

### 3 Indoor unit error code explanation

Error code	Error code definition	Recovery or not	Problem possible reasons
A1	Indoor ambient temperature sensor failure	Yes	Indoor PCB is broken
			The fuse of indoor PCB is broken
			temperature sensor broken , or exceed test limit
A2	Temperature sensor about middle position of evaporator failure	Yes	Indoor PCB is broken
			The fuse of indoor PCB is broken
			temperature sensor broken , or exceed test limit
A3	Indoor coil pipe inlet temperature sensor failure	Yes	Indoor PCB is broken
			The fuse of indoor PCB is broken
			temperature sensor broken , or exceed test limit
A4	Indoor coil pipe outlet temperature sensor failure	Yes	Indoor PCB is broken
			The fuse of indoor PCB is broken
			temperature sensor is broken , or exceed test limit
A5	Indoor water pump failure	Yes	Water pump no power
			Water pump switch short-circuit or unconnected
			Water pump is broken
			Drain pipe block or up lean
			Indoor PCB is broken
A6	Failure of indoor PG fan	No	Fan motor failure
			Fan motor block
			The connection between PCB and fan motor failure.
			Indoor fan block
A7	Failure of reversible synchronous motor	No	Step motor failure
			The connection between PCB and step motor failure.
A8	Indoor unit ERRPROM module failure	No	Indoor unit PCB is broken
			Error module is broken.
A9	The communication between indoor unit and outdoor unit failed	No	The communication wire between indoor unit and outdoor unit is broken.
			Indoor unit power close
			Indoor PCB is broken
AA	The communication between indoor unit and wire controller failed	No	The communication wire between indoor unit and outdoor unit is broken.
			Indoor unit power close
			Indoor PCB is broken
			Wire controller is broken
AC	Two or more indoor unit central control system address repeated	Yes	The central control address setting incorrect
AE	Operation mode conflict	Yes	The operation mode setting incorrect
AH	Two or more indoor unit refrigerant system address repeated	Yes	System address setting incorrect
AJ	Indoor unit total capacity exceeded	Yes	Stop some indoor units
AF	The EXV leakage	No	EXV is blocked
			Indoor unit temperature sensor issue.
			Evaporator inlet sensor failure.

## 4. Outdoor unit error code explanation

Code	Error code definition	Recovery or not	Possible reason
C1	Ambient temperature sensor "Tao" failure	Yes	Temperature sensor failure or test temperature exceed limit.
			Sensor connection is incorrect.
			Outdoor unit PCB failure.
C2	Defrosting temperature sensor "Tdef1" failure	Yes	Temperature sensor failure or test temperature exceed limit.
			Sensor connection is incorrect.
			Outdoor unit PCB failure.
C3	Exhaust pipe temperature of variable frequency compressor "Tdi" failure	Yes	Temperature sensor failure or test temperature exceed limit.
			Sensor connection is incorrect.
			Outdoor unit PCB failure.
C4	Exhaust temperature of fixed frequency compressor No.1 "Td1" failure	Yes	Temperature sensor failure or test temperature exceed limit.
			Sensor connection is incorrect.
			Outdoor unit PCB failure.
C5	Exhaust temperature of fixed frequency compressor No.1 "Td2" failure	Yes	Temperature sensor failure or test temperature exceed limit.
			Sensor connection is incorrect.
			Outdoor unit PCB failure.
C6	Suction pipe temperature of compressor "Ts" failure	Yes	Temperature sensor failure or test temperature exceed limit.
			Sensor connection is incorrect.
			Outdoor unit PCB failure.
C7	Suction pipe temperature of variable frequency compressor "Tsi" failure	Yes	Temperature sensor failure or test temperature exceed limit.
			Sensor connection is incorrect.
			Outdoor unit PCB failure.
C8	Outdoor unit condenser middle position sensor "Tc1" failure	Yes	Temperature sensor failure or test temperature exceed limit.
			Sensor connection is incorrect.
			Outdoor unit PCB failure.
F1	High pressure sensor "Pd" failure	Yes	High pressure sensor failure
			Low pressure sensor connection is incorrect.
			Outdoor unit PCB failure
F2	High pressure sensor "Pd" limit frequency protection	Yes	Exhaust pipe or condenser pipe block
			Condenser dirty
			Outdoor unit fan stop or low speed
			Refrigerant overcharge
F3	High pressure sensor "Pd" protection.	Yes	Exhaust pipe or condenser pipe block
			Condenser dirty
			Outdoor unit fan stop or low speed
			Refrigerant overcharge
F4	Low pressure sensor "Ps" failure.	Yes	Low pressure sensor is broken.
			The connection between sensor and outdoor PCB incorrect
			Outdoor unit PCB failure
F5	Low pressure sensor "Pd" limit frequency protection	Yes	Indoor unit fan stop or low speed
			Evaporator dirty
			Indoor EXV full open in cooling mode (Outdoor EXV full open in heating mode)
			Lack refrigerant
			The pipe between evaporator and suction port block

Code	Error code definition	Recovery or not	Possible reason
F6	Low pressure sensor "Pd" protection.	No	Indoor unit fan stop or low speed
			Evaporator dirty
			Indoor EXV full open in cooling mode (Outdoor EXV full open in heating mode)
			Lack refrigerant
			The pipe between evaporator and suction port block
H1	DC inverter compressor high pressure switch "HPSi" failure	No	System pressure exceed high pressure switch limit.
			High pressure switch failure
			High pressure sensor failure
			Instantaneous power-off
			Stop valve closed
			Outdoor unit fan stop
			Outdoor unit air outlet block
			In heating mode indoor unit fan stop
In heating mode indoor unit EXV block			
H2	Fix speed compressor high pressure switch "HPS1" failure	No	System pressure exceed high pressure switch limit.
			High pressure switch failure
			High pressure sensor failure
			Instantaneous power-off
			Stop valve closed
			Outdoor unit fan stop
			Outdoor unit air outlet block
			In heating mode indoor unit fan stop
In heating mode indoor unit EXV block			
H3	Fix speed compressor high pressure switch "HPS2" failure	No	System pressure exceed high pressure switch limit.
			High pressure switch failure
			High pressure sensor failure
			Instantaneous power-off
			Stop valve closed
			Outdoor unit fan stop
			Outdoor unit air outlet block
			In heating mode indoor unit fan stop
In heating mode indoor unit EXV block			
H4	Low pressure switch "LPS" failure	No	System pressure lower than low pressure switch limit.
			Low pressure switch failure
			Low pressure sensor failure
			Instantaneous power-off
			Stop valve closed
			In cooling mode indoor unit EXV close or block
			In heating mode outdoor unit EXV close or block
			In heating mode outdoor unit fan stop
In heating mode outdoor unit air outlet block			
H5	Lack refrigerant	Yes	System leakage

Code	Error code definition	Recovery or not	Possible reason
H6	DC inverter compressor current overload limit frequency protection	Yes	Power supply incorrect
H7	DC inverter compressor current overload protection	Yes	Power supply incorrect
H8	Fix speed compressor 1 over current protection	Yes	The stop valve closed
			Outdoor unit air outlet block
			System supply power voltage exceed limit (Rated voltage 15%)
			Compressor failure
			Current transformer failure
H9	Fix speed compressor 2 over current protection	Yes	The stop valve closed
			Outdoor unit air outlet block
			System supply power voltage exceed limit (Rated voltage 15%)
			Compressor failure
			Current transformer failure
HA	AC power under voltage protection	Yes	System supply power voltage exceed limit (Rated voltage 15%)
			Instantaneous power-off
			The supply power phase lack
			Frequency driving PCB failure
			Instantaneous power-off
			Electrical wiring incorrect
			Compressor failure
			Outdoor unit fan motor failure
HC	The phase of fix compressor 1 incorrect	No	The power wire of fix speed compressor incorrect
			Outdoor unit PCB failure
HH	The phase of fix compressor 2 incorrect	No	The power wire of fix speed compressor incorrect
			Outdoor unit PCB failure
HJ	Main power failure	No	Supply power phase-reversal
			Supply power phase lack
			Outdoor unit PCB failure
HE	AC power overvoltage protection	Yes	System supply power voltage exceed limit (Rated voltage 15%)
E1	4-way valve failure	No	4-way valve failure
			The connection of 4-way valve and main PCB incorrect
			Main PCB failure
E2	DC inverter compressor exhaust temperature "Tdi" limit frequency protection	Yes	Compressor operate in a low speed, system will adjust and recovery automatic.
			Compressor issue
			Lack refrigerant
			Suct port block

Code	Error code definition	Recovery or not	Possible reason
E3	DC inverter compressor exhaust temperature "Tdi" over protection	No	System less refrigerant
			DC inverter Compressor failure
			Compressor air return filter block
			EXV open degree is small
			EXV block
			Gas pipe stop valve closed
			Liquid pipe stop valve closed
			System exhaust sensor failure
			Outdoor unit PCB failure
E4	DC inverter compressor exhaust temperature "Td1"over protection	No	System less refrigerant
			Fix speed compressor failure
			Fix speed compressor air return filter block
			EXV open degree is small
			EXV block
			Gas pipe stop valve closed
			Liquid pipe stop valve closed
			System exhaust temperature sensor failure
			Outdoor unit PCB failure
E5	DC inverter compressor exhaust temperature "Td2"over protection	No	System less refrigerant
			Fix speed compressor failure
			Fix speed compressor air return filter block
			EXV open degree is small
			EXV block
			Gas pipe stop valve closed
			Liquid pipe stop valve closed
			System exhaust sensor failure
			Outdoor unit PCB failure
E6	Compressor suction temperature "Ts" limit frequency protection	Yes	Indoor unit fan stop or low speed
			Indoor unit EXV over open
			Evaporator dirty
E7	Temperature sensor about middle position of condenser "Tc1" limit frequency protection	Yes	Compressor operate in a low speed, system will adjust and recovery automatic.
			Condenser dirty
			The pipe from condenser to exhaust port block
			Refrigerant overcharge
E8	Temperature sensor about middle position of condenser "Tc1" protection	No	Condenser dirty
			The pipe from condenser to exhaust port block
			Outdoor unit fan motor stop or low speed
			Refrigerant overcharge

Code	Error code definition	Recovery or not	Possible reason
E9	Compressor casing over heat protection	Yes	System less refrigerant
			Fix speed compressor failure
			Fix speed compressor air return filter block
			EXV open degree is small
			EXV block
			Gas pipe stop valve closed
			Liquid pipe stop valve closed
			System exhaust sensor failure
			Outdoor unit PCB failure
EA	Oil temperature (Toil) over protection	No	Compressor overheat
			Outdoor unit fan motor low speed
EE	Temperature sensor about middle position of condenser "Tc2" limit frequency protection	Yes	The pipe from condenser to exhaust port block
			Condenser dirty
			Outdoor unit fan motor stop or low speed
			Refrigerant overcharge
EF	Temperature sensor about middle position of condenser "Tc2" protection	No	The pipe from condenser to exhaust port block
			Condenser dirty
			Outdoor unit fan motor stop or low speed
			Refrigerant overcharge
J1	The communication between outdoor units failure	Yes	The communication wire between outdoor units disconnect, short circuit or connect incorrect.
			Outdoor unit PCB failure
			Outdoor unit main power failed
J2	The communication between outdoor unit and indoor unit failure	Yes	The communication wire between indoor unit and outdoor unit disconnect, short circuit or connect incorrect.
			Indoor unit main power failed
			Indoor unit PCB failure
J3	The communication between PCB and INV module failure	Yes	The connection between driving module and main PCB failure
			The communication part of outdoor unit control PCB failure
			Frequency driving board failure
			Compressor failure
J5	Outdoor unit parameter setting incorrect	Yes	Outdoor unit dial switch incorrect
			Mail PCB failure
J7	Outdoor unit main control PCB ERROM module failure	Yes	Mail PCB failure
31	Module protection (F0)	Yes	Supply voltage below level let the current excessive
			Supply voltage exceed limit
			Outdoor fan stop or low speed
32	Module hardware protection	Yes	Supply voltage below level let the current excessive
			Supply voltage exceed limit
			Outdoor fan stop or low speed
33	Module software protection	Yes	Supply voltage below level let the current excessive
			Supply voltage exceed limit
			Outdoor fan stop or low speed

Code	Error code definition	Recovery or not	Possible reason
34	Compressor unconnected	Yes	The connect of driving module and DC inverter compressor incorrect
			Driving module failure
			Compressor failure
35	Compressor phase current overload protection	Yes	Compressor overload
			Compressor coil disconnect
			Inverter driving board failure
			Compressor failure
36	Driving module current failure	Yes	Supply voltage below level
			Supply voltage exceed limit
			Driving module failure
37	Driving module temperature alarm	No	Inverter driving board failure
38	Driving module temperature failure	Yes	Driving module failure
			Compressor failure
			Outdoor unit fan stop or low speed