

MAINTENANCE

1 TROUBLE SHOOTING

1.1 Error Display of Indoor Unit

| Error Code | Error | Source of error signal | Control description |
|------------|--|--|--|
| E1 | Compressor high pressure protection | High pressure switch | The high pressure protection value is 4.2MPa. When high pressure of a compressor is detected for successive three times, the compressor will stop. Error code E1 will be displayed and the running LED will blink. |
| E2 | Indoor antifreezing protection | Temperature sensor of evaporator | When $T_{\text{evaporator}} \leq -2^{\circ}\text{C}$ lasts for 10min, the antifreezing protection will occur. The indoor electronic expansion valve will be closed and the capacity is 0. |
| E3 | Compressor low pressure protection | Low pressure switch | When the low pressure protection value (0.15Mpa, absolute pressure) is reached, the low pressure switch will be disconnected. The low pressure protection will be displayed. |
| E4 | Compressor discharge temperature protection | Discharge temperature sensor | When discharge temperature T is 113°C or higher, the stop protection will occur. E4 is displayed upon the first discharge protection. After discharge temperature is lower than $TR^{\circ}\text{C}$ and the unit stops for 3min, the compressor will resume running. If this occurs for three times in one hour, the compressor can not resume running. It is a must to cut off the power and restart the unit. |
| E5 | Conversion overcurrent protection | Compressor driver | The driving board of conversion compressor is wrong. Refer to the error code of outdoor nixie tube for specific error information. |
| E6 | Communication Error | Communication | There is communication error between the mainboard of indoor unit or wired controller and the outdoor unit. The wrong indoor unit will stop and display error code. |
| E7 | Mode conflict | User operation | The running modes of the unit running first and that of later are variant. There is mode conflict among cooling, defrosting and heating mode. There is no mode conflict among fan, cooling, defrosting and heating mode. When mode conflict occurs, the indoor unit will display E7 and stop. |
| E9 | Water full protection | Water pump | When the water is full for successive 8s, the water full protection will occur. The wired controller will display E9 and alarm will occur. In that case, the water pump will work while the other load of indoor unit will stop. The outdoor unit needs to adjust capacity output. |
| F0 | Ambient temperature sensor error of indoor unit | Ambient temperature sensor of indoor unit | The indoor unit of temperature sensor error displays the error code and stop. |
| F1 | Indoor coil pipe inlet temperature sensor error | Indoor coil pipe inlet temperature sensor | The indoor unit of temperature sensor error displays the error code and stop. |
| F2 | Indoor coil pipe middle temperature sensor error | Indoor coil pipe middle temperature sensor | The indoor unit of temperature sensor error displays the error code and stop. |
| F3 | Indoor coil pipe outlet temperature sensor error | Indoor coil pipe outlet temperature sensor | The indoor unit of temperature sensor error displays the error code and stop. |
| F4 | Outdoor ambient temperature sensor error | Outdoor ambient temperature sensor | If short circuit occurs to the temperature sensor, there will be alarm.. The error information will be transmitted to each indoor unit, The error LED or wired controller will display the error code. When outdoor ambient temperature is lower than -5°C , the break circuit of outdoor temperature sensor will be shielded. It is treated according to -30°C . |
| F7 | Outdoor defrosting temperature sensor error | Outdoor defrosting temperature sensor | If short circuit occurs to the temperature sensor, there will be alarm.. The error information will be transmitted to each indoor unit, The error LED or wired controller will display the error code. When outdoor ambient temperature is lower than -5°C , the break circuit of outdoor temperature sensor will be shielded. It is treated according to -30°C . |
| F9 | Discharge temperature sensor error | Discharge temperature sensor | If short circuit occurs to the temperature sensor, there will be alarm.. The error information will be transmitted to each indoor unit, The error LED or wired controller will display the error code. When outdoor ambient temperature is lower than -5°C , the break circuit of outdoor temperature sensor will be shielded. It is treated according to -30°C . |