



	play rogram		splay stomer	Description	Appliance beha	viour	Results of internal check	Measures			
Display	Act. Clean Sani	Display	LED End	LED off LED on flashes slow flashes quick							
E:00	● ※			No error							
h:00 –	h:00 – h:24		No error	Appliance does not s	start	Delay timer is activated!	No appliance fault!				
All LED	o's are on				Appliance without fu	ınction	Appliance must be disconnected fro (main switch on/off is not adequate!		ter flash process		
*	A LEC)'s flashi	ng	Interface error	Stops in current posi Appliance without fu	,	Communication error between the electronics	 Check D-bus plug connections (3-portions) Disconnect appliar supply (unplug and Run Flash proces) Replace module 	ole wire) for ion faults nce from the power d plug in again)		
E:01	E:01 E:02	E:01	•		→ End of programm	ne	Pump control or pump switchover defective				
E:02		E:02			Operates without he	ater	Working relay for heater defective	Replace the power m	nodule		
E:03		E:03			Operates without aud drying system		Working relay for auxiliary heater defective	- Replace zeolite heater - Replace the power module			
E:04	0 05	E:04		Internal fault power module	Operates without he	eater	Ground fault at zeolite heaterSafety relay heater defective				
2.04		2.07			Due to manufacture, new appliances un error code E:04 once during the first 8 w			No appliance fault!			
E:05		E:05	•		Water switch is runni continuously → progri termination with drair	ously → programme		Replace the power module			
E:06	05\$			⊃∑∳< E:06		Door Hall sensor	Stops in current pos	ition,	Wire to the Hall sensor interrupted or power module defective	Check wire / plugs Measure supply volta sensor	age on the Hall
	W			fault	appliance without fur		Hall sensor defective	→ If voltage on the Hall sensor is o.k., replace Hall sensor			
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	play rogram		splay stomer		Description	Appliance behaviour	Results of internal check	Measures								
	LED		LED		LED		LED		LED		LED		LED off LED on			
Display	Act. Clean Sani	Display	End -	ί,	flashes quick											
E:07						Operates without auxiliary drying system	Fan defective or blocked, module on the fan defective	Check components and connection wires, measure winding. (Only on appliances with Zeolite drying system)								
E:08							Heat pump detects too low water level in pump sump.	Heat exchanger valve leaky Bowls / pans overturned in the appliance?								
						Operates without heater	Low voltage	no appliance fault!								
E:09		E:09					Heating circuit interrupted (resistance, supply wires, contacts of the safety relay on power module)	Measure heater resistance Check wires								
E:10	0200				Heating fault	Operates without Zeolite - drying system	Zeolite heater heating circuit interrupted (resistance / supply wires)	Measure heater resistance Check wires								
						(Applies only to appliances with Zeolite drying system)	Fan module defective	Check component								
							Wires interrupted	Check wires								
E:11		E:11				Operates without heater	NTC resistance values outside permitted range	Measure NTCs								
		L.11				Operates without fleater	Wire or plug interrupted	Check wires / plugs								
E:12						Operates without auxiliary drying system	NTC resistance values outside permitted range	Measure NTCs								
E:13						Operates without heater	Water temperature too high (>75 °C)	Protective measure – no appliance fault! Check temperature of water supply								

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	play rogram	Display Customer		Description	Appliance behaviour	Results of internal check	Measures		
Display	Act. Clean Sani	Display		D .	LED off LED on flashes slow flashes quick				
E:14		E:14	•	•		Programme stops with draining	No impulses from flow sensor, although water is detected by heat pump	Check wires, test flow sensor (reed switch)	
E:15		E:15	•	₹		Programme stops with	Base carrier safety switch active. Appliance cannot be switched off	Search for cause of water in the base carrier	
E:16	∑ ∳ ₹0 0	E:16	•		Filling fault	intermittent pumping	Water supply (impulses from flow sensor) without activation of the filling valve	Check filling valve Check actuation of filling valve	
E:17		E:17	•			Programme stops with draining	Water supply rate too high according to flow sensor	Check flow controller in the filling valve	
E:18				•		Wait for supply; programme stops with draining	Water supply rate too low according to flow sensor or no water supply	Check water supply	
E:19							Reserved		
E:20	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	E:20	•		Circulation pump fault	→ End of programme	Resistance values of heat pump wrong	Check wires / plugs Measure resistance values of windings	
E:21		E:21	•			→ End of programme	Heat pump blocked	Check heat pump for foreign objects, if required replace	

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	s play rogram		splay stomer		Description	Appliance behaviour	Results of internal check	Measures										
	LED		LED		LED		LED		LED		LED		LED		LED off			
Display	Act. Clean Sani	Display	Enc	<u>.</u>	flashes quick													
E:22		E:22	• •			→ End of programme	Residual water in the pump sump, as filters dirty	Clean filters										
5 00		- 00				> Factor and a second	Resistance values of drain pump	Check wires / plugs										
E:23		E:23	23 •			→ End of programme	wrong	Measure resistance values of windings										
							Non-return valve leaky	Check non-return valve for leaks										
E:24		E:24	24	•	Drain pump fault	→ End of programme	Draining not possible. Drain pump cover missing from pump sump	Check water drainage (hose kinked, blocked, delivery height, pump cover) → Attach drain pump cover										
							Drain pump blocked (from FD 9101 till FD 9108)	Check drain pump for foreign objects										
E:25		E:25		•		→ End of programme	Drain pump blocked	Check drain pump for foreign objects										
2.20		L.20					Drain pump cover missing from pump sump	Attach drain pump cover										
								Check wires										
E:26					Water switch fault	Permanet activation of water switch	No impulses from water switch despite actuation	Measure mains voltage on the motor										
								Test switch at water switch										
E:27		E:27	•		Undervoltage fault	→ End of programme	Continuous undervoltage (<170 V)	No appliance fault!										
							Appliance without AquaSensor	Appliance equipped with AquaSensor?										
E:28					AquaSensor fault	Operates without AquaSensor	Calibration of AquaSensor not	Check wires										
							successful	AquaSensor dirty?										

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	splay rogram	Display Customer		Description	Appliance behaviour Results of internal check		Measures
	LED		LED	○ LED off			
Display	Act. Clean Sani	Display	End 🚣	flashes slow flashes quick			
E:29					Stops in current position, appliance without function, Malfunctions, unsatisfactory rinsing / drying result	Undervoltage (<170 V / 190 V)	No appliance fault!
E:30				Internal error	Appliance switches off	Overvoltage (>290 V)	No appliance fault!
E:31				codes		Reserved	Not relevant to customer service
E:32						Reserved	Not relevant to customer service

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Customer Service Program

Function	Display	Remark				
	Display	Can be skipped	Time (s)	Value	Check / Measure	Remark

1.1 Customer Service Program

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:04 + S:17)
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	No	approx . 10-100			Add 50 ml (filling valve, drainage pump and circulation pump are activated in succession).
Pause	S:02	No	10			
Fill + pump	S:03	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:04	No	10		Visual inspection: water level in salt dispenser.	No change to water level ==> Regeneration valve leakproof.
Fill	S:05	No	approx 40	1,5 I	Check waterinlet amount	Within of 40s should the filling amount achieved. The heat exchanger will be overfilled.
Pause	S:06	No	10		Visual inspection: water level in appliance.	Water level on upper edge of fine mesh filter (= 1.5 l in pump sump).
Fill	S:07	No	approx 60	2,5 I		Total: 4 I in appliance
Circulate	S:08	No	15			Circulation pump must not "snorkel".
Dispense (detergent)	S:09	No	10			

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Customer Service Program

Function	Display	Remark					
	Display	Can be skipped	Time (s)	Value	Check / Measure	Remark	
Circulate + heat + calibrate AquaSensor	S:10	Nein	110				
Circulate + heat	S:11	Yes		40 °C		Increase of temperature during heating +2.5 °C/min	
Pause	S:12	No	5				
Circulate + dispense (rinse aid)	S:13	No	60			Number of impulses = set value of dispensed rinse aid	
Circulate + heat + change position of water switch	S:14	Yes	approx 480	65 °C		Increase of temperature during heating +2.5 °C/min. Change every 30 s roof shower head, top basket, bottom basket.	
Pump off	S:15	No	45			Tightness test of outlet valve Water-level at heat exchanger is not supposed to falling off	
Drain heat exchanger	S:16	No	60			Check outlet valve	
Pause	S:17	No	10		Visual inspection: water level in appliance.	Water level must be over handle of coarse filter	
Pump off + drain heat exchanger + fill + regenerate	S:18	No	approx 20			Drain the complete appliance	
Pause	S:19	No	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:20	No	approx 100	41		Rinse the brine solution out of the heat exchanger and pump sump.	

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Customer Service Program

Function	Display	Remark				
	Display	Can be skipped	Time (s)	Value	Check / Measure	Remark
Pump off + drain (heat exchanger)	S:21	No	30			Drain the complete appliance
Check whether appliance was drained (activates circulation pump and drain pump	S:22	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

1.2 Reset program

Reset			Perform reset	Is possible at any time by pressing the button "Start" for longer than 3 seconds

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Service-Programme

Function		Actuation	Display	Remark
1.1 Operating diagram				

A B C A B C Start Start

а в с

Button name

Panels are by way of example, different designs are possible

1.2 Special programmes

Precondition	P	(A) (B) (C)	Start	Switch on the appliance: - Appliance is in rinsing program -> in this case carry out "Reset", switch off the appliance and switch it on again. - Appliance is in program selection -> in this case see next step (selection)
Selection	P	ABC	Start	Switch off the appliance
	①		Start	Press and hold down buttons "B" + "C"
	P	A B ©	Start	Press the main switch

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Service-Programme

Function	Actuation			Display	Remark
		A B ©	Start	P0	Release buttons when P0 is displayed
	1)	(A) (B) (C)	Start	P0 P7	Press button "B" until required programme is selected
Select				P0 P1 P2 P3 P4 P5 P6 P7	Error memory Customer service test programme Not relevant to customer service Demonstration programme
1.3 Read out er	ror memory				
	(1)	A B ©	Start	P0	Activate: Press button "C"
	()	ABQ	Start	C:00C:07	Storage space number: Hold down button "C"
		Ť		E:00E:32	Storage space contents (fault code): Release button "C"
1.4 Customer se	ervice test pro	gramme			
	①	(A) (B) (C)	Start	P1	Press button "B" until P1 is displayed
	1)	(A) (B) (C)	Start	S:00S:xy	Activate: Press button "C"
Skip test step	①	A B ©	Start	S:00S:xy	Press button "B" Not all test steps can be skipped (see customer service test programme)

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Service-Programme

Function	Actuation	Display	Remark
1.5 Special prog	ramme stopped	,	•
In error memory (P0)	(A) (B) (C)	Start	Switch off main switch
In customer service	① AB©	0:01	Press "Start" button for 3 seconds (Reset)
test programme (P1)	(A) (B) (C)	Start	Switch off main switch
1.6 Demonstration	on programme	,	
		Start P7	Press button "B" until P7 is displayed
Select	① AB©	Start 1:23	Activate: Press button "C"
0.000	Door		If operation from front: Open and close door again
	D001		If operation from above: Close and open door and close again
	Door		Only if operation from above: When programme is running, open door
Fod	① AB©	0:01	Press "Start" button for 3 seconds (Reset)
End		Start	Hold down buttons "B" + "C"
	(A) (B) (C)	Start	Switch off main switch

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