



	<b>Display</b> CS Program		Display Customer Description Appliance behaviour Results of internal check		Measures			
Display	LED Act.   Clean   Sani	Display	LED	○ LED off LED on	*) only for appliances with Zeolite drying system			
ызріцу	mm End J	<u>-</u>	<u>_</u>	flashes fast flashes slow				
E:00	○ <b>●</b> ※	○ • 🔆		No error				
h:00 –	h:24			No error	Appliance does not start	Delay timer is activated!	No appliance fault!	
All LED	O's are on				Appliance without function	Appliance must be disconnected fro (main switch on/off is not adequate!)	m the power supply after flash process	
* 1	LEC	o's flashing		Interface error	Stops in current position, Appliance without function	Communication error between the electronics  (For appliances with piezo control modules the cause can also be water in the bottom tray)	<ul> <li>Disconnect appliance from the power supply (unplug and plug in again)</li> <li>Check D-bus plug-and-socket connections (3-pole wire) for electrical connection faults</li> <li>Run Flash process again</li> <li>Replace module</li> </ul>	

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	splay rogram		i <mark>splay</mark> stome	r	Description Appliance behaviour		Results of internal check	Measures		
	LED	Displ	ay	LED	○ LED off ♣ LED on	*) only for appliances with Zeolite drying system				
Display	Act. Clean Sani		4	4	LED on flashes fast flashes slow					
							El. Connection to pumps interrupted	Check wire / connectors (At pumps and power module)		
E:01		E:01	₹.			→ End of program	Voltage drops because of bad main connecting	Check connection of the main connecting at appliance back side and socket-outlet		
							Power module defect (internal pump control)	Start Test program  Just if E:01 occur again, power module has to replaced!		
E:02	0 05	E:02		XXX	Internal fault power module	I Cherates Without heating	Heater relay defective	Replace the power module		
E:03		E:03				Operates without auxiliary drying system *)	Relay for auxiliary heater defective			
E:04				E:04				Operates without heater	- Ground fault at zeolite heater - Safety relay heater defective	- Replace zeolite heater - Replace the power module
□.04		<b>∟.</b> 04	E:04			New appliances, until FD 9108 once during the first 8 wash cyc	may have stored error code E:04 cles.	No appliance fault!		
E:05		E:05			Water switch is running continuously → program termination with draining	Triac for water switch motor defective	Replace the power module			
E:06	05M30	E:06			Door Hall sensor	Stops in current position,	Wire to the Hall sensor interrupted or power module defective	Check wire / plugs Measure voltage on the Hall sensor		
E.00	040	€.00		W.	fault	appliance without function	Hall sensor defective	→ If voltage on the Hall sensor is o.k., replace Hall sensor		

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	splay rogram				Description	Appliance behaviour	Results of internal check	Measures		
	LED	Displ	ay	LED	○ LED off ▲ LED on	*) only for appliances with Zeolite drying system				
Display	Act. Clean Sani		4	4	LED on flashes fast flashes slow	Zeonte drying system				
E:07		E:07				Operates without auxiliary drying system *)	Fan defective or blocked, fan module defective	Check components and connection wires, measure winding.		
E:08							Heat pump detects too low water level in the sump.	Heat exchanger valve leaking  Bowls / pans overturned in the appliance?		
						Operates without heater	Low mains voltage (until FD 9108)	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	02 <b>\\</b> 2\\\2\\	E:10		Heating fault	Operates without auxiliary drying system *)	Zeolite heater heating circuit interrupted (resistance / supply wires)	Measure heater resistance Check wires			
				W				Check component		
							Wires interrupted/broken	Check wires  Measure heater resistance  Check wires  Check component  Check wires  Measure NTCs		
F.44		E:11		X.			NTC resistance values outside permitted range	Measure NTCs		
E:11						Operates without heater	Wire or plug interrupted	Check wires / plugs		
E:12		E:12				Operates without auxiliary drying system *)	NTC resistance values outside permitted range (not available at all appliances)	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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	<b>Display</b> CS Program				Description	Appliance behaviour	Results of internal check	Measures	
	LED	Displ	ay	LED	LED off LED on	*) only for appliances with			
Display	Act. Clean Sani		1	4	LED on flashes fast flashes slow	Zeolite drying system			
E:14		E:14	•	•		Program 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	***	X.		Program stops with	Safety switch in base activated. Appliance cannot be switched off	<ul> <li>Identify reasons for water in the base and rectify</li> <li>if there is no water in base, check wires / plugs (eg. bent plug contact)</li> </ul>	
E:16	X <b>0</b> 0	E:16			Filling fault	intermittent pumping	Water supply (impulses from flow sensor) without activation of the fill valve	Check filli valve Check actuation of fill valve	
E:17		E:17		<b>X</b>		Program stops with draining	Water supply rate too high according to flow sensor	Check flow controller in the fill valve	
E:18			•	•		Wait for supply; program 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		\$ <b>\times</b> \$	Circulation pump fault	→ End of program	Resistance values of Circulating pump wrong	Check wires / plugs  Measure resistance values of windings	
E:21		E:21				→ End of program	Circulating pump blocked	Check Circulating pump for foreign objects, if required replace	

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	LED	Displ	ay	LED	LED off LED on	*) only for appliances wit Zeolite drying system	h													
Display	Act. Clean Sani		4	4	LED on flashes fast flashes slow	Zeome drying system														
E:22		E:22	•	•		→ End of program		Residual water in the sump, because of dirty filters	Clean filters											
E:23		E:23				→ End of program		Resistance values of drain pump wrong	Check wires / plugs Measure resistance											
								Non-return valve letting by	Check non-return va	alve, ensure correct										
E:24	E:24	•	•	Drain pump fault	→ End of program		Draining not possible	Check water draina blocked, delivery he												
																		Drain pump cover in sump is missing / loose	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 program		Drain pump blocked	Check drain pump for foreign objects											
E.23		E.25				7 End of program		Drain pump cover in sump is missing / loose	Attach drain pump cover											
									Check wires											
E:26					Water switch fault	Permanet activation of switch	of water	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 program		Continuous low mains voltage (<170 V)	No appliance fault!											
								Appliance without AquaSensor	Is appliance equipp AquaSensor?	ed with										
E:28					AquaSensor fault	Operates without Aqu	ıaSensor	Calibration of AquaSensor not	Check wires											
								successful	AquaSensor dirty?	AquaSensor dirty?										
			-	-			Documen	t-No.: 5600 0000178398 ASP EN	Povision C	Page No.										
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Display CS Program			isplay Istome		Description	Appliance behaviour	Results of internal check	Measures
Display	Act. Clean Sani	Displ	lay		LED off LED on flashes fast flashes slow	*) only for appliances with Zeolite drying system		
E:29					Under / over voltage error	Stops in current position, appliance without function, Malfunctions, unsatisfactory rinsing / drying result Cycle duration increase	Low mains voltage (<170V / 190V)	No appliance fault!
E:30						Appliance switches off	Overvoltage (>290 V)	No appliance fault!
E:31	E:31 zeolite he		Water sensor in zeolite heater shows fault	Operates without heater *)	Water in the zeolite container	Exchange the zeolite heater and zeolite container - too much foam in the appliance? - appliance overfilled? (Inlet valve / Aqua stop letting by, appliance tilted backwards,)		
							Water sensor dirty	Exchange the zeolite heater
E:32	E:32				Internal error code		Reserved	Not relevant to customer service

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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:28)
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			
Storage tank valve "on" => Fill + pump	S:03	No	approx.200			Heat exchanger is overfilled, residual quantity in the pump sump is pumped off ==> heat exchanger full.(contains 3.1 l water) Storage tank evacuate
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"."
Pause	S:09	No	10			

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Function	Display	Remark				
	Display	Can be skipped	Time (s)	Value	Check / Measure	Remark
Storage tank valve "on" + Water switch position roof sprinkler + Cirkulate	S:10	No	approx. 70			Storage tank valve open,, Waterswith to position, Fil storage tank
Storage tank valve open + Circulate + heat	S:11	Yes		70°		Flush storage tank Increase of temperature during heating +2.5 °C/min.
Close storage tank + Circulate	S:12	No	approx.180			Storage tank full (2,0 I)
Pause	S:13	No	10			
Fill	S:14	No	approx. 30	2,0 I		Total: 4 l in appliance
Dispense (detergent)	S:15	No	10			
Circulate + heat + calibrate AquaSensor	S:16	No	110			
Circulate + heat	S:17	Yes		40 °C		Increase of temperature during heating +2.5 °C/min
Pause	S:18	No	5			
Circulate + dispense (rinse aid)	S:19	No	60			Number of impulses = set value of dispensed rinse aid
Circulate + heat + change position of water switch	S:20	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:21	No	45			Tightness test of outlet valve Water-level at heat exchanger is not supposed to falling off
Drain heat exchanger	S:22	No	60			Check outlet valve

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Function	Display	Remark				
	Display	Can be skipped	Time (s)	Value	Check / Measure	Remark
Pause	S:23	No	10		Visual inspection: water level in appliance.	Water level must be over handle of coarse filter
Partial pump	S:24	No		approx. 2,0l		
Storage tank valve "on"	S:25	No	approx.180			Storage tank is going evacuated
Pause	S:26	No	10			
Pump off + drain heat exchanger + fill + regenerate	S:27	No	approx. 20			Drain the complete appliance
Pause	S:28	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:29	No	approx.	41		Rinse the brine solution out of the heat exchanger and pump sump.
Pum off + drain heat exchanger	S:30	No	30			Drain the complete appliance
Check whether appliance was drained (activates circulation pump and drain pump)	S:31	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

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Function	Display	Remark					
	Display	Can be skipped	Time (s)	Value	Check / Measure	Remark	
1.2 Reset program	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 L1 L2 L3	Remark
1.1 Operating d	liagram		
1.2 Special pro	(1) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		O LED off  LED on  LED flashes
Precondition	The start of the s		<ul> <li>Switch on the appliance:</li> <li>Appliance is in rinsing program -&gt; in this case carry out "Reset", switch off the appliance and switch it on again.</li> <li>Appliance is in program selection -&gt; in this case see next step (selection)</li> </ul>
	(I) L1 L2 L3 (A) (B) Start		Switch off the appliance

Press and hold down buttons "A" + "B"

Release buttons when LED L2 flashes and LED L3 is on

Press the main switch

O O O L1 L2 L3

O O O L1 L2 L3

O O O L1 L2 L3

1

1

Selection

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## Service-Programme

Function	Actuatio	n			Display L1 L2 L3	Remark
	①	○ ○ ○ ○ L1 L2 L3	(A) (B)	Start	05050	Press button "A" until required programme is selected
Select						Error memory Customer service test programme Not relevant to customer service Demonstration programme
1.3 Read out er	ror memory					
	①	L1 L2 L3	(A) (B)	Start	05050	Activate: Press button "B"
	①	O O O L1 L2 L3	(A) (B) L5 (C)	O L6 O Start	Various	Fault code is displayed via rapidly flashing LEDs L4, L5, L6 Highest order fault from last rinse cycle is displayed
1.4 Customer s	ervice test prog	ramme				
	①	○ ○ ○ ○ L1 L2 L3	(A) (B)	Start	• 0 0	Activate: Press button "B" and close the door
					₹ 0 0	Test programme is active
Skip test step	0	0 0 0 L1 L2 L3	(A) (B)	Start	₹ 0 0	Open the door and press button "A"  Not all test steps can be skipped (see customer service test programme)

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## Service-Programme

Function	Actuation			Display L1 L2 L3	Remark		
1.5 Special programme stopped							
In error memory	① <b>↑</b>	° ° ° A B	Start		Switch off main switch		
In customer service test programme	①	° ° ° A B	Start		Press "Start" button for 3 seconds (Reset)		
	① <b>↑</b>	° ° ° A B	Start		Switch off main switch		
1.6 Demonstration	programme						
Select	①	L1 L2 L3 (A) (B)	Start	• • •	Activate: Press button "B"		
	①	° ° ° A B	Start	LED "ECO" is on	If there is no LED "ECO", LED L1 is on		
End	Door				When programme is running, open door		
	①	° ° ° A B	Start	LED "ECO" off LED "End" is on	Press "Start" button for 3 seconds (Reset)		
	① <b>↑</b>	L1 L2 L3 A B	Start	LED "End" off	Hold down buttons "A" + "B"		
	① <b>A</b>	° ° ° A B	Start		Switch off main switch		

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