

Function	Actuation	Display	Remark
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Fault group	In the test programme LED's Display		At the customer LED Display		Appliance behaviour if fault occurs	Results of the internal appliance test	Measures
	Act. Clean Sani	Display	ڪ	Display			
	0 0 0	E:00				Not a fault	
Power module	0 05	E:01	0	E:01	→ End of programme	Pump actuation or pump switchover defective.	Replace power module.
	, ,	E:02		E:02	Operation without heater.	Working relay for heater defective.	
		E:03		E:03	→ End of programme	Working relay/safety relay for heater defective.	
		E:04				Reserved	
		E:05		E:05	Programme stopped with draining, water switch run continuously.	Triac for water switch motor defective.	
Door	020	E:06	0	E:06	Stop in current position, no appliance function possible.	Hall sensor defective, cable interrupted or power module defective.	Power module in working order if supply voltage is already at the removed Hall sensor plug. Otherwise change Hall sensor.

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Fault group		In the test programme		At the stomer	Appliance behaviour if fault occurs	Results of the internal appliance test	Measures
	LED's	Display	LED	Display			
	Act. Clean Sani		凸				
Heating	020202	E:07	0		Operation without auxiliary drying system.	Heating circuit interrupted, fan defective, auxiliary electronics defective, cables interrupted.	Test components (applies to appliances with auxiliary drying system only).
		E:08			Operation without heater	Circulation pump detects too low water level in pump sump.	Start test programme, check filling. Leaks? Bowls/pans overturned in the appliance?
		E:09		E:09		Heating circuit interrupted (resistor, supply cables, contacts of the safety relay on power module).	Measure heating resistors. Check cables.
		E:10				Heat emission too low, deposits on heater.	Test water hardness; if required, descale/clean. If repeated, replace heat pump.
		E:11	-	E:11		NTC fault Fault in supply cable NTCs.	Measure NTCs. Check cables.
		E:12				Reserved	
		E:13				Water temperature too high (> 75 °C)	Protective measure – not a fault, check water supply temperature.

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Fault group	In the prograi		At the customer		Appliance behaviour if fault occurs	Results of the internal appliance test	Measures
	LED's	Display	LED	Display			
	Act. Clean Sani		凸				
Fill	₹ 0 0	E:14	•	E:14	Programme stopped with draining	No impulses from flow sensor, although water detected by circulation pump.	Check cables, test flow sensor (reed switch).
		E:15	***	E:15	Programme stopped with intermittent pumping	Base pan safety switch active. Appliance cannot be switched off.	Search for cause of water in the base pan.
		E:16	0	E:16	_	Water supply (impulses from flow sensor) without actuation of the filling valve.	Check filling valve. Check actuation of filling valve.
		E:17	0	E:17	Programme stopped with draining	Water supply rate too high according to flow sensor.	Check flow controller in the filling valve.
		E:18	•		Wait for supply; programme stopped with draining	Water supply rate too low according to flow sensor or no water supply.	Check water supply.
Circulation	Ma M	E:19				Reserved	
pump	\$\\\\\$\\\\\$\\\\\\$\\\\\\$\\\\\\\\\\\\\\\	E:20		E:20	→ End of programme	Resistance values of circulation pump wrong.	Check cables, measure windings.
		E:21		E:21	→ End of programme	Circulation pump blocked	Check for foreign objects, if required replace.

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Fault group	In the progra			At the stomer	Appliance behaviour if fault occurs	Results of the internal appliance test	Measures
	LED's	Display	LED	Display			
	Act. Clean Sani		凸				
Detergent-	MM	E:22				Reserved	
solution pump	Z 5050	E:23		E:23	→ End of programme	Resistance values of drain pump wrong.	Measure windings, check cables.
		E:24	•	E:24	→ End of programme	Draining not possible. Missing cover?	Check water drainage (hose kinked, blocked, delivery head, pump cover). Attach cover.
		E:25	•	E:25	→ End of programme	Drain pump blocked; perhaps missing cover.	Check for foreign objects. Attach cover.
Water points		E:26			Water points actuated continuously	No impulses from water points despite actuation.	Check the line. Measure mains voltage on the motor. Test water points switch.
		E:27]			Reserved	
AquaSensor		E:28			Operation without AquaSensor	Calibration of AquaSensor not successful.	Check cables. AquaSensor dirty. AquaSensor available as standard for this appliance?
In-house		E:29				Reserved	
		E:30			Normal operation	Overvoltage	Not relevant to customer service
		E:31				Circulation pump overloaded	Not relevant to customer service
		E:32				Drain pump overloaded	Not relevant to customer service

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	Display	Can be skipped?	Time (s)	Value	Check Measure	Remark
Preparation					Remove approx. 0.5 I water from salt dispenser.	Regeneration valve must be checked for leaks at appropriate customer specifications (see also steps with display S:11 + S:33).
CoilCheck	S:00	No	approx. 20			Check the drain pump. Activate the drain pump and place the water switch in the top basket position.
Check flow sensor and flow controller	S:01 - S:03 (Step S:04 to S:06 are displayed only if error occurs E 18)	No	approx. 10 –100			Add 50 ml (filling valve, drainage pump and circulation pump are activated in succession).
Pause	S:07 (Step is not displayed)	Yes	10			
Fill + pump	S:08 – S:10	No	approx. 100			Heat exchanger is overfilled, residual quantity in the pump sump is pumped off ==> heat exchanger full (contains 3.1 I water).
Pause	S 11	Yes	10		Visual inspection: water level in salt dispenser.	No change to water level ==> Regeneration valve leakproof.
Fill	S 12	No	approx. 36	1.5 l		All the water is conveyed to the pump sump via the heat exchanger.

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Function Actuation Display Remark

	Display	Can be skipped?	Time (s)	Value	Check Measure	Remark
Pause	S 13	Yes	10		Visual inspection: water level in appliance.	Water level on upper edge of fine mesh filter (= 1.5 l in pump sump).
Fill	S:14 – S:15	No	approx. 60	2.5		Total: 4 I in appliance
Circulate	S 16	Yes	15			Circulation pump must not "snorkel".
Dispense (detergent)	S 17	Yes	10			
Circulate + heat + calibrate AquaSensor	S:18 – S:19	No	110			
Zeolith fan + heater + circulate	S:20 – S:21	No	1200			During Zeolith heating approx. +1 °C/min temperature increase.
Pause + fan	S 22	Yes	20			Fan runs on for 60 seconds.
Circulate + dispense (rinse aid)	S:23 – S:25	Yes	65			Number of impulses = set value of dispensed rinse aid.
Circulate + heat + change position of water switch	S:26 – S:27	Yes	approx. 480	65 °C		During heating +2.5 °C/min. Change every 30 s roof shower head, top basket, bottom basket.
Pump off	S 28	No	45			
Drain heat exchanger	S 29	Yes	60			Check outlet valve
Pause	S 30	Yes	10		Visual inspection: water level in appliance.	Water level must be over handle of coarse filter
Pump off + drain heat exchanger + fill + regenerate	S:31 – S:33	No	approx. 20			Drain the complete appliance.

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Function	Actuation	Display	Remark
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	Display	Can be skipped?	Time (s)	Value	Check Measure	Remark
Pause	S 34	Yes	10		Visual inspection: water level in salt dispenser.	Water level in salt dispenser must be increased by several cm.
Pump off + drain heat exchanger + fill	S:35 – S:36	No	approx. 96	41		Rinse the brine solution out of the heat exchanger and pump sump.
Pump off + drain (heat exchanger)	S 37	No	30			Drain the complete appliance.
Check whether appliance was drained (activates circulation pump and drain pump)	S:38 – S:39 (Step S:40 to S:41 are displayed only if error occurs E 24)	No	approx. 10 –120			Self-check whether appliance was drained.
End of test programme	"0" on display or "End LED" is lit				Switch off main switch	Test has ended. When the appliance is next switched on, the normal rinse programme is displayed.
Stop					Perform reset	Is possible at any time by pressing the Start/Stop button for longer than 3 seconds.

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Function	Actuation	Display	Remark
Operating diagram			Button name
Reset	0 ABC	Start	Switch on the main switch.
	① ABC	0:01	Press "Start" for 3 seconds.
Select special programmes	(A) (B) (C)	Start	Switch off main switch.
	① ABC	San	Hold down buttons "B" + "C".
	① A B C	8	Switch on the main switch.
		Ö P0	Release buttons.
Select special programmes	①	6 P0P7	Press button "B" until required programme is indicated.
		P0 P1 P2 P3 P4 P5 P6 P7	Fault memory Customer service programme Not relevant to customer service Demonstration programme

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Function	Actuation	Displa	y Remark
Read out fault memory	① AB©	O PO	Activate: Press button "C".
	① AB©	C:00-C	Storage space number: Hold down button "C".
	The state of the s	E:00-E	Storage space contents (fault code): Release button "C".
Customer service test programme	① &®©	ŏ P1	Press button "B" until P1 is displayed.
	① ABC	S:00 to S:39	Activate: Press button "C".
Skip test step	①	S:00 to S:39	Press button "B" It is not possible to skip all test steps. See "Test programme" document.
	·		
End special programmes			
P0	Ω ⊗ ©	Ö	Switch off main switch.
P1	①	0:01	Press "Start" for 3 seconds (Reset).

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Select demonstration programme	① &®©	6 P7	Press button "B" until P7 is displayed.
	① &®©	o Various	Activate: Press button "C".
	Door		If operation from front: Open and close door again.
			If operation from above: Close and open door and close again.
End demonstration programme	Door		Only if operation from above: When programme is running, open door.
	①	0:01	Press "Start" for 3 seconds (Reset).
	①	Sant C	Simultaneously press buttons "B" + "C".
	(A) (B) (C)	Seri	Switch off main switch.

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