

4 Troubleshooting

When a malfunction occurs, the TURBOVAC is braked and the failure is indicated; see following table.

The red LED FAILURE lights permanently and one green LED within the chain flashes.

After you have eliminated the cause of the failure, you can reset the malfunction signal with the STOP command (key or remote control).

Warning



Before you open the TURBOTRONIK, please first disconnect the mains power supply and disconnect the power cord. Since dangerous voltages may nonetheless occur, the unit should only be opened by a qualified electrician.

LED flashes	Symptom	Probable Cause	Recommended Corrective Action
No. 1 (below)	Linecord fault.	Motor connection line incorrectly connected.	Check the motor connection line and connect it correctly.
		Motor connection line malfunctioning.	Replace the motor connection line.
No. 2	TURBOVAC is not supported by the TURBOTRONIK.	TURBOTRONIK and TURBOVAC incompatible. Loose contact in connection line.	Check the system. Repair the connection lines.
No. 3	The TURBOVAC has not attained the target speed within 10 minutes.	Forevacuum pressure $>10^{-2}$ mbar. Pump blocked. High vacuum pressure too high.	Check the forevacuum. Inform the Leybold after-sales service. Check the vacuum chamber.
No. 4	Speed below minimum.	Forevacuum pressure $>10^{-2}$ mbar. Pump blocked. High vacuum pressure too high.	Check the forevacuum. Inform the Leybold after-sales service. Check the vacuum chamber.
No. 5	Temperature in the TURBOTRONIK too high.	Frequent switching between acceleration and braking. Ambient temperature too high. Forevacuum pressure $>10^{-2}$ mbar.	Let the TURBOTRONIK cool down. Ensure an adequate ventilation. Operate the pump under normal load only.
No. 6	Temperature in the TURBOVAC too high or wrong coding.	Frequent switching between acceleration and braking. Poor cooling or cooling line interrupted. (coding error?) Excessive current in the output stage of the TURBOTRONIK; e.g. short-circuit.	Let the pump cool down and operate under normal load only. Check the cooling. Turn off the POWER switch on the TURBOTRONIK, remedy the fault and switch on again.
No. 7	Self-test	Overcurrent, short-circuit Strong mains interference System failure	Briefly switch off the TURBOTRONIK and then switch on again. Check the connections. Call the Leybold service department.
No. 8	Not used.		
No. 9	Wrong mains connection.	Mains voltage selector switch incorrectly set.	Set the mains voltage selector switch correctly; see Section 2.1.

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