



DAIKIN

Marine type
Container Refrigeration Unit

Service Manual

DAIKIN CONTAINER
LXE10E-A



DAIKIN INDUSTRIES, LTD.

TR 01-09A

3.4 Alarm display and back-up function

3.4.1 Alarm list

Alarm grouping		Alarm code	Alarm content	Action with alarm	
Permanent stop		F101	HPS activated within 30 seconds after operation start or protection device activated 5 times at start-up operation or Fuse 1 brown (Refer Page 7-7).	Unit stops	
		F109	Low- pressure drops to-85kPa or lower within 2 seconds after operation start.	Unit stops	
		F111	HPS does not activate when it reaches to the set value.	Unit stops	
		F301	Temperature setting required (SRAM failure)	Unit stops	
		F401	Return/Supply air sensor malfunction (at chilled mode)	Unit stops	
		F403	Return/Supply air sensor malfunction (at partial frozen mode)	Unit stops	
		F603	Suction modulating valve (SMV) does not fully close contrary to the designation or initial setting of the controller is wrong.	Unit stops	
		F701	Abnormal high voltage (over 600V)	Unit stops	
		F705	S phase became open phase	Unit stops	
		F803	Abnormalities, which make it impossible to continue operation Note2.	Unit stops	
Display alone or restartable alarm		Protection device activation	E101	High-pressure switch activated during normal operation.	Restart after 3-minute
			E103	CTP or electronic OC activated during normal operation.	Restart after 3-minute
			E105	Micro processor OC activated during normal operation.	Restart after 3-minute
			E107	DCHS became abnormal high temperature during operation.	Restart after 3-minute
			E109	In the event the refrigerant circulation rate is low, the unit will stand by for three minutes to restart then. Low pressure drops to-90kPa or lower for 2 seconds or longer successively during normal operaton.	If this error occurs two times, F803 error will be detected to stop the unit. Restart after 3-minute
		Control error	E201	Pump down is not completed within 90 seconds.	Only alarm display
			E203	Overcool protection activates in the chilled or partial frozen mode. (Control temperature ≤ SP-3°C or for 3 minutes)	Restart after 3-minutes
			E207	Defrosting is not completed within 90 minutes	Only alarm display
		Printed-circuit board failure	E303	Humidity setting required (SRAM failure)	Only alarm display
			E305	Defrost timer setting required (SRAM failure)	Only alarm display
			E307	Calendar setting required (SRAM failure)	Only alarm display
			E311	Trip-start setting required (SRAM failure)	Only alarm display
			E315	PT/CT board failure	Restart after 3-minutes
		Sensor alarm	E401	Supply air temperature sensor (SS) malfunction	Back-up operation
			E402	Data recorder supply air temperature sensor (DSS) malfunction	Back-up operation
			E403	Return air temperature sensor (RS) malfunction	Back-up operation
			E404	Data recorder return air temperature sensor (DRS) malfunction	Back-up operation
			E405	Discharge air temperature sensor (DCHS) malfunction	Only alarm display
			E406	Suction gas temperature sensor (SGS) malfunction	Back-up operation
			E407	Evaporator inlet temperature sensor (EIS) malfunction	Back-up operation
			E409	Evaporator outlet sensor (EOS) malfunction	Back-up operation
			E411	Ambient sensor (AMBS) malfunction	Only alarm display
			E413	Low pressure transducer (LPT) malfunction	Back-up operation
			E415	High pressure transducer (HPT) malfunction	Back-up operation
			E417	Voltage sensor (PT1) malfunction	Only alarm display
			E421	Current sensor (CT1) malfunction	Only alarm display
			E423	Current sensor (CT2) malfunction	Restart after 3-minutes
			E425	Pulp temperature sensor (USDA1) malfunction	Only alarm display
			E427	Pulp temperature sensor (USDA2) malfunction	Only alarm display
			E429	Pulp temperature sensor (USDA3) malfunction	Only alarm display
			E431	Humidity sensor (HuS) malfunction	Only alarm display
			E433	Cargo temperature sensor (CTS) or box temperature sensor (CBS) malfunction	Only alarm display
		Electronic functional part alarm	E603	Suction modulating valve (SMV) malfunction or driver malfunction	Back-up operation
			E607	MDS (sheet key) malfunction	Only alarm display
		Power supply alarm	E707	Momentary power failure	Restart after 3-minutes
		Other alarm	E801	Backup battery replacement date exceeded	Only alarm display

Note 1) The alarm LED does not blink when E code alarm is generated.

To check if any alarm generates, use alarm indication function in the section "1. Current indication mode" of "3.3.2 Mode operation procedure."

2) In the event error E101, E103, E107, or E109 occurs 10 times, the system will go to 4-hour standby mode.

3) In case of sensor malfunction, the judgment for sensor malfunction does not perform for 3 minutes before the pressure or temperature reaches to the specified value.