MRCOOL DIY 5th Gen Mini Split Error Codes

Error codes for MRCOOL DIY 5th Gen single-zone mini splits (models ending in D25-O), from the indoor display and the outdoor board display: what each code means, what to check first, and where to find the part. The display may show a space inside the code, e.g. EH 00.

MRCOOL mini split parts: hvacexpressparts.com/brands/mrcool
Parts listed for D25-O models: hvacexpressparts.com/search?q=D25-O
Not sure which part? Match the number printed on your old part, or call (786) 223-7655, Mon–Fri 9 AM–5 PM ET.

CODE	WHAT IT MEANS	WHAT TO CHECK FIRST	PARTS
Indoor unit			
EH00	Indoor unit EEPROM malfunction.	Power the unit off for a few minutes once. If the code returns, the indoor board (the EEPROM chip is on the board).	control boards
EH0A	Indoor EEPROM parameter error.	Power the unit off for a few minutes once. If the code returns, the indoor board (the EEPROM chip is on the board).	control boards
EH02	Zero-crossing signal detection error.	The supply voltage, then the indoor control board (the zero-crossing circuit is on the board).	control boards
EH03	Indoor fan speed out of control.	Indoor fan: the blower wheel turns freely and is clean, the motor plug and the motor; then the indoor control board.	fan motors, blower wheels & fan blades, control boards
EH60	Indoor room temperature sensor (T1) error.	The sensor (thermistor) and its plug. If the sensor reads correctly, the indoor control board.	control boards
EH61	Indoor pipe temperature sensor (T2) error.	The sensor (thermistor) and its plug. If the sensor reads correctly, the indoor control board.	control boards
EH0B	Communication error between the indoor main board and the display board.	The cable between the indoor main board and the display panel, then the display board or the indoor board.	control boards
Refrigerant leak sensor			
FHCC	Refrigerant sensor error.	The refrigerant leak sensor and its plug, then the indoor board; a technician checks for a real leak first.	control boards
EHC1	Refrigerant sensor detects a leak.	Ventilate the room, switch the unit off and call a licensed (EPA 608) technician. Not a parts swap.	—
EHC2	Refrigerant sensor out of range and a leak is detected.	The refrigerant leak sensor and its plug, then the indoor board; a technician checks for a real leak first.	control boards

CODE	WHAT IT MEANS	WHAT TO CHECK FIRST	PARTS
EHC3	Refrigerant sensor out of range.	The refrigerant leak sensor and its plug, then the indoor board; a technician checks for a real leak first.	control boards
ECC1	Another indoor unit's refrigerant sensor detects a leak (multi-zone).	Ventilate the room, switch the unit off and call a licensed (EPA 608) technician. Not a parts swap.	—
Communication			
EL01	Communication error between the indoor and outdoor units.	The communication wiring and terminals between the units (correct order, tight, dry) and the supply voltage; then the indoor or outdoor control board.	control boards
PC40	Communication error between the outdoor main chip and the compressor drive chip.	The wiring between the outdoor boards and the supply voltage; then the outdoor control board / inverter module.	control boards
Outdoor unit			
EC07	Outdoor fan speed out of control.	Outdoor fan: the blade turns freely, the motor plug and windings; then the fan drive on the outdoor control board.	fan motors, blower wheels & fan blades, control boards
EC71	Outdoor DC fan motor over-current.	Outdoor fan: the blade turns freely, the motor plug and windings; then the fan drive on the outdoor control board.	fan motors, blower wheels & fan blades, control boards
EC72	Outdoor DC fan motor phase loss.	Outdoor fan: the blade turns freely, the motor plug and windings; then the fan drive on the outdoor control board.	fan motors, blower wheels & fan blades, control boards
EC50	Outdoor temperature sensor (T3, T4 or TP) open or short circuit.	The outdoor sensor (thermistor) and its plug: compare its resistance with the temperature chart. If it reads correctly, the outdoor control board.	control boards
EC51	Outdoor EEPROM parameter error.	Power the unit off for a few minutes once. If the code returns, the outdoor board (the EEPROM chip is on the board).	control boards
EC52	Outdoor coil temperature sensor (T3) error.	The outdoor sensor (thermistor) and its plug: compare its resistance with the temperature chart. If it reads correctly, the outdoor control board.	control boards
EC53	Outdoor ambient temperature sensor (T4) error.	The outdoor sensor (thermistor) and its plug: compare its resistance with the temperature chart. If it reads correctly, the outdoor control board.	control boards
EC54	Compressor discharge temperature sensor (TP) error.	The discharge temperature sensor (TP) and its plug, then the outdoor control board.	discharge temperature sensor, control boards
EC56	Indoor coil outlet temperature sensor (T2B) error (multi-zone).	The T2B sensor (thermistor) and its plug, then the control board.	control boards
Protection			
PC00	Outdoor IPM module protection.	The supply voltage first; then the inverter module / outdoor control board.	control boards
PC01	Outdoor voltage protection.	The supply voltage, breaker and disconnect first. If the voltage is correct, the outdoor control board.	control boards

CODE	WHAT IT MEANS	WHAT TO CHECK FIRST	PARTS
PC02	Compressor top (or IPM) temperature protection.	Airflow first: the fan runs and the filters and coils are clean; then the refrigerant charge and the related temperature sensor.	fan motors
PC03	Pressure protection (low or high pressure).	Refrigerant charge and leaks (a licensed EPA 608 technician) and airflow; then the pressure switch and its wiring.	pressure switch
PC04	Inverter compressor drive error.	The compressor wires (U-V-W) and terminals, then the inverter module / outdoor board, then the compressor windings. Rule out the wiring and the module before replacing the compressor.	control boards, compressors
PC06	Compressor discharge temperature protection.	Refrigerant charge and airflow, then the discharge temperature sensor (TP).	discharge temperature sensor
PC08	Outdoor over-current protection.	The supply voltage first; then the inverter module / outdoor control board.	control boards
PC0A	Condenser high temperature protection.	Airflow first: the fan runs and the filters and coils are clean; then the refrigerant charge and the related temperature sensor.	fan motors
PC0F	PFC module protection.	The supply voltage, then the PFC circuit: the inverter module / outdoor board and the PFC reactor.	control boards, PFC reactor
PC0L	Low ambient temperature protection.	Usually the outdoor temperature is outside the unit's operating range. If it is not that cold outside, check the outdoor ambient sensor (T4).	—
PC10	Outdoor low AC voltage protection.	The supply voltage, breaker and disconnect first. If the voltage is correct, the outdoor control board.	control boards
PC11	Outdoor main board DC bus high voltage protection.	The supply voltage first; then the inverter module / outdoor control board.	control boards
PC12	Outdoor main board DC bus low voltage protection / 341 MCE error.	The supply voltage first; then the inverter module / outdoor control board.	control boards
PC30	System high pressure protection.	Refrigerant charge and leaks (a licensed EPA 608 technician) and airflow; then the pressure switch and its wiring.	pressure switch
PC31	System low pressure protection.	Refrigerant charge and leaks (a licensed EPA 608 technician) and airflow; then the pressure switch and its wiring.	pressure switch
PC43	Outdoor compressor phase-loss protection.	The compressor wires (U-V-W) and terminals, then the inverter module / outdoor board, then the compressor windings. Rule out the wiring and the module before replacing the compressor.	control boards, compressors
PC44	Outdoor zero speed protection.	The compressor wires (U-V-W) and terminals, then the inverter module / outdoor board, then the compressor windings. Rule out the wiring and the module before replacing the compressor.	control boards, compressors
PC45	Outdoor IR chip drive failure.	The supply voltage first; then the inverter module / outdoor control board.	control boards

CODE	WHAT IT MEANS	WHAT TO CHECK FIRST	PARTS
PC46	Compressor speed out of control.	The compressor wires (U-V-W) and terminals, then the inverter module / outdoor board, then the compressor windings. Rule out the wiring and the module before replacing the compressor.	control boards, compressors
PC49	Compressor over-current failure.	The compressor wires (U-V-W) and terminals, then the inverter module / outdoor board, then the compressor windings. Rule out the wiring and the module before replacing the compressor.	control boards, compressors
LC06	Inverter module (IPM) high temperature protection.	Outdoor airflow and the module's heatsink, then the inverter module / outdoor control board.	control boards
PH90	Evaporator high temperature protection.	Airflow first: the fan runs and the filters and coils are clean; then the refrigerant charge and the related temperature sensor.	fan motors
PH91	Evaporator low temperature protection.	Indoor airflow: the indoor fan and blower wheel run and the filter is clean; then the refrigerant charge and the indoor coil sensor (T2).	fan motors, blower wheels & fan blades
Alarms and status			
EL0C	System lacks refrigerant.	Refrigerant charge and leaks: a licensed (EPA 608) technician. Not a parts swap.	—
----	Indoor units mode conflict (multi-zone).	Multi-zone: indoor units are set to heating and cooling at the same time — set one mode. Not a part fault.	—
dF / FC	Defrost / Forced cooling.	Normal display, not an error code.	—
CL	Active clean.	Normal display, not an error code.	—
FP	Heating with the room below 46.4°F (8°C).	Normal display, not an error code.	—
AP / CP	Wi-Fi AP (pairing) mode / Remote switched off.	Normal display, not an error code.	—

Safety. Power checks and board work are for a qualified technician; refrigerant work requires EPA Section 608 certification.

Returns. Parts that were not installed, connected or used can be returned within 30 days: hvacexpressparts.com/refund-policy.

Source. Code meanings summarized in our own words from: MRCOOL, DIY Series Single-Zone Mini-Split System Service Manual (models DIY-*-HP-WMAH/C-115/230D25-O), version date April 20, 2026, sections 4.2 Error Display (Indoor Unit) and 4.3 Error Display (Outdoor Unit with Auxiliary Board). The same code can mean something else on other models; confirm it in your unit's documentation.

Other brands and models. Our mini split error codes guide: hvacexpressparts.com/blog/mini-split-error-codes-guide.

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