8.1.1 When the compressor is in operation, The 3 LED indicator lights on the control panel of the outdoor unit indicates the causes of the restriction on the compressor's current operating frequency

Symbols for indicator light: ★: ON O: flashing ×: OFF				
	LED1	LED2	LED3	The cause of the restriction on the compressor's current operating frequency
1	O	O	O	Normal frequency ascent and descent with no restriction on the frequency
2	×	×	★	Frequency descent or restriction on frequency ascent caused by over current
3	×	★	★	Frequency descent or restriction on frequency ascent caused by anti-freeze in cooling or overload control in heating
4	★	×	★	Frequency descent or restriction on frequency ascent caused by too high compressor discharge temperature
5	×	★	×	Restriction on maximum operation operating frequency caused by too low voltage on the supply circuit
6	★	★	★	Operating at a fixed frequency (when in a capacity measurement or forced operation at a fixed frequency.)
7	×	★	O	Outdoor anti-overload protection Frequency descent or restriction on frequency

8.1.2 When the compressor is interrupted, the outdoor LEDs are used to indicate the troubles listed below:

Symbols for indicator light: ★: ON O: flashing ×: OFF				
	LED1	LED2	LED3	Troubles
1	×	×	×	Normal
2	×	×	★	Room temperature sensor short-circuited, open circuited or the corresponding test circuit in trouble
3	×	★	×	Indoor heat exchanger temperature sensor short-circuited, open circuited or the corresponding test circuit in trouble
4	★	×	×	Compressor temperature sensor short-circuited, open circuited or the corresponding test circuit in trouble
5	★	×	★	Outdoor heat exchanger temperature sensor short-circuited, open circuited or the corresponding test circuit in trouble
6	★	★	×	Outdoor atmosphere temperature sensor short-circuited, open circuited or the corresponding test circuit in trouble
7	O	★	×	CT (mutual inductance coil) short circuit, open circuit or detection circuit fault
8	O	×	★	Outdoor voltage detection circuit fault
9	×	×	O	Signal communication abnormal (indoor – outdoor)
10	×	O	×	Power module (IPM)protection
11	★	O	★	Maximum current control
12	★	O	×	Current overload control
13	×	O	★	Compressor discharge temperature too high
14	★	★	O	Over and under-voltage control
15	★	O	O	Outdoor ambient temperature protection (only KFR-2820GW/BP)
16				
17	O	★	★	Refrigerant leak (not yet available)
18	×	★	O	Compressor housing temperature too high
19	★	★	★	Outdoor memory in trouble
20	×	O	O	Indoor fan motor in trouble

21	×	★	★	With the drive module communication failure
22				
23	O	×	O	DC compressor out of step
24	O	O	×	DC compressor fails to start
25	O	O	★	DC Fan Trouble
26	O	★	O	Outdoor DC compressor heating state

8.1.3 Indication by the indoor unit (on)

Fault code	Power	Running	Efficient	Fault code	Power	Running	Efficient
0	★	★	★or×	20			
1	O	★	★	31	×	★	O
2	O	★	×				
				33	★	O	O
4	★	O	★	34	×	O	O
5	★	O	×	35			
6	×	O	×	36	O	★	O
				37	O	×	O
8	★	×	O	38	O	O	×
9	×	×	O	39	O	O	★
10				40	O	O	O
11	O	×	×				
13	O	×	★				
14	★	★	O				
15	×	O	★				

8.1.4 Indication by the indoor unit, Press the high power for 4 times in 10 seconds and the trouble codes listed below will be displayed as follows:

0	No trouble	20	Outdoor DC fan failure
1	Outdoor coil temperature sensor in trouble	21	Outdoor cooling coil anti-overload protection
2	Compressor temperature sensor in trouble	22	Compressor Pre-heating condition
3	Voltage transformer in trouble	31	Key AD value converted failure
4	Current transformer in trouble	33	Room temperature sensor in trouble
5	IPM module protection	34	Indoor coil temperature sensor in trouble
6	Over and under-voltage control	35	
7	Communication trouble	36	Communication between the indoor and outdoor in trouble
8	Current overload control	37	Indoor and wired remote communication failure
9	Maximum current control	38	Indoor EE Fault
10	4-way valve changeover abnormal	39	Indoor fan motor operation abnormal
11	Outdoor EEPROM in trouble	40	Grid protection alarm (cabinet type)
12	Compressor exhaust temperature too high control		
13	Outdoor ambient temperature sensor in trouble		
14	Compressor housing temperature control		
15	IPM module protection		
16	Anti-freeze or overload control		
17			
18	DC compressor fails to start		
19	DC compressor out of step		