Remarks **Function** Actuation Display Error class In Customer Service program At Customer Appliance behaviour in Results of internal appliance Measures (failure group) error case check LED's LED Display Display Act. Clean Sani ※ 岙 /™ End 卍 No error 000 E:00 Blinking LED's at end Power cord of the appliance has Interface of Flash process to be disconnected (to activate on/off from main switch is not enough!) Stop in current Communication issue > Verify D-Bus - connectors (3pole) for electrical connection position, no function within electronics failure: > Disconnected power cord (plug out and then again plug in); > Repeat flash process; > Change Modul Power module 0 05 → End of program Pump triggering or pump Change power module switching is defect E:01 E:01 Low voltage / No appliance error! Voltage drop Running w/o heating Working relay of heating Change power module E:02 E:02 is defect → End of program Working relay / safety relay of heating is defect E:03 E:03 E:04 Reserved Water switch is Impulses w/o activation running permanently E:05 E:05 Cancelation of Water switch triac defect program (Drain)

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Function	Actuation	Display					Remarks	Remarks			
Error class		In Customer Ser	rvice program		At Cus	stomer	Appliance behaviour in	Results of internal appliance	Measures		
(failure group)		in oustomer der	rvice program		7 11 0001011101		error case	check	iweasures		
		LED's	Display	LI	ED	Display					
		Act. Clean Sani		米	₽,						
Door		o¥ ∮ }0	E:06			E:06	Stop in current position, no function	Hall-sensor defect, wire disconnected or power module defect	Power module is functional ok, if plug is disconnected and Hallsensor is feed with supply voltage. Otherwise change Hall-sensor.		
Heating		05					Function w/o additional drying- system.	Water in fan housing Heating-circuit Zeolite is intermittent,	Measure Heating-circuit Zeolite (check zeolite-heater resistance, clixon and thermal fuse)		
			E:07			E:07		fan defect, optional electronic defect, wire is intermittent.	Verify components =>only for appliance with additional drying-system		
			E:08				Function w/o heating.	Heat pump detects too low water level in sump.	>Corner valve scaled >inlet house kinked >heat exchanger drain valve is leaky >until FD8904: Hydraulic resistance softener to high (e.g. detergent in salt box) >Overturned bowls / pots in appliance?		
			E:09			E:09		Heating-circuit is intermittent (resistance, wire harness, safety relais pins on power module)	Measure heating resistance, check wires		

KD- Fehlercodetabelle: Page:2/5

Remarks **Function** Actuation Display Error class In Customer Service program At Customer Appliance behaviour in Results of internal appliance Measures (failure group) error case check LED's LED Display Display Act. Clean Sani ※ 岙 /™ End 卍 Function w/o Thermal output to less, Check water hardness; if heating. deposits on heating necessary decalcify and clean. E:10 element. On repeat change heat pump. NTC-failure Measure NTC's, E:11 E:11 Failure in wire to NTC's check wires. Reserved E:12 Water temperature too Safety measure - no failure! high (> 75℃) Check water inlet temperature. E:13 Filling Program abort with Flow sensor detects no Check wires, check flow sensor draining impulses, even though (Reed-switch) E:14 E:14 circulation pump detects water. Program abort with Safety switch base Look / Search for cause of water interval pumping carrier active. Appliance in base carrier E:15 E:15 can't be turned off. Check filling valve. Water inlet (impulses from flow sensor) w/o Check triggering of filling valve. E:16 E:16 activation of filling valve. Program abort with Water inlet amount Check flow control in filling valve E:17 draining according flow sensor too E:17 high Waiting for water inlet Water inlet amount Check water inlet Program abort with according flow sensor too E:18 draining low or no water intake.

KD- Fehlercodetabelle: Page:3/5

Remarks **Function** Actuation Display Error class In Customer Service program At Customer Appliance behaviour in Results of internal appliance Measures (failure group) error case check LED LED's Display Display Act. Clean Sani ※ کتے /™ End 卍 Reserved **Circulation pump** E:19 Wrong resistance value → End of program Check wires, E:20 E:20 of circulation pump measure coil. Circulation pump blocked Check for foreign objects, if → End of program E:21 E:21 necessary renew Reserved Drainpump E:22 → End of program Wrong resistance value Check wires, E:23 E:23 of drain pump measure coil → End of program Draining not possible. Clean filters. Pump cover missing? Check water draining (hose kinked / blocked, pressure head, pump cover). E:24 E:24 Install pump cover. Circulation pump stiff? Exchange circulation pump. Check valve leaky Inspect check valve → End of program Check for foreign objects. Drain pump blocked; possibly pump cover is Install pump cover E:25 E:25 missing

KD- Fehlercodetabelle: Page:4/5

Remarks Function Actuation Display Error class In Customer Service program At Customer Appliance behaviour in Results of internal appliance Measures (failure group) error case check LED LED's Display Display Act. Clean Sani ※ حتّے ™ End 卍 Permanent activitation Impulses from water Waterswitch Check wires. of water switch switch are missing Measure supply voltage on E:26 motor. Check switch of water despite triggering switch Reserved E:27 Aquasensor Function w/o Calibration of aquasensor Check wires. aquasensor not successful Dirt on aquasensor. Is appliance serially equipped with E:28 aquasensor? General Reserved E:29 Normal function Overvoltage Not customer service relevant E:30 Measured value Not customer service relevant E:31 circulation pump Measured value Not customer service relevant E:32 drain pump

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Customer Service Program

Function	Dis	play	Remark				
	Software (old)*	Software (new)*	Can be skipped	Time (s)	Value	Check / Measure	Remark

^{*}depend of the software version is it possible to have different programsteps

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 10 + S:32 or S:11 + S:33)
CoilCheck	S:00	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 E 18 occurs)	S:01 – S:03 (Step S:04 to S:06 are displayed only if error E 18 occurs)	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)	S:07 (Step is not displayed)	No	10			
Fill + pump	S:08 – S:10	S:08 – S:09	No	approx. 100			Residual quantity in the pump sump is pumped off.
Pause	S:11	S:10	No	10		Visual inspection: water level in salt dispenser.	No change to water level ==> Regeneration valve leakproof.
Fill	S:12	S:11	No	approx. 40	1,5 I	Check waterinlet amount	Inside of 40sec the capacity must be obtain. All the water is conveyed to the pump sump.
Pause	S:13	S:12	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:14 – S:15	S:13 – S:14	No	approx. 60	2,5 I		Total: 4 l in appliance

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Customer Service Program

Function	Dis	play	Remark				
	Software (old)*	Software (new)*	Can be skipped	Time (s)	Value	Check / Measure	Remark
Circulate	S:16	S:15	No	15			Circulation pump must not "snorkel".
Dispense (detergent	S:17	S:16	No	10			
Circulate + heat + calibrate AquaSensor	S:18 – S:19	S:17 – S:18	No	110			
Circulate + heat	S:20	S:19	Yes		40 °C		Increase of temperature during heating +2.5 °C/min
Pause	S:21	S:20	No	5			
Circulate + dispense (rinse aid)	S:22 – S:24	S:21 – S:23	No	60			Number of impulses = set value of dispensed rinse aid.
Circulate + heat + change position of water switch	S:25 – S:26	S:24 – S:25	Ja	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:27	S:26	No	45			
Pause	S:28 – S:29	S:27 – S:28	Yes	70			
Pump off + fill + regenerate	S:30 – S:32	S:29 – S:31	No	approx. 20			Drain the complete appliance
Pause	S: 33	S:32	No	10		Visual inspection: water level in salt dispenser.	Water level in salt dispenser must be increased by several cm.
Pump + fill	S:34 – S:35	S:33 – S:34	No	approx. 100	41		Rinse the brine solution out of the pump sump
Pump	S:36	S:35	No	30			Drain the complete appliance

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Customer Service Program

Function	Dis	play	Remark				
	Software (old)*	Software (new)*	Can be skipped	Time (s)	Value	Check / Measure	Remark
Check whether appliance was drained (activates circulation pump and drain pump)	S:37 – S:38 (Step S:39 to S:40 are displayed only if error E 24 occurs)	S:36 – S:37 (Step S:38 to S:39 are displayed only if error E 24 occurs)	No	approx. 10-120			Self-check whether appliance was drained.
End of test programme		or "End LED" 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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Function	Actuation				Display L1 L2 L3	Remark
Operating diagram		0 0 0 L2 L3	00°°	Start		LED offLED on
	0		A B	Start		LED on LED flashes
Reset *	1	0 0 0 L1 L2 L3	(A) (B)	Start	LED "Active" flashes	Appliance is switched on
* Before selecting the special programmes, perform a reset	①	0 0 L1 L2 L3	(A) (B)	Start	LED "Active" off	Press "Start" button for 3 seconds
Select special programmes	①	0 0 0 L1 L2 L3	(A) (B)	Start		Switch off the appliance
	①	0 0 0 L1 L2 L3	A B ↑ ↑	Start		Press and hold down buttons "A" + "B"
	① ↑	0 0 0 1 L2 L3	(A) (B)	Start		Press the main switch
	1	0 0 0 L1 L2 L3	(A) (B) ↓ ↓	Start	05/05	Release buttons when LED L2 flashes and LED L3 is on
Select special programmes	①	0 0 0 1 L2 L3	(A) (B)	Start	05050	Press button "A" until required programme is selected
			-			Error memory Customer service test programme Not relevant to customer service Demonstration programme

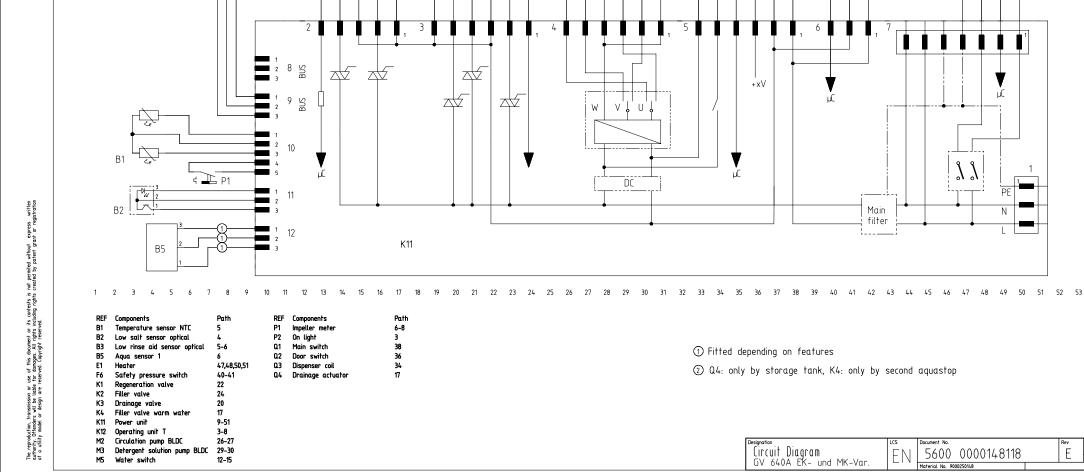
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Function	Actuation				Display L1 L2 L3	Remark
Read out error memory	①	O O O L1 L2 L3	(A) (B)	Start	05/05	Activate: Press button "B"
	①	L1 L2 L3	(A) (B)	Start		Highest order fault from last rinse cycle is displayed
Customer service test programme	①	0 0 0 L1 L2 L3	(A) (B)	Start	• 0 0	Activate: Press button "B"
			-		₹ 0 00	Test programme is active
Skip test step	0	L1 L2 L3	(A) (B)	Start	₹\$00	Press button "A" Not all test steps can be skipped (see customer service test programme)
End special programmes In error memory	① ↑	0 0 0 L1 L2 L3	(A) (B)	Start		Switch off main switch
In the customer service test programme	0	0 0 0 L1 L2 L3	(A) (B)	Start		Press "Start" button for 3 seconds (Reset)
	① ↑	L1 L2 L3	(A) (B)	Start		Switch off main switch

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Function	Actuation			Display L1 L2 L3	Remark
Select demonstration programme	①	ເ [ິ] ເ ² ເ ²	Start	• • •	Activate: Press button "B"
	0	i i i A B	Start	LED "ECO" is on	If there is no LED "ECO", LED L1 is on
End demonstration	Door				When programme is running, open door
programme	①	0 0 0 A B	\bigcirc	LED "ECO" off	
			Start	LED "End" is on	Press "Start" button for 3 seconds (Reset)
	① ↑	L1 L2 L3 (A (B)	Start	LED "End" off	Hold down buttons "A" + "B"
	① ↑	.1 L2 L3 (A) (B)	Start		Switch off main switch

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2 2

1 1

(1) ①

K12

X1

X2

P2 2 //

2 Q4: only by storage tank, K4: only by second aquastop

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E1

Ν

Q2 +

Q1)4

 $1 \times 3 \times 4$

F6 2

, Q3