Air Conditioner Fault Codes - All Brands

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Disclaimer - general guide only. These fault codes and diagnostic steps are compiled from manufacturer documentation and field experience for reference only. Code meanings can differ between models, series, software versions and regions, so always confirm against the manufacturer's service manual or the information on the unit before replacing parts. Refrigerant, electrical and gas work must only be carried out by appropriately licensed technicians (ARCtick refrigerant licence and Queensland electrical licence). Isolate power before opening any unit. Total Cooling Services Qld accepts no liability for any loss, damage or injury arising from the use of this information. Compiled Nov 2026. QBCC 15142132.

DAIKIN

Residential split, multi & domestic ducted (R-32 / R-410A)

Models: FTXM, FTKM, FTXZ, FTXJ, FTXV, FTXF, FTXS, FTXP, FTXR, FTKF, FVXM, FVXS, FDYQ, FDXM, FDMRN, FFA, FCAG, MXM, MXS, RXM, RXZ, RXV, RXF, RXJ, RZQ, RXP, CTXM, Alira, Cora, Zena, US7, Lite, Emura

How to read: On the Daikin wireless remote, press and hold CANCEL (or TEMP down on some remotes) for ~5 seconds until '00' flashes. Press CANCEL repeatedly to step through codes; a long beep (and steady operation lamp) identifies the stored code. Wired controllers display the code directly. Detailed sub-codes (e.g. A1-00, L5-00) appear on newer units.

- **00** - Normal — no fault
- **A1** - Indoor PCB abnormality
- **A3** - Drain level control system abnormality (ducted/cassette)
- **A5** - Freeze-up protection (cooling) / high pressure control (heating)
- **A6** - Indoor fan motor abnormality / lock
- **AH** - Streamer / air purifier unit abnormality
- **C4** - Indoor heat exchanger (liquid pipe) thermistor abnormality
- **C7** - Front panel / louvre limit switch abnormality
- **C9** - Indoor room (suction air) thermistor abnormality
- **CC** - Humidity sensor abnormality
- **E1** - Outdoor PCB abnormality
- **E3** - High pressure protection (HPS activated)
- **E5** - Compressor overload (OL activation) / compressor overheat
- **E6** - Compressor lock / start-up failure
- **E7** - Outdoor DC fan motor lock
- **E8** - Input overcurrent detected
- **E9** - Electronic expansion valve (EEV) abnormality
- **EA** - Four-way valve abnormality
- **F3** - Discharge pipe temperature too high
- **F6** - High pressure control in cooling / refrigerant overcharge
- **H0** - Compressor sensor system abnormality
- **H6** - Compressor position detection sensor abnormality
- **H8** - Current transformer (CT) / DC current sensor abnormality
- **H9** - Outdoor air thermistor abnormality
- **J3** - Discharge pipe thermistor abnormality
- **J6** - Outdoor heat exchanger thermistor abnormality
- **J8** - Liquid pipe thermistor abnormality (multi)
- **J9** - Gas pipe thermistor abnormality (multi)
- **L3** - Electrical box temperature rise
- **L4** - Inverter radiation fin (heatsink) temperature rise (Check outdoor airflow and heatsink contact)
- **L5** - Inverter output overcurrent
- **P4** - Radiation fin (heatsink) thermistor abnormality
- **U0** - Refrigerant shortage
- **U2** - DC voltage drop / main circuit overvoltage
- **U4** - Transmission error between indoor and outdoor unit
- **U7** - Transmission error between outdoor PCBs
- **UA** - Incorrect indoor/outdoor combination / unspecified voltage
- **UH** - Anti-icing (other rooms) / unspecified unit — multi systems

SkyAir & VRV commercial (wired controller BRC)

Models: FBA, FCA, FCQ, FFQ, FHA, FAA, FXFQ, FXSQ, FXMQ, FXAQ, FXZQ, FXDQ, RZA, RZAS, RZASG, RZQG, RXYQ, REYQ, RXYSQ, BRC1, BRC2, BRC4, Madoka

How to read: Codes show on the BRC wired controller. On Madoka (BRC1H) and Navigation (BRC1E) press the menu/info button to view the error and its sub-code and history. Outdoor PCB 7-segment display on VRV gives detailed codes.

- **A0** - External protection device activated
- **A1** - Indoor PCB defect
- **A3** - Drain level control system abnormality
- **A5** - Freeze-up / high pressure control
- **A6** - Indoor fan motor lock / overload
- **A7** - Swing flap motor abnormality
- **A9** - Indoor EEV abnormality

AF - Drain level above limit / humidifier
AJ - Capacity setting abnormality
C4 - Indoor liquid pipe thermistor
C5 - Indoor gas pipe thermistor
C9 - Indoor return air thermistor
CJ - Remote controller thermistor
E1 - Outdoor PCB defect
E3 - High pressure switch activated
E4 - Low pressure abnormality
E5 - Compressor motor lock / overload
E6 - Compressor overcurrent / lock
E7 - Outdoor fan motor abnormality
E9 - Outdoor EEV abnormality
F3 - Discharge pipe temperature abnormality
F6 - Refrigerant overcharge
H3 - High pressure switch abnormality
H7 - Outdoor fan motor signal abnormality
H9 - Outdoor air thermistor
J3 - Discharge pipe thermistor
J5 - Suction pipe thermistor
J6 - Outdoor heat exchanger thermistor
J7 - Outdoor liquid pipe thermistor
JA - High pressure sensor abnormality
JC - Low pressure sensor abnormality
L1 - Inverter PCB abnormality
L4 - Inverter heatsink temperature rise
L5 - Inverter compressor instantaneous overcurrent
L8 - Inverter compressor overcurrent (electronic thermal)
L9 - Inverter compressor start-up failure (stall prevention)
LC - Transmission between outdoor control PCB and inverter PCB
P1 - Inverter over-ripple / open phase / power imbalance
P4 - Inverter heatsink thermistor
PJ - Capacity setting mismatch (outdoor)
U0 - Refrigerant shortage / low pressure drop
U1 - Reverse phase / open phase
U2 - Power supply voltage insufficient / abnormal
U3 - Check operation not completed
U4 - Indoor–outdoor transmission error
U5 - Remote controller–indoor transmission error
U7 - Outdoor–outdoor transmission / cool-heat selector error
U8 - Main–sub remote controller transmission error
U9 - Transmission error with other indoor unit in system
UA - Indoor/outdoor/controller combination error
UC - Central control address duplication
UE - Transmission error with central controller
UF - Refrigerant system not set / wiring–piping mismatch
UJ - Accessory device transmission error

MITSUBISHI ELECTRIC

Mr Slim commercial & wall/ducted (PEA, PLA, PKA, PCA, SEZ, SLZ, PEAD, MSZ check mode)

Models: PEA, PEAD, PEY, PLA, PKA, PCA, SEZ, SLZ, PUZ, PUHZ, SUZ, MSZ, MXZ, MUZ, PAR-, PAR-33, PAR-41, PAR-40
How to read: Wired controller (PAR-xx): code shows on screen; press CHECK twice for self-diagnosis history. Wireless remote: press CHECK twice, point at the unit and press TEMP up/down — the beeper/OPERATION lamp blinks a number of times; the count gives the check code below (Pattern A = indoor detected, Pattern B = outdoor detected). MSZ wall splits use the same check-code family; blink-counts can differ slightly by model.

P1 - Intake (return air) sensor error (Pattern A — 1 blink)
P2 - Pipe (liquid, TH2) sensor error (Pattern A — 2 blinks)
P9 - Pipe (2-phase, TH5) sensor error (Pattern A — 2 blinks)
E6 - Indoor/outdoor communication error (indoor detected) (Pattern A — 3 blinks)
E7 - Indoor/outdoor communication error (Pattern A — 3 blinks)
P4 - Drain sensor error / float switch connector open (Pattern A — 4 blinks)
P5 - Drain pump error (Pattern A — 5 blinks)
PA - Forced compressor stop (water leakage abnormality) (Pattern A — 5 blinks)
P6 - Freezing / overheating protection operation (Pattern A — 6 blinks)
EE - Communication error between indoor and outdoor (incompatible combination) (Pattern A — 7 blinks)
P8 - Pipe temperature error (coil temperature not changing as expected) (Pattern A — 8 blinks. Check charge, sensor position, 4-way valve)
E4 - Remote controller signal receiving error (Pattern A — 9 blinks)
E5 - Remote controller signal receiving error
Fb - Indoor unit control system error (memory error etc.) (Pattern A — 12 blinks)

Pb - Indoor fan motor error
E0 - Remote controller transmission error
E3 - Remote controller transmission error
E1 - Remote controller control board error
E2 - Remote controller control board error
E9 - Indoor/outdoor communication error (outdoor transmitting error) (Pattern B — 1 blink)
UP - Compressor overcurrent interruption (Pattern B — 2 blinks)
U3 - Outdoor thermistor open/short (discharge TH4) (Pattern B — 3 blinks)
U4 - Outdoor thermistor open/short (TH3/TH6/TH7/TH8) (Pattern B — 3 blinks)
UF - Compressor overcurrent interruption (compressor locked) (Pattern B — 4 blinks)
U2 - Abnormal high discharge temperature / 49C activated / insufficient refrigerant (Pattern B — 5 blinks)
U1 - Abnormal high pressure (63H activated) (Pattern B — 6 blinks)
Ud - Overheat protection operation (Pattern B — 6 blinks)
U5 - Abnormal heatsink temperature (Pattern B — 7 blinks)
U8 - Outdoor fan protection stop (Pattern B — 8 blinks)
U6 - Compressor overcurrent interruption / power module abnormality (Pattern B — 9 blinks)
U7 - Abnormal superheat due to low discharge temperature (Pattern B — 10 blinks)
U9 - Abnormality such as over/under voltage or abnormal sync signal to main circuit (Pattern B — 11 blinks)
UH - Current sensor error (Pattern B — 11 blinks)
UL - Abnormal low pressure
PL - Refrigerant circuit abnormality

City Multi VRF / central controller 4-digit codes

Models: PUHY, PURY, PQHY, PEFY, PLFY, PKFY, PMFY, PCFY, AE-200, AG-150, CMB
How to read: 4-digit codes show on the central controller / ME remote and on the outdoor unit LED display.
0403 - Serial communication error (outdoor PCB–inverter)
1102 - Discharge temperature abnormality
1301 - Low pressure abnormality
1302 - High pressure abnormality
1500 - Overcharged refrigerant
2500 - Water leakage abnormality
2502 - Drain pump abnormality
2503 - Drain sensor / float switch abnormality
4102 - Open phase
4106 - Power supply abnormality (power failure)
4115 - Power supply sync signal abnormality
4220 - Inverter bus voltage abnormality
4230 - Heatsink overheat protection
4250 - Power module / overcurrent abnormality
5101 - Return air / discharge thermistor abnormality
5102 - Liquid pipe thermistor abnormality
5103 - Gas pipe thermistor abnormality
5201 - High pressure sensor abnormality
6600 - Address duplication
6602 - Transmission processor hardware error
6603 - Transmission bus busy
6606 - Communication error with transmission processor
6607 - No ACK error
6608 - No response error
7100 - Total capacity error
7101 - Capacity code error
7102 - Connected unit count over
7105 - Address setting error

MITSUBISHI HEAVY INDUSTRIES

Wall-mounted RAC split (SRK / SRF / SRR) — lamp codes

Models: SRK, SRF, SRR, SRC, SCM, Avanti, Bronte, Diamond
How to read: Indoor RUN and TIMER lamps flash to show the fault. Indoor faults: RUN lamp flashes with TIMER ON. Outdoor faults: TIMER lamp flashes with RUN ON, or RUN 'keeps flashing' with TIMER flashing N times. The equivalent E-code (shown on wired RC / service checker) is listed with each. In service mode the RUN lamp flashes the tens digit and TIMER the units digit (e.g. RUN 4 + TIMER 2 = stop code 42, current cut).
RUNx1 - Indoor heat exchanger sensor error (E6) (RUN 1 flash, TIMER ON)
RUNx2 - Room temperature sensor error (E7) (RUN 2 flashes, TIMER ON)
RUNx5 - Active filter voltage error (E47) (RUN 5 flashes)
RUNx6 - Indoor fan motor error (E16) (RUN 6 flashes — fan < 300 rpm for 30 s)
RUNx7 - Refrigeration cycle protective control (E57) — service valve closed / insufficient refrigerant (RUN 7 flashes)
TIMERx1 (RUN flashing) - Outdoor air temperature sensor error (E38) (RUN keeps flashing, TIMER 1)
TIMERx2 (RUN flashing) - Outdoor heat exchanger sensor error (E37) (RUN keeps flashing, TIMER 2)
TIMERx4 (RUN flashing) - Discharge pipe sensor error (E39) (RUN keeps flashing, TIMER 4)
TIMERx5 (RUN flashing) - Suction pipe sensor error (E53) (RUN keeps flashing, TIMER 5)

TIMERx6 (RUN flashing) - Power transistor overheat / sensor error (E41) (RUN keeps flashing, TIMER 6)
TIMERx1 - Current cut (E42) — compressor locked, open phase, shorted power transistor, closed valve (RUN ON, TIMER 1)
TIMERx2 - Trouble of outdoor unit (E59) — compressor wire broken / compressor blocked (RUN ON, TIMER 2)
TIMERx3 - Current safe stop (E58) — overload, overcharge, compressor locked (RUN ON, TIMER 3)
TIMERx4 - Power transistor error (E51) (RUN ON, TIMER 4)
TIMERx5 - Compressor overheat (E36) — gas shortage, discharge sensor, closed valve (RUN ON, TIMER 5)
TIMERx6 - Signal transmission error (E5) (RUN ON, TIMER 6)
TIMERx7 - Outdoor fan motor error (E48) (RUN ON, TIMER 7)
Cooling HP - Cooling high pressure protection (E35) (TIMER keeps flashing, RUN 2)
Rotor lock - Rotor lock — compressor magnetic pole position not detected (E60)

PAC / FDC commercial & ducted (wired RC-E5, RC-EX, RC-EXZ) — E codes

Models: FDC, FDT, FDU, FDUM, FDE, FDK, FDF, FDTC, SRR, RC-E5, RC-EX, RC-EXZ, KX
How to read: E-codes display on the wired remote controller. Indoor/outdoor PCB green/red LEDs also flash to confirm the fault location.

E1 - Remote controller communication error
E2 - Duplicate indoor unit address
E3 - Outdoor unit signal line error / CNK fuse
E5 - Indoor/outdoor transmission error (outdoor power off if on multiple units)
E6 - Indoor heat exchanger sensor (Thi-R) error
E7 - Return air sensor (Thi-A) error
E9 - Drain trouble (float switch activated)
E10 - Excessive number of units on one remote controller
E16 - Indoor fan motor error
E28 - Remote controller temperature sensor error
E35 - Cooling high pressure protection
E36 - Discharge temperature abnormality
E37 - Outdoor heat exchanger sensor (Tho-R) error
E38 - Outdoor air temperature sensor (Tho-A) error
E39 - Discharge pipe sensor (Tho-D) error
E40 - High pressure switch (63H1) / service valve closed
E41 - Power transistor overheat
E42 - Current cut
E45 - Communication error between inverter PCB and outdoor control PCB
E47 - Active filter / inverter voltage error
E48 - Outdoor fan motor error
E49 - Low pressure error
E51 - Inverter / power transistor abnormality
E53 - Suction pipe sensor error
E54 - Low pressure sensor error
E56 - Power transistor sensor disconnected / poor connection
E57 - Insufficient refrigerant
E58 - Current safe stop / anomalous compressor loss of synchronism
E59 - Compressor start-up failure
E60 - Compressor rotor position detection error

FUJITSU

Current split, ducted, cassette (lamp flashes & wired RC codes)

Models: ASTG, ASTH, ASTA, ASHH, ASYG, ASTB, ARTG, ARTH, ARTC, ARTA, AUTG, AUTH, AUTA, ABTG, AGTG, AGTV, AOTG, AOTH, AOTA, AOYG, AOHH, AJTA, AOTR, UTY-R, UTY-RN, UTY-RV, UTY-RS, Nocria, Lifestyle, Designer, Halcyon, General
How to read: Wireless units: count the OPERATION (green) and TIMER (orange) lamp flashes while the ECONOMY lamp flashes continuously. The two counts form the code (e.g. Operation 1 + Timer 1 = code 11). Wired controllers show the 2-digit code directly (press and hold the error/check button on UTY series). 'EE:EE' on older wired controllers: press Energy Save + Zone Control together >3 s to display the code. All three lamps flashing several times then switching off can be an accidentally-set Weekly Timer, not a fault.

11 - Serial communication error (indoor–outdoor) (Operation 1 / Timer 1)
12 - Wired remote controller communication error (Operation 1 / Timer 2)
14 - Network communication error (Operation 1 / Timer 4)
15 - Check run unfinished (Operation 1 / Timer 5)
16 - Transmission / peripheral unit connection error (Operation 1 / Timer 6)
21 - Refrigerant circuit address setting error (Operation 2 / Timer 1)
22 - Indoor unit capacity error (Operation 2 / Timer 2)
23 - Combination error (Operation 2 / Timer 3)
24 - Connection unit number error (Operation 2 / Timer 4)
26 - Address setting error (Operation 2 / Timer 6)
27 - Master/slave unit set-up error (Operation 2 / Timer 7)
29 - Connection unit number error in wired RC circuit (Operation 2 / Timer 9)
31 - Power supply interruption error (Operation 3 / Timer 1)
32 - Indoor PCB EEPROM error (Operation 3 / Timer 2)
35 - Manual auto switch error (Operation 3 / Timer 5)

3A - Indoor unit communication circuit (wired RC) error (Operation 3 / Timer 10)
41 - Inlet (room) air temperature sensor error (Operation 4 / Timer 1)
42 - Indoor heat exchanger middle temperature sensor error (Operation 4 / Timer 2)
51 - Indoor unit fan motor error (Operation 5 / Timer 1)
52 - Indoor EEV error (Operation 5 / Timer 2)
53 - Drain pump error (Operation 5 / Timer 3)
57 - Damper error (Operation 5 / Timer 7)
58 - Intake grille error (Operation 5 / Timer 8)
5U - Indoor unit error (Operation 5 / Timer 15)
62 - Outdoor PCB / communication error (Operation 6 / Timer 2)
63 - Inverter error (Operation 6 / Timer 3)
64 - Active filter / PFC circuit error (Operation 6 / Timer 4)
65 - Trip terminal 'L' error (Operation 6 / Timer 5)
6A - Display PCB / communication error (Operation 6 / Timer 10)
71 - Outdoor discharge temperature sensor error (Operation 7 / Timer 1)
72 - Compressor temperature sensor error (Operation 7 / Timer 2)
73 - Outdoor heat exchanger liquid temperature sensor error (Operation 7 / Timer 3)
74 - Outdoor ambient temperature sensor error (Operation 7 / Timer 4)
75 - Outdoor suction temperature sensor error (Operation 7 / Timer 5)
76 - 2-way / 3-way valve temperature sensor error (Operation 7 / Timer 6)
77 - Outdoor heatsink temperature sensor error (Operation 7 / Timer 7)
82 - Sub-cool heat exchanger inlet/outlet sensor error (Operation 8 / Timer 2)
83 - Outdoor liquid pipe temperature sensor error (Operation 8 / Timer 3)
84 - Outdoor current sensor error (Operation 8 / Timer 4)
86 - High/low pressure sensor or switch error (Operation 8 / Timer 6)
94 - Outdoor current trip detection (Operation 9 / Timer 4)
95 - Compressor rotor location detection error (Operation 9 / Timer 5)
97 - Outdoor fan motor error (Operation 9 / Timer 7)
98 - Outdoor fan motor 2 error (Operation 9 / Timer 8)
99 - 4-way valve error (Operation 9 / Timer 9)
9A - Coil (expansion valve) error (Operation 9 / Timer 10)
9U - Outdoor unit error (Operation 9 / Timer 15)
A1 - Outdoor abnormal discharge temperature (Operation 10 / Timer 1)
A3 - Abnormal compressor temperature (Operation 10 / Timer 3)
A4 - High pressure error (Operation 10 / Timer 4)
A5 - Low pressure error (Operation 10 / Timer 5)
J1 - VRF branch box error (Operation 13 / Timer 1)
J2 - Multi branch box error (Operation 13 / Timer 2)

PANASONIC

Inverter split & ducted (CS / CU / S- / U- series)

Models: CS-, CU-, CS-Z, CS-RZ, CS-XZ, CS-XU, CS-NZ, CS-PU, CS-TZ, CS-MZ, CU-Z, CU-RZ, CU-XZ, CS-E, CU-E, S-, U-, CZ-RTC, Aero, Ecoi
How to read: Point the remote at the unit and press and hold CHECK (use a pin) for 5 s until '--' shows. Press TIMER/TEMP updown to step through codes; when the stored code is reached the indoor unit beeps continuously (and the power lamp lights). Press CHECK again to exit. Codes can also be read in the Panasonic Comfort Cloud app.

H00 - No memory of failure
H11 - Indoor/outdoor abnormal communication
H12 - Indoor unit capacity unmatched
H14 - Indoor intake air temperature sensor abnormality
H15 - Outdoor compressor temperature sensor abnormality
H16 - Outdoor current transformer (CT) abnormality
H17 - Outdoor suction temperature sensor abnormality
H19 - Indoor fan motor mechanism locked
H21 - Indoor float switch operation abnormality
H23 - Indoor heat exchanger temperature sensor 1 abnormality
H24 - Indoor heat exchanger temperature sensor 2 abnormality
H25 - Indoor ion device abnormality
H26 - Negative ion abnormality
H27 - Outdoor air temperature sensor abnormality
H28 - Outdoor heat exchanger temperature sensor 1 abnormality
H30 - Outdoor discharge pipe temperature sensor abnormality
H32 - Outdoor heat exchanger temperature sensor 2 abnormality
H33 - Indoor/outdoor wrong connection (mis-wiring / voltage)
H34 - Outdoor heatsink temperature sensor abnormality
H36 - Outdoor gas pipe temperature sensor abnormality
H37 - Outdoor liquid pipe temperature sensor abnormality
H38 - Indoor/outdoor mismatch (brand code)
H39 - Abnormal indoor operating or standby units (multi)
H41 - Abnormal wiring or piping connection (multi)

H50 - Ventilation fan motor locked
H51 - Ventilation fan motor locked
H52 - Left-right limit switch fixing abnormality
H58 - Indoor gas sensor abnormality
H59 - ECO sensor abnormality
H64 - Outdoor high pressure sensor abnormality
H67 - nanoe abnormality
H70 - Light sensor abnormality
H71 - DC cooling fan inside control board abnormality
H79 - Wireless LAN module write error
H85 - Indoor–wireless LAN module communication abnormality
H97 - Outdoor fan motor mechanism locked
H98 - Indoor high pressure protection (heating)
H99 - Indoor freeze protection (cooling)
F11 - 4-way valve switching abnormality
F16 - Total running current protection
F17 - Indoor standby units freezing abnormality (multi)
F18 - Dry circuit blocked
F87 - Control box overheating protection
F90 - PFC circuit protection / compressor microcomputer communication
F91 - Refrigeration cycle abnormality (low gas / blockage)
F93 - Compressor abnormal revolution
F94 - Compressor discharge pressure overshoot protection
F95 - Outdoor cooling high pressure protection
F96 - Power transistor (IPM) module overheating protection
F97 - Compressor overheating protection
F98 - Total running current protection
F99 - Outdoor DC peak detection

SAMSUNG

Residential & light commercial split (Wind-Free, AR series, ducted, cassette)

Models: AR, AJ, AC, AM, AE, WindFree, Wind-Free, AR09, AR12, AR18, AR24, AC071, AC100, AC140, MWR-, MWR-WE
How to read: Codes display on the indoor unit (blinking digits) or wired controller. Some displays show an abbreviated form (e.g. C1 21 / 'E1 21' for E121) depending on the model. Outdoor PCB LEDs/7-segment also show the code.

E101 - Communication error indoor–outdoor (no communication for 1 min)
E102 - Communication error indoor–outdoor (after tracking)
E108 - Duplicate communication address
E121 - Indoor room temperature sensor error (open/short)
E122 - Indoor heat exchanger (EVA in) sensor error
E123 - Indoor heat exchanger (EVA out) sensor error
E128 - Indoor EVA in sensor detached
E129 - Indoor EVA out sensor detached
E151 - Indoor EEV open error
E153 - Float switch activated (drain)
E154 - Indoor fan error
E162 - Indoor EEPROM error
E163 - Indoor EEPROM option error
E186 - Indoor MPI / Wi-Fi module communication error
E201 - Communication error — number of indoor units mismatch / after tracking
E202 - Communication timeout (indoor–outdoor)
E203 - Communication timeout between inverter micom and main micom
E221 - Outdoor temperature sensor error
E231 - Condenser (COND) temperature sensor error
E251 - Discharge temperature sensor error
E320 - OLP (compressor top) temperature sensor error
E403 - Freeze protection (cooling)
E404 - Overload protection (heating)
E416 - Discharge temperature too high
E422 - Outdoor EEV blocked / closed self-diagnosis error
E425 - Phase reversal / missing phase
E440 - Heating operation prohibited (outdoor temperature)
E441 - Cooling operation prohibited (outdoor temperature)
E458 - Outdoor fan error
E461 - Compressor start failure
E462 - Total current / PFC overcurrent error
E463 - OLP (compressor top) overheat
E464 - IPM overcurrent
E465 - Compressor overload error
E466 - DC link over/under voltage
E467 - Compressor rotation error / compressor wire missing

E468 - Current sensor error
E469 - DC link voltage sensor error
E470 - Outdoor EEPROM error
E471 - Outdoor EEPROM OTP error
E474 - IPM / heatsink temperature sensor error
E483 - Hardware DC link overvoltage
E484 - PFC overload
E485 - Input current sensor error
E488 - AC input voltage sensor error
E500 - Heatsink over-temperature
E554 - Gas leak detected (refrigerant shortage)

DVM S VRF & CAC commercial (ducted, cassette, ERV) — additional codes

Models: AM, AM080, AM100, AM120, AM160, AM200, DVM, DVM S, DVM S2, DVM Eco, CAC, ERV, MIM-, MWR-WE13, MWR-WW
How to read: Codes show on the wired controller and outdoor 7-segment display. DVM shows E for codes 101–700. Some indoor display panels split the code (e.g. 'E1' then '21'). All residential codes in the Samsung split series also apply; these are additional DVM/CAC codes.

E108 - Duplicate communication address
E131 - Indoor heater sensor error
E151 - Indoor EEV open failure
E152 - Indoor EEV close failure
E323 - Suction sensor 2 error (open/short)
E346 - Outdoor fan 2 operation failure
E347 - Outdoor fan 2 motor wire not connected
E348 - Outdoor fan 2 lock
E407 - Compressor down — high pressure protection control
E410 - Compressor down — low pressure protection control
E428 - Start suspended — abnormal compression ratio
E455 - Outdoor fan 1 IPM overheat

LG

Split, ducted, cassette & multi (Dual Inverter, ARTCOOL, Multi V S)

Models: S3, S4, WH, WS, H09, H12, H18, H24, B18, B24, AMNW, ABNW, CT, UU, UL, ZBNW, PREMTB, ArtCool, ARTCOOL, Dual Inverter, Multi V
How to read: Codes show on the indoor display or wired controller as CH## (shown as e.g. 'CH' then '05' alternately). On some displays the format is C# / E# / F#. Without a display, the indoor LED blinks the code (e.g. 5 blinks = CH05). Outdoor PCB LEDs blink 2-digit codes (tens then units).

CH01 - Indoor room air (intake) sensor open/short
CH02 - Indoor pipe (inlet) sensor open/short
CH03 - Wired remote controller communication error
CH04 - Drain pump / float switch error
CH05 - Indoor–outdoor communication error
CH06 - Indoor pipe (outlet) sensor open/short
CH07 - Different operating modes selected (multi)
CH09 - Indoor EEPROM error
CH10 - Indoor BLDC fan motor lock
CH21 - DC peak / IPM fault (compressor overcurrent)
CH22 - Input current over (CT2 max current)
CH23 - DC link low voltage
CH24 - High pressure switch / pressure abnormality
CH25 - AC input voltage abnormal (over/under)
CH26 - DC compressor position / start error
CH27 - PFC fault (AC input instant overcurrent)
CH29 - Compressor phase overcurrent
CH32 - Inverter compressor discharge temperature high
CH34 - High pressure protection
CH35 - Low pressure protection
CH38 - Low refrigerant protection
CH40 - Current transformer (CT) sensor error
CH41 - Discharge pipe sensor open/short
CH44 - Outdoor air sensor open/short
CH45 - Outdoor coil (condenser middle) sensor open/short
CH46 - Suction pipe sensor open/short
CH48 - Condenser outlet pipe sensor open/short
CH51 - Over-capacity — indoor units exceed outdoor capacity
CH53 - Communication error (detected by outdoor unit)
CH54 - Open phase / reverse phase (3 phase)
CH60 - Outdoor EEPROM error
CH61 - Condenser pipe high temperature (outdoor overheat in cooling / indoor in heating)
CH62 - Heatsink high temperature

CH65 - Heatsink sensor open/short (On Multi V the manual also lists outdoor liquid pipe sensor — check both)
CH67 - Outdoor BLDC fan motor lock
CH73 - Input instant overcurrent (peak)

TOSHIBA

Commercial & ducted RAV (wired RB-RBC) — check codes

Models: RAV-, RAV-GM, RAV-RM, RAV-SM, RAV-SP, RAV-GP, RBC-, Digital Inverter, Super Digital Inverter
How to read: Check codes show on the wired controller (RBC-AMS/ASCU). Press the CHECK/TEST (or hold ON/OFF + down) to view history. Outdoor 7-segment display shows the same code family. Wireless sensor units flash Operation/Timer/Ready lamps — see service manual table.

E01 - No header remote controller / remote communication error
E02 - Remote controller send error
E03 - Indoor–remote periodic communication error
E04 - Indoor–outdoor serial communication error
E08 - Duplicated indoor address
E09 - Duplicated header remote controller
E10 - Communication error between indoor MCUs
E18 - Header–follower indoor communication error
F01 - Indoor heat exchanger sensor (TCJ) error
F02 - Indoor heat exchanger sensor (TC) error
F04 - Outdoor discharge sensor (TD) error
F06 - Outdoor heat exchanger sensor (TE/TS) error
F07 - Outdoor TL sensor error
F08 - Outdoor air sensor (TO) error
F10 - Indoor room sensor (TA) error
F12 - Suction sensor (TS) error
F13 - Heatsink sensor (TH) error
F15 - Outdoor temperature sensor misplaced/miswired (TE/TS)
F29 - Indoor EEPROM / other indoor PCB error
F31 - Outdoor EEPROM error
H01 - Compressor breakdown
H02 - Compressor lock
H03 - Current detection circuit error
H04 - Case thermostat operation
L03 - Duplicated header indoor units (group)
L07 - Group line connected to individual indoor unit
L08 - Indoor group address not set
L09 - Indoor capacity not set
L10 - Outdoor capacity not set (service PCB)
L29 - Other outdoor unit error
L30 - External interlock / abnormal stop input
P01 - Indoor fan motor error (AC fan)
P03 - Discharge temperature error
P04 - High pressure switch operated
P05 - Power supply error / open phase
P07 - Heatsink overheat
P10 - Indoor water overflow (drain)
P12 - Indoor DC fan motor error
P15 - Gas leak detection
P19 - 4-way valve error
P20 - High pressure protection
P22 - Outdoor fan error
P26 - Inverter G-Tr (IGBT) short protection
P29 - Compressor position detection circuit error
P31 - Other indoor unit error (group follower)

Wall-mounted RAS split — 2-digit self-diagnosis codes

Models: RAS-, RAS-B, RAS-M, RAS-N, RAS-G, RAS-J, RAS-E2, Seiya, Shorai, Daiseikai, Haori, 42NQV, NQV
How to read: Point the remote at the unit and press CHECK (pin) — '00' shows. Press TIMER up repeatedly; the unit beeps (and lamps flash) when the stored code is reached. Press CHECK to exit.

00 - Normal
04 - Return serial signal not received — interconnect wiring, compressor thermo, gas shortage; check 25A/3.15A inverter fuses
05 - Indoor–outdoor operation signal error
07 - Return serial signal stopped mid-operation — compressor thermo operated, gas shortage/leak or momentary power failure
08 - 4-way valve switching error
09 - Other refrigeration cycle error
0B - Indoor water overflow detected
0C - Room temperature sensor (TA) error
0D - Indoor heat exchanger sensor (TC) error
0F - Indoor heat exchanger sensor (TCJ) error

11 - Indoor fan motor error
12 - Other indoor PCB error
14 - Inverter IGBT / G-Tr short circuit
16 - Compressor position detection error
17 - Current detection circuit error
18 - Outdoor heat exchanger (TE) or suction (TS) sensor error
19 - Discharge temperature sensor (TD) error
1A - Outdoor fan motor error
1B - Outdoor air temperature sensor (TO) error
1C - Compressor drive output error (lock, missing phase) / indoor–outdoor miswiring — check PMV (Check interconnect wiring order first)
1D - Compressor lock (not rotating)
1E - Discharge temperature exceeded 117 °C — check TD sensor, gas leak, PMV
1F - Compressor breakdown
21 - High pressure switch operated

SMMS / MiNi-SMMS VRF — system check codes

Models: MMY-, MCY-, MMD-, MMU-, MMK-, MMF-, SMMS, SMMS-e, SMMS-i, SMMS-u, MiNi-SMMS
How to read: Codes show on the indoor wired remote and on the outdoor 7-segment display (set SW01=1, SW02=1, SW03=1). The 7-segment alternates the check code (3 s) with an auxiliary code (1 s) — e.g. compressor number, unit address or sensor number. The RAV check codes (E01–E04, F-, H01–H03, P-) also apply to indoor units on these systems.

E06 - Decrease in number of indoor units (indoor unit that was communicating stopped responding) (Aux: number of indoor units received normally)
E07 - Indoor/outdoor communication circuit error (outdoor cannot transmit to indoor units)
E08 - Duplicated indoor unit addresses
E12 - Automatic addressing start error (Aux 01: indoor–outdoor; 02: outdoor–outdoor)
E15 - No indoor unit found during automatic addressing
E16 - Indoor capacity over (>135% of outdoor) / too many units connected (Aux 00: capacity over; 01+: number connected)
E19 - Header outdoor unit quantity error (Aux 00: no header; 02: two or more headers)
E20 - Other refrigerant line connected during automatic addressing
E31 - IPDU (inverter board) communication error (Aux: IPDU quantity information)
F23 - Low pressure sensor (Ps) error — output voltage zero
H05 - Discharge sensor TD1 miswiring / not attached
H06 - Low pressure protective operation
H07 - Oil level down detection protection
H08 - Oil level detection sensor (TK) trouble (Aux 01–04: TK1–TK4)
H16 - Oil level detection circuit trouble
H25 - Discharge sensor TD3 miswiring
P20 - High pressure protective operation

ACTRONAIR

Serene, Aurora, Cascade wall/cassette & Ultra Slim ducted (R-410A, legacy codes)

Models: WRC, WRE, SWB, URC, CRE, LRE, Serene, Aurora, Cascade, Ultra Slim, Ultraslim
How to read: Code shows on the indoor display. Units without a display flash the Operation lamp (indoor faults, Timer OFF) or Operation lamp with Timer ON (outdoor sensor faults) — count the flashes. Timer-lamp-only flashes indicate P-codes (outdoor protection).

E0 - Indoor EEPROM parameter error (Operation lamp 1 flash)
E1 - Indoor–outdoor communication error (Operation lamp 2 flashes)
E2 - Zero-crossing signal detection error (Operation lamp 3 flashes)
E3 - Indoor fan speed out of control (Operation lamp 4 flashes)
E4 - Indoor room temperature sensor (T1) open/short (Operation lamp 5 flashes)
E5 - Evaporator coil sensor (T2) open/short (Operation lamp 6 flashes)
E7 - Indoor PCB–display board communication error
EC - Refrigerant leak detected (T2 not dropping in cooling) (Operation lamp 7 flashes)
EE - Water-level alarm (cassette/ducted) (Operation lamp 8 flashes)
F0 - Overload current protection (Operation 1 flash, Timer ON)
F1 - Outdoor ambient sensor (T4) open/short (Operation 2, Timer ON)
F2 - Condenser coil sensor (T3) open/short (Operation 3, Timer ON)
F3 - Discharge temperature sensor (T5) open/short (Operation 4, Timer ON)
F4 - Outdoor EEPROM parameter error (Operation 5, Timer ON)
F5 - Outdoor fan speed out of control (Operation 6, Timer ON)
F6 - Evaporator outlet sensor (T2B) open/short (Operation 7, Timer ON)
P0 - IPM malfunction or IGBT overcurrent protection (Timer lamp 1 flash)
P1 - Over-voltage or under-voltage protection (Timer lamp 2 flashes)
P2 - Compressor top / IPM high temperature protection (Timer lamp 3 flashes)
P3 - Low outdoor ambient temperature protection (Timer lamp 4 flashes)
P4 - Inverter compressor drive error (Timer lamp 5 flashes)
P6 - Compressor voltage protection / high-low pressure (Timer lamp 7 flashes)
CP - Remote on/off terminal open circuit
E8 - Master–slave communication error (twin) (Operation 9 flashes)

E9 - Other indoor unit malfunction (twin) (Operation 10 flashes)
P7 - Outdoor IGBT temperature sensor faulty (Timer 8 flashes)
J0 - Evaporator high temperature protection
J1 - Condenser high temperature protection
J2 - High discharge temperature protection
J3 - PFC module protection
J4 - Communication error outdoor main chip–compressor drive chip
J5 - High pressure protection
J6 - Low pressure protection
J8 - AC input voltage protection

Cascade R-32 & Ultra Slim 2 R-32 (URC/CRC/LRC)

Models: CRC, LRC, URC, Ultra Slim 2, Cascade R32
How to read: Newer R-32 units show 4-character codes (EH/EL/EC/PC). Many display briefly as 2 characters then 2 more, or show via the remote: press LED/Display 4 times (or 'Self Clean'/'Turbo' combinations on some remotes) to show the full code. The legacy 2-character equivalents are shown on older models.

EH00 - Indoor EEPROM parameter error (Operation 1 flash)
EH0A - Indoor EEPROM parameter error
EL01 - Indoor–outdoor communication error (Operation 2 flashes)
EH02 - Zero-crossing signal detection error
EH03 - Indoor fan speed outside normal range (Operation 4 flashes)
EH60 - Indoor room temperature sensor (T1) open/short (Operation 6 flashes)
EH61 - Evaporator coil sensor (T2) open/short (Operation 6 flashes)
EL0C - Refrigerant leak detection (Operation 8 flashes)
EH0b - Communication error between indoor main board and display (Operation 9 flashes)
EH0E - Water-level alarm (Operation 13 flashes)
EC51 - Outdoor EEPROM parameter error
EC52 - Condenser coil sensor (T3) open/short
EC53 - Outdoor ambient sensor (T4) open/short
EC54 - Discharge sensor (TP) open/short
EC56 - Evaporator outlet sensor (T2B) open/short (multi)
EC07 - Outdoor fan speed outside normal range
EC0d - Outdoor unit malfunction
PC00 - IPM malfunction or IGBT overcurrent protection
PC01 - Over-voltage or under-voltage protection
PC02 - Compressor top / IPM high temperature protection
PC03 - High or low pressure protection
PC04 - Inverter compressor drive error
PC08 - Outdoor current overload protection
PC40 - Communication error between outdoor main chip and compressor driven chip
LC06 - Low ambient / anti-cold protection

Classic split ducted (SRE/SRA/SRG) & ESP Digital (SRD/SRV) — LM7/LM24 controllers

Models: SRE, SRA, SRG, SRD, SRV, LM7, LM24, ESP Digital, Classic, ESP Plus, ESP Ultima
How to read: Fault shows on the LM7/LM24 wall controller as E#, and as a digit on the outdoor CPU display. 24-hr controllers may flash a single digit or the Heat & Cool indicators together.

E2 - Indoor coil-out sensor fault (open/short) (ESP Digital)
E3 - Room sensor fault (open/short)
E4 - Indoor coil-in sensor fault (open/short)
E5 - Indoor–outdoor communication error
E6 - Discharge high temperature (likely low refrigerant) (Outdoor CPU '6')
E7 - Outdoor coil sensor fault (open/short) (Outdoor CPU '7')
E8 - Outdoor discharge sensor fault (Outdoor CPU '8')
E9 - High or low pressure / phase error (Outdoor CPU '9')
0 - Cooling mode (Outdoor CPU)
1 - Heating mode (Outdoor CPU)
2 - Heating — compressor run over 20 min (Outdoor CPU)
3 - Heating — defrost (Outdoor CPU)
4 - Overheat or anti-freeze protection (low capacity) (Outdoor CPU)
5 - Heating — indoor coil pre-heat after defrost (Outdoor CPU; Heat blink every 8 s)

Classic 2, Advance, Aires & Variable Commercial (NEO / LR7 / LC7 controllers, 2-digit E codes)

Models: CRA, CCA, EVA, EAA, EFA, CRV, EVV, EFV, CRS, PRV, PKV, NEO, LR7, LC7, Advance, Aires, Classic 2
How to read: Fault shows on the NEO / LR7-1 / LC7-2 controller and the outdoor 7-segment display. Some faults (E09/E11) only show on the wall controller after several occurrences — check the outdoor display/history.

E01 - Indoor fan RPM feedback error
E02 - Indoor coil sensor error
E03 - Indoor room temperature sensor error
E04 - Indoor coil-in temperature sensor error
E06 - High discharge temperature (>120 °C Advance / >138 °C Aires)
E07 - Outdoor coil temperature sensor error

E08 - Discharge temperature sensor error
E09 - LP switch tripped (or phase sequence relay)
E10 - LP sensor error
E11 - HP switch tripped
E12 - HP sensor error
E13 - Other drive errors (check VSD)
E15 - ODU–VSD communication error
E18 - Suction temperature sensor error
E22 - Ambient temperature sensor error
E26 - VSD supply over-current
E27 - VSD supply over-voltage
E28 - VSD temperature high
E29 - VSD low supply voltage
E30 - VSD trip lock
E41 - VSD DC link voltage low
E42 - Envelope protection — extreme low evaporating pressure
E43 - Envelope protection — high compression ratio
E44 - Envelope protection — high condensing pressure
E45 - Envelope protection — low compression ratio
E47 - Compressor torque limit error
E50 - Outdoor board configuration error
E51 - Indoor–outdoor unit communication error
E52 - Indoor unit–wall controller communication error
E53 - Indoor–master control communication error
E54 - No Modbus packets from indoor fan (30 s)
E55 - BMS–ODU communication error
E56 - No master wall controller detected
E60 - VSD compressor phase over-current
E61 - VSD compressor loss of phase
E62 - VSD DC bus over-voltage
E63 - VSD DC bus under-voltage
E64 - VSD compressor loss of rotor
E66 - AC voltage imbalance / input loss of phase
E67 - Inverter de-saturation
E69 - VSD PFC-IGBT over-temperature
E70 - VSD lost rotor position
E71 - VSD motor temperature sensor error
E72 - VSD pre-charge relay open
E74 - VSD IGBT over-current / choke wiring
E79 - IPM desat / compressor hardware over-current
E80 - Motor temperature high
E81 - Drive board temperature high
E82 - Power module temperature high
E84 - DSP–PFC communication error
E85 - Comms–DSP communication error
E86 - Compressor phase current imbalance
E88 - Micro electronics / drive EEPROM error
E89 - Motor over-speed
E90 - Compressor model configuration error
E99 - Compressor overload / other malfunction
E104 - Fault limit lockout
dEF - Defrost
oiLr - Oil return operation
dr-1 - Demand response mode 1 (dr-2, dr-3 similar)
ohP - Derating — overheat protection
dtP - Derating — discharge temperature protection
cPP - Derating — condenser pressure protection
hSP - Derating — high suction pressure protection

ESP Platinum & ESP QUE Platinum (LM7/LM24/LM-ZC, QUE controllers)

Models: CRV, ERV, ARV, FRV, ERM, CRQ, ERQ, FRQ, QUE, Que, LM-ZC, ESP Platinum, Platinum
How to read: Fault shows on the wall controller (QUE: Tech Menu -> fault history) and the outdoor 7-segment display. 'boot' shows for 30 s at power-up. Faults may not appear on the wall controller until they occur several times.

E3 - Room sensor error
E4 - Indoor coil inlet sensor error
E5 - Indoor–outdoor communication error
E6 - High discharge temperature (>138 °C)
E7 - Outdoor coil sensor error
E8 - Outdoor discharge sensor error
E9 - LP tripped
E10 - LP sensor error

E11 - HP tripped
E12 - HP sensor error
E14 - Condenser pressure low
E15 - VSD communication error
E17 - Peripherals error
E18 - EEV module suction temperature sensor open
E19 - EEV module suction temperature sensor short
E22 - Ambient sensor failure (safe mode)
E23 - EEV board communication failure (safe mode)
E25 - Ambient temperature not updated
E26 - VSD over-current
E27 - VSD over-voltage
E28 - VSD temperature high
E29 - VSD low supply voltage
E30 - VSD trip lock
E31 - VSD internal error
E32 - Envelope protection (HP/LP via VSD pressure sensors)
E33 - Envelope protection (HP/LP via VSD pressure sensors)
E34 - Derating — high VSD temperature
E35 - Derating — low suction pressure
E36 - Derating — low condenser pressure
E37 - Derating — high condenser pressure (also coil pre-heat after defrost)
E38 - Derating — output power limit
E39 - Defrost timed out
E40 - VSD restarting too frequently
E41 - VSD DC link voltage low

Commercial split (SCA/SCG) & package (PCA/PCG) — C7 controller

Models: SCA, SCG, PCA, PCG, C7
How to read: Fault shows on the C7 wall controller and outdoor CPU display.
E5 - Outdoor–indoor communication error
E7 - Outdoor coil sensor open/short circuit (Outdoor CPU 7 = open, 8 = short)
E9 - High–low pressure fault (Outdoor CPU 9)

CARRIER

QHC, 38QHF, QHF Aspire & ductless (Midea-built) — 2-character codes

Models: QHC, 42QHC, 38QHC, 38QHF, QHF, Aspire, 2-38QHF092, 40MAQ, 38MAQ, 40MBF, 40MBD, 40MBQ, 40MBC, 40QSM, 38QUA, 40QUA, 38MPRAQ, 42Q, 38Q, 42QHC, 42QHB, 38QHC, 40VC, 40MBAB, 40GVM, 38GVM, Carrier
How to read: Code shows on the indoor display. Units without a display flash the Operation lamp (indoor faults, Timer OFF) or Operation lamp with Timer ON (outdoor sensor faults) — count the flashes. Timer-lamp-only flashes indicate P-codes (outdoor protection). Carrier ductless units share the Midea control platform, so codes match the Midea family. On the QHF Aspire sheet, F0 (current overload) is listed as 'E0 with timer lamp on'.
E0 - Indoor EEPROM parameter error (Operation lamp 1 flash)
E1 - Indoor–outdoor communication error (Operation lamp 2 flashes · TCS field note: check indoor and outdoor boards)
E2 - Zero-crossing signal detection error (Operation lamp 3 flashes)
E3 - Indoor fan speed out of control (Operation lamp 4 flashes · TCS field note: indoor board and fan motor)
E4 - Indoor room temperature sensor (T1) open/short (Operation lamp 5 flashes)
E5 - Evaporator coil sensor (T2) open/short (Operation lamp 6 flashes)
E7 - Indoor PCB–display board communication error
EC - Refrigerant leak detected (T2 not dropping in cooling) (Operation lamp 7 flashes · TCS field note: unit has no refrigerant)
EE - Water-level alarm (cassette/ducted) (Operation lamp 8 flashes)
F0 - Overload current protection (Operation 1 flash, Timer ON)
F1 - Outdoor ambient sensor (T4) open/short (Operation 2, Timer ON)
F2 - Condenser coil sensor (T3) open/short (Operation 3, Timer ON)
F3 - Discharge temperature sensor (T5) open/short (Operation 4, Timer ON)
F4 - Outdoor EEPROM parameter error (Operation 5, Timer ON · TCS field note: outdoor main and inverter board)
F5 - Outdoor fan speed out of control (Operation 6, Timer ON)
F6 - Evaporator outlet sensor (T2B) open/short (Operation 7, Timer ON)
P0 - IPM malfunction or IGBT overcurrent protection (Timer lamp 1 flash · TCS field note: inverter board)
P1 - Over-voltage or under-voltage protection (Timer lamp 2 flashes)
P2 - Compressor top / IPM high temperature protection (Timer lamp 3 flashes)
P3 - Low outdoor ambient temperature protection (Timer lamp 4 flashes)
P4 - Inverter compressor drive error (Timer lamp 5 flashes · TCS field note: inverter board or compressor)
P6 - Compressor voltage protection / high-low pressure (Timer lamp 7 flashes)
CP - Remote on/off terminal open circuit
F8 - Lifting panel malfunction (40MBF floor/ceiling) (Operation 9 flashes, Timer ON)
F9 - Lifting panel not closed (40MBF) (Operation 10 flashes, Timer ON)

Elite inverter splits (42LUVH...N, ...N-1, ...K / 38LUVH)

Models: 42LUVH, 38LUVH, 42-38LUVH, LUVH, Elite, 42LUVH025N, 42LUVH035N, 42LUVH045N, 42LUVH055N, 42LUVH065N, 42LUVH075N, 42LUVH060K, 42LUVH070K, 42LUVH080K
How to read: Code shows on the indoor display. Models without a display (e.g. 42LUVH075N, 42LUVH080K) flash the Defrost/Timer/Auto/Operation lamps instead — see the Carrier sheet for the lamp pattern. E4 and P3 are reserved (not used). NOTE: E5, E6, E7 and P2 mean different things here than on QHC/Midea units.

- **E0** - EEPROM parameter error (Indoor PCB — replace if persistent)
- **E1** - Indoor/outdoor communication protection (TCS field note: check indoor and outdoor boards)
- **E2** - Zero-crossing signal error
- **E3** - Indoor fan speed out of control (TCS field note: indoor board and fan motor)
- **E5** - Outdoor temperature sensor open/short (on -1 models: or outdoor EEPROM error)
- **E6** - Room or evaporator temperature sensor open/short
- **E7** - Outdoor fan protection / outdoor fan speed out of control
- **P0** - IPM module protection / IGBT over-current (TCS field note: inverter board)
- **P1** - Over-voltage or under-voltage protection
- **P2** - Compressor top temperature protection
- **P4** - Inverter compressor drive error (TCS field note: inverter board or compressor)

TSV cassette & SHV inverter ducted indoor units — display codes

Models: TSV, SHV, SHV Inverter Ducted, TSV Cassette, SHDV, SHDS
How to read: Indoor codes show on the digital display or as Running/Timer/Defrost/Alarm lamp flashes. Outdoor codes show on the outdoor PCB 2-digit display — see the TSV/SHV outdoor series.

- **E1** - Indoor/outdoor communication malfunction (Timer lamp flashes)
- **E2** - Room temperature sensor (T1) open/short (Running lamp flashes)
- **E3** - Indoor coil middle sensor (T2) open/short (Running lamp flashes)
- **E4** - Indoor coil outlet sensor (T2B) open/short (Running lamp flashes)
- **EE** - Water-level alarm (drain) (Alarm lamp flashes)
- **E7** - Indoor EEPROM malfunction (Running lamp slow flash)
- **Ed** - Outdoor unit malfunction — read outdoor display (Alarm lamp slow flash)
- **E8** - Indoor fan speed out of control (Running & Timer lamps flash)
- **F0** - Communication error between main PCB and up-down panel PCB
- **F1** - Up-down (lifting) panel malfunction
- **F3** - Master/slave unit communication malfunction (twin)
- **F4** - Other malfunction of master or slave unit (twin)

TSV cassette & SHV inverter ducted outdoor units — PCB display codes

Models: TSV, SHV, SHV Inverter Ducted, TSV Cassette
How to read: Read on the 2-digit display on the outdoor main PCB. T1 room, T2 coil middle, T2B coil outlet, T3 condenser coil, T4 outdoor ambient, T5 discharge.

- **E0** - Outdoor EEPROM malfunction
- **E2** - Indoor/outdoor communication error
- **E3** - Communication error between IPM board and outdoor main board
- **E4** - Outdoor T3 or T4 temperature sensor open/short
- **E5** - Compressor voltage protection
- **E6** - PFC module protection (models with PFC board)
- **E8** - Outdoor fan speed out of control
- **P0** - Compressor top temperature protection
- **P1** - High pressure protection (model specific)
- **P2** - Low pressure protection (model specific)
- **P3** - Compressor current protection
- **P4** - Compressor discharge temperature protection
- **P5** - Condenser high temperature protection
- **P6** - IPM module protection
- **P7** - Evaporator high temperature protection

42NQV & 42CMD multi (Toshiba-built) — 2-digit check codes

Models: 42NQV, NQV, 42NQV025, 42NQV035, 42NQV045, 42NQV050, 42NQV060, 42CMD, 38CMS, Carrier Multi
How to read: Point the remote at the unit and press CHECK (pin) — '00' shows. Press TIMER up repeatedly; the unit beeps (and lamps flash) when the stored code is reached. Press CHECK to exit. Indoor lamp block: 00 = indoor PCB (Operation 5 Hz), 01 = connecting cable/serial signal (Operation+Timer), 02 = outdoor PCB (Operation+Filter), 03 = others incl. compressor (all three). Press CLR in check mode to clear stored codes ('7F').

- **00** - Normal
- **04** - Return serial signal not received — interconnect wiring, compressor thermo, gas shortage; check 25A/3.15A inverter fuses
- **05** - Indoor–outdoor operation signal error
- **07** - Return serial signal stopped mid-operation — compressor thermo operated, gas shortage/leak or momentary power failure
- **08** - 4-way valve switching error
- **09** - Other refrigeration cycle error
- **0B** - Indoor water overflow detected
- **0C** - Room temperature sensor (TA) error
- **0D** - Indoor heat exchanger sensor (TC) error
- **0F** - Indoor heat exchanger sensor (TCJ) error

11 - Indoor fan motor error
12 - Other indoor PCB error
14 - Inverter IGBT / G-Tr short circuit
16 - Compressor position detection error
17 - Current detection circuit error
18 - Outdoor heat exchanger (TE) or suction (TS) sensor error
19 - Discharge temperature sensor (TD) error
1A - Outdoor fan motor error
1B - Outdoor air temperature sensor (TO) error
1C - Compressor drive output error (lock, missing phase) / indoor–outdoor miswiring — check PMV (Check interconnect wiring order first)
1D - Compressor lock (not rotating)
1E - Discharge temperature exceeded 117 °C — check TD sensor, gas leak, PMV
1F - Compressor breakdown
21 - High pressure switch operated

VYX Xpower outdoor (38VYX080/110/130) — cycle PCB LED codes

Models: VYX080, VYX110, VYX130, Xpower
How to read: Set SW800 bits 1–4 OFF on the outdoor cycle control PCB and read LEDs D800–D803; the code number is shown below. Indoor units show Toshiba RAV-style check codes (E04, F04, P03...) on the wired remote — search the Toshiba RAV series. VYX050 is diagnosed from the indoor unit only.

1 - Heat exchanger sensor (TE) error
2 - Suction sensor (TS) error
3 - Hot gas discharge sensor (TD) error
4 - High pressure protection error
5 - Outdoor air temperature sensor (TO) error
6 - Outdoor DC fan motor error
7 - Communication error between IPDU (abnormal stop)
8 - High pressure release operation
9 - Discharge temperature error — hot gas too high
10 - EEPROM error
11 - Communication error between IPDU (no abnormal stop)
12 - G-Tr short-circuit protection
13 - Detect circuit error
14 - Current sensor error
15 - Compressor lock error
16 - Compressor breakdown

38VYX030/040, P series & G series (LG-built) — indoor green LED rank codes

Models: 38VYX030, 38VYX040, P series, G series, Carrier P, Carrier G
How to read: The indoor green LED flashes a pattern, pauses 3 s, repeats. Codes are the number of flashes (e.g. 7 = seven flashes). If more than one error occurs the highest-rank one shows first. Units run in FAN ONLY mode for most of these faults.

9 - Power line feedback (zero-crossing) error (Rank 1)
7 - Indoor/outdoor communication fault (Rank 2)
2 - Room air sensor fault (Rank 3)
3 - Indoor coil sensor fault (Rank 4)
8 - Indoor fan motor fault (Rank 5)
Continuous - Indoor sensor wiring reversed (test mode) (Rank 6)

R-32 ductless (newer models) — 4-character codes

Models: 42QHG, 38QHG, 40MBAB, 38MAR, 40MAR, Carrier R32
How to read: Newer R-32 units show 4-character codes (EH/EL/EC/PC). Many display briefly as 2 characters then 2 more, or show via the remote: press LED/Display 4 times (or 'Self Clean'/'Turbo' combinations on some remotes) to show the full code. The legacy 2-character equivalents are shown on older models.

EH00 - Indoor EEPROM parameter error (Operation 1 flash)
EH0A - Indoor EEPROM parameter error
EL01 - Indoor–outdoor communication error (Operation 2 flashes)
EH02 - Zero-crossing signal detection error
EH03 - Indoor fan speed outside normal range (Operation 4 flashes)
EH60 - Indoor room temperature sensor (T1) open/short (Operation 6 flashes)
EH61 - Evaporator coil sensor (T2) open/short (Operation 6 flashes)
EL0C - Refrigerant leak detection (Operation 8 flashes)
EH0b - Communication error between indoor main board and display (Operation 9 flashes)
EH0E - Water-level alarm (Operation 13 flashes)
EC51 - Outdoor EEPROM parameter error
EC52 - Condenser coil sensor (T3) open/short
EC53 - Outdoor ambient sensor (T4) open/short
EC54 - Discharge sensor (TP) open/short
EC56 - Evaporator outlet sensor (T2B) open/short (multi)
EC07 - Outdoor fan speed outside normal range
EC0d - Outdoor unit malfunction

PC00 - IPM malfunction or IGBT overcurrent protection
PC01 - Over-voltage or under-voltage protection
PC02 - Compressor top / IPM high temperature protection
PC03 - High or low pressure protection
PC04 - Inverter compressor drive error
PC08 - Outdoor current overload protection
PC40 - Communication error between outdoor main chip and compressor driven chip
LC06 - Low ambient / anti-cold protection

VRF indoor units (40VMI / 40VM series) & wired controller

Models: 40VMI, 40VM, 40VMC, 40VMD, 40VMW, 38VMA, 38VR, XCT, Carrier VRF
How to read: Codes show on the indoor display / wired controller. Outdoor (38VMA) codes show on the outdoor PCB digital display — see the 38VMA service manual.

E0 - Heating/cooling mode conflict
E1 - Communication error between indoor and outdoor unit
E2 - Indoor room temperature sensor (T1) error
E4 - Evaporator outlet temperature sensor (T2B) error
E5 - Evaporator temperature sensor (T2A) error
E6 - Indoor DC fan error
E7 - EEPROM error (data storage)
E9 - Communication error between indoor unit and wired controller
Eb - Indoor EEV error
Ed - Outdoor unit error — check outdoor display
EE - Condensate overflow (water level)
FE - No address on first power-up — address the system
UU - MDC in auto system-check mode

MIDEA (& OEM BRANDS)

Midea-platform wall, cassette & ducted splits — legacy codes (Midea, Bosch, Pioneer, MRCOOL, Koppel)

Models: 42Q, 38Q, 42QHC, 42QHB, 38QHC, 40VC, 40MBAB, MSAF, MSMB, MSAG, MS, MOB, MOD, MBT, MTI, Xpower, Midea, Carrier, Pioneer, Bosch Climate
How to read: Code shows on the indoor display. Units without a display flash the Operation lamp (indoor faults, Timer OFF) or Operation lamp with Timer ON (outdoor sensor faults) — count the flashes. Timer-lamp-only flashes indicate P-codes (outdoor protection).

E0 - Indoor EEPROM parameter error (Operation lamp 1 flash)
E1 - Indoor–outdoor communication error (Operation lamp 2 flashes)
E2 - Zero-crossing signal detection error (Operation lamp 3 flashes)
E3 - Indoor fan speed out of control (Operation lamp 4 flashes)
E4 - Indoor room temperature sensor (T1) open/short (Operation lamp 5 flashes)
E5 - Evaporator coil sensor (T2) open/short (Operation lamp 6 flashes)
E7 - Indoor PCB–display board communication error
EC - Refrigerant leak detected (T2 not dropping in cooling) (Operation lamp 7 flashes)
EE - Water-level alarm (cassette/ducted) (Operation lamp 8 flashes)
F0 - Overload current protection (Operation 1 flash, Timer ON)
F1 - Outdoor ambient sensor (T4) open/short (Operation 2, Timer ON)
F2 - Condenser coil sensor (T3) open/short (Operation 3, Timer ON)
F3 - Discharge temperature sensor (T5) open/short (Operation 4, Timer ON)
F4 - Outdoor EEPROM parameter error (Operation 5, Timer ON)
F5 - Outdoor fan speed out of control (Operation 6, Timer ON)
F6 - Evaporator outlet sensor (T2B) open/short (Operation 7, Timer ON)
P0 - IPM malfunction or IGBT overcurrent protection (Timer lamp 1 flash)
P1 - Over-voltage or under-voltage protection (Timer lamp 2 flashes)
P2 - Compressor top / IPM high temperature protection (Timer lamp 3 flashes)
P3 - Low outdoor ambient temperature protection (Timer lamp 4 flashes)
P4 - Inverter compressor drive error (Timer lamp 5 flashes)
P6 - Compressor voltage protection / high-low pressure (Timer lamp 7 flashes)
CP - Remote on/off terminal open circuit

Midea-platform R-32 models — 4-character codes

Models: MSAG, MSCE, MSAFG, 42QHG, 38QHG, Breezeless, Xtreme Save, Carrier R32
How to read: Newer R-32 units show 4-character codes (EH/EL/EC/PC). Many display briefly as 2 characters then 2 more, or show via the remote: press LED/Display 4 times (or 'Self Clean'/'Turbo' combinations on some remotes) to show the full code. The legacy 2-character equivalents are shown on older models.

EH00 - Indoor EEPROM parameter error (Operation 1 flash)
EH0A - Indoor EEPROM parameter error
EL01 - Indoor–outdoor communication error (Operation 2 flashes)
EH02 - Zero-crossing signal detection error
EH03 - Indoor fan speed outside normal range (Operation 4 flashes)

EH60 - Indoor room temperature sensor (T1) open/short (Operation 6 flashes)
EH61 - Evaporator coil sensor (T2) open/short (Operation 6 flashes)
EL0C - Refrigerant leak detection (Operation 8 flashes)
EH0b - Communication error between indoor main board and display (Operation 9 flashes)
EH0E - Water-level alarm (Operation 13 flashes)
EC51 - Outdoor EEPROM parameter error
EC52 - Condenser coil sensor (T3) open/short
EC53 - Outdoor ambient sensor (T4) open/short
EC54 - Discharge sensor (TP) open/short
EC56 - Evaporator outlet sensor (T2B) open/short (multi)
EC07 - Outdoor fan speed outside normal range
EC0d - Outdoor unit malfunction
PC00 - IPM malfunction or IGBT overcurrent protection
PC01 - Over-voltage or under-voltage protection
PC02 - Compressor top / IPM high temperature protection
PC03 - High or low pressure protection
PC04 - Inverter compressor drive error
PC08 - Outdoor current overload protection
PC40 - Communication error between outdoor main chip and compressor driven chip
LC06 - Low ambient / anti-cold protection

KELVINATOR

Kelvinator inverter split (KSV / KSD) — Midea-platform codes

Models: KSV, KSD, KSV26, KSV35, KSV53, KSV62, KSV70, KSV80, KSD25, KSD50, KSD80
How to read: Code shows on the indoor display. Electrolux lists E0, E1, E2, P1, P2, P3, F1, F2, F3 and EC as self-diagnostic codes. If a code persists after switching off for 10 minutes and restarting, the system needs service. Confirm against the Electrolux diagnostic manual for the model (e.g. KSSSI90 / KSSSI113).

E0 - Indoor EEPROM parameter error (Operation lamp 1 flash)
E1 - Indoor–outdoor communication error (Operation lamp 2 flashes)
E2 - Zero-crossing signal detection error (Operation lamp 3 flashes)
E3 - Indoor fan speed out of control (Operation lamp 4 flashes)
E4 - Indoor room temperature sensor (T1) open/short (Operation lamp 5 flashes)
E5 - Evaporator coil sensor (T2) open/short (Operation lamp 6 flashes)
E7 - Indoor PCB–display board communication error
EC - Refrigerant leak detected (T2 not dropping in cooling) (Operation lamp 7 flashes)
EE - Water-level alarm (cassette/ducted) (Operation lamp 8 flashes)
F0 - Overload current protection (Operation 1 flash, Timer ON)
F1 - Outdoor ambient sensor (T4) open/short (Operation 2, Timer ON)
F2 - Condenser coil sensor (T3) open/short (Operation 3, Timer ON)
F3 - Discharge temperature sensor (T5) open/short (Operation 4, Timer ON)
F4 - Outdoor EEPROM parameter error (Operation 5, Timer ON)
F5 - Outdoor fan speed out of control (Operation 6, Timer ON)
F6 - Evaporator outlet sensor (T2B) open/short (Operation 7, Timer ON)
P0 - IPM malfunction or IGBT overcurrent protection (Timer lamp 1 flash)
P1 - Over-voltage or under-voltage protection (Timer lamp 2 flashes)
P2 - Compressor top / IPM high temperature protection (Timer lamp 3 flashes)
P3 - Low outdoor ambient temperature protection (Timer lamp 4 flashes)
P4 - Inverter compressor drive error (Timer lamp 5 flashes)
P6 - Compressor voltage protection / high-low pressure (Timer lamp 7 flashes)
CP - Remote on/off terminal open circuit

GREE

Inverter wall split, U-Match ducted/cassette & Free Match

Models: GWH, GWC, GUD, GKH, GTH, GFH, GU, GMV, Lomo, Pular, Fairy, U-Match, Free Match, Hansol, XK, XE72
How to read: Code shows on the indoor display or wired controller (XK/XE series). Without a display, count RUN/COOL/HEAT LED flashes (see service manual). Some remotes show codes by pressing Light 4 times within 3 s.

E1 - System high pressure protection (RUN LED 1 flash)
E2 - Indoor anti-freeze protection (RUN LED 2 flashes)
E3 - Low pressure / refrigerant shortage protection (RUN LED 3 flashes)
E4 - Compressor discharge high temperature protection (RUN LED 4 flashes)
E5 - AC overcurrent protection (RUN LED 5 flashes)
E6 - Indoor–outdoor communication error (RUN LED 6 flashes)
E7 - Mode conflict (multi)
E8 - High temperature / overload protection (RUN LED 8 flashes)
E9 - Anti-cold air (heating) / water-full protection (cassette)
EE - Outdoor EEPROM error
EU - IPM / heatsink high temperature frequency limiting
F0 - System low refrigerant / blockage protection

F1 - Indoor ambient (return air) sensor open/short
F2 - Indoor coil (evaporator) sensor open/short
F3 - Outdoor ambient sensor open/short
F4 - Outdoor coil (condenser) sensor open/short
F5 - Outdoor discharge sensor open/short
F6 - Overload frequency limiting / reduction
F8 - Overcurrent frequency limiting / reduction
F9 - High discharge temperature frequency limiting
FH - Anti-freezing frequency limiting
H1 - Defrosting (normal)
H3 - Compressor overload protection (OLP)
H4 - System abnormal / overload
H5 - IPM protection
H6 - No feedback from indoor fan (PG) motor (Indicator 11 flashes)
H7 - Compressor desynchronisation
HC - PFC protection
L3 - Outdoor DC fan motor error
L9 - Over-power protection
LP - Indoor/outdoor unit capacity mismatch (on GMV VRF: PG motor zero-crossing fault)
Lc - Compressor start failure
P5 - Compressor overcurrent
P7 - Heatsink sensor error
P8 - IPM / heatsink high temperature
PH - DC bus high voltage
PL - DC bus low voltage
PU - Capacitor charging error
U1 - Compressor phase current detection error
U3 - DC bus voltage drop
U5 - Whole unit current detection error
U7 - 4-way valve reversing abnormal
U8 - Zero-cross detection (input power) circuit malfunction (Indicator 17 flashes)
C5 - Jumper cap (model jumper) error (Indicator 15 flashes)
b5 - Indoor inlet tube sensor open/short (Indicator 19 flashes)

HAIER

Inverter wall split (AS / HSU / Flexis / Tempo / Pearl)

Models: AS, HSU, 1U, AS25, AS35, AS50, AS71, AD, AB, Flexis, Tempo, Pearl, Nebula
How to read: Code shows on the indoor display. Outdoor faults also flash LED1 on the outdoor PCB (count flashes).

E1 - Indoor room temperature sensor fault
E2 - Indoor heat exchanger (coil) sensor fault
E4 - Indoor EEPROM error
E7 - Indoor–outdoor communication fault (Outdoor LED1 15 flashes)
E9 - Indoor unit overload in heating / high work-intensity protection
E14 - Indoor fan motor malfunction
F1 - IPM protection (Outdoor LED1 2 flashes)
F2 - Compressor overcurrent (Outdoor LED1 24 flashes)
F3 - Communication error between power module and main PCB
F4 - Compressor discharge temperature protection
F12 - Outdoor EEPROM error (Outdoor LED1 1 flash)
F13 - Lack of refrigerant (Outdoor LED1 16 flashes)
F14 - 4-way valve reverse failure (Outdoor LED1 17 flashes)
F19 - Power supply over/under voltage protection (Outdoor LED1 6 flashes)
F20 - Compressor overload / high pressure protection (Outdoor LED1 5 flashes)
F21 - Outdoor defrost (coil) sensor fault (Outdoor LED1 10 flashes)
F6 - Outdoor ambient temperature sensor fault (Outdoor LED1 12 flashes)
F7 - Suction temperature sensor fault (Outdoor LED1 11 flashes)
F8 - Outdoor DC fan motor fault (Outdoor LED1 9 flashes)
F11 - Compressor running abnormally / jammed (Outdoor LED1 18 flashes)
F25 - Discharge (exhaust) temperature sensor fault (Outdoor LED1 13 flashes)
F22 - Outdoor AC overcurrent protection (Outdoor LED1 3 flashes)
F23 - Compressor phase (V-phase) overcurrent protection (Outdoor LED1 25 flashes)
F27 - Compressor locked / current sampling circuit fault (Outdoor LED1 7 flashes)
F28 - Compressor position detection circuit fault
F35 - Compressor driver board failure
F43 - Model matching abnormality
FE - Refrigerant leak detection malfunction

HITACHI

Residential wall split (RAK / RAC / RAS-...FH) — timer lamp codes

Models: RAK, RAC, RAS-FH, RAS-25FH, RAS-35FH, Performance, Premium, Summit, Airhome
How to read: Indoor TIMER lamp flashes a number of times, pauses and repeats — count the flashes. TIMER flashing steadily 1 s on / 1 s off in heating is coil pre-heat, not a fault. If the indoor FILTER lamp flashes 4 times it is an outdoor fault: count flashes on outdoor PCB LED LD301 (LD304 flashing = comms error with that indoor circuit on multi). Confirm against the model's service manual — tables vary by generation.

Timer 1s on/off - Coil pre-heat in heating mode — not a fault
01 - Indoor coil too warm in cooling or too cold in heating — reversing valve or coil thermistor faulty (Timer lamp 1 flash)
02 - Forced operation from outdoor unit — not a fault (Timer lamp 2 flashes)
03 - Communication error — faulty wiring, indoor or outdoor PCB (Timer lamp 3 flashes)
04 - Outdoor unit fault — read outdoor LED LD301 flash count (Timer lamp 4 flashes / filter lamp 4 flashes)
06 - Float switch activated (drain) (Timer lamp 6 flashes)
07 - Drain pump forced operation — drain test switch left in test position or PCB fault (Timer lamp 7 flashes)
08 - Louvre not opening — louvre motor, microswitch or PCB (RAF units only) (Timer lamp 8 flashes)
09 - Indoor thermistor fault — air inlet or coil thermistor open/short or PCB (Timer lamp 9 flashes)
13 - EEPROM data error — faulty PCB (Timer lamp 13 flashes)

Utopia / Set Free / Primairy commercial — alarm codes

Models: RAS-, RPI, RCI, RCD, RPK, RPC, RPF, RAD, Utopia, Set Free, Primairy, PC-ARF, PC-ART, PC-P2HTE
How to read: Alarm code shows on the wired controller (PC-ARF/ART) with the unit and refrigerant cycle number. Outdoor 7-segment display gives the same code.

01 - Indoor protection device activated (float switch / drain)
02 - Outdoor protection device activated (high pressure cut or compressor high temperature cut)
03 - Indoor–outdoor transmission abnormality
04 - Inverter–outdoor PCB transmission abnormality
05 - Power supply phase abnormality (reverse / open phase)
06 - Abnormal inverter voltage (excessively low or high)
07 - Decrease in discharge superheat (overcharge / EEV open lock)
08 - High discharge gas temperature (undercharge / leak / EEV closed)
09 - Outdoor fan motor protection
11 - Indoor inlet air thermistor
12 - Indoor outlet air thermistor
13 - Indoor freeze protection (liquid pipe) thermistor
14 - Indoor gas pipe thermistor
19 - Indoor fan motor protection
20 - Compressor top (discharge) thermistor
21 - High pressure sensor
22 - Outdoor ambient thermistor
24 - Outdoor heat exchanger liquid pipe (evaporating) thermistor
31 - Incorrect capacity setting / combination
35 - Incorrect indoor unit number setting
41 - Cooling overload (high pressure)
42 - Heating overload (high pressure)
47 - Low suction pressure protection
48 - Inverter overcurrent protection
51 - Inverter current sensor abnormality
53 - Inverter module (ISPM) protection
54 - Inverter fin temperature increase
57 - Fan controller abnormality
EE - Compressor protection (repeated alarms)

TEMPERZONE

UC7 / UC8 controlled splits & packages (OSA, OPA, ISD, OSI)

Models: OSA, OPA, ISD, OSI, OPH, ISH, MWR, MWU, UC7, UC8, SAT-3, TZT-100, RKS, RKTG, RKSG
How to read: Fault messages and codes show on the UC7/UC8 controller display on the outdoor/package unit, and on compatible room thermostats (SAT-3, TZT-100). Inverter units also show inverter fault codes — see the UC8 troubleshooting guide.

LP - Low pressure protection active
HP - High pressure protection active
HI-t - High (discharge) temperature protection active
FROSt - Indoor coil frost protection active
HI-SL - High suction line temperature protection active
Lo-dSH - Low discharge superheat protection active
Hi-dSH - High discharge superheat protection active
OL - Overload protection active (IN #2 open circuit)
F10 - Outdoor fan fault (no serial communication)
F11 - Indoor fan fault (no serial communication)
F12 - Low pressure transducer fault (shows as LP)
F13 - High pressure transducer fault (shows as HP)
F14 - Suction line temperature sensor fault (SL)
F15 - Discharge line temperature sensor fault (DL)
F16 - De-ice temperature sensor fault (DEI)

F17 - Outdoor coil temperature sensor fault (OC)
F18 - Indoor coil temperature sensor fault (IC)
F19 - Ambient temperature sensor fault (AMB)
F20 - Superheat unknown