

8.1. Fault codes

Display	Meaning	Possible causes
LP	Low pressure protection is active	Low refrigerant charge (gas leak) Pressure transducer fault EEV malfunction or disconnected Outdoor coil blocked (leaves, paper, etc.) Outdoor fan does not run
HP	High pressure protection is active	Inadequate water flowrate Pressure transducer fault EEV malfunction or disconnected
OL	Overload protection (input IN#2 is open circuit)	Check overload switches (if used)
HI-t	High temperature protection is active	Low refrigerant charge (gas leak) Sensor loose or malfunction EEV malfunction or disconnected
HI-SL	High suction line temperature protection is active	Temperature sensor loose
Lo-dSH	Low discharge superheat protection active	EEV malfunction or disconnected
Hi-dSH	High discharge superheat protection active	Low refrigerant charge (gas leak) EEV malfunction or disconnected
CRL	Low compression ratio protection	Compressor does not run
CRH	High compression ratio protection	Inadequate water flowrate Pressure transducer fault EEV malfunction or disconnected
diFF-P	The pressure differential is too high for the inverter compressor to start	Incorrect DIP switch settings Pressure transducer fault EEV malfunction or disconnected

Display	Meaning	Possible causes
F12	Low pressure transducer fault	Transducer cable disconnected Faulty transducer Loss of refrigerant (gas leak)
F13	High pressure transducer fault	Transducer cable disconnected Faulty transducer Loss of refrigerant (gas leak)
F14	Suction line temperature sensor fault	Sensor cable disconnected
F15	Discharge line temperature sensor fault	Sensor cable disconnected
F16	De-ice temperature sensor fault	Sensor cable disconnected
F17	Entering water temperature sensor fault	Sensor cable disconnected
F18	Leaving water temperature sensor fault	Sensor cable disconnected
F19	Outdoor ambient temperature sensor fault	Sensor cable disconnected
F20	Superheat is unknown	Missing sensor
F21	Thermostat fault	Loss of serial communications
F22	BMS fault	Loss of serial communications
F27	Invalid DIP switches setting	
F29	Microcontroller too hot	Inadequate electrical box ventilation
F30	Supply voltage out of bounds	Electrical short circuit / overload
F33	High discharge superheat protection	Loss of refrigerant (gas leak) Faulty transducer EEV malfunctioning or disconnected
F34	Pressures not equalising	Pressure transducer connections are swapped Incorrect pressure transducer fitted EEV malfunctioning or disconnected
F35	Reverse cycle valve fault	Reverse cycle valve disconnected
F36	Invalid DIP switch setting on TZT-100 thermostat	Set TZT-100 DIP switch 2 ON and TZT-100 DIP switch 3 OFF
F39	Variable speed compressor driver reports a fault	Check inverter driver
F42	Evaporating temperature too high	Loss of refrigerant (gas leak) EEV malfunctioning or disconnected
F43	Condensing temperature too low	Loss of refrigerant (gas leak) EEV malfunctioning or disconnected
F44	Invalid EEV mode selection	

8.2. Inverter fault codes

The following set of fault codes relate to the Power+ compressor driver.

The fault code shown on the controller is F100 plus the alarm code as reported by the Power+ driver.

For detailed information about the Power+ alarm codes refer to the **Carel Power+ speed drive user manual, chapter 8.3: Alarms table**. A brief summary follows here:

Display	Meaning	Possible causes
F100	No communications between Power+ driver and UC8	No power to the driver Communications cable disconnected Driver incorrect DIP switch settings
F101	Motor over-current	Incorrect compressor model selected Insufficient airflow Fan malfunction
F102	Motor overload	
F103	Over-voltage	Mains supply voltage too high
F104	Under-voltage	Mains supply voltage too low
F105	Drive too hot	Insufficient cooling of the drive
F106	Drive too cold	
F107	Drive over-current	Incorrect compressor model selected Insufficient airflow Fan malfunction
F108	Motor too hot	
F109	Reserved	
F110	Drive internal error	
F111	Incorrect parameter	Incorrect compressor model selected
F112	Excessive drive DC bus ripple	Unbalanced mains phase voltages
F113	Communication fault	Communications cable disconnected
F114	Internal fault	
F115	Auto-tuning fault	
F116	Driver is disabled (input STO is open circuit)	Wire links to the drive disconnected
F117	Motor phase fault	Loose compressor motor wire
F118	Internal fan fault	Faulty fan in the driver
F119	Speed fault	
F120	Power factor correction circuit overload	
F121	Mains input voltage too high	Mains supply voltage too high
F122	Mains input voltage too low	Mains supply voltage too low
F123	Drive internal fault	
F124	Reserved	
F125	High earth current fault	
F126	Drive processor overload	
F127	Drive memory loss	
F128	Drive overload protection	
F129	Safety intervention fault	
F197	Drive reports incorrect compressor speed	
F198	Drive and compressor mismatch	Incorrect compressor model selected
F199	Drive configuration fault	Remove mains power, then re-apply