LIST OF ERROR CODES FOR MONO AND MULTI SPLIT UNITS

Always check the correct installation, cleanliness of the exchangers and filters of the units. Remove power for at least five minutes, then re-power the system and check for error.

Malfunction Name	Error Code	A/C Status	Possible causes, checks, possible solutions
Expansion valve error	**dn**	In Cooling / Dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	Check the expansion valve of the outdoor unit refrigerant circuit; possible solutions: 1) wiring on the expansion valve board to be checked 2) Expansion valve to be replaced
Expansion valve error	**dd**	In Cooling / Dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	Check the expansion valve of the outdoor unit refrigeration circuit; possible solutions: 1) Incorrect valve needle position 2) Connection of the expansion valve to be checked 3) Expansion valve to be replaced
Protection of the high pressure refrigerant gas system	**E1**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) Excess refrigerant charge, check for overheating/undercooling; 2) Reduced heat exchange (exchanger or filter clogged) 3) Ambient temperature too high
Anti-freezing protection for evaporator	**E2**		Not the error code. It's the status code for the operation.
System blockage or refrigerant leak	**E3**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) Low pressure protection, check for overheating/undercooling; 2) Klicson intervention (if present), check the quantity of refrigerant gas 3) High temperature protection of the compressor top, check the quantity of refrigerant gas
High discharge temperature protection of compressor	**E4**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) Compressor protection due to high delivery temperature, check the quantity of refrigerant gas, check overheating / subcooling
Overcurrent protection	**E5**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) Unstable supply voltage; 2) Supply voltage too low and load too high; 3) Dirty/clogged evaporator

Communication error between outdoor and indoor units	**E6**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) Check the electrical connection between the indoor and outdoor units. 2) Check the power supply of the indoor and outdoor units 3) Follow the Argoclima procedure to check the quality of the boards
Conflict between indoor units	**E7**		For multi split models: one unit is set to heat mode and another to cold or dehumidification mode
High temperature protection	**E8**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) Check the correct cleaning of the exchangers 2) Check that the outdoor/indoor fan motor is free from any obstructions 3) Check the correct charging of the refrigerant gas (check for overheating/subcooling)
Indoor unit condensation level error	**E9**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	Check float and condensate drain pump in the indoor unit (cassette or ducted)
EEPROM malfunction	**EE**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) Check the correct wiring of the outdoor unit electronic board. 2) Replace the AP1 board of the outdoor unit.
Frequency limitation/decrease due to high module temperature	**EU**	All loads operate normally, while operation frequency for compressor is decreased	Discharging after the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel is sufficient and wheather the radiator is inserted tightly. If its no use, please replace control panel AP1.
Protection for **outdoor unit** jumper cap malfunction	**C4**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) The jumper cap is not properly inserted into the card; 2) The jumper cap is not present in its slot on the board; 3) Damaged jumper cup connector;
Protection for **indoor unit** jumper cap malfunction	**C5**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) The jumper cap is not properly inserted into the card; 2) The jumper cap is not present in its slot on the board; 3) Damaged jumper cup connector;

Leak/low refrigerant gas	**F0**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) Insufficient quantity of refrigerant gas, check the refrigeration connection (plates / pipes) and the refrigerant circuits of the units, check overheating / subcooling 2) Check the indoor unit battery sensor and the sensor on the compressor delivery pipe.
The room temperature sensor of the indoor unit needs to be checked (open/shorted)	**F1**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) The room temperature sensor of the indoor unit is not well connected or is damaged (check the sensor with the table of resistance values); 2) The motherboard is damaged
The sensor in the evaporator of the indoor unit needs to be checked (open/shorted)	**F2**	Once the selected temperature is reached, the unit stops completely. Cooling/Dehumidification: the indoor fan motor stops, like everything else. In Heating: the unit stops completely.	1) The temperature sensor in the evaporator of the indoor unit is not well connected or is damaged (check the sensor with the table of resistance values); 2) The motherboard is damaged
The room temperature sensor of the outdoor unit needs to be checked (open/shorted)	**F3**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) Looseness or bad contact with the ambient temperature sensor of the outdoor unit and the motherboard terminal; 2) The room temperature sensor of the outdoor unit is damaged (check with the table of sensor resistance values); 3) The motherboard is damaged
outdoor condenser temperature sensor needs to be checked (open/shorted)	**F4**	In Cooling/dehumidification: only the indoor unit fan motor works, everything else is stopped. In Heating: the unit stops completely.	1) The temperature sensor in the outdoor unit exchanger is not well connected or is damaged (check with the table of sensor resistance values); 2) The motherboard is damaged
The temperature sensor on the compressor delivery pipe needs to be checked (open/shorted)	**F5**	Cooling/Dehumidification: The compressor stops after running for 3 minutes while the indoor fan runs. Heating: The unit stops completely after operation for about 3 minutes	1) The temperature sensor in the compressor discharge pipe bulb is not well connected or is damaged (check with the sensor resistance values table) 2) The temperature sensor has not been inserted well into the copper pipe bulb .
Limit/decrease compressor frequency due to overload	**F6**	All components work correctly, while the operating frequency of the compressor decreases.	Refer to the analysis of the H3 error malfunction (before reporting the H3 error the system tends to protect the compressor by limiting its speed); 1) Check the cleanliness of the exchangers 2) Check the refrigerant gas charge 3) Check the power supply and compressor windings

Oil recovery in the compressor	**F7**	All components work correctly, while the operating frequency of the compressor decreases.	It is not an operating error but a periodic safety function
Decreased compressor frequency due to overcurrent	**F8**	All loads operate normally, while operation frequency for compressor is decreased	1) Supply voltage too low. 2) The gas pressure is too high.
Decrease compressor frequency due to high air discharge	**F9**	All loads operate normally, while operation frequency for compressor is decreased	1) outdoor ambient air temperature too high. 2) Insufficient refrigerant quantity, check for overheating / subcooling. 3) Valve malfunction expansion (EkV or EXV)
Limit/decrease in compressor frequency to avoid freezing of the indoor unit (antifreeze)	**FH**	All loads operate normally, while operation frequency for compressor is decreased	1) Poor air-return in indoor unit 2) The indoor unit fan speed is too low
The DC-BUS voltage is too high	**PH**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	1) Measure the power supply voltage L-N on the terminal board (XT), the voltage must be 230V plus or minus 10%, 2) If the voltage is normal, check the functionality of the AP1 board 3) Replace the board (AP1)
The DC-BUS voltage is too low	**PL**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	1) Measure the power supply voltage L-N on the terminal board (XT), the voltage must be 230V plus or minus 10%, 2) If the voltage is normal, check the functionality of the AP1 board 3) Replace the board (AP1)
Malfunction of the outdoor unit board electric pre-charge capacitor	**PU**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Replace the filter board or driver board after checking its functionality.
Compressor rated frequence in test state	**P1**		It is not an error, it is a visible signal during an automatic test of the nominal power in cooling or heating that the system carries out for self-diagnosis
Compressor maximum frequence in test state	**P2**		It is not an error, it is a visible signal during an automatic test of the nominal power in cooling or heating that the system carries out for self-diagnosis

Compressor intermediate frequence in test state	**P3**		It is not an error, it is a visible signal during an automatic test of the nominal power in cooling or heating that the system carries out for self-diagnosis
Overcurrent protection of phase current for compressor	**P5**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Anomaly detected during checks, P0 or P1 or P2 or P3; 1) Refer to the H5 error malfunction analysis
Malfunction of the temperature sensor of the power module of the outdoor unit board	**P7**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Replace the outdoor unit AP1 board.
High temperature protection of the outdoor unit board power module	**P8**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Discharging after the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel is sufficient and wheather the radiator is inserted tightly. If its no use, please replace control panel AP1.
Overload protection for compressor	**H3**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	1) Cleaning of the exchangers and correct gas charging; 2) The OVC-COMP cable harness is loose; 3) Stop the system, measure the compressor windings which must be between 0.5 and 2 Ω; 4) If the values differ by more than 10% from each other, the compressor must be replaced.
Protection of the IPM module of the outdoor unit board	**H5**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Overheating of the IPM module that manages the compressor speed. 1) Check the cleanliness of the exchangers; 2) Check the gas charge (often low) 3) Check the input power supply; 4) Check the correct wiring of the card and that the conductive paste between the card and heatsink is ok 5) Replace the card
Malfunction of zero-cross compressor detection circuit	**U8**		1) The power supply is abnormal 2) The outdoor unit control motherboard is unable to reset the compressor phases before starting. 3) Defective outdoor unit board that needs to be replaced
indoor motor (fan motor) do not operate	**H6**	The complete unit stops	1) Indoor unit vent motor feedback terminal bad contact; 2) Bad contact of indoor unit fan motor control end. 3) The fan motor is stalled. 4) check the indoor unit board. 5) Replace the defective component

Compressor desynchronization	**H7**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	1) Check the electrical power supply and, if possible, the refrigerant charge 2) Check the wiring and correct tightening of the connectors on the compressor and on the outdoor unit board 3) Check the correct functionality of the compressor 4) Check that there are no obstructions in the fridge connections between indoor and outdoor unit
PFC protection	**HC**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Protection of the power module of the outdoor unit board. 1) Check the input voltage 2) Replace the outdoor unit board
Outdoor DC fan motor malfunction	**L3**	Outdoor DC fan motor malfunction lead to compressor stop operation	1) Bad contact of outdoor unit fan motor feedback terminal; 2) Bad contact of the control end of the outdoor unit fan motor. 3) The fan motor is stalled. 4) Check outdoor unit board. 5) Replace the defective component
Power input protection	**L9**	The compressor stops working and the outdoor fan motor stops after 30s, 3 minutes later the fan motor and compressor restart	Alarm designed to protect electronic components when high input power is detected 1) Check the input electrical current
Indoor unit and outdoor unit doesnt match	**LP**	The unit stops completely	Setup error, indoor unit and outdoor unit are incompatible models
Failure start-up	**LC**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	The system fails to start the compressor despite the request 1) Check the input current and all the wiring relating to the compressor 2) Measure the phases of the compressor 3) Evaluate the faulty component to be replaced
The four-way valve is abnormal	**U7**	This malfunction occurs in heating mode, during defrosts the unit stops	1) Supply voltage is lower than AC175V; 2) Wiring terminal 4V is loosened or broken; 3) 4V is damaged, please replace 4V.

Malfunction of phase current detection circuit for compressor	**U1**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Anomalous distribution of the inverter from board to compressor. Replace the outdoor unit AP1 board.
Malfunction of voltage dropping	**U3**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Check input power; The supply voltage is unstable
Malfunction due to incorrect detection of electric current	**U5**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Malfunction of the outdoor unit board which does not correctly distribute the current to the various components, replace the AP1 outdoor board.
Refrigerant recovery mode	**Fo**		Refrigerant recovery due to low amount of gas in the system.
Malfunction of WIFI board	**JF**	Loads operate normally, while the unit can't be normally controlled by APP.	1) The Wifi module board is damaged; 2) The connection between indoor unit board and WIFI module board is incorrect
Out of standard Operating range error	**oE**	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	The outdoor ambient temperature exceeds the operating range of the unit (e.g. less than -20 °C or more than 60 °C in cooling; more than 30 °C in heating); 1) However, check that the compressor cables are wired correctly 2) Measure the compressor windings 3) Check the main board of the outdoor unit.