

Failure display (INDOOR)

LED	running lamp(flicker times)	timer lamp(flicker times)	Fault content	The reason of fault and solution
F1	1	light	communication fault	<ol style="list-style-type: none"> 1、 Check whether the connection of the outdoor unit and indoor unit is one to one, otherwise connect the L, N and communication line of the indoor unit and outdoor unit one to one. 2、 Measure whether the voltage between the zero line and the communication line is 18V-30AC half-wave signal, check whether the communication circuit on the indoor and outdoor electric control board has been damaged, otherwise replace it. 3、 Check whether the LED on the outdoor power board has been on, otherwise replace the electric control board. 4、 Check whether the unit is abnormal caused by the external interference, if it is, then find the interfering source, and removes it.
F2	2	light	The indoor ambient temp. sensor fault	<ol style="list-style-type: none"> 1、 Check whether the resistance of sensor is normal, otherwise replace it. 2、 Check whether the sensor wire is short circuit or open circuit, and whether the plug is well contacted, whether there is welding off or rosin joint on the electric control board, repair it if there is any above. 3、 When the 1 and 2 are both normal, then the components or integrated circuit is damaged, the electric control board should be replaced.
F3	3	light	The coil pipe temp. sensor of indoor unit fault(include : inlet, middle, outlet)	<ol style="list-style-type: none"> 1、 Check whether the resistance of sensor is normal, otherwise replace it. 2、 Check whether the sensor wire is short circuit or open circuit, and whether the plug is well contacted, whether there is welding off or rosin joint on the electric control board, repair it if there is any above. 3、 When the 1 and 2 are both normal, then the components or integrated circuit is damaged, the electric control board should be replaced.

F4	4	light	indoor fan fault	<ol style="list-style-type: none"> 1、 Check whether the contact of the plug of the motor wire and socket is well, making sure well contact. 2、 Check whether the indoor motor has damaged, the motor should be replaced when it is damaged. 3、 Check whether the controllable silicon and other components on the electric control board have damaged, replace the controllable silicon or electric control board when they are damaged.
F5	5	light	module of outdoor unit fault	<ol style="list-style-type: none"> 1、 Check whether the connection of the compressor is reliable, otherwise connect firmly again. 2、 Check whether the fixation between the IPM module and the radiator is firm. 3、 Check whether the compressor is well, otherwise replace it. 4、 Check whether the IPM module is abnormal, otherwise replace it.
F6	6	light	The outdoor ambient temp. sensor fault	<ol style="list-style-type: none"> 1、 Check whether the resistance of sensor is normal, otherwise replace it. 2、 Check whether the sensor wire is short circuit or open circuit, and whether the plug is well contacted, whether there is welding off or rosin joint on the electric control board, repair it if there is any above. 3、 When the 1 and 2 are both normal, then the components or integrated circuit is damaged, the electric control board should be replaced.
F7	7	light	The outdoor unit coil pipe temp. sensor fault	<ol style="list-style-type: none"> 1、 Check whether the resistance of sensor is normal, otherwise replace it. 2、 Check whether the sensor wire is short circuit or open circuit, and whether the plug is well contacted, whether there is welding off or rosin joint on the electric control board, repair it if there is any above. 3、 When the 1 and 2 are both normal, then the components or integrated circuit is damaged, the electric control board should be replaced.
F8	8	light	The compressor suction temp. sensor fault	<ol style="list-style-type: none"> 1、 Check whether the resistance of sensor is normal, otherwise replace it.

				<ol style="list-style-type: none"> 2、 Check whether the sensor wire is short circuit or open circuit, and whether the plug is well contacted, whether there is welding off or rosin joint on the electric control board, repair it if there is any above. 3、 When the 1 and 2 are both normal, then the components or integrated circuit is damaged, the electric control board should be replaced.
F9	9	light	The compressor discharge temp. sensor fault	<ol style="list-style-type: none"> 1、 Check whether the resistance of sensor is normal, otherwise replace it. 2、 Check whether the sensor wire is short circuit or open circuit, and whether the plug is well contacted, whether there is welding off or rosin joint on the electric control board, repair it if there is any above. 3、 When the 1 and 2 are both normal, then the components or integrated circuit is damaged, the electric control board should be replaced.
FA	10	light	inductor of current or voltage fault	<ol style="list-style-type: none"> 1、 Check whether inductor of current or voltage have been damaged, they should be replaced if they are fault.
FC	11	light	compressor drive fault	<ol style="list-style-type: none"> 1、 Power on again, and check the operation of the compressor is normal. 2、 Check whether the connection of the compressor is reliable, otherwise repair. 3、 Check whether the components on the electric control board have been damaged, if they are damaged, the components or the electric control board should be replaced.
FE	13	light	gas return sensor fault(include : A, B, C, D pipe road)	<ol style="list-style-type: none"> 1、 Check whether the resistance of sensor is normal, otherwise replace it. 2、 Check whether the sensor wire is short circuit or open circuit, and whether the plug is well contacted, whether there is welding off or rosin joint on the electric control board, repair it if there is any above. 3、 When the 1 and 2 are both normal, then the components or integrated circuit is damaged, the electric control board should be replaced.
FF	14	light	other fault	<ol style="list-style-type: none"> 1 check whether the system pressure is normal, whether to have the broken tube result in the

				<p>leakage of refrigerant.</p> <p>2 check whether the indoor coil temperature sensor is installed in place.</p> <p>3 check whether the four-way valve runs abnormally.</p>
Failure display (OUTDOOR)				
P1	light	1	The evaporator temp. protection	<p>1、 Check whether the filter of indoor unit is too dirty, and it should be cleaned when it is too dirty.</p> <p>2、 Check whether it has barrier around indoor unit, it should be remove if it has.</p> <p>3、 Check whether the indoor motor is damaged, it should be replaced motor or electrical control board when it is damaged.</p>
P2	light	2	overheat, over current protection of inverter module	<p>1、 Check whether the fixation between the IPM module and the radiator is firm.</p> <p>2、 Check whether the compressor is well, otherwise replace it.</p> <p>3、 Check whether the IPM module is abnormal, otherwise replace it.</p>
P3	light	3	AC input current over large protection	<p>1、 Check whether the ambient temperature exceeds the operation range for the air conditioner</p> <p>2、 Check whether the current detection circuit is abnormal, the electric control should be replaced when it is abnormal.</p>
P4	light	4	The discharge temp. of compressor protection	<p>1、 Check whether the air condition system and pressure are normal.</p> <p>2、 Check whether the sensor, connecting wire of the sensor and the detection circuit are abnormal.</p>
P6	light	6	The suction temp. of compressor protection	<p>1、 Check whether the air condition system and pressure are normal.</p> <p>2、 Check whether the sensor, connecting wire of the sensor and the detection circuit are abnormal.</p>
P7	light	7	low or high voltage protection	<p>1、 Check whether the supply voltage is out of rang from 150 to 270V</p> <p>2、 Check the voltage detection circuit of the IPM base board is abnormal, if it is</p>

				abnormal, the IPM base board or the electric control board should be replaced.
P8	light	8	low presser of gas return protection	1、 Check whether the pressure is normal when the unit is running, if it is abnormal, should detect the leakage and welding、 add refrigerant.
P9	light	9	high pressure of discharge protection	1、 Check whether the pressure is normal when the unit is running, if it is abnormal, should detect the leakage and welding、 add refrigerant.
PA	light	10	The evaporator coil high temp. protection	1、 Check whether the condenser of outdoor unit is too dirty, and it should be cleaned when it is too dirty. 2、 Check whether it is running at bad condition long time. 3、 Check whether sensor and wire are normal.
PC	light	11	The outdoor ambient high temp. protection	1、 Check the outdoor ambient temperature is too high or there is heat source around the outdoor unit. 2、 Check whether the sensor and sensor wire are normal.
PH	light	12	Lack the refrigerant or reversal valve protection	1、 check whether the system pressure is normal, whether to have the broken tube result in the leakage of refrigerant. 2、 check whether the reversal valve runs abnormally.