

MAINTENANCE**1 TROUBLE TABLES**

1.1 Trouble Display of Indoor Unit

1.1.1 Trouble display of wire remote controller

Error	Error Code
High-pressure protection	E1
Prevention against low temperature	E2
Low-pressure protection	E3
Exhaust overtemperature	E4
Overcurrent Protector	E5
Communication error	E6
Water-full protection	E9
Indoor ambient temperature sensor error	F0
Indoor tube-inlet sensor error	F1
Indoor tube-middle sensor error	F2
Indoor tube-exit sensor error	F3
Outdoor ambient temperature sensor error	F4
Outdoor tube-inlet sensor error	F5
Outdoor tube-middle sensor error	F6
Outdoor tube-exit sensor error	F7
Error with exhaust temperature sensor 1 (fixed-frequency)	F8
Error with exhaust temperature sensor 2 (digital)	F9
Error with oil temperature sensor 1 (fixed-frequency)	FA
Error with oil temperature sensor 2 (digital)	Fb
High-pressure valve error	Fc
Low-pressure valve error	Fd
Thermal relay error	EH

Warning mark code:

Main wire controller mark	HO
Slave wire controller mark	SL
Mark of conflicting with the effective main wire controller	CH
Mark of eliminating main wire	CL
No main indoor unit	No
Remote shield	CC
Key locked	EE

1.1.2 Trouble display of mainboard LED of duct type indoor unit

Error	Error Code	Error	Error Code
Prevention against low temperature	E2	Error with oil temperature sensor 2 (digital)	Fb
Outdoor ambient temperature sensor error	F4	Indoor ambient temperature sensor error	F0
Outdoor tube-inlet sensor error	F5	Exhaust overtemperature	E4
Outdoor tube-middle sensor error	F6	Low-pressure protection	E3
Outdoor tube-exit sensor error	F7	Overcurrent Protector	E5
Error with exhaust temperature sensor 1 (fixed-frequency)	F8	High-pressure protection	E1
Indoor tube-inlet sensor error	F1	Communication error	E6
Indoor tube-middle sensor error	F2	High-pressure valve error	Fc
Indoor tube-exit sensor error	F3	Low-pressure valve error	Fd
Error with exhaust temperature sensor 2 (digital)	F9	Water-full protection (Cassette)	Eb
Error with oil temperature sensor 1 (fixed-frequency)	FA		

1.1.3 Trouble display of mainboard LED of cassette type indoor unit

Trouble name	Trouble LED		
	Electrical source LED	Operation LED	Timing LED
Tube-inlet sensor error	○	●	◐
Tube-middle sensor error	○	◐	◐
Tube-exit sensor error	○	◐	○
Room sensor error	○	○	◐
Defrost	○	◐	●
Antifreeze	●	●	◐
Water-full protection	●	◐	◐
Mode conflict	●	◐	○
Communication error	◐	◐	◐
Outdoor unit failure	◐	●	●
Auxiliary heater error	◐	○	○

Legend: bright ○; dark ●; blink ◐

1.1.4 Trouble display of mainboard LED of LengJingwang

Trouble name	Tube-inlet sensor error	Tube-middle sensor error	Tube-exit sensor error	Room sensor error	Defrost	Antifreeze	Mode conflict	Communication error	Outdoor unit failure
Electrical source LED	○	○	○	○	○	●	●	◐	◐
Operation LED	●	◐	◐	○	◐	●	◐	◐	●
Timing LED	◐	◐	○	◐	●	◐	○	◐	●

Legend: bright ○; dark ●; blink ◐

1.1.5 Trouble display of mainboard LED of FengYun and FengXia

Error	Tube-inlet sensor error	Tube-middle sensor error	Tube-exit sensor error	Room sensor error	Defrost	Antifreeze	Mode conflict	Communication error	Outdoor unit failure
Test lamp	Blink (1)				Bright	Dark	Blink	Blink (2)	Blink

Timer Lamp	Blink	Blink	Blink	Bright	blink	Dark
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Notes: [1] Bright and dark intermittently; [2] Bright and dark simultaneously

1.1.6 Trouble display of mainboard LED of Ling Ge Feng

Error	Error Code	Error	Error Code
Prevention against low temperature	E2	Error with oil temperature sensor 2 (digital)	Fb
Outdoor ambient temperature sensor error	F4	Indoor ambient temperature sensor error	F0
Outdoor tube-inlet sensor error	F5	Exhaust overtemperature	E4
Outdoor tube-middle sensor error	F6	Low-pressure protection	E3
Outdoor tube-exit sensor error	F7	Overcurrent Protector	E5
Error with exhaust temperature sensor 1 (fixed-frequency)	F8	High-pressure protection	E1
Indoor tube-inlet sensor error	F1	Communication error	E6
Indoor tube-middle sensor error	F2	High-pressure valve error	Fc
Indoor tube-exit sensor error	F3	Low-pressure valve error	Fd
Error with exhaust temperature sensor 2 (digital)	F9	Mode conflict	E7
Error with oil temperature sensor 1 (fixed-frequency)	FA		

1.1.7 Trouble display of mainboard LED of floor ceiling type

Error	Trouble LED		
	Electrical source LED	Error	Electrical source LED
Tube-inlet sensor error	○	●	◐
Tube-middle sensor error	○	◐	◐
Tube-exit sensor error	○	◐	○
Room sensor error	○	○	◐
Defrost	○	◐	●
Antifreeze	●	●	◐
Mode conflict	●	◐	○
Communication error	◐	◐	◐
Outdoor unit failure	◐	●	●
Auxiliary heater error	◐	○	○

Legend: bright ○; dark ●; blink ◐

1.2 Trouble and State Display of Mainboard LED of Outdoor Unit

Description of indicator LED.

Definition:

- LED6:
- LED5:
- LED4, LED3, LED2, LED1:

Error Description	Main control display of the outdoor units						Transfer board Display	Drive board of compressor			Drive board of fan motor		
	LED1	LED2	LED3	LED4	LED5	LED6	Nixietube	LED1 (Red)	LED2 (Yellow)	LED3 (Green)	LED1 (red) Continous fast blinking counts		
											Red	Yellow	Green
Normal	○	●	●	●	○	○	ON	◎	●	●	1		
Capacity dial-up error	○	●	◎	●	◎	○	-	-	-	-	◎	●	●
Compressor high-pressure protection	◎	●	●	●	◎	○	E1	-	-	-	-		
Compressor low-pressure protection	●	◎	●	●	◎	○	E3	-	-	-	-		
Compressor air-out protection	◎	◎	●	●	◎	○	E4	-	-	-	-		
Overcurrent Protector	●	●	◎	●	◎	○	E5	-	-	-	-		
No-refrigerant protection	●	○	◎	◎	◎	○	E3	-	-	-	-		
Error with sub-module and main control communication (display in sub-module)	◎	●	◎	●	◎	○	-	-	-	-	-		
Communication error with frequency conversion drive	◎	●	●	●	○	○	E5	●	◎	◎	-		
The temperature of radiating fin is too high	◎	○	○	○	◎	○	E5	○	◎	○	-		
Radiating fin sensor abnormal	○	○	◎	○	◎	○	E5	●	◎	○	-		
Clogged	◎	○	○	●	◎	○	E5	-	-	-	-		
Over-current protection of frequency conversion compressor	◎	○	◎	○	◎	○	E5	◎	◎	◎	-		
DC input voltage is too high	○	○	○	○	◎	○	E5	◎	◎	●	-		
DC input voltage is too low	○	◎	◎	○	◎	○	E5	◎	◎	●	-		
IPM ABNORMAL	○	○	○	◎	◎	○	E5	◎	●	◎	-		
Motor out of synchronization	●	●	○	●	◎	○	E5	◎	○	○	-		
Overspeed	●	○	○	◎	◎	○	E5	◎	○	◎	-		
Open phase, tripping	◎	●	○	●	◎	○	E5	○	●	○	-		

Temperature drift protection	○	●	○	◎	◎	○	E5	○	◎	◎	-
Error with the temperature sensor on drive board	○	●	◎	○	◎	○	E5	◎	●	○	-
Startup failure	○	○	○	●	◎	○	E5	○	◎	●	-
AC current protection (input side)	●	○	◎	○	◎	○	E5	-	-	-	-
PFC ABNORMAL	●	○	○	●	◎	○	E5	-	-	-	-
Drive module reset	○	●	○	●	◎	○	E5	-	-	-	-
Fixed-frequency compressor abnormal	○	◎	○	●	◎	○	-	-	-	-	-
Fan motor module protection	○	○	●	○	◎	○	-	-	-	-	2 ◎ ● ◎
Voltage protection of fan motor drive	●	○	●	○	◎	○	-	-	-	-	4 ◎ ◎ ●
Current protection of fan motor drive	◎	○	●	○	◎	○	-	-	-	-	3 ◎ ◎ ◎
Overheat protection of fan motor module	○	●	●	○	◎	○	-	-	-	-	6 ○ ◎ ○
Communication error with fan motor drive board and main control	○	◎	◎	●	◎	○	-	-	-	-	5 ● ◎ ◎
Overheat protection of fan motor and motor	●	●	●	○	◎	○	-	-	-	-	- ◎ ○ ●
Communication error with indoor units and outdoor units	●	◎	◎	●	◎	○	E6	-	-	-	-
Defrosting(normal operating, not error)	◎	◎	◎	●	◎	○	-	-	-	-	-
Oil return operating (normal operating, not error)	◎	○	◎	◎	◎	○	-	-	-	-	-
Balancing oil(normal operating, not error)	○	◎	◎	◎	◎	○	-	-	-	-	-
Online testing	●	○	●	●	○	○	-	-	-	-	-
Outdoor ambient temperature sensor error	●	●	●	◎	◎	○	F4	-	-	-	-
Error with outdoor coil inlet temperature sensor	◎	●	●	◎	◎	○	F5	-	-	-	-
Indoor coil middle temperature sensor error	●	◎	●	◎	◎	○	F6	-	-	-	-
Outdoor coil middle temperature sensor error	◎	◎	●	◎	◎	○	F7	-	-	-	-
Variable-frequency exhaust temperature sensor error	◎	●	◎	◎	◎	○	F9	-	-	-	-
Fixed frequency 1 error with air-out sensor	●	●	◎	◎	◎	○	F8	-	-	-	-
Fixed frequency 2 error with air-out sensor	○	●	◎	◎	◎	○	F8	-	-	-	-

Variable-frequency top casing temperature sensor error	◎	●	●	○	◎	○	F9	-	-	-	-
Fixed frequency 1 error with sensor of housing head cover	○	◎	●	○	◎	○	-	-	-	-	-
Fixed frequency 2 error with sensor of housing head cover	●	◎	●	○	◎	○	-	-	-	-	-
High-voltage sensor error	◎	◎	◎	○	◎	○	Fc	-	-	-	-
Low-voltage sensor error	◎	◎	○	○	◎	○	Fd	-	-	-	-
The quantity of modules and dial-up is inconformity	○	○	◎	●	◎	○	-	-	-	-	-
Other modules stop due to error	●	○	◎	●	◎	○	-	-	-	-	-

Note: 1.◎blink;●dark;○bright

2. The error of DC fan motor board is displayed by the continuous blinking counts of single LED red, the error of AC fan motor board is displayed by the state of LED red, yellow and green.

1.3 Number of indoor units display

Number of indoor units	Lamp display					
	LED6	LED5	LED4	LED3	LED2	LED1
1	●	●	●	●	●	○
2	●	●	●	●	○	●
3	●	●	●	●	○	○
4	●	●	●	○	●	●
5	●	●	●	○	●	○
6	●	●	●	○	○	●
:	:	:	:	:	:	:
:	:	:	:	:	:	:
62	○	○	○	○	○	●
63	○	○	○	○	○	○

Legend: bright ○; dark ●; blink 