

Alarm Codes



Alarm Codes for Set Free Side Flow 2-Pipe, Modular & Hi Efficiency Modular 2-Pipe heat pump / 3-Pipe heat recovery



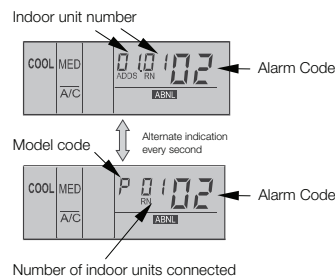
Alarm Codes for Utopia IVX Comfort, IVX Premium, ES and IVX Centrifugal

If RUN lamp flashes for 2 seconds, there is a failure in transmission between the indoor unit and the remote control switch.

Possible causes are:

- The remote cable is broken
- Contact failure in the remote control cable
- IC or microcomputer defective
- In all cases, contact your service provider.

If RUN lamp flashes 5 times (5 seconds) with unit number and alarm code displayed, note the alarm code (see table Alarm codes) and contact your service provider.



Model Code	
Indication	Model
H	Heat Pump
P	Inverter
F	Mult
C	Cooling Unit
E	Others
L	KPI

Code No.	Category	Type of Abnormality	Main cause
01	Indoor unit	Protection device activation (float switch)	Float switch activation (high water level in drain pan, blockage in drain pipe, float switch activated or drain pump faulty)
02	Outdoor unit	Protection device activation	HP switch activation (pipe blocked, excess refrigerant, non condensable present). Phase loss or incorrect rotation (Utopia only), float switch activation or MT open circuit (Centrifugal unit only)
03	Transmission	Abnormality between indoor and outdoor communication	Incorrect wiring, loose terminals, disconnect cable, blown fuse, outdoor unit switched off, incorrect address setting
04	Transmission	Abnormality between inverter PCB and outdoor PCB	Inverter PCB - Outdoor PCB transmission fault (loose connector, broken cable, blown fuse)
04.	Transmission	Abnormality between fan controller and outdoor PCB	Fan controller - Outdoor PCB transmission fault (loose connector, broken cable, blown fuse)
05	Power phase	Abnormality in the power phases	Incorrect power supply, inverted phase connection, open phase
06	Voltage	Abnormal inverter voltage Abnormal inverter controller voltage	Outdoor voltage drop, insufficient power. Capacitor or electronic problem on inverter compressor
06.	Voltage	Abnormal inverter voltage Abnormal fan controller voltage	Outdoor voltage drop, insufficient power. Capacitor or electronic problem on fan motor
07	Refrigerant Cycle	Drop in discharge gas superheat	Excessive refrigerant charge, thermistor fault, incorrect wiring, incorrect pipe connection, expansion valve locked in open position (connector disconnected).
08	Refrigerant Cycle	Increase in discharge gas temperature	Insufficient refrigerant charge, blocked pipe, thermistor fault, incorrect wiring, incorrect pipe connection, expansion valve locked in closed position (connector disconnected)
09	Outdoor unit	Tripping of protection device	Fan motor failure
0A	Transmission	Abnormality between outdoor and indoor units	Incorrect wiring, broken cable, loose terminals
0b	Outdoor unit	Incorrect outdoor unit address setting, Main unit of the outdoor unit incorrectly set	Duplicate address setting of outdoor units (secondary units) in the same refrigerant cycle system
0C	Outdoor unit	Main unit of the outdoor unit incorrectly set	Two (or more) outdoor units defined as the "main unit" in the same refrigerant cycle system
11	Indoor unit	Air inlet thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit
12	Indoor unit	Air outlet thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit
13	Indoor unit	Frost protection thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit
14	Indoor unit	Gas pipe thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit

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Code No.	Category	Type of Abnormality	Main cause
15	Indoor unit	Outdoor air thermistor (KPI)	Incorrect wiring, disconnected wiring, broken cable, short circuit
16	Indoor unit	Remote thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit
17	Indoor unit	Remote controller thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit
19	Fan motor	Indoor fan protection device activation	Fan motor overheating, locking
20	Outdoor unit	Discharge gas thermistor at top of compressor (Utopia)	Incorrect wiring, disconnected wiring, broken cable, short circuit
21	Outdoor unit	High pressure sensor	Incorrect wiring, disconnected wiring, broken cable, short circuit
22	Outdoor unit	Outdoor air thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit
23	Outdoor unit	Discharge gas thermistor at top of compressor (VRF)	Incorrect wiring, disconnected wiring, broken cable, short circuit
24	Outdoor unit	Heat exchanger liquid pipe thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit
25	Outdoor unit	Heat exchanger gas pipe thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit
26	Outdoor unit	Suction gas thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit
29	Outdoor unit	Low pressure sensor	Incorrect wiring, disconnected wiring, broken cable, short circuit
31	Outdoor unit	Incorrect capacity setting on outdoor and indoor units	Combination capacity incorrectly set. Excessive or insufficient total indoor unit capacity.
32	System	Loss of communication with 1 indoor unit (Multi system)	Loss of power, Incorrect wiring, loose terminals, disconnect cable, blown fuse, outdoor unit switched off, Incorrect address setting
35	Indoor unit	Indoor unit no. incorrectly set	Indoor unit no. duplicated in same refrigeration cycle
36	System	Incorrect indoor unit combination	Duplication of indoor unit number in same refrigerant group
38	Outdoor unit	Abnormality in the control circuit for outdoor unit protection	Protection detection device fault (incorrect wiring of outdoor PCB)
39	Compressor	Abnormal operation current in constant speed compressor	Over current, blown fuse, current sensor fault, instant power failure, voltage drop, abnormal power supply or faulty compressor
3A	Outdoor unit	Abnormal outdoor unit capacity	Outdoor unit capacity >54 HP
3b	Outdoor unit	Voltage or combination of outdoor unit models incorrectly set	Voltage or combination of secondary and main units incorrectly set
3d	Outdoor unit	Abnormal transmission between the main unit and the secondary units	Incorrect wiring, disconnected wiring, broken cable, PCB fault
41	Refrigerant Cycle	Cooling overload (possible activation of high pressure device)	O.U. pipe thermistor temp. is higher than 55 °C and the compressor top temp. is higher than 95 °C, O.U. protection device is activated
42	Refrigerant Cycle	Heating overload (high-pressure device may be activated)	If I.U. freeze protection thermistor temp. is higher than 55 and compressor top temp. is higher than 95
43	Protection device	Low-pressure decrease protection device activation	Defective compression (compressor or inverter fault, loose power supply connection)
44	Refrigerant Cycle	Low-pressure increase protection device activation	Overload during cooling, high temperature with heating, locked expansion valve (loose connector)
45	Refrigerant Cycle	High pressure increase protection device activation	Blocked condenser, pipe blocked, excess refrigerant, non condensable present
47	Refrigerant Cycle	Low-pressure decrease protection device activation (vacuum protection)	"Insufficient refrigerant, refrigerant pipes blocked, expansion valve locked in closed position (VRF), Stoppage due to excessive decrease of evaporating temperature (Temp < -35 °C) is activated 3 times in one hour, motor locked in heating mode."

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Code No.	Category	Type of Abnormality	Main cause
48	Inverter compressor	Inverter over current protection device activation	Overload, compressor fault
51	Inverter compressor	Abnormal inverter current sensor	Current sensor fault
53	Inverter compressor	Inverter error signal detection	Controller IC error signal detection (over current, low-voltage and short-circuit protection)
54	Inverter compressor	Abnormal inverter fin temperature	Abnormal inverter fin thermistor, heat exchanger clogging, fan motor fault
55	Inverter compressor	Inverter fault	Inverter PCB fault
56	Fan controller		
57	Fan controller	Fan controller protection activation	Controller IC error signal detection (over current, low-voltage and short-circuit protection), instant over current, Abnormal rotation speed
58	Fan controller	Fan controller protection activation	Controller IC error signal detection (over current, low-voltage and short-circuit protection), instant over current
59	Inverter compressor	Abnormality inverter fin thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit
5A	Fan controller	Abnormal fan controller fin temperature	Fin thermistor fault, heat exchanger clogging, fan motor fault
5b	Fan controller	Over current protection activation	Fan motor fault
5C	Fan controller	Abnormal fan controller sensor	Current sensor fault (instant over current, increased fin temperature, low voltage, earthing fault, step-out)
96	KPI Unit Sensor	Room Temperature thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit
97	KPI Unit Sensor	Fresh air thermistor	Incorrect wiring, disconnected wiring, broken cable, short circuit
EE	System	Compressor protection alarm (cannot be reset from the remote controller)	This alarm code is displayed when the following alarms are triggered three times within six hours: 02, 07, 08, 39, 43 to 45, 47
b1	Outdoor unit number setting	Unit number or address number of the outdoor unit incorrectly set	A number greater than 64 has been set for the refrigerant cycle or address
b5	Indoor unit number setting	Connection number of the indoor unit incorrectly set	There are more than 17 units not corresponding to H-LINK II connected to one system
C1	CH unit	Incorrect indoor unit connection	There are 2 or more CH units connected between the outdoor and indoor units
C2	CH unit	Connection number of the indoor unit incorrectly set	There are 9 or more indoor units connected to the CH unit
C3	CH unit	Incorrect indoor unit connection	Indoor units from different refrigerant cycles have been connected to the CH unit

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