

FAULT DISPLAY CODES

CP05 / CP10 ALARM MATRIX			
Description	Type	Alarm Condition	Reset Condition
Discharge Temperature 1 / High Pressure Comp 1 Fault	Alarm	Temperature out of Range	Temperature & Pressure Normal
		Compressor 1 High Pressure	
Discharge Temperature 2 / High Pressure Comp 2 Fault	Alarm	Temperature out of Range	Temperature & Pressure Normal
		Compressor 2 High Pressure	
Compressor 1 LP Fault	Alarm	Compressor 1 Low Pressure	Normal Pressure
Compressor 2 LP Fault	Alarm	Compressor 2 Low Pressure	Normal Pressure
Outdoor Coil Temp1 Fault	Warning	Temperature out of Range	Temperature OK
Outdoor Coil Temp2 Fault	Warning	Temperature out of Range	Temperature OK
Room Air Temperature Sensor Fault	Warning	Temperature out of Range	Temperature OK
Outside Air Temperature Sensor Fault	Warning	Temperature out of Range	Temperature OK
Indoor Coil Sensor Fault	Warning	Temperature out of Range	Temperature OK
*Filter Alarm	Alarm	Air Filter Timer Timed-Out	Clean / Replace Filter and Reset Timer
Anti-Freeze Protection	Warning	Indoor Coil Temperature Too Low	Normal Operating Temperature

NOTE: As soon as the error condition goes away, the control logic will remove the error code.

IMPORTANT NOTES:

All alarm fault conditions must be investigated and rectified before proceeding to reset or clear the alarm. If the cause of the fault condition has not been eliminated, the alarm fault conditions will be reported and logged in again on next data cycle. **Repeated resetting and restarting can cause damage to the unit and may render your warranty null & void.**

*When enabled, the Filter Alarm can be masked from Alarm relay via Service Menu, as follows:

Service Menu → Service settings → Working hour set (from this screen, set Filter Fault relay to "Yes").



FAULT DISPLAY CODES

INDOOR BOARD FAULT ERROR CODES (As displayed on CL01)				
Alarm Code	Description	Type	Alarm Condition	Reset Condition
E1	Auxilliary Sensor Error (OC/SC)	Alarm	No Sensor, Sensor OC/SC	Sensor OK
E2	Indoor Coil Sensor Error (OC/SC)	Alarm	Coil Sensor OC/SC	Sensor OK
E3	Over Current	Alarm	Input out of Range	Normal Operation
	Under Current		Indoor Fan not running	Normal Operation
E4	Wrong Dipswitch Error	Alarm	Wrong Dipswitch Settings	Correct Settings
E5	Communication Error	Alarm	No communication with OD NOTE: Wait for 30sec. before E5 is displayed.	Communication OK
E6	Indoor Fan Fault	Alarm	Not Operating	Normal Operation
E7	0-10VDC No Input	Alarm	Input is less than 0.1V when 3rd Party voltage control is selected on ID	Correct 0-10VDC Input
E8	Reserved for Other Errors	Alarm	---	---
E9	Reserved for Other Errors	Alarm	---	---

CM100 FAULT ERROR CODES (As displayed on CL01)				
Alarm Code	Description	Type	Alarm Condition	Reset Condition
E10	All Other Alarms (See CP05 or CP10 for details)	Alarm	Various Alarms	Normal Condition
E11	Probe 1 Fault (CM100 Internal Error)	Alarm	Configuration Error	Correct Set up
E12	ID Coil Sensor 1 Fault	Alarm	Temperature out of Range	Temperature Normal
E13	Probe 3 Fault (CM100 Internal Error)	Alarm	Configuration Error	Correct Set up
E14	Probe 4 Fault (CM100 Internal Error)	Alarm	Configuration Error	Correct Set up
E15	Discharge Temperature 1 / High Pressure Comp 1 Fault	Alarm	Temperature out of Range	Temperature & Pressure Normal (Pd < 3506kPa)
			Comp. 1 HP (Pd > 4500kPa)	
E16	OD Coil Sensor 1 Fault	Alarm	Temperature out of Range	Temperature Normal
E17	Discharge Temperature 2 / High Pressure Comp 2 Fault	Alarm	Temperature out of Range	Temperature & Pressure Normal (Pd < 3506kPa)
			Comp. 2 HP (Pd > 4500kPa)	
E18	OD Coil Sensor 2 Fault	Alarm	Temperature out of Range	Temperature Normal
E19	Probe 9 Fault (CM100 Internal Error)	Alarm	Configuration Error	Correct Set up
E20	Outside Air Temperature Sensor Fault	Warning	Temperature out of Range	Temperature OK
E21	Multi Input 1 Fault	Alarm	Input out of Range	Input Normal



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CM100 FAULT ERROR CODES (As displayed on CL01)				
Alarm Code	Description	Type	Alarm Condition	Reset Condition
E22	Multi Input 2 Fault	Alarm	Input out of Range	Input Normal
E23	Outdoor Fan 1 Fault	Alarm	Not Operating	Normal Operation
E24	Outdoor Fan 2 Fault	Alarm	Not Operating	Normal Operation
E25	Indoor Fan Fault	Alarm	Not Operating	Normal Operation
E26	Return Air Temp. Sensor Fault	Warning	Temperature out of Range	Temperature OK
E27	Supply Air Temp. Sensor Fault	Warning	Temperature out of Range	Temperature OK
E28	Indoor Fan Overload Fault	Alarm	Circuit Breaker Tripped	Normal Operation
E29	Compressor 1 Overload Fault	Alarm	Circuit Breaker Tripped	Normal Operation
E30	Compressor 2 Overload Fault	Alarm	Circuit Breaker Tripped	Normal Operation
E31	Compressor 1 LP Fault	Alarm	Comp. 1 LP (Ps < 165kPa)	Normal Pressure (Ps > 330kPa)
E32	Compressor 2 LP Fault	Alarm	Comp. 2 LP (Ps < 165kPa)	Normal Pressure (Ps > 330kPa)
E33	Compressor 3 LP Fault	Alarm	Comp. 3 LP (Ps < 165kPa)	Normal Pressure (Ps > 330kPa)
E34	Compressor 1 HP Fault	Alarm	Comp. 1 HP (Pd > 4500kPa)	Normal Pressure (Pd < 3506kPa)
E35	Compressor 2 HP Fault	Alarm	Comp. 2 HP (Pd > 4500kPa)	Normal Pressure (Pd < 3506kPa)
E36	Compressor 3 HP Fault	Alarm	Comp. 3 HP (Pd > 4500kPa)	Normal Pressure (Pd < 3506kPa)
E37	Compressor 1 LP Fault *** Lock Out ***	Alarm	3 Trips within 1 Hour	Re-cycle Power & Pressure Normal
E38	Compressor 2 LP Fault *** Lock Out ***	Alarm	3 Trips within 1 Hour	Re-cycle Power & Pressure Normal
E39	Compressor 3 LP Fault *** Lock Out ***	Alarm	3 Trips within 1 Hour	Re-cycle Power & Pressure Normal
E40	Compressor 1 HP Fault *** Lock Out ***	Alarm	3 Trips within 1 Hour	Re-cycle Power & Pressure Normal
E41	Compressor 2 HP Fault *** Lock Out ***	Alarm	3 Trips within 1 Hour	Re-cycle Power & Pressure Normal
E42	Compressor 3 HP Fault *** Lock Out ***	Alarm	3 Trips within 1 Hour	Re-cycle Power & Pressure Normal
E43	Discharge Temp 1 Fault	Alarm	Temperature out of Range	Temperature OK
E44	Discharge Temp 2 Fault	Alarm	Temperature out of Range	Temperature OK
E45	Discharge Temp 3 Fault	Alarm	Temperature out of Range	Temperature OK
FILTER	Filter Alarm (See Note* on page 1)	Alarm	Air Filter Timer Timed-Out	Clean / Replace Filter and Reset Timer

NOTES: As soon as the error condition goes away, the control logic will remove the error code. Comp. 3 condition applicable to PKY820T-960T only.

IMPORTANT NOTES:

All alarm fault conditions must be investigated and rectified before proceeding to reset or clear the alarm. If the cause of the fault condition has not been eliminated, the alarm fault conditions will be reported and logged in again on next data cycle. **Repeated resetting and restarting can cause damage to the unit and may render your warranty null & void.**



FAULT DISPLAY CODES

OPTIONAL SOFT STARTER DISPLAY CODES

NORMAL OPERATION MODE	ON-BOARD LED INDICATION
At first Power Up (Compressor Delay Start)	One Blink per second for 10 secs
Ready to Start	LED Off
Compressor Running	LED remains Off
Delay After Compressor Stop	One Blink per second for 50 secs, then LED Off

OPTIONAL SOFT STARTER FAULT CODES

FAULT OPERATION	ON-BOARD LED INDICATION
Phase L1 Missing	LED Off (No Lights and No Compressor Operation)
Compressor Winding Open	4 Blinks (in bursts) for 50 secs, then Comp. tries to start again
Incorrect Phase Rotation	3 Blinks (in bursts), Compressor will not try to start
Phase Lost or Low Voltage (less than 200V)	3 Blinks (in bursts), Compressor will not try to start
Compressor Windings Swapped	LED Off (Compressor runs noisy - clacking sound)
Compressor Failed to Start	2 Blinks for 4 minutes