ELECTROLUX - KELVINATOR INVERTER SPLIT SYSTEM AC – Fault codes and descriptions

Fault codes - Condition code and communication code descriptions - ELECTROLUX -KELVINATOR INVERTER SPLIT SYSTEM AC

KSV26CRE - KSV26HRE

KSV35CRE - KSV35HRE
KSV70CRE - KSV70HRE
KSV53HRE
KSV62HRE
KSV80HRE

Built into the software for model: KSV26HRE & KSV35HRE are two different diagnostic methods: (Fault Codes & Condition Codes) that can be used to help diagnose various faults. These two diagnostic types are described.

Note: Where there is a referral to (Remote Control Access – 3)

This indicates the need to use the remote controller to view the relevant fault code. This is achieved by pressing the "Light" button 3 times within three seconds.

Note: Where there is a referral to (Remote Control Access – 5)

This indicates the need to use the remote controller to initiate a selected "Test State". This is achieved by pressing the "Light" button 5 times within three seconds.

Fault Code Descriptions

Red LED: Outdoor unit, flashing at 1 hertz.
(Frequency Limit)

This indicates the compressor has reached its maximum setting speed.

E4, Indoor Unit.
Yellow LED, Outdoor flashing 7 times.
(Compressor Discharge High Temperature Protection)

Check the outdoor coil for airflow obstructions. # Check the outdoor fan motor for correct operation.

E5, Indoor Unit.
Yellow LED, Outdoor flashing 5 times.
(AC Over-Current Protection)

Check supply voltage.

E8, Indoor Unit. (Delayed)
Yellow LED, Outdoor flashing 6 times.
(Anti-High Temperature Protection)

Check the indoor coil for airflow obstructions.

Check the indoor fan motor for correct operation.

EE, Indoor unit.
Yellow LED, Outdoor flashing 11 times.
(Loading EEPROM malfunction)

Check if the Program Chip is anchored correctly to the outdoor PCB.
Note: If the Program Chip is correctly anchored, yet "EE" fault still exists, replace the outdoor PCB assembly.

FO, Indoor unit.
Red LED, Outdoor flashing 9 times.
(System Low on Refrigerant)

Check for correct refrigerant charge. # Check for refrigerant leakage.

LP, Indoor unit.
Yellow LED, Outdoor flashing 16 times.
(Indoor & Outdoor units don't match)

Check if the Indoor & Outdoor units are correctly matched.
Note: If the indoor & outdoor units are from two different model types, the LP fault code will be displayed.

P7, Indoor unit.
(Temperature Sensor Circuit Malfunction)

Replace outdoor PCB assembly.

P8, Indoor unit.
(Module High Temperature Protection)

Replace outdoor PCB assembly.

HC, Indoor unit.
Yellow LED, Outdoor flashing 14 times.
(PFC Protection)

Check supply voltage.

U1, Indoor unit.
(Compressor Phase Circuit Detection)

Replace outdoor PCB assembly.

U3, Indoor unit.
(Unstable Supply Voltage)

Check supply voltage.

U5, Indoor unit.
(Outdoor Circuit Malfunction)

Replace outdoor PCB assembly.

U7, Indoor unit. (4-Way Valve Malfunction)

Check for 240V-AC at the reversing valve coil.

Check the connecting wire from the reversing valve coil to the outdoor PCB.

Check for correct operation of the reversing valve coil assembly.

U9, Indoor unit.
(Zero Crossing Malfunction)

Replace outdoor PCB assembly.

Condition Code Description

E2, Indoor Unit - (Condition Code) {Remote Control Access - 3}
Yellow LED, Outdoor flashing 3 times.
(Anti-Freeze Protection)

Check if the filters are blocked on the indoor unit.

Check the refrigerant charge.

Check for blockages within the refrigeration system.

Check the evaporator fan for correct operation.

FH, Indoor Unit - (Condition Code) {Remote Control Access - 3}
Red LED, Outdoor flashing 4 times.
(Anti-Freeze Limit – Frequency Drop)

Check if the filters are blocked on the indoor unit.

Check the refrigerant charge.

Check for blockages within the refrigeration system.

Check the evaporator fan for correct operation.

F6, Indoor Unit. - (Condition Code) {Remote Control Access - 3}
Red LED, Outdoor flashing 3 times.
(Anti-High Temperature Protection)

Check the outdoor coil for airflow obstructions.

Check the outdoor fan motor for correct operation.

H1, Indoor unit.
Yellow LED, Outdoor flashing 2 times.
(Defrosting)

PO, Indoor Unit - (Condition Code) {Remote Control Access - 5}
(Compressor Minimum Frequency - Test State)

Set remote control: (Cooling mode: 16ºC – Heating mode: 27ºC)

P1, Indoor Unit - (Condition Code) {Remote Control Access - 5}
(Compressor Rated Frequency - Test State)

Set remote control: (Cooling mode: 18ºC – Heating mode: 29ºC)
P2, Indoor Unit - (Condition Code) {Remote Control Access - 5}
(Compressor Maximum Frequency - Test State)

Set remote control: (Cooling mode: 19ºC – Heating mode: 30ºC)
P3, Indoor Unit - (Condition Code) {Remote Control Access - 5}
(Compressor Medium Frequency - Test State)

Set remote control: (Cooling mode: 17ºC – Heating mode: 28ºC)
EU, Indoor unit - (Condition Code)

Frequency limit/decrease (high temp of module)
F8, Indoor Unit. - (Condition Code)
Red LED, Outdoor flashing once.
(Low Voltage Protection)
Check supply voltage.
F9, Indoor Unit. - (Condition Code)
Red LED, Outdoor flashing twice.
(Lack of Refrigerant)
Check refrigerant amount.
PH, Indoor Unit. - (Condition Code)
Yellow LED, Outdoor flashing 13 times.
(High Voltage Protection)
Check supply voltage.

PL, Indoor Unit. - (Condition Code)
Yellow LED, Outdoor flashing 12 times.
(Low Voltage Protection)
Check supply voltage.
P5, Indoor Unit - (Condition Code)
(Compressor Current Out of Normal Range)
Check the indoor & outdoor coils for airflow obstructions.
HO, Indoor Unit - (Condition Code)
(Anti-High Temperature Protection, Heating Mode)

Check the indoor coil for airflow obstructions. # Check the indoor fan motor for correct operation.
H4, Indoor Unit - (Condition Code)

Yellow LED, Outdoor flashing 6 times.
(Anti-High Temperature Protection)

Check the indoor & outdoor coils for airflow obstructions. # Check the indoor & outdoor fan motor for correct operation.
H5, Indoor Unit - (Condition Code)
Yellow LED, Outdoor flashing 4 times.
(IPM Protection)

Over current protection of IPM module.

H7, Indoor Unit - (Condition Code)
(IPM Protection)

Over current protection of IPM module.

Communication Fault

If both indoor & outdoor PCB's appear okay

Disconnect the main power supply to the indoor unit by means of the isolation switch. After approximately one minute, turn the power supply back on & attempt to operate the unit in "Auto" mode with a set temperature of two degrees above or below the ambient temperature.
If the Communication fault has not cleared:

Check for supply voltage at the following points.

- **Between the Active -Out & Neutral points on the indoor PCB.**
- **Between the Active & Neutral points on the indoor terminal block.**
- **Between the Active & Neutral points on the outdoor terminal block.**
- **Between the Active & Neutral points on the outdoor PCB.**