

Error codes for Panasonic air conditioners

See also: [Panasonic Air Conditioners Service Manuals](#)

If an error occurs in the **Panasonic air conditioners**, they turn off and the timer LED on the panel starts flashing. If the system is multi-split, then for each indoor unit you need to separately read the error codes.

Error codes for domestic air conditioners

H00 - No Issues Reported

H11 - There is no communication between the indoor and outdoor unit, the control board is defective

H12 - mismatch of the total power of indoor units to outdoor

H14 - air sensor shorted / disconnected

H15 - open circuit or short circuit compressor temperature sensor

H16 - low current consumption by the external unit - there is not enough freon, an open circuit in the current transformer circuit of the outdoor unit board, the IPM power module has failed

H17 - open circuit or short circuit temperature sensor on the refrigerant suction pipe

H19 - jamming of the fan motor of the indoor unit - motor, board or wire connectors.

H21 - drainage blocked or float sensor defective

H23 - evaporator temperature sensor N1 closed / disconnected

H24 - evaporator temperature sensor N2 closed / broken

H25 - defective ionization unit or internal board

H26 - ionizer

H27 - street temperature sensor short-circuited

H28 - capacitor temperature sensor N1 closed / disconnected

H30 - discharge temperature sensor is closed or broken

H32 - temperature sensor at the output of the condenser is closed or broken

H33 - interconnect error

H34 - Power module heatsink temperature sensor short-circuited

H35 - drainage blockage, pump malfunction (pump motor winding resistance is about 200 Ohms)

H36 - outdoor unit gas tube temperature sensor closed / torn off

H37 - outdoor unit liquid tube temperature sensor short-circuited

H38 - mismatch between outdoor and outdoor units

H39 - wires and freon circuits are mixed up (multisplit system), solenoid valve of the corresponding outdoor unit is faulty

H41 - Inconsistency in the connection of wires and freon conduits

H50 - defective fan motor or board

H51 - nozzle blockage (AC Robot)

H52 - Malfunction of the limiter switch (AC Robot)

H58 - malfunction of the Patrol Sensor unit

H64 - malfunction of the high pressure sensor

H97 - faulty compressor motor, indoor unit board

H98 - protection of the indoor unit from overheating in heat (high pressure) mode, insufficient heat removal from the heat exchanger of the indoor unit, sensor malfunction

H99 - freezing of the evaporator

F11 - incorrect operation of the four-way valve

F17 - freezing of the indoor unit in standby mode, an error appears on the unit on which the fact of freezing is detected

F90 - open circuit of compressor windings, difference in winding resistance, inverter board malfunction

F91 - Incorrect operation of the refrigeration circuit, low pressure protection

F93 - open compressor windings, inverter board malfunction

F94 - overpressure protection

F95 - outdoor unit heat exchanger overheating

F96 - overheating of the power module, silt for cartoons - actuation of the thermal tablet

F97 - high compressor discharge temperature, compressor overheating

F98 - protection for total current consumption

F99 error of the DC protection system, possible causes are jamming of the compressor, failure of the transistor module, malfunction of the current sensor of the board of the external unit, the resistance of the compressor windings is below normal.

Panasonic: Error codes for semi-industrial air conditioners

- cassette
- channel
- columned
- ceiling-mounted

Remote indication		Indication of LEDs (by numbers) on printed circuit boards										Type of error
Wired		IR	Int. block		Outdoor unit							
Code	Explanation	led1	led2	led2	led3	led4	LED5	led6	led7	led8		
F15	01	x	x	x				x	(2)	(2)	the malfunction is due to the removal of the condensate from the indoor unit, the drainage bath is full	
F16	01	x	x		x			x	(2)	(2)	malfunction of the stepper motor blinds, or they are not connected	
F17	01	x	x	x	x			x	(2)	(2)	the problem of connecting options to additional contacts	
F20	01	x	x	x			x		(2)	(2)	closed or torn room temperature sensor	
	02	x	x	x		x	x		(2)	(2)	the room temperature sensor in the remote control is closed or broken	
F21	01	x	x		x		x		(2)	(2)	the evaporator temperature sensor is closed or broken, or freezing due to freon leakage	
F25	01	x	x			x			(2)	(2)	improper addressing of indoor units under centralized management (address conflict)	
F26	01	x	x		x				(2)	(2)	remote control wire break	
	02	x	x	x					(2)	(2)	incorrect data transfer (signal) between the remote control and the board	
F27	01	x	x		x				x		interconnect cable break	
	02	x	x	x					x		incorrect data transfer between indoor and outdoor unit	

F29	01	x	x		x		x	x	(2)	(2)	incorrect configuration of parameters (Dip switches) on the indoor unit board
	02	x	x	x			x	x	(2)	(2)	same (see above)
	12	x	x	x		x	x	x	(2)	(2)	incorrect setting of parameters (Dip-switches) on the remote control
F30	02	x	x	x		x		x	x		rephasing or phase failure
	06	x	x		x	x		x	x		phase imbalance
	07	x	x	x	x	x		x	x		power problem
F31	02	x	x		x			x	x		high condensing pressure
F33	01	x	x	x				x	x		increased current consumption by compressor
	02	x	x	x	x			x	x		compressor discharge temperature protection (overheating, leakage or refueling)
F40	41	x	x	x			x		x		compressor discharge temperature sensor shorted or broken
	61	x	x		x		x		x		malfunction of the temperature sensor of the heat exchanger of the outdoor unit (open or short circuit)
F41	02	x	x	x		x	x		x		high pressure sensor open / high pressure protection
	03	x	x		x	x	x		x		high pressure switch in heat pump mode / high pressure protection in heat pump mode
F42	01	x	x	x	x		x		x		increased current consumption by the compressor, or the current sensor is faulty
F49	01	x	x		x		x	x	x		incorrect configuration of parameters (Dip switches) on the outdoor unit

Panasonic: Flexi Series Error Codes

Remote indication		Indication of green LEDs (by numbers) on the printed circuit board								Type of error
Wired		Outdoor unit								
Code	Explanation	302	303	304	305	306	307	308	309	
F15	-01		x	x	x	x		(2)	(2)	There is a problem with condensate drain from the indoor unit. Drain pan overflow. The float sensor is open for 3 minutes. CN-DRMTR / CN-TH2 Indoor Unit Board Connector
F16	-01						x	(2)	(2)	The blinds motor is not connected. Malfunctioning blinds
F17	-02	x	x				x	(2)	(2)	Indoor Unit DC Fan Motor (DC)
F20	-01				x		x	(2)	(2)	There is a problem with the room temperature sensor. CN-TH2 indoor unit circuit board connector (open circuit or short circuit)
	-02	x			x		x	(2)	(2)	The problem with the temperature sensor on the remote control (open or short circuit)
F21	-01		x		x		x	(2)	(2)	There is a problem with the temperature sensor on the heat exchanger of the indoor unit (open circuit or short circuit) or a leak

											of freon from the system / freezing due to a leak of freon. CN-TH1 indoor unit circuit board connector (open circuit or short circuit)
F26	-01			x		x	x	(2)	(2)		Remote cable breakage. Incorrect data transfer (signal) between the remote control and the board. Transformer power supply control circuit.
F27	-01		x	x		x	x	(2)	(2)		Open interconnect cable (indoor unit side)
	-05	x	x	x		x	x	(2)	(2)		Incorrect data transfer between the indoor and outdoor unit (side of the indoor unit)
F27	-01	x		x		x					Interconnect power cable breakage (outdoor unit side)
	-05					x					Incorrect data transfer between indoor and outdoor unit (outdoor unit side)
F30	-01										The total cooling capacity of the indoor units or the number of indoor units is incorrect.
	-02										Phase failure / phase imbalance / improper phasing (swap 2 adjacent phases out of three)
F31	-01		x								Suction pressure protection (lack of freon)
	-02	x									High Pressure Shutdown
	-06			x	x						Incorrect operation of the 4-way valve (mechanism, valve coil or problems in the refrigeration circuit)
	-08		x				x				Freezing error (cold models)
	-09		x	x	x						Freon leak error
	-10		x	x		x					Refrigerant circuit error (freon leak or service valve closed)
F32	-03			x		x					Inverter protection (low constant voltage (DC) voltage)
	-04	x	x			x					Inverter Protection (IPM Transistor Module or Main Board Failure)
	-05	x	x								Compressor current protection (jamming of the compressor or phase failure). A significant "subsidence" of the supply voltage when starting or operating the air conditioner is a weak network.
	-06	x	x		x						Compressor overheating (lack of freon or inefficient condenser heat exchanger)
	-08	x		x	x						Inverter Protection (PFC Protection)
	-09	x				x					DC inverter protection (IPM transistor module malfunction or compressor jamming)
	-10	x	x	x	x						Compressor speed mismatch with board control signals (IPM transistor module malfunction or compressor jam)
F35	-02		x			x					Outdoor Unit DC Fan Motor (DC)
F40	-01			x							There is a problem with the outlet temperature sensor. CN-TH1 outdoor unit circuit board connector (open circuit or short circuit)
	-11				x						There is a problem with the temperature sensor on the compressor suction line (SUC T. TEMP). Connector for outdoor unit CN-TH2 (open circuit or short circuit). Service valve closed.

	-21	x		x							There is a problem with the temperature sensor at the outlet of the condenser heat exchanger (COND TEMP). CN-TH1 outdoor unit circuit board connector (open circuit or short circuit)
	-31	x	x	x							There is a problem with the pipe temperature sensor (PIPE TEMP). CN-TH2 outdoor unit circuit board connector (open circuit or short circuit)
	-51		x	x							Problem with compressor discharge temperature sensor (DIS T. TEMP). CN-DIS outdoor unit board connector (open circuit or short circuit)
F41	-02	x	x					x			High pressure sensor triggered. CN-PSW1 outdoor unit circuit board connector (open circuit)
	-12		x		x						Low pressure sensor trip (open circuit)
F42	-11										Open in the current sensor circuit (malfunction of the electronic filter board (NOISE FILTER) of the outdoor unit or ASN2 connector). Abnormally low current consumption of air conditioning.
F44	-01	x			x						Inverter protection (overheating of the IPM transistor board, malfunction of the main board of the outdoor unit)
1) display the last stored error in the system's memory - press and hold the CHESHK button on the remote control for 5 seconds with the air conditioner turned on.											
2) output of the current error (CHECK indication blinks) - press the corresponding button once.											
3) display of an explanation of the error (-01, -02, -03, etc.) - if there is an indication of the error code (see clause 2), press the TIMER SELECT / SET button once											
Attention! If there are several errors in the system at the same time, the malfunction code on the remote control may not coincide with the LEDs. The priority in this case is the remote control. LED1 (green) indicates that the microprocessor on the circuit board is operating normally. If the LED is off or flashing irregularly, check the power to the system, turn the system off and on again.											
Explanation								(2) -	308	309	In the case of mounting a double or triple cartoon, the error corresponds to:
								x			lead block
									x		slave unit number 1
								x	x		slave unit number 2