operation or it is blocked

■IDU mainboard is abnormal;

Troubleshooting :



3.4.7 “E9” Water Overflow Protection

Error display: IDU wired controllerler and IDU receiver light board will display

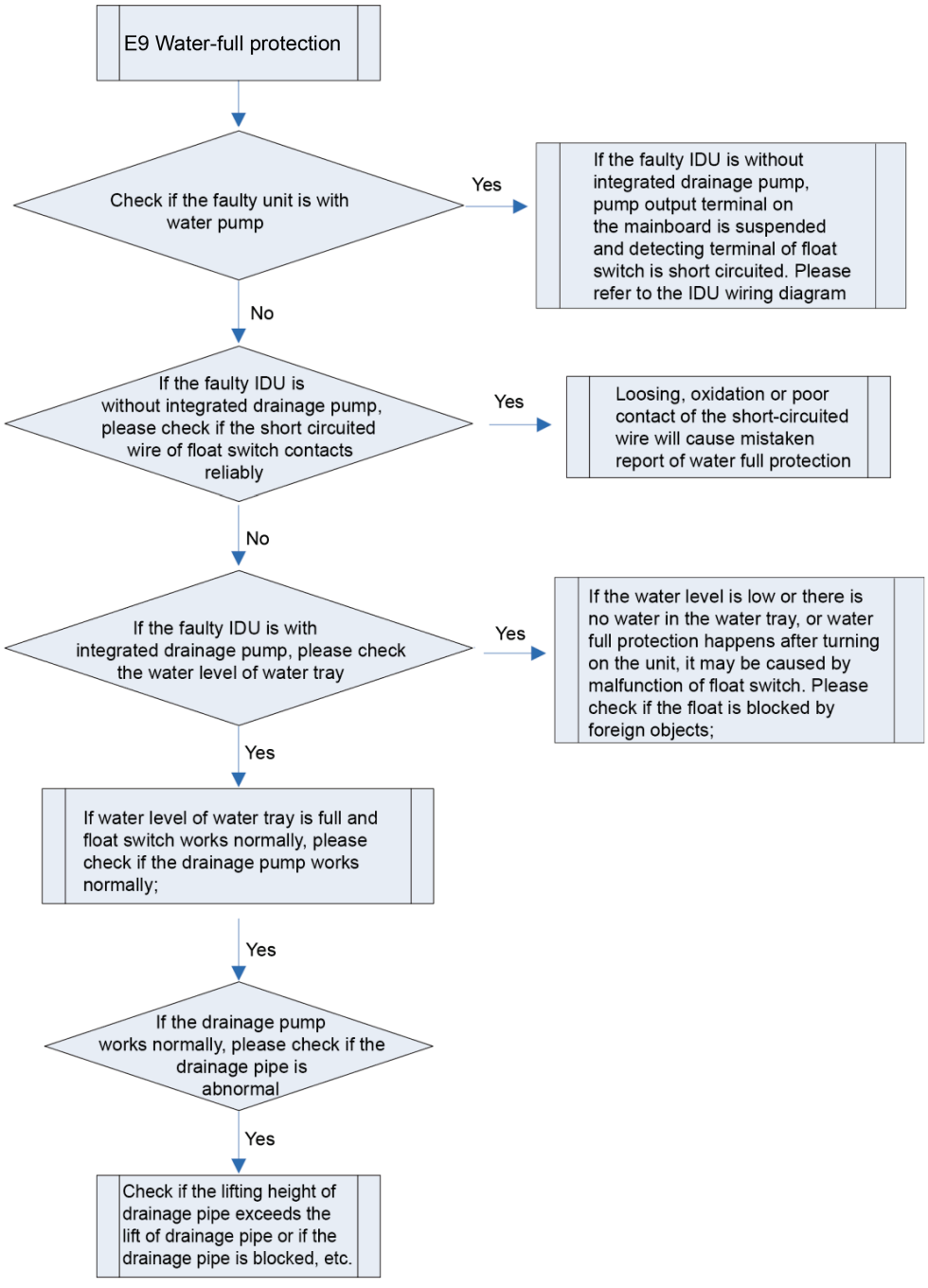
Error judgment condition and method:

Check the status of IDU float switch. When water level is too high, float switch is activated, so water full protection happens.

Possible reason:

■IDU is installed improperly
■Drainage pump is broken
■Float switch operates abnormally
■IDU mainboard is abnormal;

Troubleshooting :



3.4.8 “F0” Indoor Ambient Temperature Sensor Error

Error display: IDU wired controllerler and IDU receiver light board will display

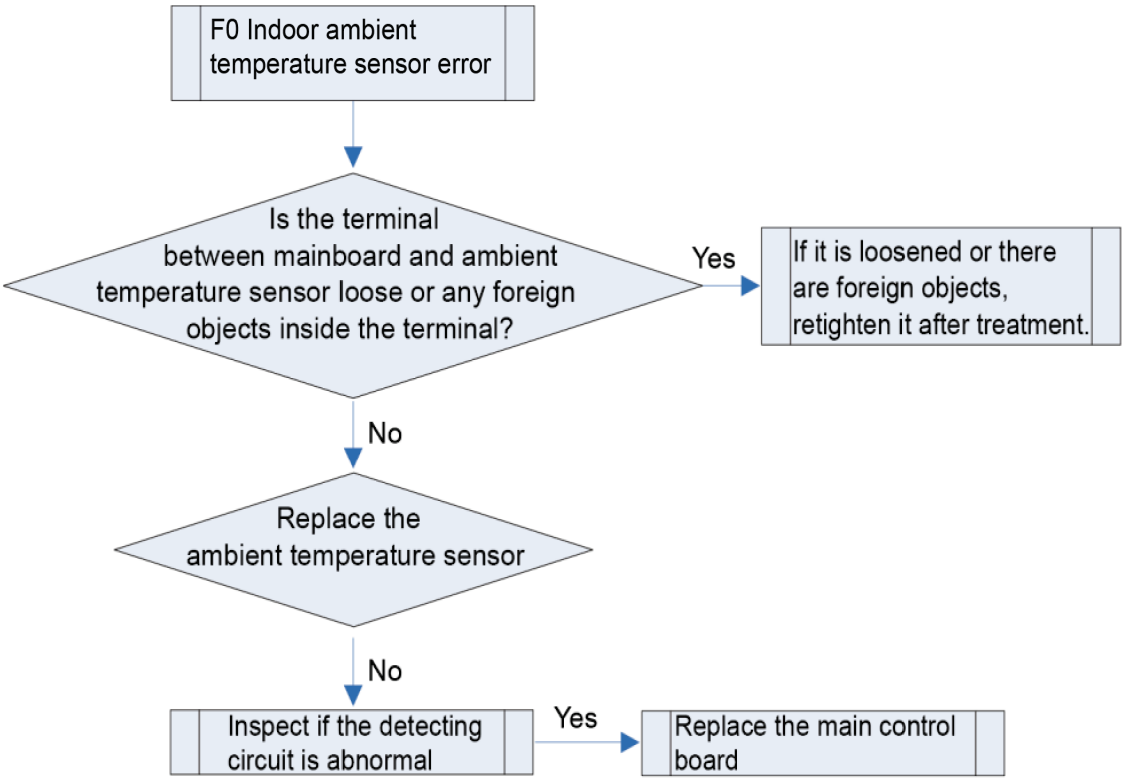
Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

Possible reason:

■Poor contact between ambient temperature sensor and terminal in mainboard interface
■Ambient temperature sensor is abnormal
■Detecting circuit is abnormal

Troubleshooting：



3.4.9 “F1” Evaporator Temperature Sensor Error

Error display: IDU wired controllerler and IDU receiver light board will display

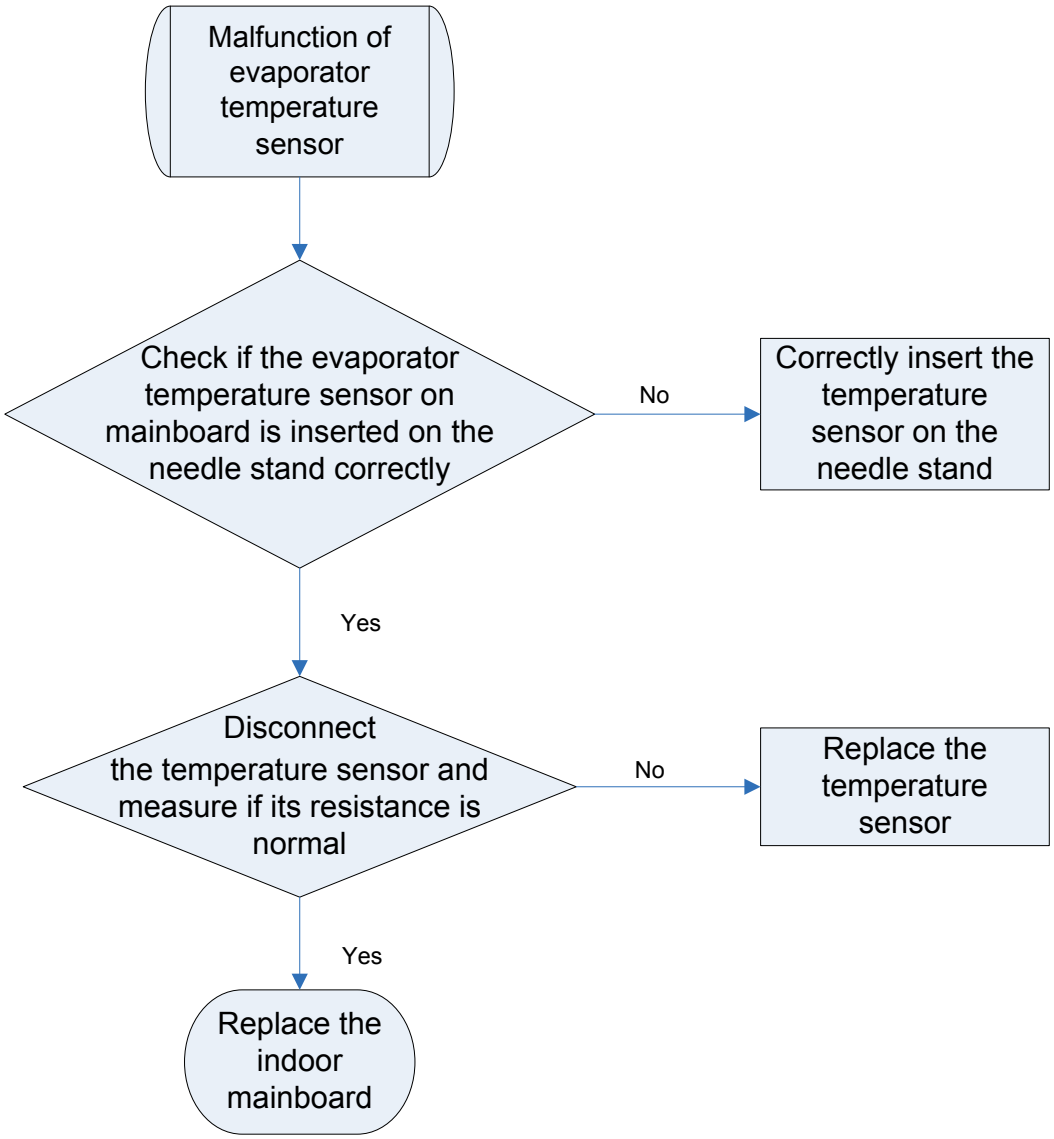
Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

Possible reason:

■Poor contact between temperature sensor and terminal in mainboard interface
■Temperature sensor is abnormal
■Detecting circuit is abnormal

Troubleshooting：



Note: Please refer to Appendix 1 for the relation between temperature and resistance of temperature sensor.

3.4.10 “F2” Condenser Temperature Sensor Error

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display:

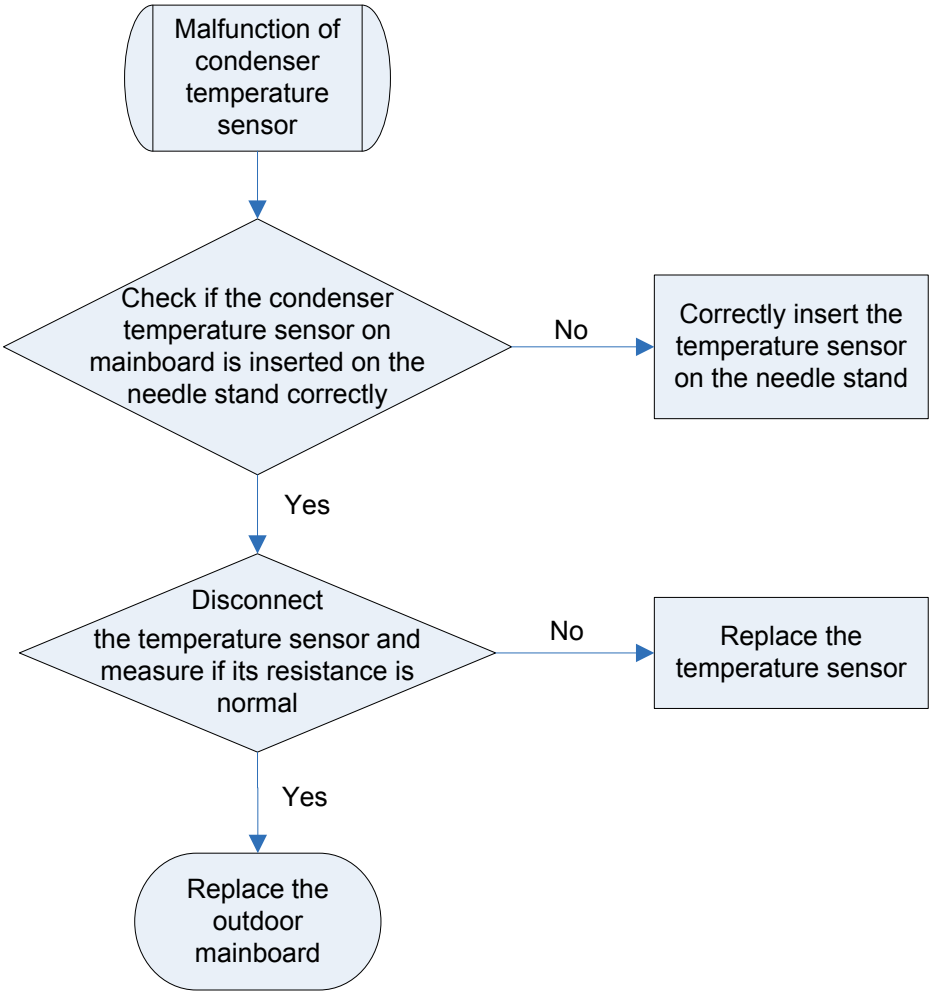
Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

Possible reason:

■Poor contact between temperature sensor and terminal in mainboard interface
■Temperature sensor is abnormal
■Detecting circuit is abnormal

Troubleshooting：



Note: Please refer to Appendix 1 for the relation between temperature and resistance of temperature sensor.

3.4.11 “F3” Outdoor Ambient Temperature Sensor Error

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display:

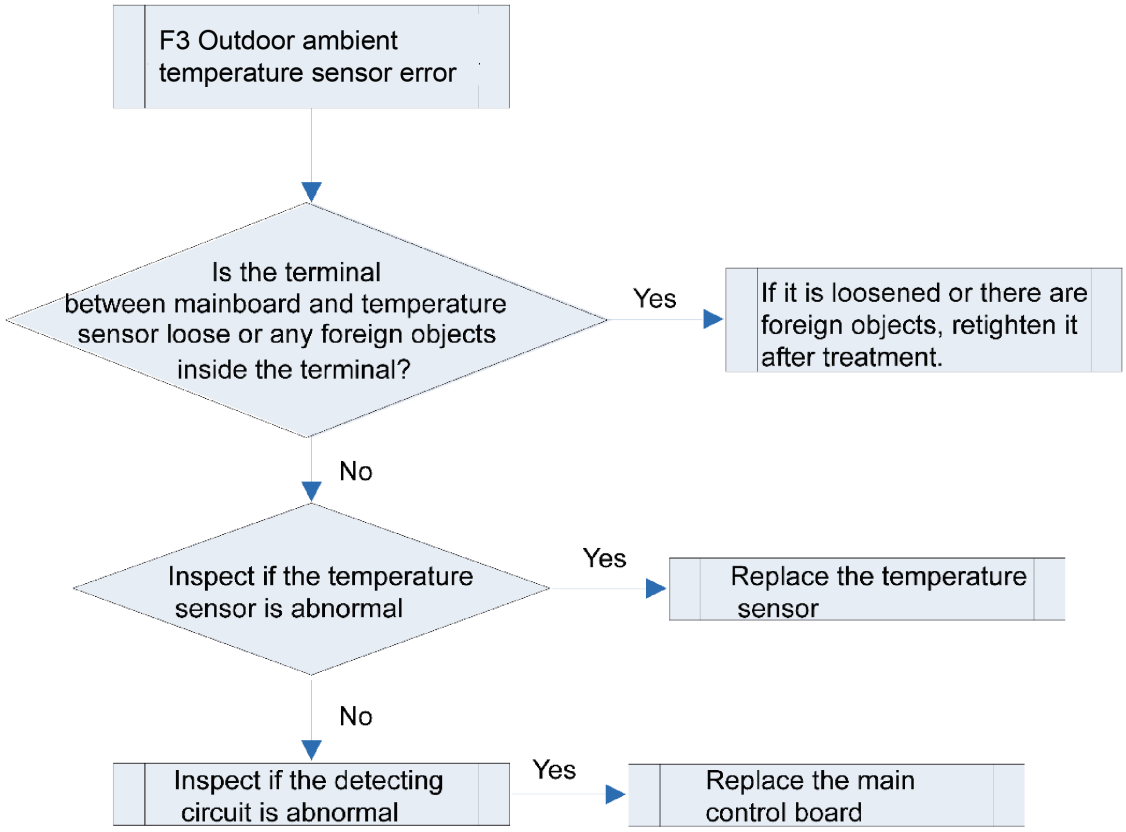
Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

Possible reason:

■Poor contact between ambient temperature sensor and terminal in mainboard interface
■Ambient temperature sensor is abnormal
■Detecting circuit is abnormal

Troubleshooting：



Note: Please refer to Appendix 1 for the relation between temperature and resistance of temperature sensor.

3.4.12 “F4” Discharge Temperature Sensor Error

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

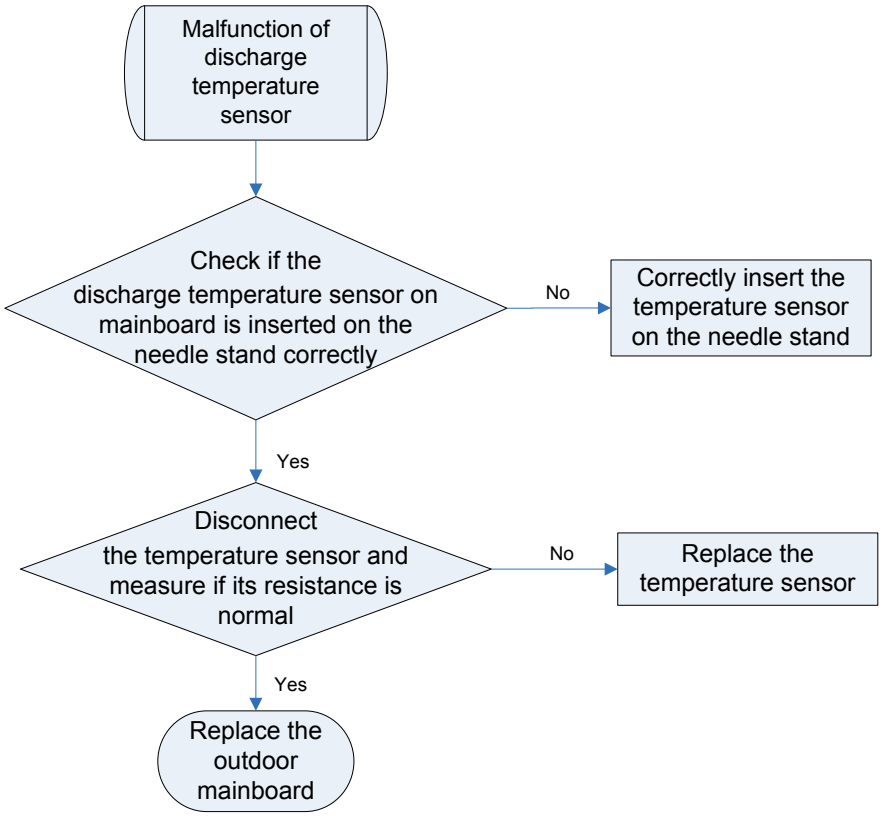
Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

Possible reason:

■Poor contact between temperature sensor and terminal in mainboard interface
■Temperature sensor is abnormal
■Detecting circuit is abnormal

Troubleshooting：



Note: Please refer to Appendix 1 for the relation between temperature and resistance of temperature sensor.

3.4.13 “F5” Wired Controller Temperature Sensor Error

Error display: IDU wired controllerler and IDU receiver light board will display

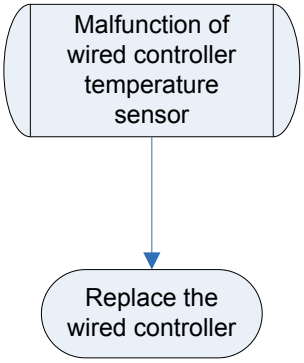
Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

Possible reason:

■Poor contact between temperature sensor and terminal in mainboard interface
■Temperature sensor is abnormal
■Detecting circuit is abnormal

Troubleshooting：



3.4.14 “C5” IDU Jumper Cap Error

Error display: IDU wired controllerler and IDU receiver light board will display

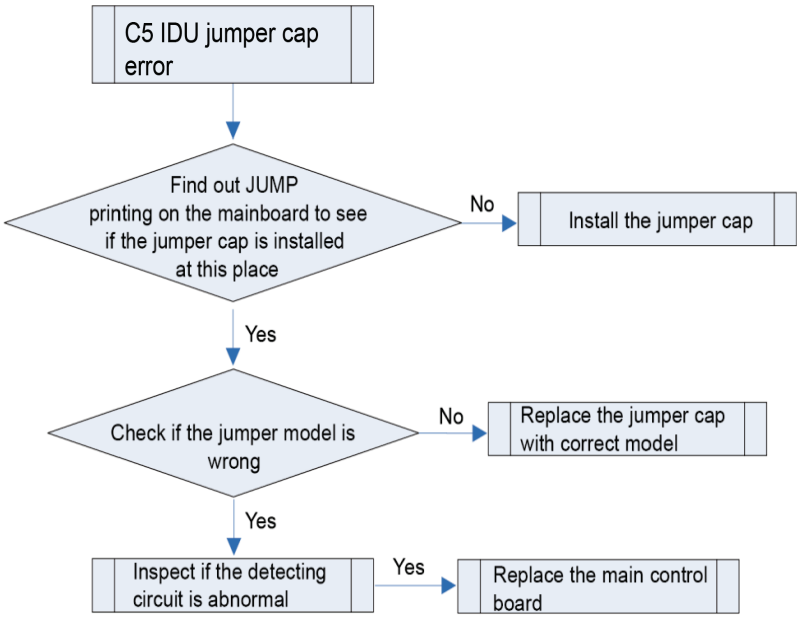
Error judgment condition and method:

If jumper cap model doesn‘t match with mainboard, this error will be reported.

Possible reason:

■Jumper cap is not installed.
■Jumper cap model is wrong.
■Detecting circuit is abnormal.

Troubleshooting:



3.4.15 “EE” ODU Memory Chip Error

Error display: IDU wired controllerler, IDU and ODU receiver light board will display

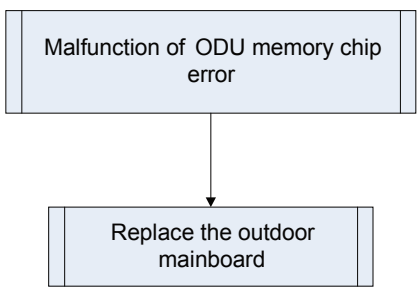
Error judgment condition and method:

If ODU mainboard cannot read the memory chip, this error will be reported.

Possible reason:

■ Memory chip on the ODU mainboard is damaged.
■. Memory chip is weakly welded.
■. Memory chip lead is short-circuited.

Troubleshooting:



3.4.16 “PF” Electric Box Sensor Error

Error display: ODU mainboard, IDU wired controllerler

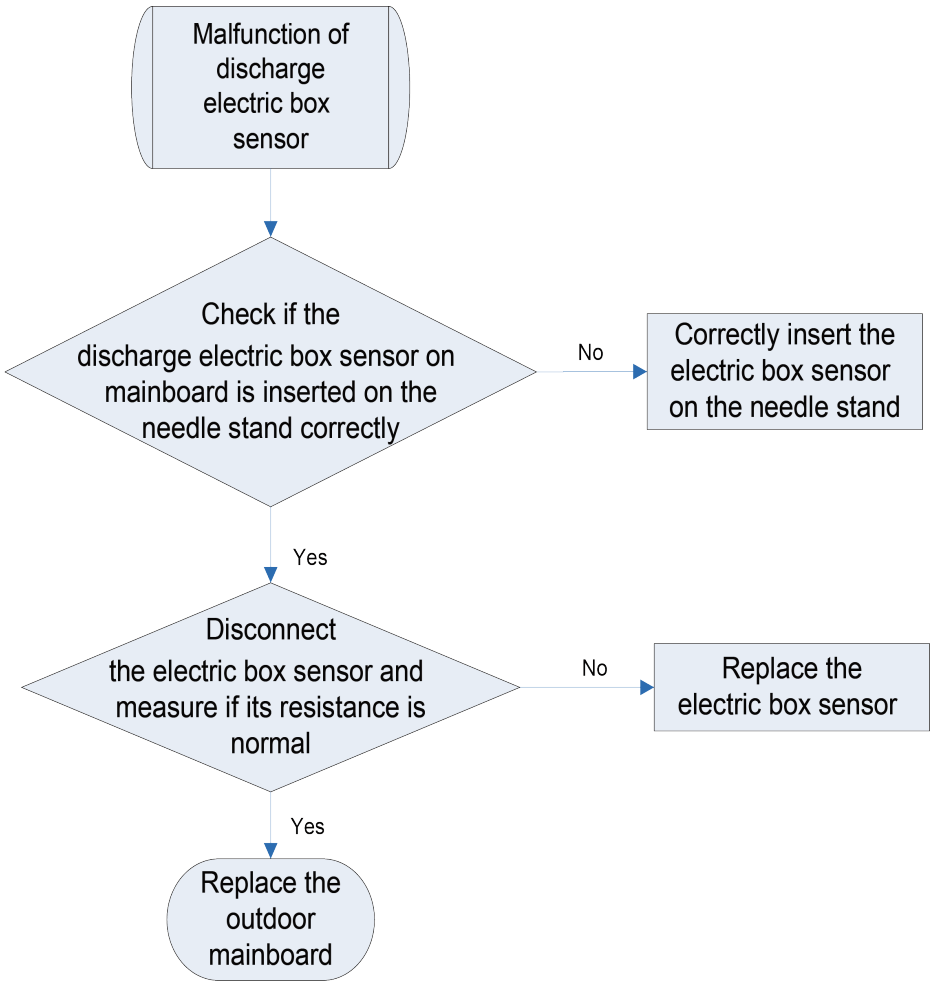
Error judgment condition and method:

Sample the AD value of temperature sensor through temperature sensor detecting circuit and judge the range of AD value, If the sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

Possible reason:

■Poor contact between temperature sensor and terminal in mainboard interface
■Temperature sensor is abnormal
■Detecting circuit is abnormal

Troubleshooting:



Note: Please refer to Appendix 1 for the relation between temperature and resistance of temperature sensor.

3.4.17 “H3” Compressor Overload Protection

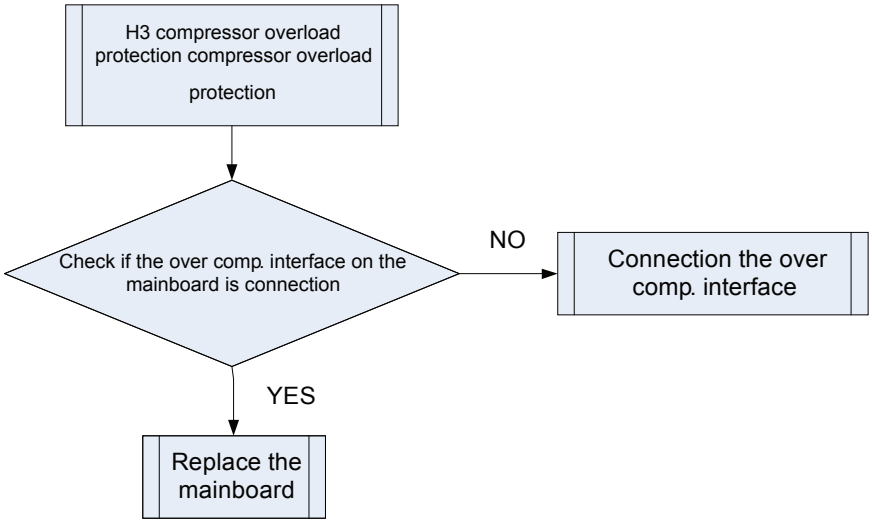
Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

Error judgment condition and method:

When the mainboard’s interface ovc-comp is broken off for 3s, error H3 will be reported.

Possible reason:

■The interface ovc-comp is not short-circuited.
■ODU mainboard is damaged.
Troubleshooting：



3.4.18 “H4” Overload

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

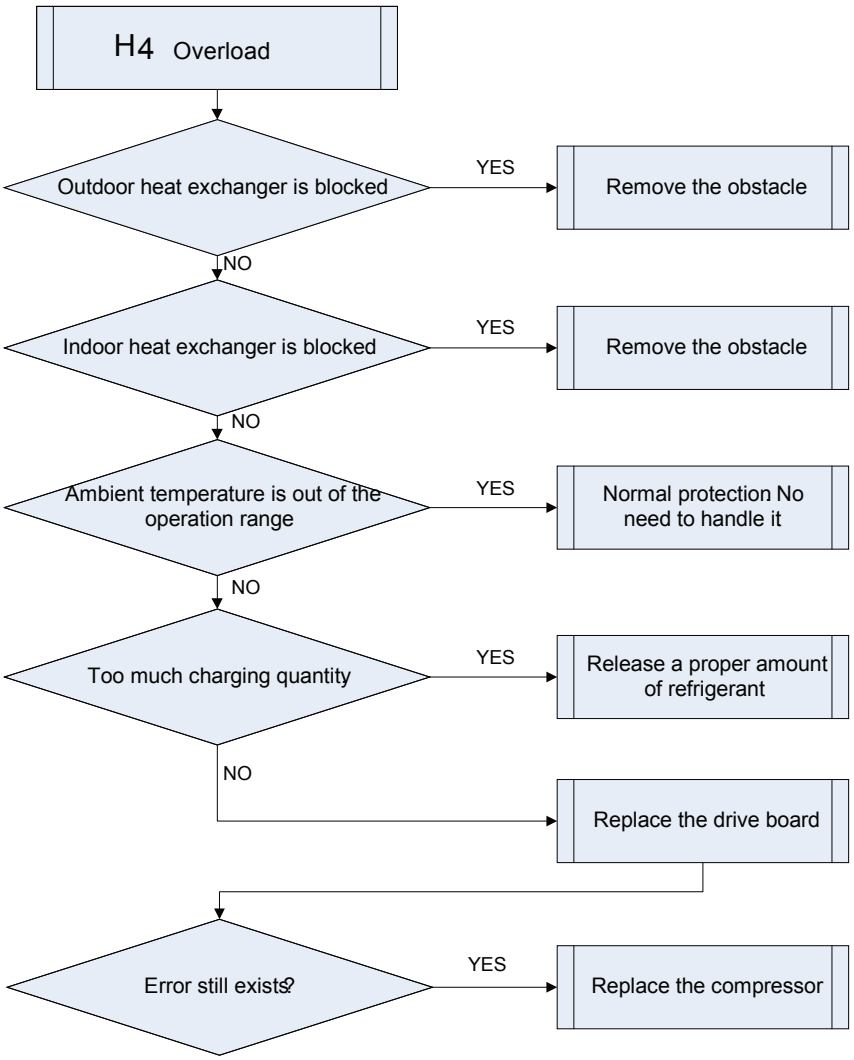
Error judgment condition and method:

When tube temperature is higher than the protection value, system will report overload protection.

Possible reason:

■Cooling ODU heat exchanger is blocked or heat exchange is bad.
■Heating IDU heat exchanger is blocked or heat exchange is bad.
■Operating temperature is too high.
■System charging quantity is too much.

Troubleshooting：



3.4.19 “H5” IPM Protection

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

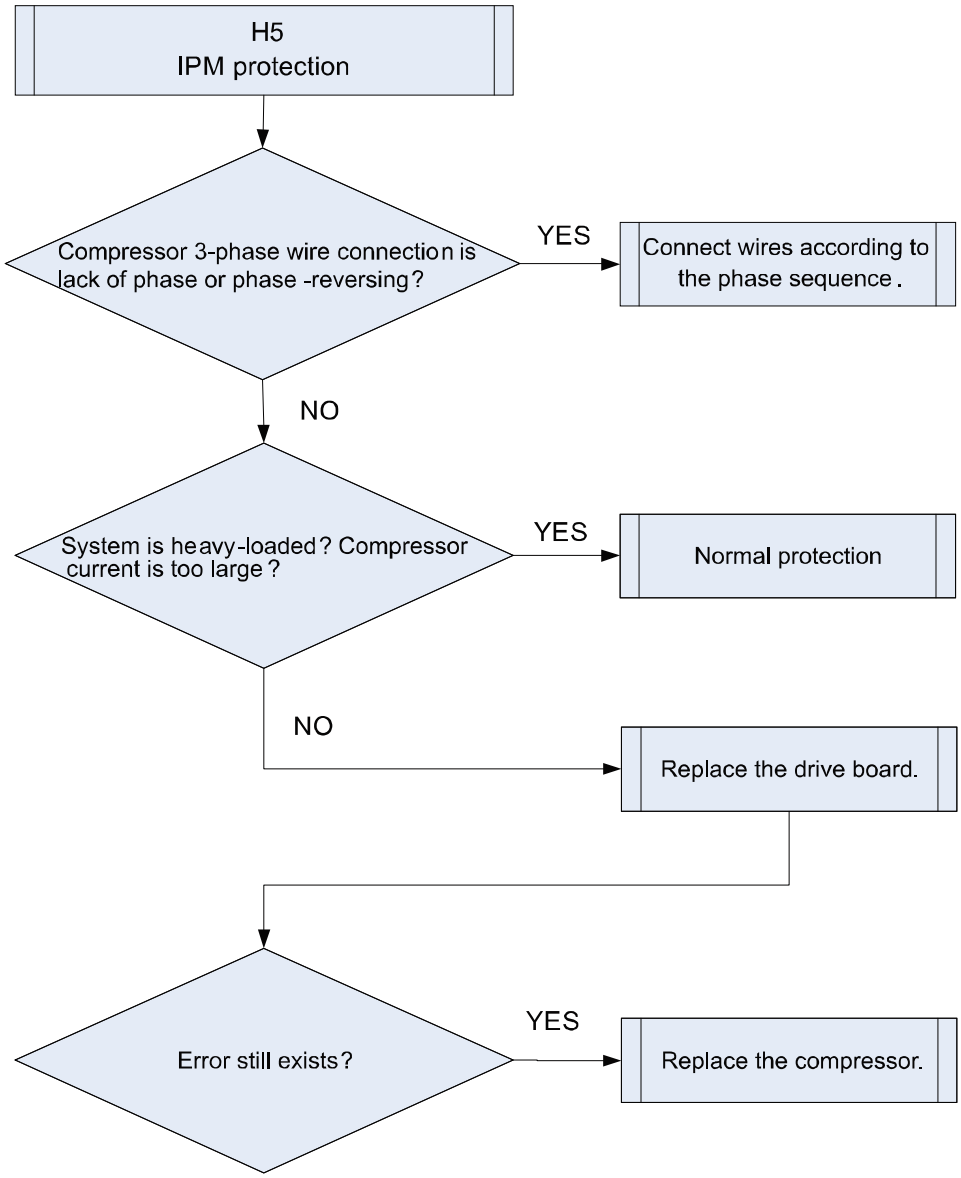
Error judgment condition and method:

When power is connected and drive chip received IPM lead F0 that is of low level, than it is IPM module malfunction. System will shut down for protection.

Possible reason:

■Compressor 3-phase wire connection is lack of phase or phase-reversed.
■System is overloaded and compressor current is too large.
■Drive board IPM module is damaged.
■Drive board IPM module’s 15V power supply is lower than 13.5V.
■Drive board 6-line PWM signal and the corresponding element are abnormal.
■Drive board compressor current sampling circuit element is damaged or drive chip current sampling AD terminal is abnormal.
■Compressor is damaged.

Troubleshooting：



3.4.20 “H6” DC Fan Error

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

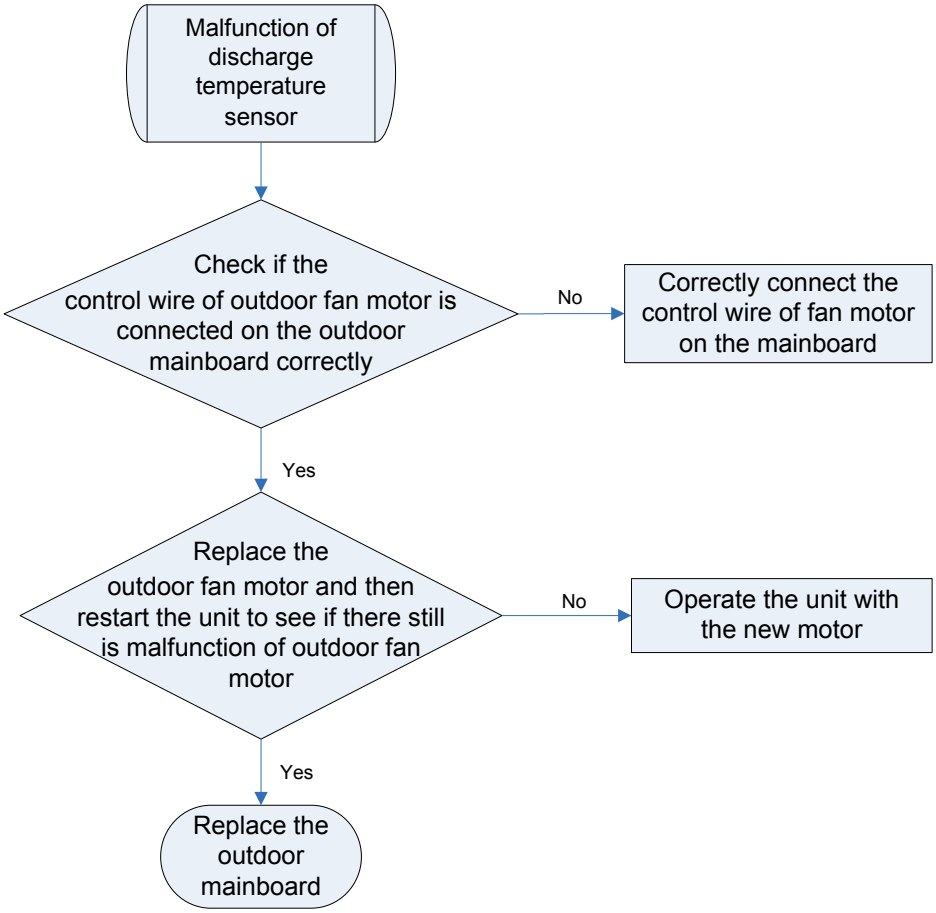
Error judgment condition and method:

Mainboard doesn’t receive the signal of outdoor fan within 30s after the outdoor fan starts up.

Possible reason:

■Outdoor fan wiring terminal is not correctly connected to the mainboard.
■Outdoor fan is damaged.
■If it is a new unit or a new motor has been replaced in the unit and the wire connection is correct, then probably it is the program that goes wrong.

Troubleshooting：



3.4.21 "H7" Driver Out-of-Step Protection

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

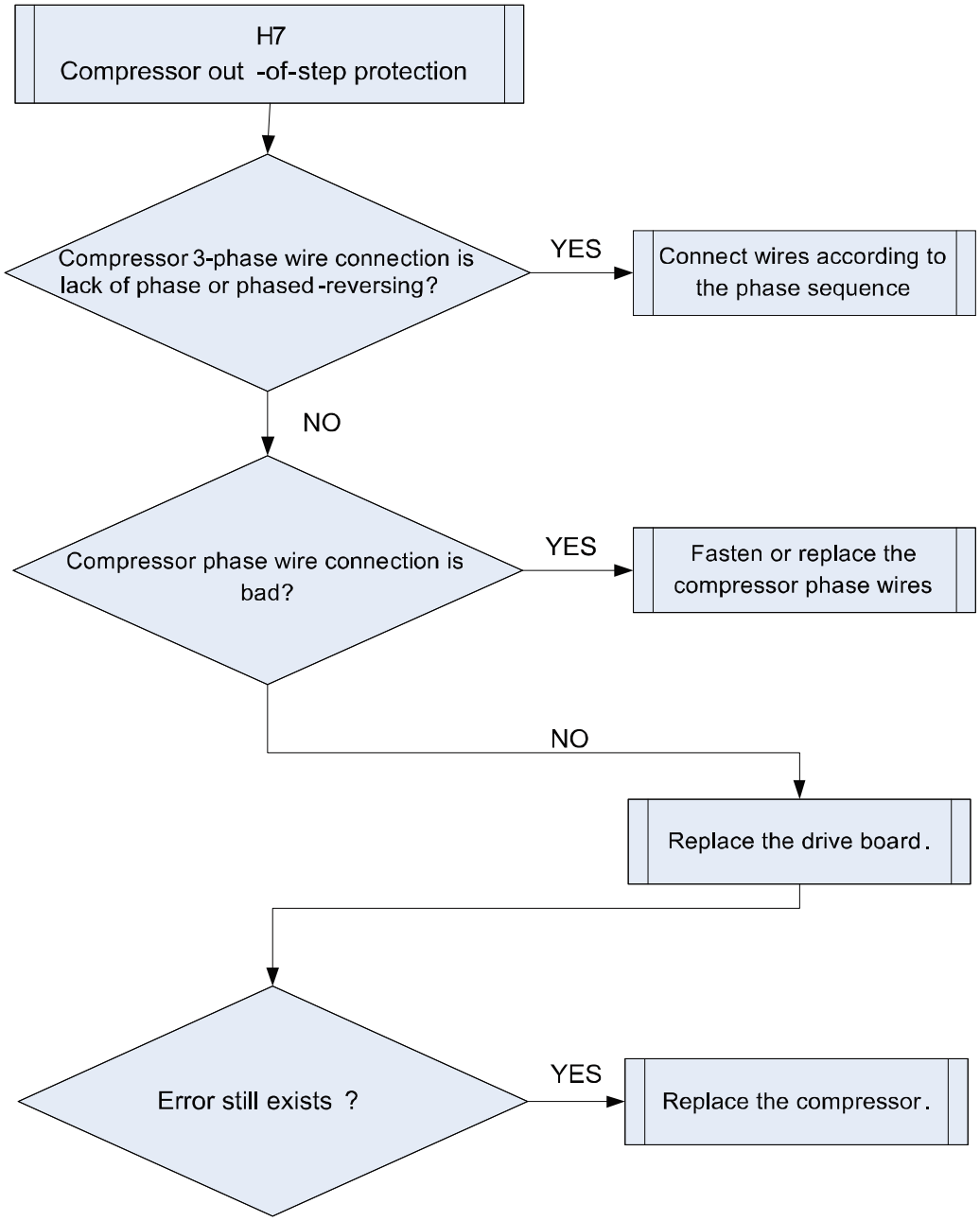
Error judgment condition and method:

During operation, it can't detect the rotor position and stops output. Or the actual running speed differs too much from the set running speed. In each case, compressor runs out of step and system stops for protection.

Possible reason:

■Compressor 3-phase wire connection is lack of phase or phased-reversed.
■Compressor phase wire connection is bad.
■System is blocked, short of refrigerant or compressor oil.
■Drive board IPM module is damaged.
■Drive board compressor current sampling circuit element is damaged or drive chip current sampling AD terminal is abnormal.
■Compressor is damaged.

Troubleshooting：



3.4.22 “HC” PFC Protection

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

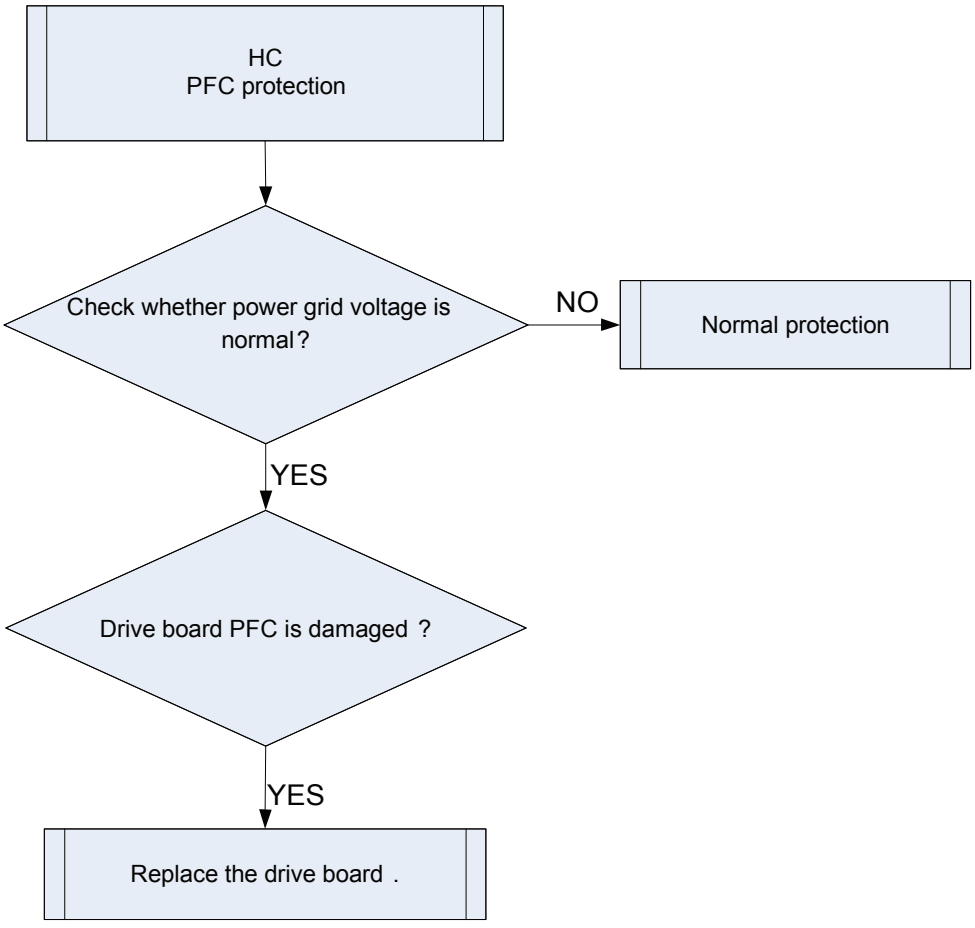
Error judgment condition and method:

After power is connected, and drive chip received IPM lead F0 that is of low level, than it is IPM module malfunction. System will shut down for protection.

Possible reason:

■Power grid voltage is abnormal.
■Drive board PFC module is damaged.
■Drive board IPM module’s 15V power supply is lower than 13.5V.
■Drive board PWM signal for PFC and the corresponding element are abnormal.
■Drive board PFC current sampling circuit element is damaged or drive chip current sampling AD terminal is abnormal.

Troubleshooting：



3.4.23 “Lc” Startup Failure

Error display: ODU mainboard, IDU wired controllerler and IDU receive light board will display

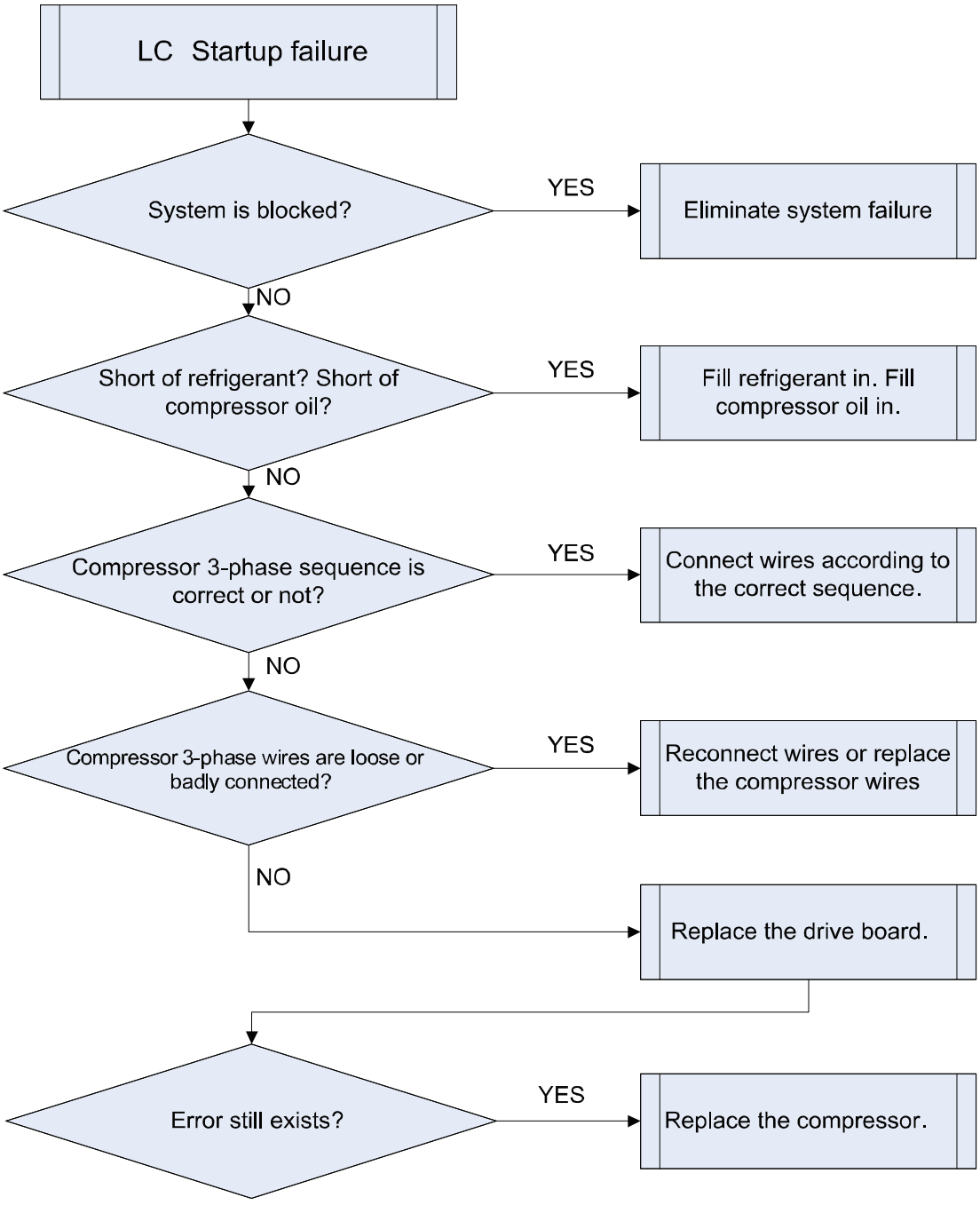
Error judgment condition and method:

Check the error code on nixie tube of ODU main control board. If PJ is displayed, it indicates inverter compressor startup failure

Possible reason:

■Poor contact of compressor UVW wire;
■Compressor is broken;
■Compressor drive board is broken;

Troubleshooting：



3.4.24 “Lp” IDU and ODU Unmatched

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

Error judgment condition and method:

Possible reason:

■Models of indoor unit and outdoor unit do not match with each other

Troubleshooting：

Turn off the unit and replace with a matched indoor or outdoor unit.

3.4.25 “U7” 4–Way Valve Switch-Over Error

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

Error judgment condition and method:

Possible reason:

■Voltage is abnormal. For example, low voltage will cause abnormal direction change of the 4-way valve.

■Pilot valve holder hole or the capillary tube is blocked, which has caused small flow or no flow.

■Capillary tube is blocked when connecting to the pilot valve or main valve.

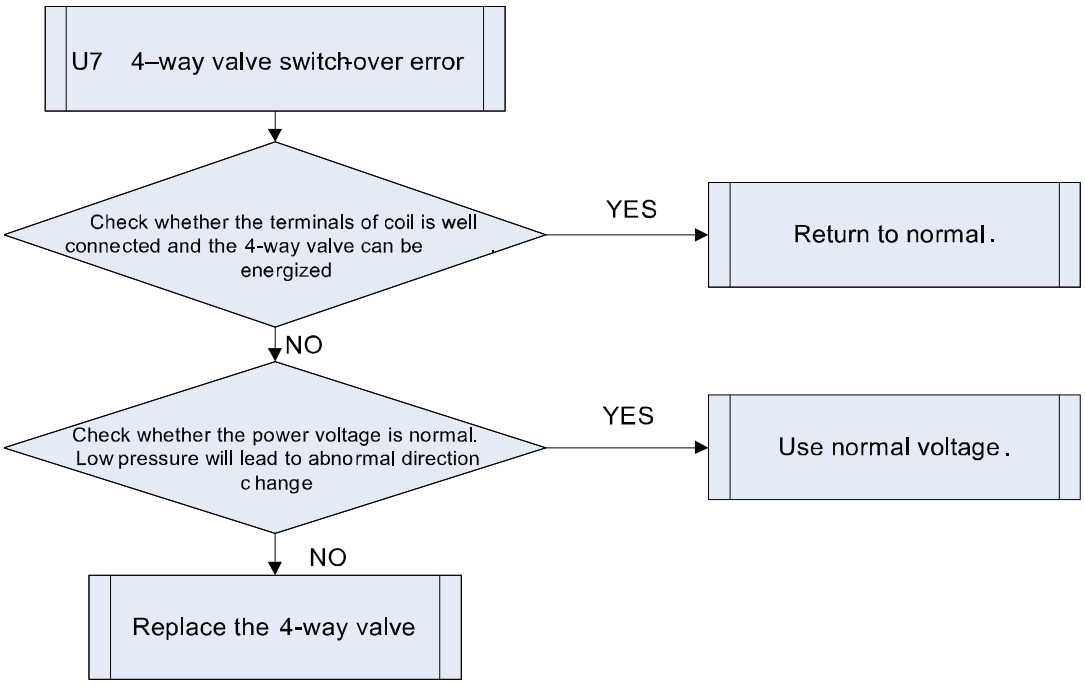
■Coil is not power-connected, or is open-circuited. Voltage is low, or the contact between turns or terminals is bad.

■The stainless steel cover of pilot valve is damaged, or the steel core is stuck, or the spring is not elastic.

■Insert block is bent or not elastic, so the little slide cannot get in place.

■When adding refrigerant, the little slide is over-running and can’t spring back.

Troubleshooting：



3.4.26 “P0” Driver Reset Protection

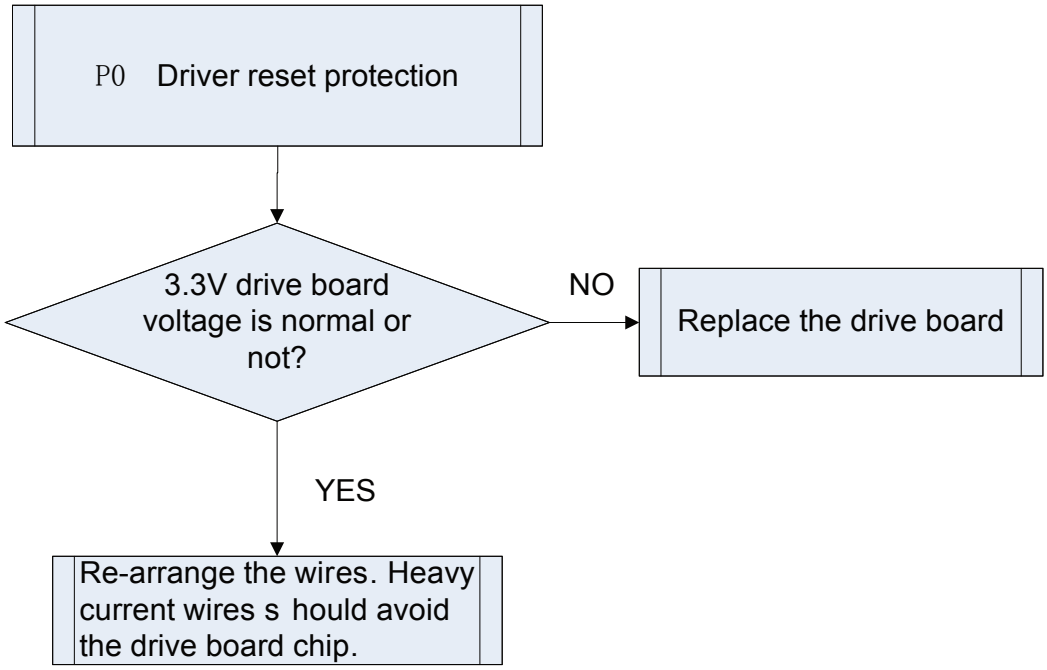
Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

Error judgment condition and method:

Drive board chip resets and starts initialization. After the drive board is energized for 5s, it detects that the chip resets again. In this case, it can be judged as drive chip reset protection.

Possible reason:

■3.3V drive chip supply voltage drop.
■TRST lead of JTAG programming is interrupted.
Troubleshooting：



3.4.27 “P5” Over-Current Protection

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

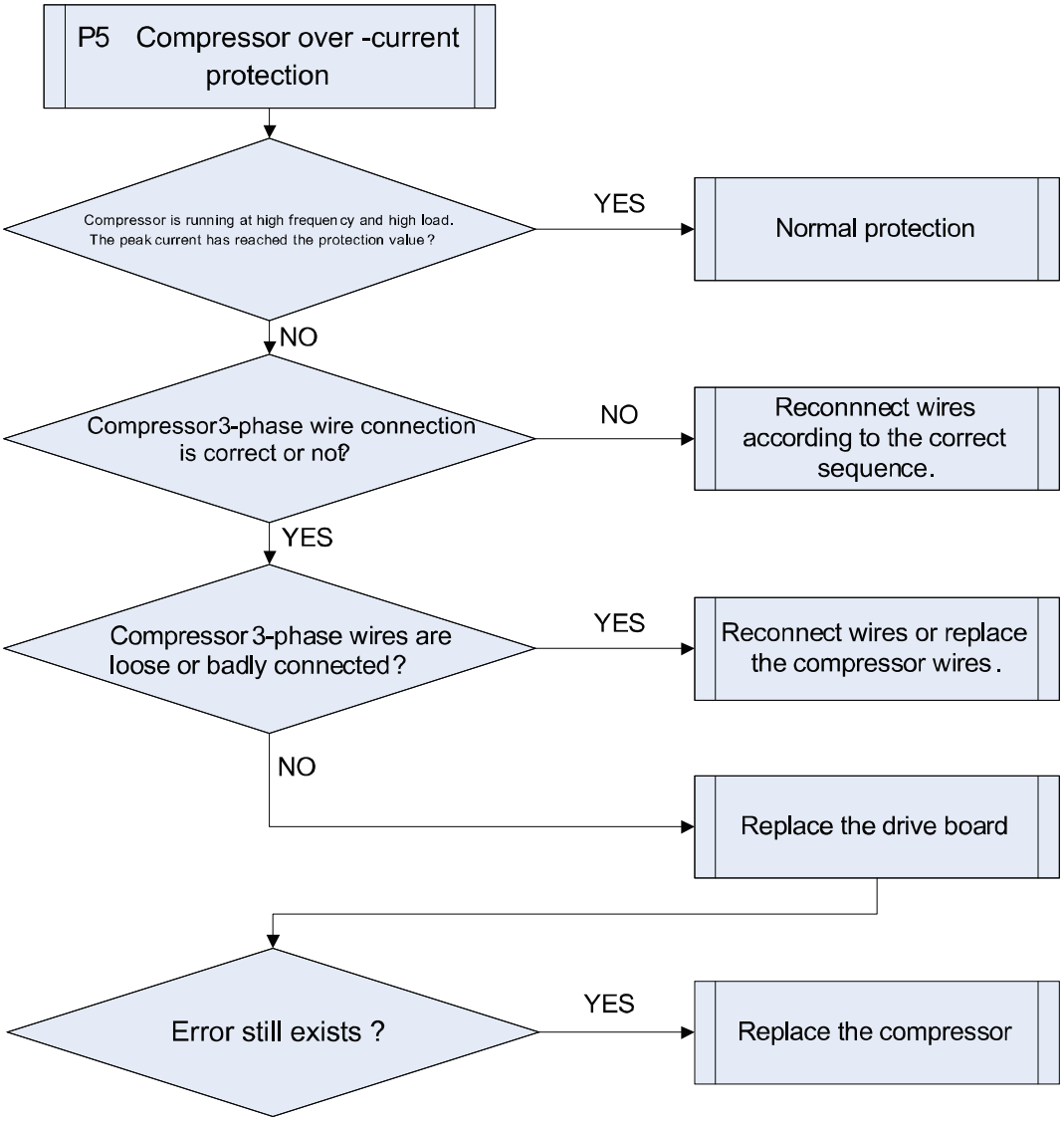
Error judgment condition and method:

If compressor’s instant current value is higher than the set current protection value, then it can be judged that compressor over-current occurs and system will shut down for protection.

Possible reason:

■System load is too much and compressor current is too large.
■Compressor 3-phase wire connection is lack of phase or phase-reversed.
■Compressor phase wire is loose or has bad contact.
■Drive board current sampling circuit element is damaged or drive chip current sampling AD terminal is abnormal.
■Compressor is damaged.

Troubleshooting：



3.4.28 “P6” Master Control and Driver Communication Error

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

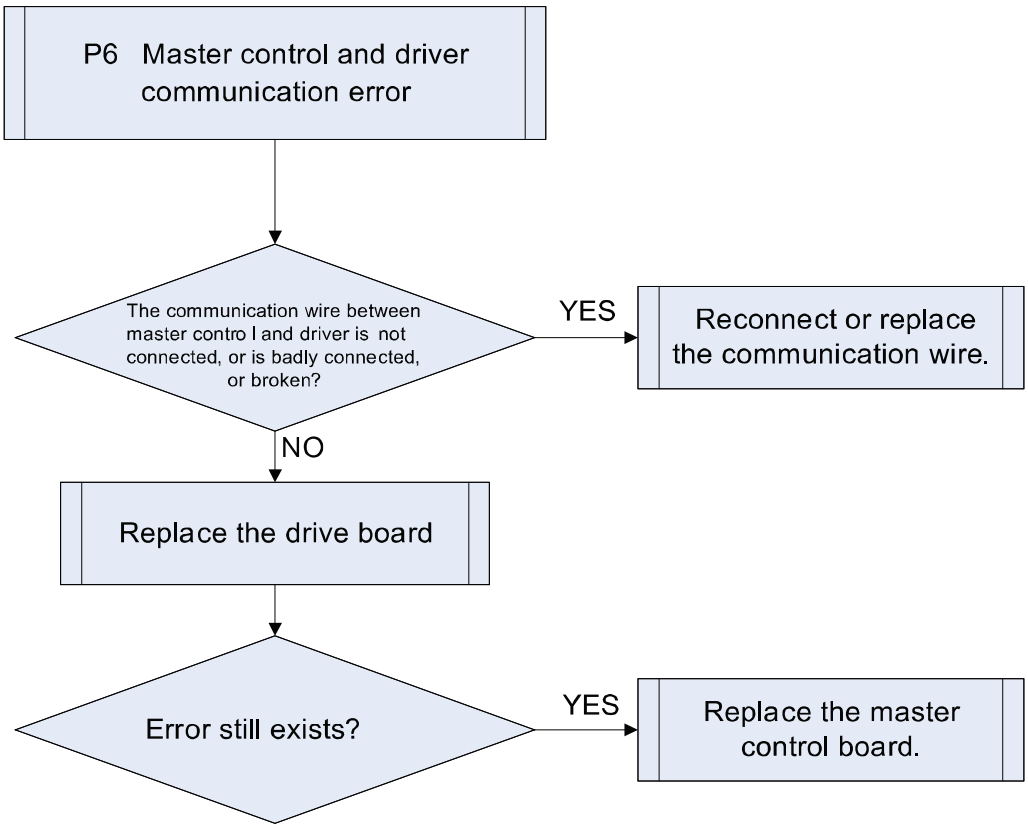
Error judgment condition and method:

If there is no other malfunction and the communication between master control and driver is cut off for 30s, then it can be judged that the communication between master control and driver is faulted. System will shut down for protection.

Possible reason:

■Communication wire between master control and driver is not well connected, or has bad contact, or is broken.
■The switch power of drive board is abnormal, therefore, the 3.3V power voltage is abnormal.
■Communication circuit of the drive board or the master control board is abnormal.

Troubleshooting：



3.4.29 “P7” Driver Module Sensor Error

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

Error judgment condition and method:

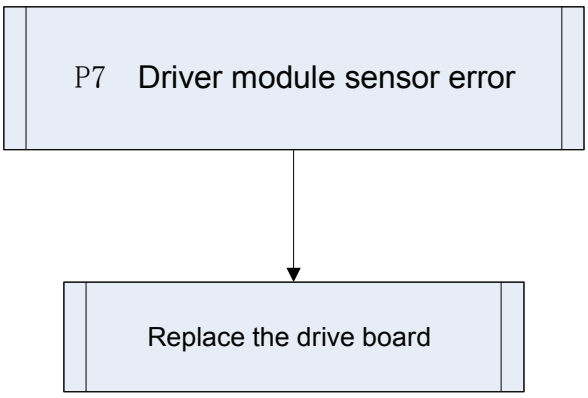
If IPM or PFC module temperature is lower than the set protection value, then it can be judged that driver module sensor error occurs and system will shut down for protection.

Possible reason:

■Module temperature sensor is short-circuited or broken-circuited.

■Drive board current sampling circuit element is damaged or drive chip current sampling AD terminal is abnormal.

Troubleshooting：



3.4.30 “P8” Driver Module High Temperature Protection

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

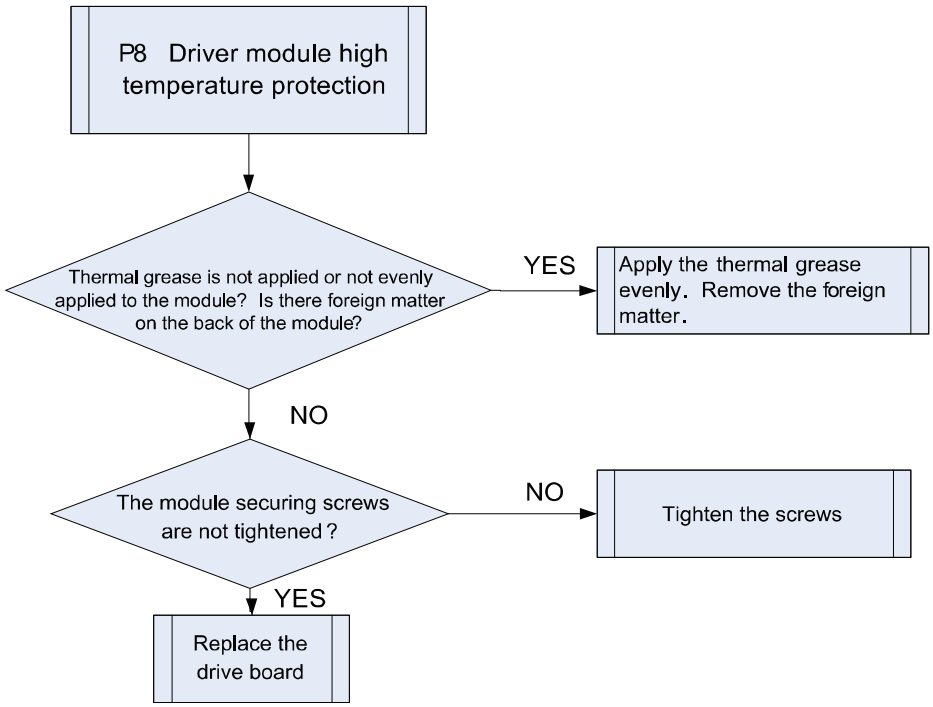
Error judgment condition and method:

If IPM module temperature or PFC module temperature exceeds the set protection value, then it can be judged that driver module temperature is too high and system will shut down for protection.

Possible reason:

■Thermal grease is not applied or not evenly applied to the module, or there is other substance on the back of the module.
■The module securing screws are not tightened up.
■Drive board temperature sampling circuit element is damaged or drive chip temperature sampling AD terminal is abnormal.

Troubleshooting：



3.4.31 “PA” AC Current Protection

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

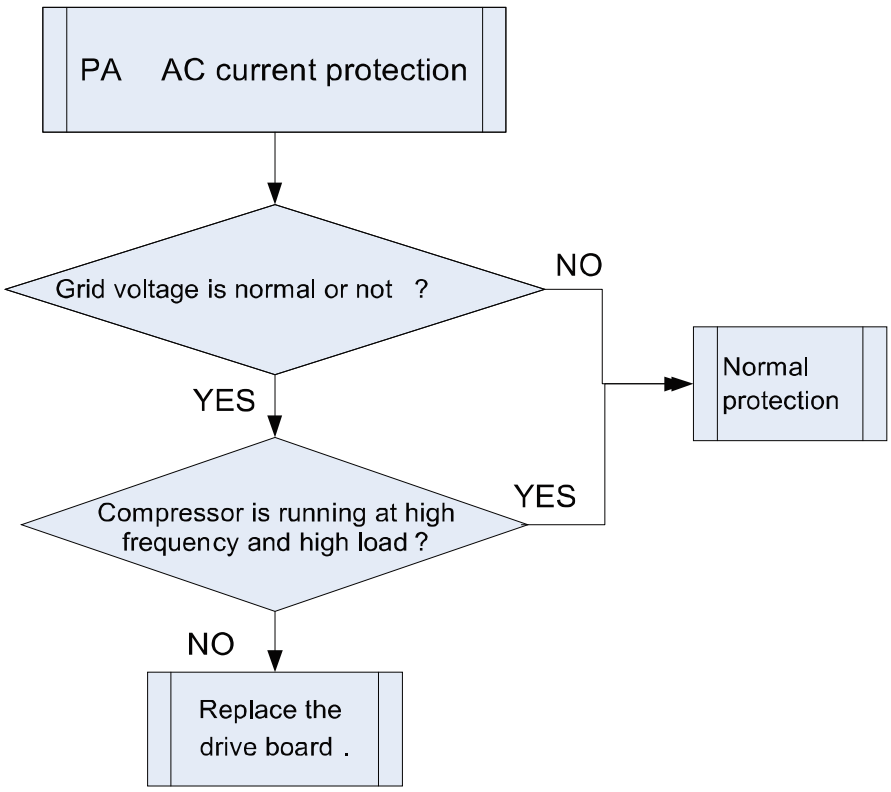
Error judgment condition and method:

If input current value exceeds the set protection value, then it can be judged that AC current protection occurs and system will shut down for protection.

Possible reason:

■System is heavy-loaded and compressor current is too large.
■Grid voltage is abnormal.
■PFC module is damaged.
■Drive board PFC current sampling circuit element is damaged or drive chip PFC current sampling AD terminal is abnormal.

Troubleshooting：



3.4.32 “Pc” Driver Current Error

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

Error judgment condition and method:

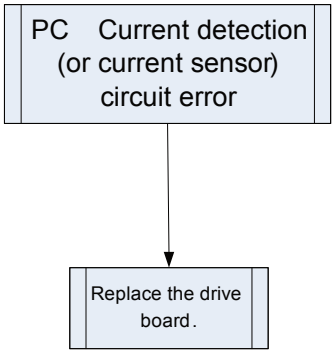
After power charging, if offset voltage average is detected to exceed 12.5% of 1.65V in 1s, then it can be judged that current detection (or current sensor) circuit is faulted. System will shut down for protection.

Possible reason:

■Current detection (or current sensor) sampling circuit element is abnormal.

■Drive chip compressor current sampling AD terminal is badly welded or short-circuited.

Troubleshooting：



3.4.33 “Pd” Sensor Connection Protection

Error display: ODU mainboard, IDU wired controllerler and IDU receive light board will display

Error judgment condition and method:

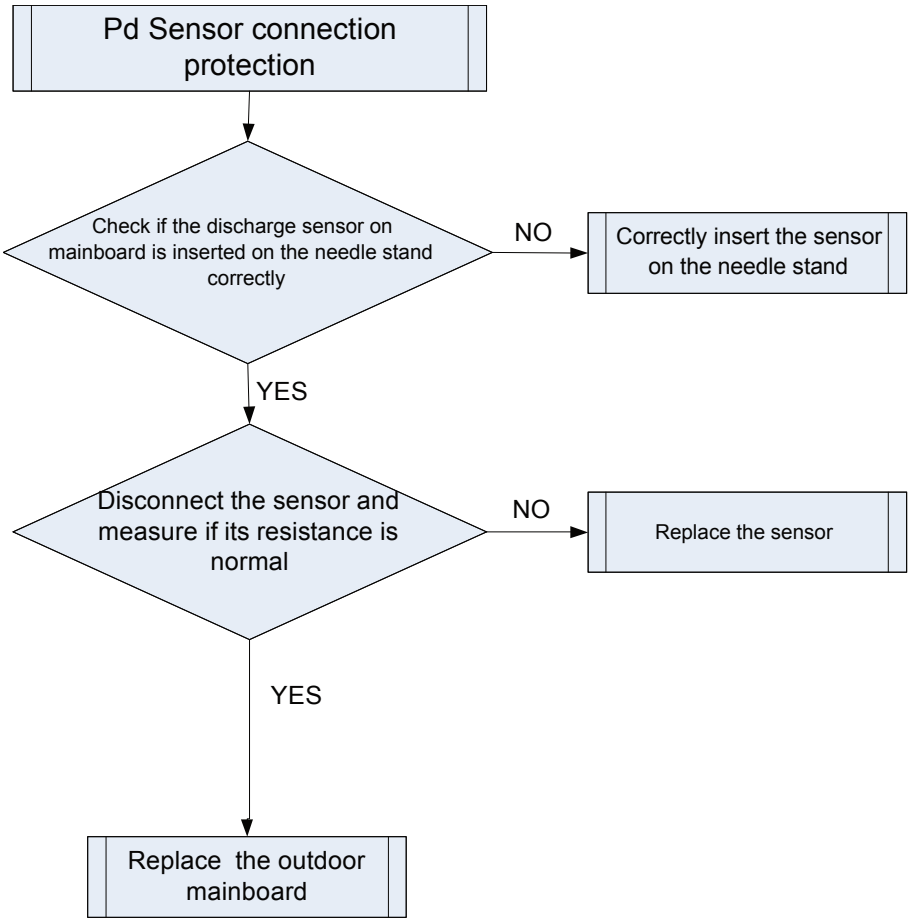
Sample the AD value of sensor through sensor detecting circuit and judge the range of AD value, If the

sampling AD value exceeds upper limit and lower limit in 5 seconds continuously, report the error.

Possible reason:

■Poor contact between sensor and terminal in mainboard interface
■sensor is abnormal
■Detecting circuit is abnormal

Troubleshooting：



3.4.34 “PL” Bus Low-Voltage Protection

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

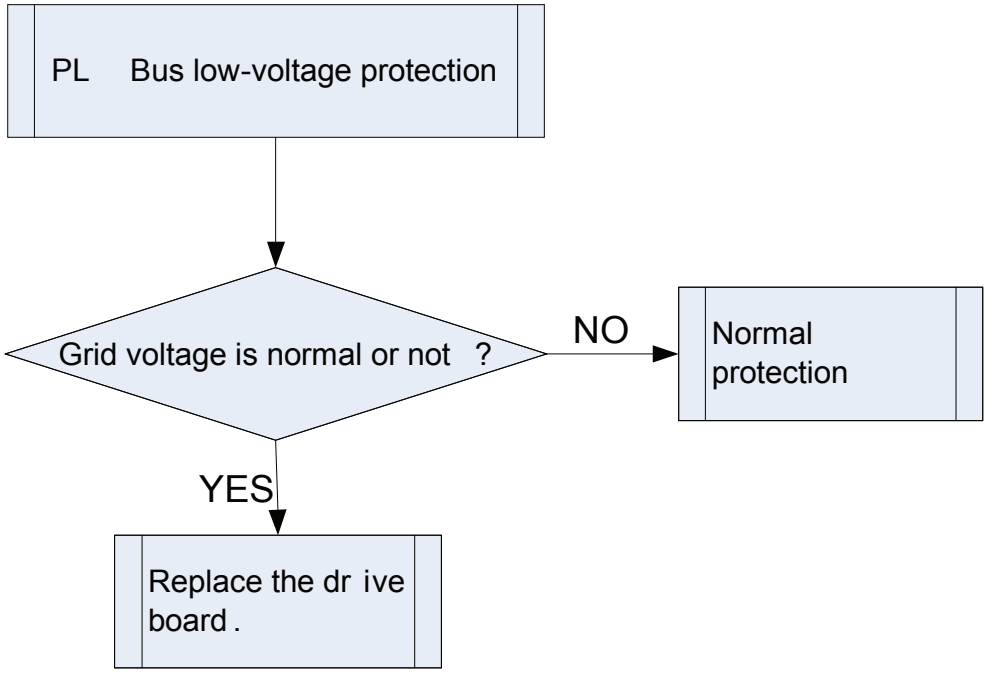
Error judgment condition and method:

When compressor is running and there is no other malfunction, if busbar voltage is lower than the set value for low voltage protection, then it can be judged that bus low-voltage protection occurs. System will shut down for protection.

Possible reason:

■Voltage of power grid is abnormal.
■Drive board busbar voltage sampling circuit element is damaged or drive board busbar voltage sampling AD terminal is abnormal.

Troubleshooting：



3.4.35 “PH” Bus High-Voltage Protection

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

Error judgment condition and method:

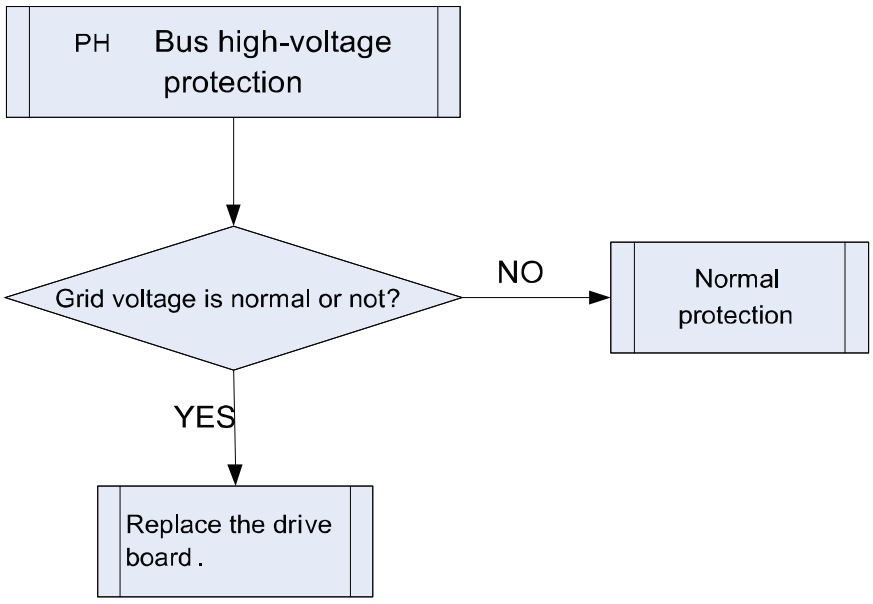
If there is no other malfunction and the busbar voltage is higher than the set value for high voltage protection, then it can be judged that bus high-voltage protection occurs. System will shut down for protection.

Possible reason:

■Voltage of power grid is abnormal.

■Drive board busbar voltage sampling circuit element is damaged or drive board busbar voltage sampling AD terminal is abnormal.

Troubleshooting :



3.4.36 “PU” Charge Loop Error

Error display: ODU mainboard, IDU wired controllerler and IDU receiver light board will display

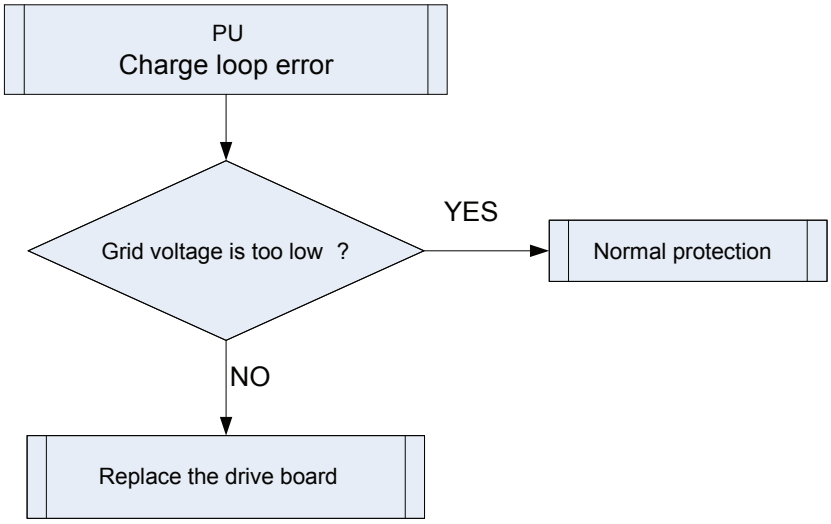
Error judgment condition and method:

When the charge loop starts to get charged and the busbar voltage cannot reach the set value in a certain period of time, then it can be judged that charge loop error exists. System will shut down for protection.

Possible reason:

■Voltage of power grid is abnormal. Voltage is too low.
■Drive board charge loop element is abnormal.
■Drive board busbar voltage sampling circuit element is damaged or drive chip busbar voltage sampling AD terminal is abnormal.

Troubleshooting：



3.4.37 “ee” Drive Memory Chip Error

Error display: ODU mainboard, IDU wired controller and IDU receiver light board will display

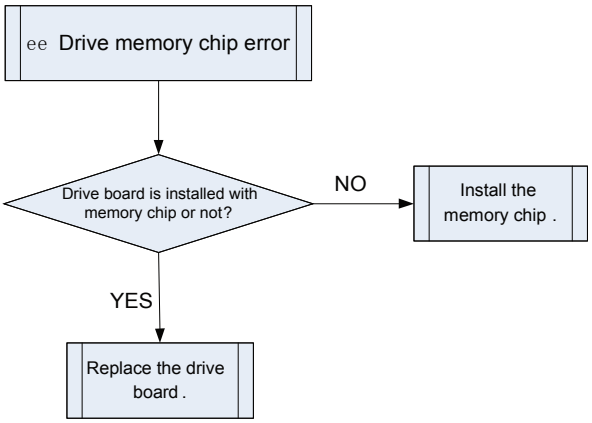
Error judgment condition and method:

If power is connected but the drive board with memory chip cannot detect the memory chip or read the memory chip data correctly, then it can be judged that drive memory chip error exists.

Possible reason:

■The drive board that needs memory chip is not installed with the memory chip.
■The lead or connector of memory chip is badly welded or short-circuited.

Troubleshooting：



3.4.38 “c4” ODU Jumper Cap Error

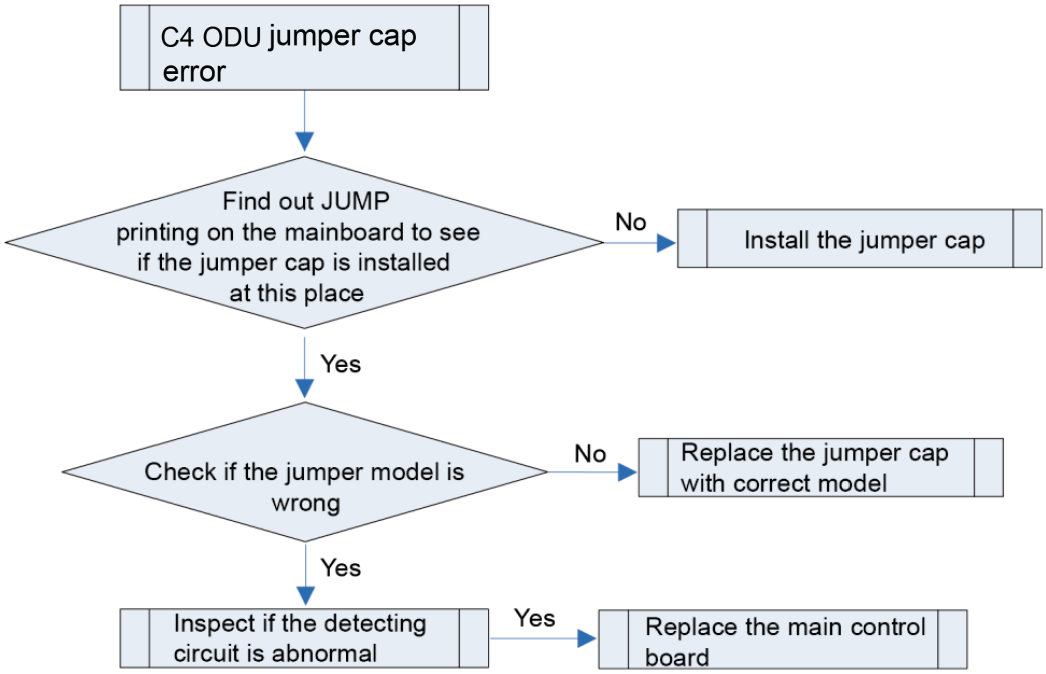
Error display: ODU mainboard, IDU wired controller and IDU receiver light board will display

Error judgment condition and method:

If jumper cap model doesn‘t match with mainboard, report the error

Possible reason:

■Jumper cap is not installed
■Jumper cap model is wrong
■Detecting circuit is abnormal
Troubleshooting：



3.4.39 “EL” Emergency Stop (Fire Alarm)

If fire alarm terminal is enabled after the IDU mainboard connects to function expansion panel, error EL will be reported.

3.5 Failures Not Caused by Errors

(1) If your air conditioner fails to function normally, please first check the following items before maintenance:

Problem	Cause	Corrective measure
The air conditioner cant run.	If you turn off the unit and then immediately turn it on, in order to protect the compressor and avoid system overload, compressor will delay running for 3min.	Please wait for a while.
	Wire connection is wrong.	Connect wires according to the wiring diagram.
	Fuse or circuit breaker is broken.	Replace the fuse or switch on the circuit breaker.
	Power failure.	Restart after power is resumed.
	Power plug is loose.	Re-insert the power plug.
	Remote controller has low battery.	Replace the batteries.
Bad cooling or heating effect.	Air inlet and outlet of indoor or outdoor units have been blocked.	Clear the obstacles and keep the room for indoor and outdoor units well ventilated.
	Improper temperature setting.	Reset a proper temperature.
	Fan speed is too low.	Reset a proper fan speed.
	Air flow direction is not right.	Change the direction of air louvers.
	Doors or windows are open.	Close them.
	Exposed under direct sunshine.	Put on curtains or louvers in front of the windows.
	Too many heat sources in the room.	Remove unnecessary heat sources.
	Filter is blocked or dirty.	Send for a professional to clean the filter.
	Air inlets or outlets of the units are blocked.	Clear away obstacles that are blocking the air inlets and outlets of indoor and outdoor units.

(2) The following situations are not operation failures.

Phenomenon	Time of occurrence	Cause
Mist comes from the air conditioner.	During operation.	If the unit is running under high humidity, the wet air in the room will be quickly cooled down.
The air conditioner generates some noise.	System switches to heating mode after defrosting.	Defrosting process will generate some water, which will turn to water vapor.
	The air conditioner is buzzing at the beginning of operation.	Temperature controller will be buzzing when it starts working. The noise will become weak 1min later.
Dust comes from the air conditioner.	When the unit is turned on, it purrs.	When the system is just started, the refrigerant is not stable. About 30s later, the purr of the unit becomes low.
	About 20s after the unit first enables the heating mode or there is refrigerant brushing sound when defrosting under heating.	It's the sound of 4-way valve switching direction. The sound will disappear after the valve changes its direction.
	There is hissing sound when the unit is started or stopped and a slight hissing sound during and after operation.	It's the sound of gaseous refrigerant that stops flowing and the sound of drainage system.
	There is a sound of crunching during and after operation.	Because of temperature change, front panel and other components may be swelled up and cause abrasion sound.
	There is a hissing sound when the unit is turned on or suddenly stopped during operation or after defrosting.	Because refrigerant suddenly stops flowing or changes the flow direction.
	The unit starts operation after being unused for a long time.	Dust inside the indoor unit comes out together with the air.
The air conditioner generates some smell.	During operation.	The room smell or the smell of cigarette comes out through the indoor unit.

NOTICE:

Check the above items and adopt the corresponding corrective measures. If the air conditioner continues to function poorly, please stop the air conditioner immediately and contact Gree's authorized local service center. Ask our professional service staff to check and repair the unit.