

DEFINING COMMON ERROR CODES

Art Cool™ Mirror High-Efficiency Single Zone Systems

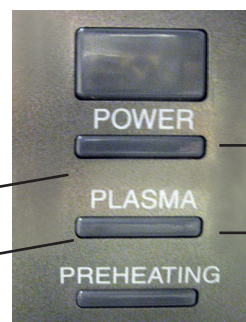
LA090HSV System (LAN090HSV Indoor Units / LAU090HSV Outdoor Units)

LA120HSV System (LAN120HSV Indoor Units / LAU120HSV Outdoor Units)

LAN090HSV and LAN120HSV Indoor Units



Location of light-emitting diode (LED) displays



LED2

LED1

Error Code	Description	No. of Times Indoor Unit LEDs Blink	
		LED1 (Plasma LED)	LED2 (Power LED)
1	Indoor unit return air thermistor is disconnected or is shorted out.	1X	—
2	Indoor unit inlet pipe thermistor is disconnected or is shorted out.	2X	—
5	Communication failure from indoor unit to outdoor unit.	—	5X
6	Indoor unit outlet pipe thermistor has disconnected or has shorted out.	6X	—
9	Indoor unit electrically erasable programmable read-only memory (EEPROM) error.	9X	—
10	Indoor unit fan has locked up (fan motor operation failure).	—	1X
12	Indoor unit middle pipe thermistor is disconnected or is shorted out.	1X	2X
21	Direct current (DC) peak error / internal power module (IPM) fault; compressor DC voltage was too high.	2X	1X
22	Current transformer2 (CT2) error; alternating current (AC) input is too high.	2X	2X
23	DC link voltage is too low.	2X	3X
25	Voltage to the system is too low or too high.	2X	5X
26	Inverter compressor has seized up or is not providing rotation.	2X	6X
27	Prospective short circuit (PSC) fault error; current to inverter compressor between AC and DC converter circuit is too high.	2X	7X
28	Inverter compressor DC voltage is too high.	2X	8X
29	Inverter compressor amperage is too high.	2X	9X
31	Current to the current transformer (CT) thermistor is too low.	3X	1X
32	Inverter compressor discharge pipe temperature is too high.	3X	2X
40	Current transformer (CT) thermistor is disconnected or is shorted out.	4X	—
41	Inverter compressor discharge pipe thermistor is disconnected or is shorted out.	4X	1X
44	Outdoor unit inlet air thermistor is disconnected or is shorted out.	4X	4X
45	Middle thermistor of outdoor unit condenser coil is disconnected or is shorted out.	4X	5X
46	Outdoor unit suction line thermistor is disconnected or is shorted out.	4X	6X
48	Outdoor unit coil outlet (liquid line) thermistor is disconnected or is shorted out.	4X	8X
53	Communication failure from outdoor unit to indoor unit.	5X	3X
60	Outdoor unit printed circuit board (PCB) EEPROM check sum error.	6X	—
61	Outdoor unit condenser coil temperature is too high.	6X	1X
62	Outdoor unit inverter compressor PCB heat sink temperature is too high.	6X	2X
63	Condenser coil pipe thermistor temperature is too low.	6X	3X
65	Heat sink thermistor has disconnected or has shorted out.	6X	5X
67	Outdoor brushless direct current (BLDC) fan motor lock error.	6X	7X

Refer to Service Manuals posted on www.lg-dfs.com to troubleshoot individual error codes.

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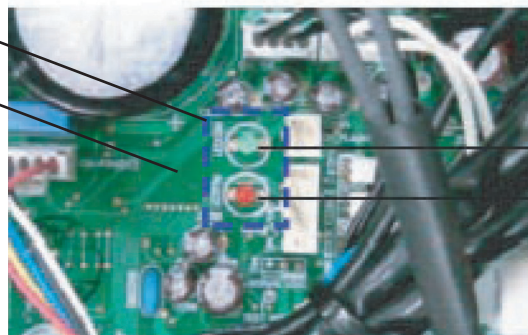
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LA120HSV System (LAN120HSV Indoor Units / LAU120HSV Outdoor Units)

LAU090HSV and LAU120HSV Outdoor Units

Location of PCB LEDs: To access outdoor unit PCB LEDs, remove top cover, and then remove lid to PCB box.



LED2

LED1

Error Code	Description	No. of Times Outdoor Unit PCB LEDs Blink	
		LED1 (Red)	LED2 (Green)
21	Direct current (DC) peak error / internal power module (IPM) fault; compressor DC voltage was too high.	2X	1X
22	Current transformer2 (CT2) error; alternating current (AC) input is too high.	2X	2X
23	DC link voltage is too low.	2X	3X
25	Voltage to the system is too low or too high.	2X	5X
26	Inverter compressor has seized up or is not providing rotation.	2X	6X
27	Prospective short circuit (PSC) fault error; current to inverter compressor between AC and DC converter circuit is too high.	2X	7X
28	Inverter compressor DC voltage is too high.	2X	8X
29	Inverter compressor amperage is too high.	2X	9X
31	Current to the current transformer (CT) thermistor is too low.	3X	1X
32	Inverter compressor discharge pipe temperature is too high.	3X	2X
40	Current transformer (CT) thermistor is disconnected or is shorted out.	4X	—
41	Inverter compressor discharge pipe thermistor is disconnected or is shorted out.	4X	1X
44	Outdoor unit inlet air thermistor is disconnected or is shorted out.	4X	4X
45	Middle thermistor of outdoor unit condenser coil is disconnected or is shorted out.	4X	5X
46	Outdoor unit suction line thermistor is disconnected or is shorted out.	4X	6X
48	Outdoor unit coil outlet (liquid line) thermistor is disconnected or is shorted out.	4X	8X
53	Communication failure from outdoor unit to indoor unit.	5X	3X
60	Outdoor unit printed circuit board (PCB) EEPROM check sum error.	6X	—
61	Outdoor unit condenser coil temperature is too high.	6X	1X
62	Outdoor unit inverter compressor PCB heat sink temperature is too high.	6X	2X
63	Condenser coil pipe thermistor temperature is too low.	6X	3X
65	Heat sink thermistor has disconnected or has shorted out.	6X	5X
67	Outdoor brushless direct current (BLDC) fan motor lock error.	6X	7X

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