

Fault no.:	Flash code s = short l = long	Fault	Fault description	Action requirements		
				1st action	2nd action	3rd action
<b>Please note* lines highlighted in yellow contain the changed assignment of the fault numbers: valid from Index 4/12, 6/12, 4/12A, 6/12A</b>						
<b>Please note* lines highlighted in pale orange contain the changed assignment of the fault numbers: valid from Index 4/11, 6/11</b>						
<b>Please note lines highlighted in light green contain the revised fault numbers: valid for all versions</b>						
0	s,s,s,s	s,s,s,s		unassigned	recheck flash code	
1	s,s,s,s	s,s,s,l		unassigned	recheck flash code	
2	s,s,s,s	s,s,l,s		unassigned	recheck flash code	
3	s,s,s,s	s,s,l,l		unassigned	recheck flash code	
4	s,s,s,s	s,l,s,s	current for combustion air motor too high	combustion air motor or cable harness defective	check / replace combustion air motor	check / replace cable harness of combustion air motor replace electronic PCB
5	s,s,s,s	s,l,s,l	current for combustion air motor too low	combustion air motor or cable harness defective	check / replace combustion air motor	check / replace cable harness of combustion air motor replace electronic PCB
6	s,s,s,s	s,l,l,s	current for combustion air motor too high	combustion air motor or cable harness defective	check / replace combustion air motor	check / replace cable harness of combustion air motor replace electronic PCB
7	s,s,s,s	s,l,l,l		unassigned	recheck flash code	
8	s,s,s,s	l,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
9	s,s,s,s	l,s,s,l		unassigned	recheck flash code	
10	s,s,s,s	l,s,l,s	plausibility of combustion air temperature sensor	combustion air temperature sensor outside tolerance range	check cable of combustion air temperature sensor	check (read) / replace combustion air temperature sensor
11	s,s,s,s	l,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
12	s,s,s,s	l,l,s,s		unassigned	recheck flash code	
13	s,s,s,s	l,l,s,l		unassigned	recheck flash code	
14	s,s,s,s	l,l,l,s		unassigned	recheck flash code	
15	s,s,s,s	l,l,l,l		unassigned	recheck flash code	
15*	s,s,s,s	l,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
16	s,s,s,l	s,s,s,s		unassigned	recheck flash code	
16*	s,s,s,l	s,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
17	s,s,s,l	s,s,s,l		unassigned	recheck flash code	
18	s,s,s,l	s,s,l,s		unassigned	recheck flash code	
19	s,s,s,l	s,s,l,l	plausibility of electronic	heater does not match electronics (e.g. 6 kW PCB in 4 kW heater)	install correct electronics	
20	s,s,s,l	s,l,s,s	plausibility of NTC water temperature	water temperature sensor outside tolerance range	check cable of water temperature sensor	check (read) / replace water temperature sensor 20°C 12.6 k Ω 25°C 10.0 k Ω 40°C 5.0 k Ω 50°C 3.3 k Ω
21	s,s,s,l	s,l,s,l	plausibility of NTC room temperature	room temperature sensor outside tolerance range	check cable of room temperature sensor	check (read) / replace room temperature sensor 15°C 16.2 k Ω 20°C 12.6 k Ω 25°C 10.0 k Ω
22	s,s,s,l	s,l,l,s	plausibility of NTC air temperature	air temperature sensor outside tolerance range	check cable of air temperature sensor	check (read) / replace air temperature sensor 20°C 124.9 k Ω 25°C 100.0 k Ω 50°C 36.0 k Ω check the thermostat plate / air temperature switch / air temperature sensor for damage caused by overheating => inform the customer service
23	s,s,s,l	s,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
24	s,s,s,l	l,s,s,s	current for warm air motor too high	warm air motor failure	check (apply 12 V) / replace warm air motor	replace electronics
25	s,s,s,l	l,s,s,l	current for warm air motor too low	warm air motor or connection plug failure	check / replace warm air motor	replace electronics

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26	s,s,s,l	l,s,l,s	current for warm air motor too high	warm air motor failure	check (apply 12 V) / replace warm air motor	replace current electronics for latest replacement PCB (from version 12 A)	
27	s,s,s,l	l,s,l,l		unassigned	recheck flash code		
28	s,s,s,l	l,l,s,s	current for control panel too high	control panel or control panel cable failure	check / replace control panel cable	replace control panel	replace electronic PCB
29	s,s,s,l	l,l,s,l	current for FrostControl heating element too high	heating element or cable defective	check / replace heating element	replace electronics	
30	s,s,s,l	l,l,l,s	current for solenoid valve 2 KW retaining coil too high	solenoid coil or cable harness defective	check / replace solenoid coil	check / replace cable harness	replace electronic PCB
31	s,s,s,l	l,l,l,l	current for solenoid valve 4 KW retaining coil too high	solenoid coil or cable harness defective	check / replace solenoid coil	check / replace cable harness	replace electronic PCB
32	s,s,l,s	s,s,s,s		unassigned	recheck flash code		
33	s,s,l,s	s,s,s,l	current for solenoid valve 2 KW restraining coil too high	solenoid coil or cable harness defective	check / replace solenoid coil	check / replace cable harness	replace electronic PCB
34	s,s,l,s	s,s,l,s	current for solenoid valve 4 KW restraining coil too high	solenoid coil or cable harness defective	check / replace solenoid coil	check / replace cable harness	replace electronic PCB
35	s,s,l,s	s,s,l,l		unassigned	recheck flash code		
36	s,s,l,s	s,l,s,s	current for ignitor too high	ignitor or cable harness defective	replace ignitor	check / replace cable harness	
37	s,s,l,s	s,l,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
38	s,s,l,s	s,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
39	s,s,l,s	s,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
40	s,s,l,s	l,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
41	s,s,l,s	l,s,s,l	electronic blocked	<b>electronic blocked:</b> – because the air temperature switch and / or water temperature switch opened during operation. – because the air temperature switch is damaged – due to a short-circuit of the combustion air temperature sensor	– check the heating system for over-heating damage – check the thermostat plate / air temperature switch / air temperature sensor for damage caused by overheating => inform the customer service	check / replace: – air temperature switch and cable – water temperature switch – combustion air temperature sensor and cable harness	replace electronic PCB
42	s,s,l,s	l,s,l,s	window switch open	window opened with window switch / bridge for window switch on electronics interrupted	close window / check / replace window switch with cable	check secure fit / contact of bridge on PCB	replace electronic PCB
43	s,s,l,s	l,s,l,l	over voltage higher than 15 V	12 V power supply failure	recondition power supply 12 V	replace electronics	
44	s,s,l,s	l,l,s,s	under voltage lower than 10.5 V	12 V power supply failure	recondition power supply 12 V	replace electronics	
45	s,s,l,s	l,l,s,l	no 230 V supply to Combi E	230 V power supply failure	check 230 V voltage	reset / check 230 V WTS	

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46	s,s,l,s	l,l,l,s	– control panel Combi or energy selector switch Combi E defective  – combustion air motor or hot-air motor defective  – battery earth to the minus terminal Combi defective	– control panel or control panel cable defective – energy selector switch Combi E or control panel connection cable defective – combustion air motor defective. – cable harness defective – electronics defective (paint spray in control panel socket) – internal connection between the (+) carbon brushes and/or DC motor and DC motor casing via carbon dust – earth connection from the power supply is missing	check / replace control panel/cable and plug-in contact on the electronics	check supply line of combustion air motor - black cable for short-circuit to ground or red cable for interruption / replace cable harness (if cable harness not damaged, replace combustion air motor)	check electronic PCB for paint spray in control panel socket (replace electronic PCB)
47	s,s,l,s	l,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
48	s,s,l,l	s,s,s,s		unassigned	recheck flash code		
48*	s,s,l,l	s,s,s,s	water temperature switch over-temperature or air temperature switch over-temperature	<b>fault:</b> – because the air temperature switch and / or water temperature switch opened during operation.	– check the heating system for over-heating damage – check the thermostat plate / air temperature switch / air temperature sensor for damage caused by overheating => inform the customer service	– check / replace the water temperature switch and water temperature sensor – check / replace the air temperature switch / sensor and cable – check / replace the circulating air motor	replace electronic PCB (Error 41 can occur by switching on / off – see error no.41)
49	s,s,l,l	s,s,s,l		unassigned	for over-heating damage		
49*	s,s,l,l	s,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
50	s,s,l,l	s,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
51	s,s,l,l	s,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
52	s,s,l,l	s,l,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
53	s,s,l,l	s,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
54	s,s,l,l	s,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
55	s,s,l,l	s,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
56	s,s,l,l	l,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
57	s,s,l,l	l,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
58	s,s,l,l	l,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
59	s,s,l,l	l,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
60	s,s,l,l	l,l,s,s	power fluctuation	power supply not constant	apply 12 V power supply	replace electronics	
61	s,s,l,l	l,l,s,l	failure due to ignition procedure	ignition spark interfering with electronics	ignitor must have orange label, otherwise replace ignitor	check ignitor / flame rectification electrode cable for damage / replace	replace electronic PCB
62	s,s,l,l	l,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
63	s,s,l,l	l,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
64	s,l,s,s	s,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
65	s,l,s,s	s,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
66	s,l,s,s	s,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
67	s,l,s,s	s,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
68	s,l,s,s	s,l,s,s	failure due to ignition procedure	ignition spark interfering with electronics	ignitor must have orange label otherwise replace ignitor	check ignitor / flame rectification electrode cable for damage / replace	replace electronic PCB

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69	k,l,k,k	k,l,k,l	monitoring the current of the hot-air motor	– electronics defective – hot-air motor defective	replace electronic PCB	replace the circulating air motor	
70	s,l,s,s	s,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
71	s,l,s,s	s,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
72	s,l,s,s	l,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
73	s,l,s,s	l,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
74	s,l,s,s	l,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
75	s,l,s,s	l,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
76	s,l,s,s	l,l,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
77	s,l,s,s	l,l,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
78	s,l,s,s	l,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
79	s,l,s,s	l,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
80	s,l,s,l	s,s,s,s	AC current fluctuation	power supply not constant	apply clean 12 V power supply (e.g. battery)	replace electronic PCB	
81	s,l,s,l	s,s,s,l	failure due to ignition procedure	ignition spark interfering with electronics	install earth cable, part. no.: 34020-57000 (see also service info CB_110925)	– check ignitor / flame rectification electrode cable for damage – replace check / adjust plug distances	replace the old ignitor with a new one with a blue label and red point or a blue label and Index 05
82	s,l,s,l	s,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
83	s,l,s,l	s,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
84	s,l,s,l	s,l,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
85	s,l,s,l	s,l,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
86	s,l,s,l	s,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
87	s,l,s,l	s,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
88	s,l,s,l	l,s,s,s	failure due to ignition procedure	ignition spark interfering with electronics	ignitor must have orange label, otherwise replace ignitor	check ignitor / flame rectification electrode cable for damage / replace	replace electronic PCB
89	k,l,k,l	l,k,k,l	monitoring the current of the combustion motor	– electronics fault – combustion air motor fault	replace electronic PCB	replace combustion air motor	
90	s,l,s,l	l,s,l,s		unassigned	recheck flash code		
91	s,l,s,l	l,s,l,l		unassigned	recheck flash code		
92	s,l,s,l	l,l,s,s		unassigned	recheck flash code		
93	s,l,s,l	l,l,s,l		unassigned	recheck flash code		
94	s,l,s,l	l,l,l,s	combustion air motor running at incorrect speed	heater too hot or combustion air temperature sensor has incorrect value	check heater for damage due to overheating	– check / replace combustion air motor, flue system and combustion air temperature sensor – check gas supply	replace electronic PCB
95	s,l,s,l	l,l,l,l		unassigned	recheck flash code		
96	s,l,l,s	s,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
97	s,l,l,s	s,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
98	s,l,l,s	s,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
99	s,l,l,s	s,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
100	k,l,l,k	k,l,k,k	– cable harness fault – magnetic valve coils short circuit	short circuit on solenoid valve coils	– restart heating – check solenoid valve coils for short-circuit / replace	replace electronic PCB	check / replace cable harness
101	k,l,l,k	k,l,k,l	– cable harness fault – igniter short circuit	short-circuit on the ignitor	– restart heating – check igniter for short-circuit / replace	replace electronic PCB	check / replace cable harness
102	s,l,l,s	s,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB

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103	s,l,l,s	s,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
104	s,l,l,s	l,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
105	s,l,l,s	l,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
106	s,l,l,s	l,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
107	s,l,l,s	l,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
108	s,l,l,s	l,l,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
109	s,l,l,s	l,l,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
110	s,l,l,s	l,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
111	s,l,l,s	l,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
112	s,l,l,l	s,s,s,s	– flame not detected  – poor earth or battery earth to the minus terminal Combi defective	– flame out or not detected (error may only occur after 3 – 5 minutes) – ground connection from the supply voltage is poor or does not exist – magnetic valve nozzle pipe canted	– check gas supply  – check earth connection of supply voltage – check installation of solenoid valve	install earth cable, part. no.: 34020-57000 (see also service info CB_110925)	– check flue system – replace the ignition plugs – replace electronic PCB
113	s,l,l,l	s,s,s,l	flame not expected	ionization voltage present in standby mode	check solenoid valve (stuck in open position)	replace electronics	
114	s,l,l,l	s,s,l,s		unassigned	recheck flash code		
115	s,l,l,l	s,s,l,l		unassigned	recheck flash code		
116	s,l,l,l	s,l,s,s	dirty supply voltage	AC components in supply voltage	check supply voltage, AC components also possible through power supply units or solar systems	only operate heater with battery	replace electronic PCB
117	s,l,l,l	s,l,s,l	dirty supply voltage	AC components in supply voltage	check supply voltage, AC components also possible through power supply units or solar systems	only operate heater with battery	replace electronic PCB
118	s,l,l,l	s,l,l,s	combustion air motor running too slow	combustion air motor running too slow or outside tolerance range	replace electronic PCB (if the Index is lower than 4/12, 6/12)	replace combustion air motor	
119	s,l,l,l	s,l,l,l	combustion air motor running too fast	combustion air motor running too fast or outside tolerance range Ignition spark interfering with electronics	ignitor must have orange label, otherwise replace ignitor	check ignitor / flame rectification electrode cable for damage / replace	replace combustion air motor and / or electronic PCB
120	s,l,l,l	l,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
121	s,l,l,l	l,s,s,l	combustion air motor running at incorrect speed	combustion air motor running at wrong speed / flame unstable	check gas supply	check flue system	– replace ignition plugs – replace electronic PCB
122	s,l,l,l	l,s,l,s		unassigned	recheck flash code		
123	s,l,l,l	l,s,l,l		unassigned	recheck flash code		
124	s,l,l,l	l,l,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
125	s,l,l,l	l,l,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
126	s,l,l,l	l,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
127	s,l,l,l	l,l,l,l	electronic defective or combustion air motor running at incorrect speed	failure in electronic PCB combustion air motor defective cable harness defective	check / replace cable harness	replace combustion air motor	replace electronic PCB
128	l,s,s,s	s,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
129	l,s,s,s	s,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
130	l,s,s,s	s,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
131	l,s,s,s	s,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
132	l,s,s,s	s,l,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
133	l,s,s,s	s,l,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
134	l,s,s,s	s,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB

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135	l,s,s,s	s,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
136	l,s,s,s	l,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
137	l,s,s,s	l,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
138	l,s,s,s	l,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
139	l,s,s,s	l,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
140	l,s,s,s	l,l,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
141	l,s,s,s	l,l,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
142	l,s,s,s	l,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
143	l,s,s,s	l,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
144	l,s,s,l	s,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
145	l,s,s,l	s,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
146	l,s,s,l	s,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
147	l,s,s,l	s,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
148	l,s,s,l	s,l,s,s	combustion air temperature sensor over temperature	<b>electronic blocked:</b> – because the combustion air temperature sensor became too hot during operation due to over-heating – due to a short-circuit of the combustion air temperature sensor	check heater for damage due to overheating	– check / replace combustion air temperature sensor and cable harness – check / replace warm air motor	replace electronic PCB
149	l,s,s,l	s,l,s,l	water temperature switch over-temperature or air temperature switch over-temperature	<b>electronic blocked:</b> – because the water temperature switch and / or air temperature switch opened during operation.	– check the heating system for over-heating damage – check the thermostat plate / air temperature switch / air temperature sensor for damage caused by overheating => inform the customer service	– check / replace the water temperature switch and water temperature sensor – check / replace the air temperature switch / sensor and cable – check / replace the circulating air motor	replace electronic PCB
149*	l,s,s,l	s,l,s,l	water temperature switch over-temperature or air temperature switch over-temperature	<b>fault:</b> – because the water temperature switch and / or air temperature switch opened during operation.	– check the heating system for over-heating damage – check the thermostat plate / air temperature switch / air temperature sensor for damage caused by overheating => inform the customer service	– check / replace the water temperature switch and water temperature sensor – check / replace the air temperature switch / sensor and cable – check / replace the circulating air motor	replace electronic PCB

Fault no.:	Flash code s = short l = long	Fault	Fault description	Action requirements			
				1st action	2nd action	3rd action	
<b>Please note* lines highlighted in yellow contain the changed assignment of the fault numbers: valid from Index 4/12, 6/12, 4/12A, 6/12A</b>							
<b>Please note* lines highlighted in pale orange contain the changed assignment of the fault numbers: valid from Index 4/11, 6/11</b>							
<b>Please note lines highlighted in light green contain the revised fault numbers: valid for all versions</b>							
150	l,s,s,l	s,l,l,s	air temperature switch over-temperature or water temperature switch over-temperature	<b>electronic blocked:</b> – because the air temperature switch and / or water temperature switch opened during operation.	– check the heating system for over-heating damage – check the thermostat plate / air temperature switch / air temperature sensor for damage caused by overheating => inform the customer service	– check / replace the water temperature switch and water temperature sensor – check / replace the air temperature switch / sensor and cable – check / replace the circulating air motor	replace electronic PCB
150*	l,s,s,l	s,l,l,s	air temperature switch over-temperature or water temperature switch over-temperature	<b>fault:</b> – because the air temperature switch and / or water temperature switch opened during operation.	– check the heating system for over-heating damage – check the thermostat plate / air temperature switch / air temperature sensor for damage caused by overheating => inform the customer service	– check / replace the water temperature switch and water temperature sensor – check / replace the air temperature switch / sensor and cable – check / replace the circulating air motor	replace electronic PCB
151	l,s,s,l	s,l,l,l		unassigned	recheck flash code		
152	l,s,s,l	l,s,s,s		unassigned	recheck flash code		
153	l,s,s,l	l,s,s,l		unassigned	recheck flash code		
154	l,s,s,l	l,s,l,s		unassigned	recheck flash code		
155	l,s,s,l	l,s,l,l		unassigned	recheck flash code		
156	l,s,s,l	l,l,s,s		unassigned	recheck flash code		
157	l,s,s,l	l,l,s,l		unassigned	recheck flash code		
158	l,s,s,l	l,l,l,s		unassigned	recheck flash code		
159	l,s,s,l	l,l,l,l		unassigned	recheck flash code		
160	l,s,l,s	s,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
161	l,s,l,s	s,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
162	l,s,l,s	s,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
163	l,s,l,s	s,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
164	l,s,l,s	s,l,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
165	l,s,l,s	s,l,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
166	l,s,l,s	s,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
167	l,s,l,s	s,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
168	l,s,l,s	l,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
169	l,s,l,s	l,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
170	l,s,l,s	l,s,l,s	voltage fluctuation	power supply not constant	apply 12 V power supply	replace electronics	
171	l,s,l,s	l,s,l,l	failure due to ignition procedure	ignition spark interfering with electronics	ignitor must have orange label, otherwise replace ignitor	check ignitor / flame rectification electrode cable for damage / replace	replace electronic PCB
172	l,s,l,s	l,l,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
173	l,s,l,s	l,l,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
174	l,s,l,s	l,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
175	l,s,l,s	l,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
176	l,s,l,l	s,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
177	l,s,l,l	s,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater	replace electronic PCB
178	l,s,l,l	s,s,l,s	failure due to ignition procedure	ignition spark interfering with electronics	install earth cable, part. no.: 34020-57000 (see also service info CB_110925)	– check ignitor / flame rectification electrode cable for damage / replace – check / adjust plug distances	replace the old ignitor with a new one with a blue label and red point or a blue label and Index 05
179	l,s,l,l	s,s,l,l		unassigned	recheck flash code		

Fault no.:	Flash code s = short l = long	Fault	Fault description	Action requirements		
				1st action	2nd action	3rd action
<b>Please note* lines highlighted in yellow contain the changed assignment of the fault numbers: valid from Index 4/12, 6/12, 4/12A, 6/12A</b>						
<b>Please note* lines highlighted in pale orange contain the changed assignment of the fault numbers: valid from Index 4/11, 6/11</b>						
<b>Please note lines highlighted in light green contain the revised fault numbers: valid for all versions</b>						
180	l,s,l,l	s,l,s,s		unassigned	recheck flash code	
181	l,s,l,l	s,l,s,l		unassigned	recheck flash code	
182	l,s,l,l	s,l,l,s		unassigned	recheck flash code	
183	l,s,l,l	s,l,l,l		unassigned	recheck flash code	
184	l,s,l,l	l,s,s,s	combustion air temperature sensor overheating	electronics blocked due to operational combustion air temperature sensor overheating or combustion air temperature sensor short-circuit	check heater for damage due to overheating – check / replace combustion air temperature sensor and cable harness – check / replace warm air motor – check gas supply	replace electronic PCB
185	l,s,l,l	l,s,s,l		unassigned	recheck flash code	
186	l,s,l,l	l,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater
187	l,s,l,l	l,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater
188	l,s,l,l	l,l,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater
189	l,s,l,l	l,l,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater
190	l,s,l,l	l,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater
191	l,s,l,l	l,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater
192	l,l,s,s	s,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater
193	l,l,s,s	s,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater
194	l,l,s,s	s,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater
195	l,l,s,s	s,s,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater
196	l,l,s,s	s,l,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater
197	l,l,s,s	s,l,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater
198	l,l,s,s	s,l,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater
199	l,l,s,s	s,l,l,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater
200	l,l,s,s	l,s,s,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater
201	l,l,s,s	l,s,s,l	electronic fault	failure in electronic PCB	recheck flash code	restart heater
202	l,l,k,k	l,k,l,k	– flame not detected  – poor earth or battery earth to the minus terminal Combi defective	– flame out or not detected (error may only occur after 3 – 5 minutes) – ground connection from the supply voltage is poor or does not exist – magnetic valve nozzle pipe canted	– check gas supply  – check earth connection of supply voltage – check installation of solenoid valve	install earth cable, part. no.: 34020-57000 (see also service info CB_110925)  – check flue system – replace the ignition plugs – replace electronic PCB
203	l,l,s,s	l,s,l,l	flame not expected	ionization voltage present in standby mode	check solenoid valve (stuck in open position)	replace electronic PCB
204	l,l,s,s	l,l,s,s		unassigned	recheck flash code	
205	l,l,s,s	l,l,s,l		unassigned	recheck flash code	
206	l,l,s,s	l,l,l,s	dirty supply voltage	AC components in supply voltage	check supply voltage, AC components also possible through power supply units or solar systems	only operate heater with battery
207	l,l,s,s	l,l,l,l	dirty supply voltage	AC components in supply voltage	check supply voltage, AC components also possible through power supply units or solar systems	only operate heater with battery
208	l,l,s,l	s,s,s,s	combustion air motor running too slowly	combustion air motor running too slowly or outside tolerance range	replace electronic PCB (if the Index is lower than 4/12, 6/12)	replace combustion air motor
209	l,l,s,l	s,s,s,l	combustion air motor running too fast	combustion air motor running too fast or outside tolerance range Ignition spark interfering with electronics	ignitor must have orange label, otherwise replace ignitor	check ignitor / flame rectification electrode cable for damage / replace
210	l,l,s,l	s,s,l,s	electronic fault	failure in electronic PCB	recheck flash code	restart heater



Fault no.:	Flash code s = short l = long	Fault	Fault description	Action requirements		
				1st action	2nd action	3rd action
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Please note* lines highlighted in pale orange contain the changed assignment of the fault numbers: valid from Index 4/11, 6/11						
Please note lines highlighted in light green contain the revised fault numbers: valid for all versions						
211	I,I,S,I	S,S,I,I	combustion air motor running at incorrect speed	combustion air motor running at wrong speed / flame unstable	check gas supply	check flue system – replace ignition plugs – replace electronic PCB
212	I,I,S,I	S,I,S,S		unassigned	recheck flash code	
213	I,I,S,I	S,I,S,I		unassigned	recheck flash code	
214	I,I,S,I	S,I,I,S	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
215	I,I,S,I	S,I,I,I	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
216	I,I,S,I	I,S,S,S	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
217	I,I,S,I	I,S,S,I	electronic defective or combustion air motor running at incorrect speed	failure in electronic PCB combustion air motor defective cable harness defective	check / replace cable harness	replace combustion air motor replace electronic PCB
218	I,I,S,I	I,S,I,S	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
219	I,I,S,I	I,S,I,I	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
220	I,I,S,I	I,I,S,S	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
221	I,I,S,I	I,I,S,I	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
222	I,I,S,I	I,I,I,S	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
223	I,I,S,I	I,I,I,I	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
224	I,I,I,S	S,S,S,S	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
225	I,I,I,S	S,S,S,I	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
226	I,I,I,S	S,S,I,S	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
227	I,I,I,S	S,S,I,I	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
228	I,I,I,S	S,I,S,S	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
229	I,I,I,S	S,I,S,I	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
230	I,I,I,S	S,I,I,S	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
231	I,I,I,S	S,I,I,I	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
232	I,I,I,S	I,S,S,S	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
233	I,I,I,S	I,S,S,I	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
234	I,I,I,S	I,S,I,S	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
235	I,I,I,S	I,S,I,I	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
236	I,I,I,S	I,I,S,S	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
237	I,I,I,S	I,I,S,I	electronic fault	failure in electronic PCB	recheck flash code	restart heater replace electronic PCB
238	I,I,I,S	I,I,I,S	combustion air temperature sensor overheating	<b>electronic blocked:</b> – because the combustion air temperature sensor became too hot during operation due to over-heating – due to a short-circuit of the combustion air temperature sensor	check heater for damage due to overheating	– check / replace combustion air temperature sensor and cable harness – check / replace warm air motor replace electronic PCB

Fault no.:	Flash code s = short l = long	Fault	Fault description	Action requirements			
				1st action	2nd action	3rd action	
Please note* lines highlighted in yellow contain the changed assignment of the fault numbers: valid from Index 4/12, 6/12, 4/12A, 6/12A							
Please note* lines highlighted in pale orange contain the changed assignment of the fault numbers: valid from Index 4/11, 6/11							
Please note lines highlighted in light green contain the revised fault numbers: valid for all versions							
239	l,l,l,s	l,l,l,l	water temperature switch over-temperature or air temperature switch over-temperature	<b>electronic blocked:</b> – because the water temperature switch and / or air temperature switch opened during operation.	– check the heating system for over-heating damage – check the thermostat plate / air temperature switch / air temperature sensor for damage caused by overheating => inform the customer service	– check / replace the water temperature switch and water temperature sensor – check / replace the air temperature switch / sensor and cable – check / replace the circulating air motor	replace electronic PCB
239*	l,l,l,s	l,l,l,l	water temperature switch over-temperature or air temperature switch over-temperature	<b>fault:</b> – because the water temperature switch and / or air temperature switch opened during operation.	– check the heating system for over-heating damage – check the thermostat plate / air temperature switch / air temperature sensor for damage caused by overheating => inform the customer service	– check / replace the water temperature switch and water temperature sensor – check / replace the air temperature switch / sensor and cable – check / replace the circulating air motor	replace electronic PCB
240	l,l,l,l	s,s,s,s	air temperature switch over-temperature or water temperature switch over-temperature	<b>electronic blocked:</b> – because the air temperature switch and / or water temperature switch opened during operation.	– check the heating system for over-heating damage – check the thermostat plate / air temperature switch / air temperature sensor for damage caused by overheating => inform the customer service	– check / replace the water temperature switch and water temperature sensor – check / replace the air temperature switch / sensor and cable – check / replace the circulating air motor	replace electronic PCB
240*	l,l,l,l	s,s,s,s	air temperature switch over-temperature or water temperature switch over-temperature	<b>fault:</b> – because the air temperature switch and / or water temperature switch opened during operation.	– check the heating system for over-heating damage – check the thermostat plate / air temperature switch / air temperature sensor for damage caused by overheating => inform the customer service	– check / replace the water temperature switch and water temperature sensor – check / replace the air temperature switch / sensor and cable – check / replace the circulating air motor	replace electronic PCB
241	l,l,l,l	s,s,s,l		unassigned	recheck flash code		
242	l,l,l,l	s,s,l,s		unassigned	recheck flash code		
243	l,l,l,l	s,s,l,l		unassigned	recheck flash code		
244	l,l,l,l	s,l,s,s		unassigned	recheck flash code		
245	l,l,l,l	s,l,s,l		unassigned	recheck flash code		
246	l,l,l,l	s,l,l,s		unassigned	recheck flash code		
247	l,l,l,l	s,l,l,l		unassigned	recheck flash code		
248	l,l,l,l	l,s,s,s		unassigned	recheck flash code		
249	l,l,l,l	l,s,s,l		unassigned	recheck flash code		
250	l,l,l,l	l,s,l,s		unassigned	recheck flash code		
251	l,l,l,l	l,s,l,l		unassigned	recheck flash code		
252	l,l,l,l	l,l,s,s		unassigned	recheck flash code		
253	l,l,l,l	l,l,s,l		unassigned	recheck flash code		
254	l,l,l,l	l,l,l,s		unassigned	recheck flash code		
255	l,l,l,l	l,l,l,l		unassigned	recheck flash code		