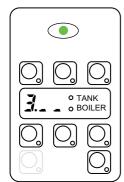
## **SERVICE MANUAL**



#### • TANK • BOILER Ō, 3.\_\_ $\bigcirc$ $\bigcirc$ $\bigcirc$ O,

#### **CONTENTS:**

This document contains the instructions to set electronic board parameters via user interface for following dishwashers:

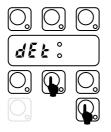
CODE	MODEL	CODE	MODEL	CODE	MODEL	CODE	MODEL
400041	NUC3DD	400155	NUC1DPDD	504232	EHTAIDWS	506054	EPPWELG
400055	EUC1	502010	NUCAIG	504233	EHTAIG	506055	EPPWELG60
400056	EUC1DP	502011	NUCAIWSG	504234 EHTAIWSG		506056	ZPPWELG
400057	EUC1WS	502012	XUCAI	504235	EHTAIAU	506057	ZPPWSLG
400058	EUC1DPWS	502013	XUCAIDP	504236	EHTAIMLAU	506062	EPPWESGFB
400059	EUC3	502025	EUCAI	504237	ZHTAWS	506063	EPPWEHGFB
400060	EUC3WS	502026	EUCAIDP	504238	ZHTAID	506064	EPPWELGFB
400061	EUC3DP	502027	EUCAI60	504239	ZHTAIWS	506071	EPPWESGM6
400062	EUC3DPWS	502028	EUCAIWS	504240	ZHTAIAU	511326	NPPWESG
400063	EUC1G	502033	EUCAIG	504241	ZHTA	511328	NPPWEHG
400064	EUC1DP60	502034	EUCAIWSG	504242	ZHTA60	511329	NPPWELG
400065	EUC3DD	502035	EUCAIML	504243	ZHTAI	690028	NUC1G
400066	ZUCADDROW	502036	EUCAIMLWS	504244	EHTAIUSPH5	698005	NUCA1DDG
400067	ZUCADDROW6	502037	EUCAIMLG	504245	EHTAIUSPH6	698047	OHTAROW
400068	EUCADD60	502038	EUCAICL	505036	EHTAO	698048	OHTAROW60
400116	<b>FUCA3DD</b>	502039	EUCAICLG	505046	EHT	698049	NUCA1DPDDG
400120	NUC1DPP	502040	EUCAIWL	505047	EHT60	698058	NHTDPDDG
400121	EUC1DDM60	502042	EUCAICLW	505048	EHTAG	698083	APPWELG
400122	NUC1DUK	502043	EUCI	505049	EHTM	698085	APPWESG
400123	NUC1DDUK	502044	EUCIM	505050	EHTM60	698086	APPWEHG
400127	KUC3	502045	EUCIM60	505051	NHT	698087	ET5AIIT
400128	KUC3DP	502046	EUCAIDPNW	505052	NHTD	698088	ET5AIDP
400130	NUC1DDRUKP	502047	ZUCI	505053	NHT60	698089	ET5AIDPWS
400131	NUCA1GRUK	502048	ZUCID	505054	EHTAROW	698091	AUCI
400133	NUC1D	502049	ZUCAI	505055	EHTAROW60	698092	AUCAI
400134	NUC1DD	502050	ZUCAIDP	505056	ZHTAROW	698093	AUCAIDP
400137	EUCA1DP	502051	ZUCAIDPWS	505057	ZHTAROW60	698094	AUCAIDPWS
400138	NUC1GMS	502052	ZUCAIG	505058	EHTAJ	698095	AUCAIG
400139	EUC3DPCAG	502053	ZUCAIDDWS	505059	EHTAJ60	698096	AUCAIWSG
400140	NUC1	502054	ZUCAID	505060	EHTAO60	698097	ET12AI
400141	NUC1DP	502055	ZUCAI60	505061	ZHTAO	698098	ET12AIT
400142	NUC1WS	502056	EUCAIUSPH6	505062	ZHTAO60	698110	NHTAG
400143	NUC1WSDP	502057	ZUCAIDD	505063	КНТ	698115	AHTAWS
400144	NUC3	502058	EUCAIDD	505064	NHTM	698116	AHTAIWS
400145	NUC3WS	502059	EUCAIDPJ	505065	NHTM60	698117	AHTAIG
400146	NUC3DP	502060	EUCAIDPJ60	505082	NHTP	698118	AHTAIWSG
400147	NUC3DPWS	502123	EUCIDDC	505087	ZHT7	698119	AHTA
400148	NUC3DDWS	502124	ZUCIDC	505088	ZHT76	698120	AHTAI
400149	NUC1DP60	504226	EHTA	506048	EPPWESG	S49JGF	
400150	NUC1DPA	504227	EHTA60	506049	EPPWESG60	S49LBN	
400151	ZUCA1	504228	EHTAWS	506050	EPPWEHG	S49QL1	
400152	ZUCA3	504229	EHTAI	506051	ZPPWESG		
400153	EUCADDROW	504230	EHTAID	506052	ZPPWEHG		
400154	EUCADDROW6	504231	EHTAIWS	506053	ZPPWSSG		

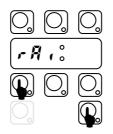
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#### 1 **KEYBOARDS**

#### 1.1 **HOOD TYPE Style**





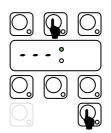


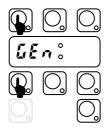
Fig. 1 Detergent dispenser Manual Activation.

Fig. 2 Rinse Aid Dispenser Manual Activation

Fig. 3 Rinse Pump Manual Activation (used to EMPTY **BOILER)** 

#### SETTING MODES:

To enter into one setting mode (Figure 4), (Figure 5) the appliance should be in stand-by: switch on the appliance, no cycles selected. Is useful keep door open to avoid start cycle in case of not simultaneously pressure of the two keys.



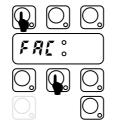


Fig. 4 Enter into General Parameters (Hold down buttons for at least five seconds).

Fig. 5 Enter into Factory Parameters (Hold down buttons for at least five seconds) ..

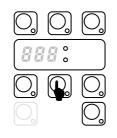


Fig. 6 Next Parameter Family OR Increase Parameter Value(In setting mode only)

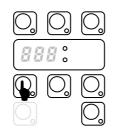


Fig. 7 Decrease Parameter Value(In setting mode only)

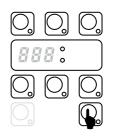
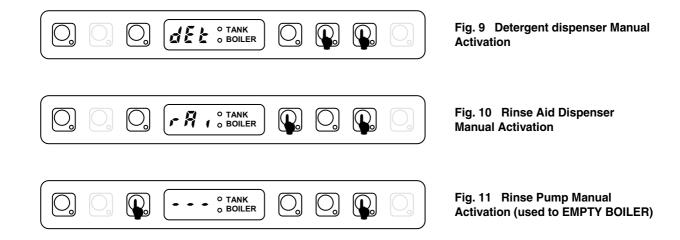


Fig. 8 Confirm Value and go to next Parameter (In setting mode only).

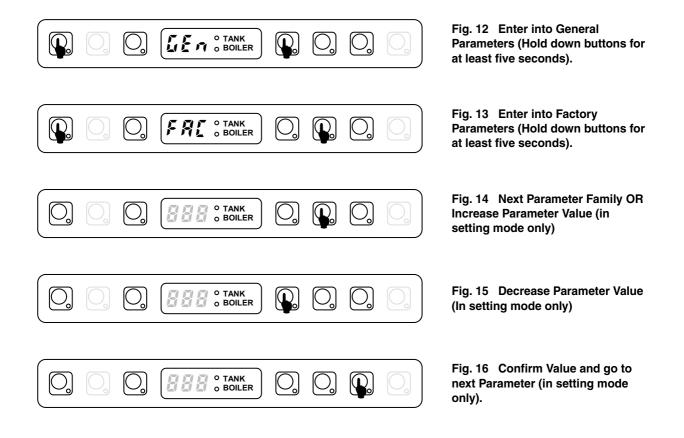


#### 1.2 UNDERCOUNTER Style



#### SETTING MODES:

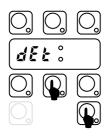
To enter into one setting mode (Figure 12), (Figure 13) the appliance should be in stand-by: switch on the appliance, no cycles selected. Is useful keep door open to avoid start cycle in case of not simultaneously pressure of the two keys.



## 2 MANUAL ACTIVATION OF DETERGENT AND RINSE AID DISPENSERS

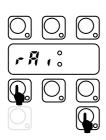
When replacing detergents may be necessary activate the dispensers to fill hoses.

#### **Detergent Dispenser Activation** 2.1



Switch on the dishwasher. Press and hold down CYCLE\_2 and CYCLE INFINITE keys, after two 'beep' the detergent dispenser starts work for 20 sec.

#### 2.2 Rinse Aid Dispenser Activation

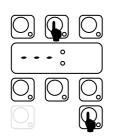


Switch on the dishwasher.

Press and hold down CYCLE 1 and CYCLE INFINITE keys, after two 'beep' the rinse aid dispenser starts work for 40 sec.

#### **RINSE PUMP MANUAL ACTIVATION** 3

Use this function to empty the boiler (if the dishwasher is not to be used for a long time, for maintenance operation: ex. before replacing main board).



Switch on the dishwasher.

Close the door and press and hold down DRAIN and CYCLE INFINITE keys. A buzzer signal indicates the rinse pump activation and the display shows three blinking lines. Three beeps indicate the cycle end.

#### DETERGENT AND RINSE AID DOSAGE 4

In this paragraph is explained how to set the working time for the detergent and rinse aid dispensers. For each dispenser there are two parameters: the initial time and the time during cycle execution.

#### GEn 4.1 **General Parameters**

Sym.	Parameter Description	Unit	Min	Max	Factory Default
d In	Initial Detergent Dosage (during filling tank)	[s]	0	240	90
r In	Initial Rinse Aid Dosage (starts when tank filled)	[s]	0	180	10
dEt	Detergent Dosage During Cycle Execution (during wash phase)	[s]	0	182 (*)	8
r 8 ,	Rinse Aid Dosage During Cycle Execution (when refill- ing boiler)	[s]	0	62 (*)	4

How change the duration:

- Switch OFF and switch ON the dishwasher;
- Enter into the USER SETTING mode by pressing and hold down ON/OFF and CYCLE\_1 keys for at least five sec**onds** the display shows  $\mathcal{LE} n$  (Figure 17);
- Press CYCLE\_INFINITE. The display shows alternatively the symbol dln and the duration in seconds (Figure 18) and (Figure 19);
- NOTE: If User Interface v.3.00 tank led is on if value correspond to factory default ( Default 1 HOOD TYPE).
- Use CYCLE\_1 key to decrease the duration and CYCLE\_2 key to increase (Figure 19);
- After settled the duration press CYCLE\_INFINITE key to store value. The display shows the next parameter (Figure 20) and the corresponding value (Figure 21);
- In the same way is possible to change the other duration; when finished switch OFF and switch ON.

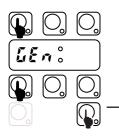


Fig. 17 Enter into User Mode (press for 5 sec)..

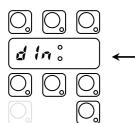


Fig. 18 Initial detergent

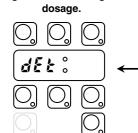


Fig. 22 Cycle detergent dosage.

Fig. 19 Change duration. (Tank LED indicates default).

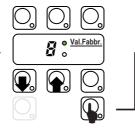


Fig. 23 Change time activation (Tank LED indicates default)

0

Fig. 20 Initial rinse aid dosage

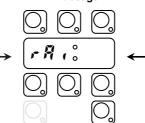


Fig. 24 Cycle rinse aid dosage.

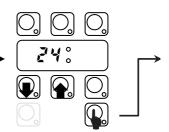


Fig. 21 Change duration

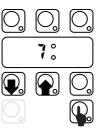
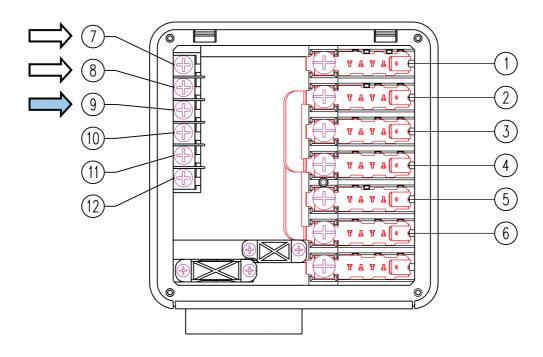


Fig. 25 Change time activation.

## (\*) Note for external dispensers:

- if *dEE: 181* the **detergent dispenser** works when **WASHING PUMP** is being activated; at the same time voltage is supplied between connectors L1<sub>7</sub>–L1<sub>9</sub> (main terminal box);
- if *dEE: 182* the **detergent dispenser** works when **LOADING EV** is being activated to re-fill boiler level; at the same time voltage is supplied between connectors L1<sub>7</sub>-L1<sub>9</sub> (main terminal box);
- if **r B i : b i** the rinse aid dispenser works when **LOADING EV** is being activated to re-fill boiler level; at the same time voltage is supplied between connectors **L1**<sub>8</sub>–**L1**<sub>9</sub> (main terminal box);
  - if  $r \beta \in \delta^2$  the **rinse aid dispenser** works when **WASHING PUMP** is being activated; at the same time voltage is supplied between connectors L1<sub>8</sub>–L1<sub>9</sub> (main terminal box);
- For electrical connections refer to electric diagram -



#### Example

Suppose there is connected an **external detergent dispenser** with a probe into the tank. A typical setting could be:

- *d* In : *i* the dispenser is not activated during filling tank;
- dE : 18 1 the dispenser is supplied during washing phase and the probe automatically dose the right detergent amount.



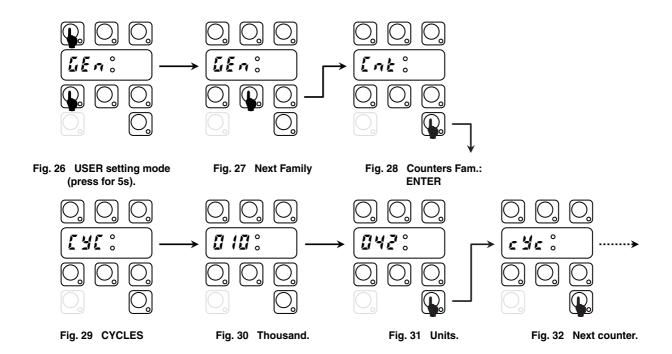
## **5 COUNTERS**

This Parameter Family collects cycle counters and water consumption counters. For water consumption counters a flow meter must be installed. See PPL (calibration parameter) into dPR section (8 OTHER PARAMETERS).

### 5.1 [nt Counters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
[ 9[	Cycles performed counter. <b>LYL</b> symbol and two numbers blink consecutively. The cycle number is obtained by joining the two numbers. Ex. <b>LYL</b> $\rightarrow$ <b>ID</b> $\rightarrow$ <b>DYL</b> means 10042 cycles executed.	-			
сУс	Cycle counter (resettable). This counter is similar to $\Sigma \mathfrak{U}$ but is resettable by user (see $r \mathfrak{L}$ parameter below).	-			
nne	Water Consumption (only for dishwashers with incorporated continuous water softener). Counts m <sup>3</sup> of water consumption.	[m <sup>3</sup> ]			
Ł	Water Consumption (only for dishwashers with incorporated continuous water softener). Counts litres of water consumption. The total consumption is given by adding net [m <sup>3</sup> ] and [1] values.	[1]			
Lit	Water Consumption: resettable counter. [present up to software version $3.12$ ] Counts the litres of water and is resettable by user (see $-5k$ parameter below).	[1]			
r St	Reset resettable counters: $\mathcal{L} \mathcal{L} \mathcal{L}$ and $\mathcal{L} \mathcal{L} \mathcal{L}$ To reset put 1 this parameter, switch off and then on again: $\mathcal{L} \mathcal{L} \mathcal{L}$ and $\mathcal{L} \mathcal{L} \mathcal{L}$ will show zero. Note that $\mathcal{L} \mathcal{L} \mathcal{L}$ is used to count cycles for $\mathcal{L} \mathcal{R} \mathcal{L} \mathcal{L}$ message (see next parameter, $\mathcal{R} \mathcal{L} \mathcal{L}$ ).	-			
n[¥]n	Store thousand of cycles after that <b>CHi</b> message appears on display. Ex. If this parameter is settled to 20, <b>CHi</b> message appears when <b>cHc</b> reach 20.000 cycles.	-			
drn	Drain/Cleaning cycles performed. Similar to $\mathbf{E} \mathbf{M} \mathbf{E}$ but counts Cleaning Cycles.	-			
r[¥	Numbers of cycles that can be made after a regeneration cycle (only for dishwashers with non-continuous water softener) [See paragraph 9.1 RESIN REGENERATION CYCLE.].	-			20
nrE	Regeneration cycle counter (only for water softener dishwasher) [See paragraph 9.4 DISHWASHER WITH INCORPORATED CONTIN- UOUS WATER SOFTENER]. <b>Are b</b> only counts efficient regeneration cycles, i.e. those carried out with salt in the special container (only for dishwashers with incorporated continuous water softener)	-			
rES	Counter of regeneration cycles done without salt in the special con- tainer. (only for dishwashers with incorporated continuous water sof- tener) [See paragraph 9.4 DISHWASHER WITH INCORPORATED CONTINUOUS WATER SOFTENER].	-			

# Electrolux EFS - Dishwashing Systems Platform Electrolux Professional



## **6 TEMPERATURE SETTING**

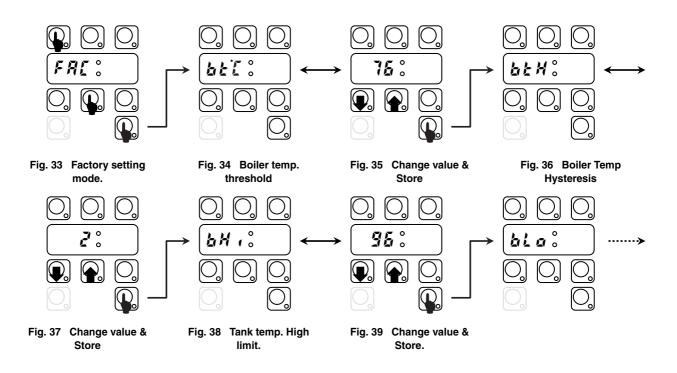
In this paragraph is explained how to change temperature thresholds and all parameters related to boiler and tank.

#### **FRC** Factory Parameters 6.1

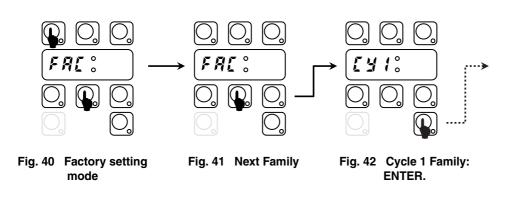
Sym.	Parameter Description	Unit	Min	Мах	Factory Default
68I	Boiler Temperature: THRESHOLD. When boiler temperature reaches this value, heaters switch off.	[°C]	45	95	78
65 X	Boiler Temperature HISTERESIS, (represent dead band). Heater switch on if boiler temperature is below: <b>b と C</b> - <b>b と H</b>	[°C]	2	10	2
ЪН,	Boiler Temperature: HIGH LIMIT. When boiler temperature reaches this value $\mathcal{L}  \mathcal{E}$ alarm appears. Put 0 to disable $\mathcal{L}  \mathcal{E}$ alarm.	[°C]	0	98	96
bla	Boiler Temperature: LOW LIMIT. During boiler warm-up, temperature must increase at least $b \downarrow a \circ C$ otherwise $\xi = 3$ warning appears. Put 0 to disable $\xi = 3$ warning.	[°C]	0	10	1
6FL	Boiler Filling Timeout. If filling time is longer than <b>bFL</b> , <b>A i</b> alarm appears. Put 0 to disable <b>A i</b> alarm.	[min]	0	42	5
684	Boiler Temperature Adjust.	[°C]	0	7	4
6 <i>P</i>	Boiler Priority (enable boiler wait function) 0=disabled 1=enabled	-	0	1	1
65t	Booster Function Overheat gap over Boiler Temperature Threshold	[°C]	0	15	2
błd	Boiler temperature negative differential: when the dishwasher is in standby, boiler threshold becomes: <b>b b c b c d</b> (Used to save energy during machine inactivity by keeping boiler water at a lower temperature).	[°C]	0	20	0
6 E [	Tub Temperature: THRESHOLD When tank temperature reaches this value, heater switch off.	[°C]	40	85	63
65 M	Tub Temperature: HISTERESIS, (represent dead band). Heater switch on if tank temperature is below: <b>ととじ - とと</b> が	[°C]	2	30	5
£ X ,	Tank Temperature: HIGH LIMIT. When tank temperature reaches this value $\begin{bmatrix} J \\ J \end{bmatrix}$ alarm appears. Put 0 to disable $\begin{bmatrix} J \\ J \end{bmatrix}$ alarm.	[°C]	0	95	75
tla	Tank Temperature: LOW LIMIT. During tank warm-up, temperature must increase at least $\mathcal{L} \mathcal{Q} \circ \mathcal{C}$ otherwise $\mathcal{L}  \mathcal{L}$ warning appears. Put 0 to disable $\mathcal{L}  \mathcal{L}$ warning.	[°C]	0	10	1
£ F L	Tank Filling Timeout. If filling time is longer than とドレ,ダー (alarm appears. Put 0 to disable ダー (alarm.	[min]	0	42	20

To modify thresholds do the following:

- Switch OFF and switch ON the dishwasher;
- Enter into the FACTORY SETTING mode by pressing and hold down ON/OFF and CYCLE\_2 keys for at least five seconds (Figure 33);
- Press CYCLE INFINITE. The display shows alternatively the symbol bt (Figure 34) and the corresponding value  $\frac{75}{16}$  (Figure 35);
- Use CYCLE\_1 key to decrease the value and CYCLE\_2 key to increase (Figure 35);
- Press CYCLE INFITE key to confirm. The display shows the next parameter (Figure 36) and the corresponding value (Figure 37);
- In the same way is possible to change the other parameters; when finished switch OFF and switch ON.



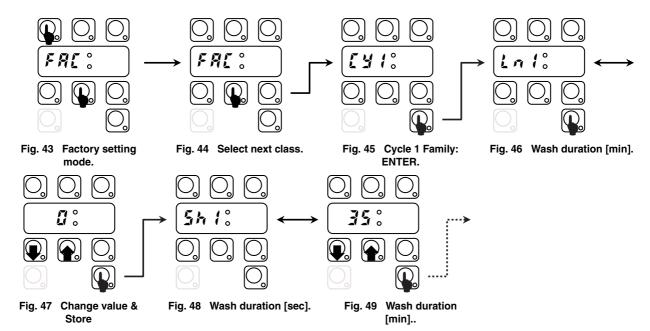
At the end the display will show again FRC and by pressing CYCLE\_2 key (Fig. 41) is possible to change cycle duration (see paragraph 7 CYCLE SETTING). ).



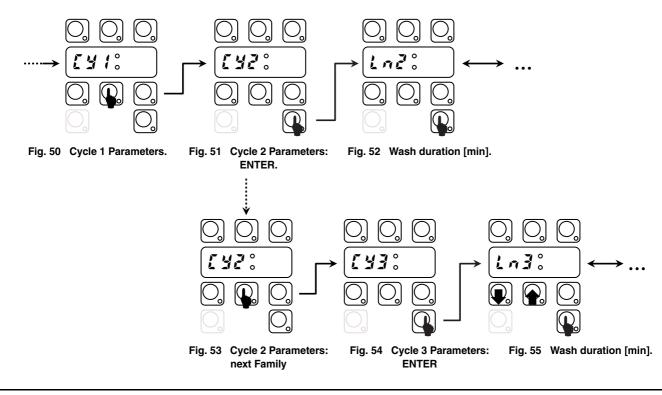
## 7 CYCLE SETTING

In this paragraph is explained how to change cycle phases duration (see paragraph 7.1 CYCLE DIAGRAM).

- Switch on the dishwasher;
- Enter into the FACTORY SETTING mode: press and hold down ON/OFF and CYCLE\_2 keys for at least 5 seconds (Figure 43);
- Press CYCLE\_2 key to select CYCLE\_1 parameters.
- Press CYCLE\_INFINITE. The display shows alternatively the symbol Lot (Figure 46) and the corresponding value 2 (Figure 47);
- Use CYCLE\_1 key to increase the value and CYCLE\_2 key to decrease (Figure 47);
- Press CYCLE\_INFINITE key to <u>confirm</u>. The display shows the next parameter (Figure 48) and the corresponding value (Figure 49);
- In the same way is possible to change the other parameters;.



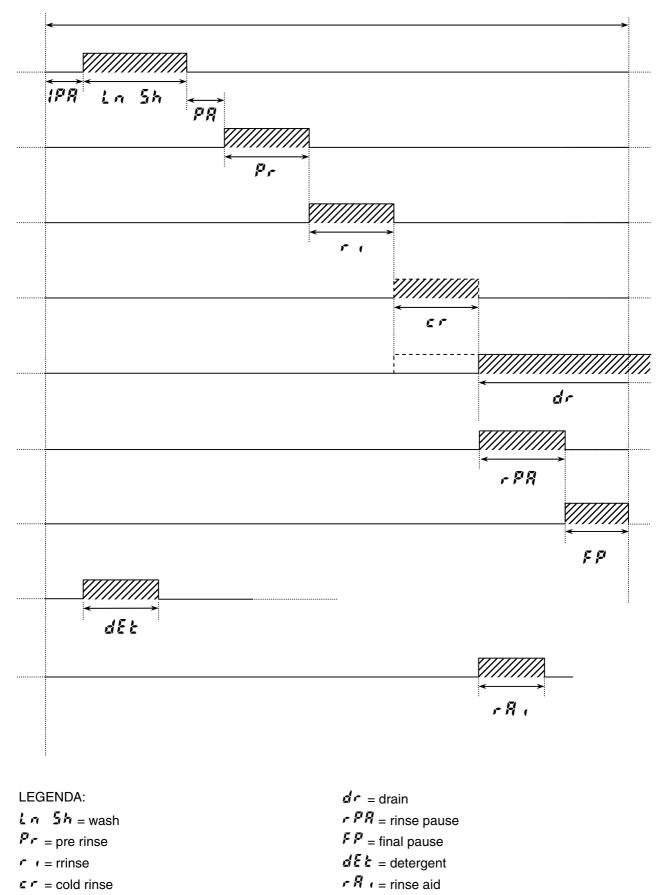
After settled all parameters referring Cycle 1, by pressing CYCLE\_2 key is possible to change the Cycle 2 parameters (Figure 50), (Figure 51) and so on.





### 7.1 CYCLE DIAGRAM





## 7.2 [1] Cycle 1 Parameters

Sym.	Parameter Description	Unit	Min	Мах	Factory Default
Lal	Wash Phase Long	[min]	0	20	0
5h 1	Wash Phase Short	[s]	1	60	35
PA (	Pause	[S]	0	20	4
Pr (	Pre-rinse Duration	[s]	0	30	0
ril	Rinse Phase Duration	[S]	10	45	16
er l	Cold Rinse Phase Duration	[s]	0	50	0
dr i	Drain	[s]	0	40	16
FP {	Final Pause at End of Cycle	[s]	0	60	0
£[ {	Long wash time in mode Thermal Label	[min]	0	60	0
£51	Short wash time in mode Thermal Label	[S]	0	60	59

## 7.3 **[ J Z** Cycle 2 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
Lac	Wash Phase Long	[min]	0	20	0
She	Wash Phase Short	[S]	1	60	45
PRZ	Pause	[s]	0	20	4
Pre	Pre-rinse Duration	[S]	0	30	0
ا م	Rinse Phase Duration	[S]	10	45	16
ere	Cold Rinse Phase Duration	[s]	0	50	0
dre	Drain	[S]	0	40	16
FPZ	Final Pause at End of Cycle	[s]	0	60	0
612	Long wash time in mode Thermal Label	[min]	0	60	1
652	Short wash time in mode Thermal Label	[S]	0	60	12

## 7.4 [J] Cycle 3 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
Ful	Wash Phase Long	[min]	0	20	1
5h3	Wash Phase Short	[s]	1	60	40
P83	Pause	[s]	0	20	4
Pr 3	Pre-rinse Duration	[s]	0	30	0
r i d	Rinse Phase Duration	[s]	10	45	16
er 3	Cold Rinse Phase Duration	[s]	0	50	0
dr 3	Drain	[s]	0	40	16
FP3	Final Pause at End of Cycle	[s]	0	60	0
£13	Long wash time in mode Thermal Label	[min]	0	60	2
£53	Short wash time in mode Thermal Label	[s]	0	60	12
bt 3	Boiler Temperature Threshold: only for Cycle 3. This parameter allows having a different rinsing temperature for the third cycle. Only values above 45°C are allowed.	[°C]	0	95	0

## 7.5 dr n Drain/Cleaning Cycle Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
ldr	Initial Drain Phase Duration	[s]	0	240	40
Fdr	Final Drain Phase Duration	[s]	0	240	80
drt	Drain without cleaning cycle	-	0	1	0
[bd	Number of wash cycles possible between one drain cycle and the next	[wash cycles]	0	200	0
dto	Indicates the maximum permissible delay between drain cycle start and the reaching of a tank level below the work level. If the set delay is exceeded, alarm B1 occurs.	[s] x 10	0	100	18

## **8 OTHER PARAMETERS**

## 8.1 *dPR* Dishwashing Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
<i>\P</i>	Initial Pause before start washing (for ALL cycles)	[s]	0	10	0
di Y	Delay for the 2 <sup>nd</sup> wash pump (PW only)	[s]	0	10	3
Pdr	Active a drain phase at the end of washing phase.	[s]	0	40	0
,  P	Duration of pause after rinse cycle (valid for dishwashers with door/hood lock device) [See par. 9.2 MEDICAL LINE DISH-WASHER WITH DOOR/HOOD LOCK DEVICE].	[s]	0	60	0
[ F	Celsius/Fahrenheit selection 0 = Celsius 1 = Fahrenheit	-	0	1	0
r it	Rinse Temperature Display. Enable rinse temperature probe (if installed). 0 = during rinse phase the display shows boiler temperature; 1 = during rinse phase the display shows rinse temperature;	-	0	1	0
PPL	Pulse Per Litre. This parameter must be settled in according to flow meter installed [present up to software version 3.12].	[p/l]	0	255	0
[d[	Number of wash cycles performable without detergent (only for dishwashers with external detergent level sensor – par. 9.3 DETERGENT AND RINSE AID LEVEL SENSORS ACTIVATION) [LES: ]	-	0	5	5
£1.E	Enable mode Thermal Label: if set to 1 it enables the mode and disables the "endless cycle" button	-	0	1	0
681	Boiler temperature in mode Thermal Label.	[°C]	45	97	86
661	Tank temperature in mode Thermal Label.	[°C]	40	90	75
£ #£	Tank temperature hysteresis in mode Thermal Label.	[°C]	0	30	2
11 E	Pressure sensor threshold 1 [present up to software version 2.11].	-	0	255	140
185	Pressure sensor histeresis 1 [present up to software version 2.11].	-	0	255	50
21.8	Pressure sensor threshold 2 [present up to software version 2.11].	-	0	255	140
285	Pressure sensor histeresis 2 [present up to software version 2.11].	-	0	255	50

Note: ILE, IMS, ZLE, ZHS parameters emulates a two levels pressure switch, keep in mind that value doesn't correspond to a physical quantity.

### 8.2 ron Read Only Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
rEL	Main Board Firmware Release	-	-	-	-
r15	Water softener board software version. (only for dishwashers with incorporated continuous water softener).	-	-	-	-
<i><b>REE</b></i>	Active column: indicates through which of the two continuous water softener columns boiler filling is being carried out: $0 = column A$ and $1 = column B$ (only for dishwashers with incorporated continuous water softener).	-	-	-	-
[ #; ;	When <b>[R!</b> ] message appears, the parameter value becomes 3. After maintenance, to clear <b>[R!</b> ] message, insert 0.	-	-	-	-
[ 8	When <b>L B</b> alarm appears, the machine is frozen and this parameter is 3. After maintenance (see alarm codes document), insert 0 to enable the machine.	-	-	-	-
F2	This alarm appears in case of malfunctioning in the continuous water softener. To facilitate fault-finding, see par. 13.3 ALARMS THAT DON'T STOP THE DISHWASHER FOR MODELS WITH INCORPORATED CONTINUOUS WATER SOFTENER.	-	-	-	-

## 8.3 **HEP** Communication and HACCP Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
SEr	<ul> <li>Serial Device</li> <li>0 = 8N1</li> <li>1 = PC connection (DAAS 8E1)</li> <li>7 = HACCP network (ECAP 8E1+LK485) (LK485 board is necessary)</li> <li>9 = Dishwashers with incorporated continuous water softener</li> <li>16 = HACCP printer (8N1)</li> <li>32 = MODEM GSM (DAAS 8N1)</li> <li>33 = MODEM GSM (DAAS 8E1)</li> <li>48 = Hyper Terminal (8N1)</li> </ul>	-	0	63	1
Rdr	Address. This parameter specifies the address of the appliance into the 'HACCP_network'. Works only if 'HACCP network' is selected (see above parameter).	-	0	255	1
Pra	Print parameter table.	-	0	1	1
66	HACCP 'Basic' (printer) Boiler temperature: high limit.	[°C]	45	95	90
6 H	HACCP 'Basic' (printer) Boiler temperature: gap below high limit.	[°C]	0	20	10
66	HACCP 'Basic' (printer) Tank temperature: high limit.	[°C]	35	75	68
FH	HACCP 'Basic' (printer) Tank temperature: gap below high limit.	[°C]	0	20	10

## 8.4 *LFG* Configuration Parameters

Sym.	Parameter Description	Unit	Min	Мах	Factory Default	
ŁУР	Dishwasher Model: 0 = HOOD TYPE & UNDERCOUNTER 1 = POT WASHER 2 = AUTOMATIC POT WASHER 3 = MEDICAL LINE DISHWASHER WITH LOCK DOOR/HOOD DEVICE	-	0	3	0	
60 1	Boiler type: 0 = ATMOSPHERIC BOILER 1 = PRESSURE BOILER 2 = EXTERNAL BOILER	-	0	2	0	
daa	Door type: 0 = AUTOMATIC HOOD 1 = MANUAL HOOD 2 = FRONT LOADING 3 = POT WASHER		0	3	1	
dFL	Default model (see Default tables): 1 = HOOD TYPE 2 = POT WASHER 3 = UNDERCOUNTER	-	0	3	-	
tre	Solid State Relay (TRIAC). 0 = not enabled; 1 = <b>SOFT START</b> enabled; 3 = <b>SLOW SOFT START</b> enabled (works only on boards with Solid State Relay).	-	0	3	0	
b_t	<ul> <li>Boiler/Iank heating swap:</li> <li>0 = boiler heaters and tank heater can work simultaneously;</li> <li>1 = swap enabled: tank heating starts only boiler temperature is reached;</li> <li>2 = The booster heating elements and the wash pump have priority. The tank heating element is activated only when the booster has reached the set temperature and the wash pump is not working.</li> <li>(Note: disabling this function changes the global electrical power of appliance; before enabling this function check available power, supply cable section, fuses in according to User Manual).</li> </ul>	-	0	2	1	
6£F	Tank Filling Mode Enable filling tank by means of rinsing cycles. Ex: $b \xi \xi = 75$ means that boiler water is heated at 75°C, then follows a rinse phase and so on until tank is full. If $b \xi \xi = 0$ the tank is filled by solenoid valve in the traditional way (On machines with incorporated continuous water softener, even if $b \xi \xi$ is set to 0, filling occurs through subsequent rinses).	[°C]	0	85	75	
185	Detergent Level Switches 0 = level switches not enabled; 1 = enable detergent level switches;	-	0	1	0	

	USER INTERFACE MODEL				
	8 = ACTIVE function disabled (up to version 3.11 [up to serial nr. 42100099] set to 0)				
	9 = hood type, under counter (up to version 3.11 [up to serial nr. 42100099] set to 1)				
U 1	13 = LS5 with atmospheric boiler(up to version 3.11 [up to serial nr. 42100099] set to 5)	-	0	27	9
	15 = LS5 with pressure boiler (user interface without display); (up to version 3.11 [up to serial nr. 42100099] set to 7)				
	24 = LS5 with atmospheric boiler (From Ser. Nr.: 821).				

See parameter  $r \xi i$  (family r a n) to check the software version installed in the board.

Sym.	Parameter Description	Unit	Min	Мах	Factory Default
r E	Enable "regeneration cycle" key (only for dishwashers with non- continuous water softener) [See paragraph 9.1 RESIN REGEN- ERATION CYCLE].	-	0	1	0
AL r	ALARMS ENABLE 0 = alarms disabled (to disable also warnings see b i o and i o); 1 = alarms enabled; If this function is disabled, faults can be detected so display do not shows any alarm code.	-	0	1	1
886	Air gap with float level sensor normally closed (the level sensor is closed when the boiler is empty). E.g. the boiler level sensor for machines with incorporated continuous water softener.	-	0	1	0
FrG	Forced start of a resin regeneration cycle (only for dishwashers with incorporated continuous water softener). [See paragraph 9.4 DISHWASHER WITH INCORPORATED CONTINUOUS WATER SOFTENER].	-	0	2	0
5r U	Max. rinse water hardness (only for dishwashers with incorporated continuous water softener). After modifying, disconnect and reconnect the machine's main power supply by means of the main switch. [See paragraph 9.4 DISHWASHER WITH INCOR-PORATED CONTINUOUS WATER SOFTENER].	°fH	4	14	10
bPo	Boiler heating control. Defines the max. permissible temperature difference during boiler heating in a time interval of 2 minutes and 30 seconds.	°C	25	80	50

## 8.5 **db L** Parameters for automatic hood type dishwashers

Sy	vm.	Parameter Description Unit Min		Min	Мах	Factory Default
Ł	1	DELAY_K1 Time (during hood lifting) within which S3" must return to the rest position.	0.1 s	0.0 s.	20.0 s	15
Ł	2	HOOD_TOUT TIMEOUT – max. time allowed for complete hood opening/clos- ing.	0.1 s	0.0 s	20.0 s	200
Ł	3	DELAY_K1_S3 During hood lowering, firstly S3" must cut in and then after a time 2 .the bottom limit switch S3.	0.1 s	0.0 s.	20.0 s	15
Ł	Ч	DELAY_K Time within which K and K' must be both closed or both open.	0.1 s	0.0 s.	20.0 s	10
Ł	5	DELAY_S3 Time during hood lifting within which the bottom limit switch must return to the rest position	0.1 s	0.0 s.	20.0 s	20

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£ 8	DELAY_S5 Time during hood lowering within which the top limit switch must return to the rest position.	0.1 s	0.0 s.	20.0 s	20
RL_	Displays the last alarm code relative to automatic hood type dish- washers.	-	-	-	0
lt h	Parameter only valid for hood type models. Hood lifting motor absorption threshold. (50 units correspond to a current of approx. 1 ampere).	-	0	250	100

#### SPECIAL FEATURES 9

#### 9.1 **RESIN REGENERATION CYCLE**



The regeneration cycle is activated by pressing the button shown in the figure, for at least 5 seconds.

For this key to be enabled parameter  $r \xi$  (in family  $\xi \xi \xi$ ) must be set to 1.

At this point you can enter the number of wash cycles that can be performed after each regeneration: parameter r L J in the counters family Lnk. If r L J is set to zero the counter is disabled, otherwise after the preset number of cycles the message  $r \xi \tilde{b}$  is displayed to confirm that regeneration is possible (this is an information-only message with no effect on operation of the appliance, so you can continue to use the dishwasher). The message is cleared when the regeneration cycle is terminated.

The number of regeneration cycles performed can be checked by consulting the parameter  $n \epsilon \xi$  in the  $\xi n \xi$ family of counters.

When there are just 15 cycles remaining before the next regeneration cycle, at the end of the wash cycle the display shows the message End followed by 15, at the end of the next wash cycle the display shows End and 14, and so forth, i.e. the display informs the user of the number of wash cycles still available before resin regeneration is required.

Before starting the regeneration cycle remove the siphon spillway.

#### WARNING:

If the regeneration cycle is accidentally started, it can be switched off by pressing the button shown in the figure, for at least 5 seconds

The hardness of the water exiting the softener can vary between 3°f - 10 °f / 1.7 °d - 5.6 °d / 2.1 °e - 7 °e.

#### 9.2 MEDICAL LINE DISHWASHER WITH DOOR/HOOD LOCK DEVICE

The medical line dishwasher with door/hood lock device has a device that prevents door/hood opening for the entire duration of the work cycle.

For the door/hood lock to be active, the parameter  $\xi \mathcal{GP}$  (in the  $\mathcal{GFG}$  family) must be set to  $\mathcal{F}$ .

The dishwasher door/hood is locked at the start of a wash cycle and is released at the end of the final pause after rinse. The wash compartment can be accessed by stopping the work cycle in progress, as the locking device is thus disabled. .

A pause at the end of rinse can be set by means of the parameter r P R (in the d P R family). This parameter is common to all 3 wash cycles. The rinse water temperature is displayed during this pause. Another final pause in the cycle can be set by setting the parameters *FP 1, FP2, FP3*. During the final pause the display shows the time remaining for completion of the cycle. The door/hood lock device will be deactivated at the end of the final pause (FPI, FPZ, FPJ).

For correct performance of the wash cycle the pause at the end of rinse and the final pause must assume the default values (see Prog 032 - 034 - 035).

#### DETERGENT AND RINSE AID LEVEL SENSORS ACTIVATION 9.3

By setting the parameter LES (in the LES family) to 1, management of the level sensors located inside the external detergent and rinse aid tanks is enabled. During the rinse phase, when the rinse aid inside the tank has finished, the message  $\mathbf{r} \mathbf{B} \mathbf{i} \mathbf{G}$  appears on the display.

When the detergent inside the tank is finished, the message  $dE = \hat{a}$  is displayed and after a number of wash cycles equal to  $\mathcal{L}d\mathcal{E}$  (in the  $d\mathcal{P}\mathcal{R}$  family) the dishwasher inhibits the activation of other wash cycles. Therefore the detergent level in the tank must be restored.

#### DISHWASHER WITH INCORPORATED CONTINUOUS WATER SOFTENER 9.4

Dishwashers with incorporated continuous water softener have a continuous softener in the water circuit. By means of special resins, this device removes the calcareous substances from the feed water, supplying decalcified water for washing.

To activate the continuous water softener, set the parameter  $5\xi r$  (in the  $4\xi P$  family) to the value 3.

For the continuous softener to work properly the resins must be regenerated periodically with a frequency depending on the hardness of the inlet water, the number of wash cycles carried out and the max. hardness set with the parameter  $5 r \mathcal{U}$  (in the  $\mathcal{L} F \mathcal{U}$  family).

Unlike conventional water softeners, this continuous softener does not require machine stops for regenerating the resins.

To regenerate the resins it is necessary to put coarse salt in the special container located in the dishwasher. In particular, the salt container must be filled when the dishwasher is started the first time and whenever the message 582 End appears on the display and an audible alarm sounds. The salt container holds up to 1.5 kg of salt

#### WARNING:

Use only coarse salt with a NaCl purity grade of 99.8 %. The use of salt with a lower purity grade may cause the sale container filter to clog and the water softener to malfunction.

#### WARNING:

The message  $\int \mathcal{R}_{L} = \int \mathcal{A} d$  may appear, for several rinse, tank filling or wash cycles, even after replenishing the salt, as the salt must circulate in the entire system. This, however, does not affect correct dishwasher operation.

The number of regeneration cycles performed can be checked by consulting the parameter  $ar \xi$  in the lastfamily of counters.

mE only counts regeneration cycles carried out with the salt container adequately filled; there is another counter,  $r \xi 5$  (in the  $\zeta n \xi$  family) that indicates the number of regeneration cycles done without salt.

If the parameter SrU is set to the value10, according to the factory setting, the water softener outlet water hardness can vary between 3°f - 10 °f / 1.7 °d - 5.6 °d / 2.1 °e - 7 °e.

#### AUTONOMY OF THE FULL SALT CONTAINER ACCORDING TO THE CHANGE IN INLET WATER HAR-DNESS

w	ater hardnes	<b>SS</b>	The salt container must be fil- led approximately every (*):	Using cycle 2 for 30 cycles/day, the salt container must be filled approximately every (*):
°f	°d	°e	Cycles	Days
15	8,4	10,5	1168	39
20	11,2	14	837	28
25	14	17,5	589	19
30	16,8	21,1	506	17
35	19,6	24,6	423	14
40	22,4	28,1	341	11

(\*) Considering a rinse time according to the factory settings.

Maximum outlet water hardness can be modified by setting the 5rU value. The outlet water hardness can be modified from the value of 4° f to 14° f.

NB: To save the new water hardness value, in addition to the normal parameter modification and saving operations it is necessary to disconnect and reconnect the machine's main power supply by means of the main switch on the external board.

Water softener operation can be checked by forcing the regeneration of resins, without waiting for the outlet water hardness to reach the set max. value (5 r U).

To do this, wait for the water softener to finish previous resin washing or regeneration operations and set the parameter  $F \circ G$  ( $F \circ G$  family) to f for regenerating column A or to  $\vec{c}$  for regenerating column B.

Switch the machine off and on again so that it carries out complete regeneration of the set column. If previous resin washing or regeneration operations were not completed, the manual request for regeneration is not carried out.

It is possible to check which column is being used for boiler filling by querying the parameter RRC (r an family): if RRC = 0 column "A" is used, if RRC =1 column "B" is used.

The number of litres used by the machine can be checked by querying the parameters **nnc** (m3) and **k** (litres). To calculate the total number of litres used by the machine, add the **nnc** and **k** values.

NB: In machines with incorporated continuous water softener, tank filling must be done through subsequent rinses from the boiler and cannot occur by overflow since the filling system does not allow overflow in the tank. Therefore, even if the parameter  $b \in F$  is set to  $\vec{u}$ , filling is done by subsequent rinses.

### 9.5 HOOD-TYPE DISHWASHER WITH CYCLE THERMAL LABEL

#### WARNING:

#### Functions present with firmware version 4.04.

If the parameter **LLE** (Thermal Label enabled) of the family **dPR** is set to **D**, the "Endless cycle" button has the "endless cycle" function and the "high productivity" mode is non-settable.

If the parameter **LLE** (Thermal Label enabled) of the family **dPA** is set to **1**, the "Endless cycle" button does not have the "endless cycle" function but that of the "high productivity" mode.

This means that the machine can work in 2 modes, "high productivity" and "Thermal Label". When the machine is set in "high productivity" mode, the parameters which define the cycle times and temperature set points are the standard parameters, whereas when the machine is set in "Thermal Label" mode, the parameters are dedicated (they are new parameters listed below).

The mode Thermal Label provides for cycle times, tank hysteresis and tank and boiler temperatures such as to pass the "Thermal Label" test.

Press and hold down the button to switch the machine from "high productivity" mode to "Thermal Label" mode and vice versa.

The "high productivity" button LED is off when the machine is set in "Thermal Label" mode (factory default) and lights up when the button is pressed and the machine is configured in "high productivity" mode. Whenever the machine is shut down, it memorises the mode with which is was switched off and reloads it when switched on the next time.

#### New parameters:

- *ELE* (family *dPR*): if set to *i* it enables the Thermal Label mode (and disables the "endless cycle" button).
- bとと (family dP用): temperature set point for the boiler during the cycles Thermal Label.
- ととし (family dPR): temperature set point for the tank during the cycles Thermal Label.
- *EHE* (family *dPR*): hysteresis temperature for the tank during the cycles Thermal Label.
- *EL 1* (family *L I*): long wash time for cycle 1 in Thermal Label mode.
- £5 / (family £9 /): short wash time for cycle 1 in Thermal Label mode.
- としご (family じょご): long wash time for cycle 2 in Thermal Label mode.
- £52 (family £42): short wash time for cycle 2 in Thermal Label mode.
- *EL 3* (family *[ 43*): long wash time for cycle 3 in Thermal Label mode.
- ・ とらう (family ビダう): short wash time for cycle 3
   in Thermal Label mode.

#### 9.6 DISHWASHERS WITH WASH TANK WATER CHANGE FREQUENCY CONTROL

#### WARNING:

Function included starting from firmware version 5.00.



If the parameter Lbd (Cycles before drain) of the family drn is set to a value higher than d, a wash tank water change frequency control is enabled. The purpose of this function is to display a message telling the customer when a tank water drain cycle is required. In this way, if the customer does what the machine suggests, washes will be done with sufficiently clean water.

The value set in the parameter *Lbd* (Cycles before drain) indicates the number of wash cycles possible between one tank water drain cycle and the next. When the number of wash cycles done since the last tank water change reaches the value contained in the parameter *L* ad (Cycles before drain), the display shows the message "dr n" at the start of a wash cycle and the message "dr n End" at the end of the same cycle. When these messages appear on the display at the start and end of the wash cycle, a tank water drain cycle must be done to ensure washes with sufficiently clean water.

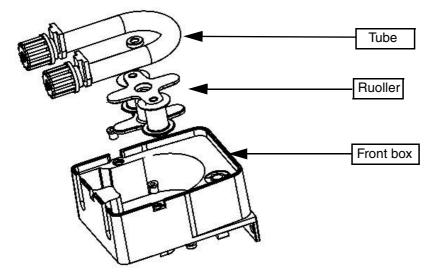
#### WARNING:

If the tank drain cycle is not done, the machine does not shut down, but will continue to do wash cycles, showing the messages drn and drn End at the start and end of the wash cycle respectively.

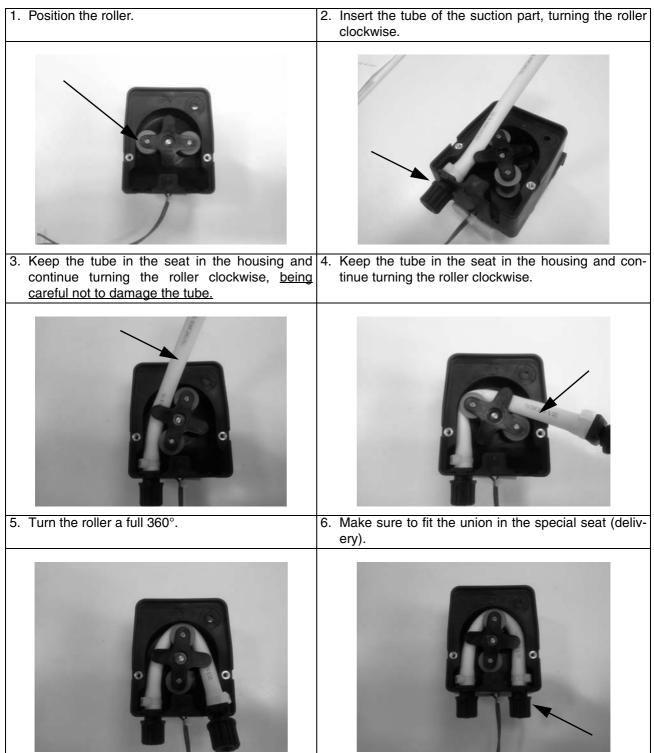
#### 9.7 PERISTALTIC TUBE FITTING AND REPLACEMENT INSTRUCTIONS

Described below is the procedure for inserting and removing the tubes from the peristaltic pumps, in case of tube replacement.

An exploded view of the parts involved in the tube fitting and removal operations is given below.



#### **STEP 1 - FITTING THE TUBE**



#### **STEP 2 - REMOVING THE TUBE**

1. Position the roller as shown in the figure.	<ol> <li>Lift the tube at the suction part and turn the roller at the same time. Guide the tube, keeping it raised, and turn the roller.</li> </ol>
3. Remove the tube.	

#### MAIN BOARD CONFIGURATION 10

When receiving an electronic board (spare part) may be necessary to configure it in according to the machine where has to be replaced

- 4. With the machine CODE enter into the following table and read the corresponding Prog. number
- 5. Follow the instructions reported into the corresponding Prog.XXX sheet (next pages).
- 6. With the machine CODE find the Layout number in Par. 12.2 CONNECTORS LAYOUT.

### 10.1 CODE -> Prog. TABLE

MODEL	CODE	Prog.	Layout
NUC3DD	400041	103	16
EUC1	400055	101	11
EUC1DP	400056	101	11
EUC1WS	400057	102	21
EUC1DPWS	400058	102	21
EUC3	400059	103	16
EUC3WS	400060	104	17
EUC3DP	400061	103	16
EUC3DPWS	400062	104	17
EUC1G	400063	105	11
EUC1DP60	400064	101	11
EUC3DD	400065	103	16
ZUCADDROW	400066	134	16
ZUCADDROW6	400067	134	16
EUCADD60	400068	143	16
FUCA3DD	400116	135	16
NUC1DPP	400120	101	11
EUC1DDM60	400121	101	11
NUC1DUK	400122	101	11
NUC1DDUK	400123	101	11
KUC3	400127	103	16
KUC3DP	400128	103	16
NUC1DDRUKP	400130	146	11
NUC1GRUK	400131	136	16
NUC1	400133	101	11
NUC1DD	400134	101	11
EUCAIDP	400137	128	11
NUC1GMS	400138	137	11
EUC3DPCAG	400139	138	16
NUC1	400140	101	11
NUC1DP	400141	101	11
NUC1WS	400142	102	21
NUC1WSDP	400143	102	21
NUC3	400144	103	16
NUC3WS	400145	104	17
NUC3DP	400146	103	16
NUC3DPWS	400147	104	17
NUC3DDWS	400148	104	17
NUC1DP60	400149	101	11
NUC1DPA	400150	105	11
ZUCA1	400151	128	11
ZUCA3	400152	128	16
EUCADDROW	400153	134	16
EUCADDROW6	400154	134	16
NUC1DPDD	400155	101	11
NUCAIG	502010	106	8

MODEL	CODE	Prog.	Layout
NUCAIWSG	502011	107	8
XUCAI	502012	106	8
XUCAIDP	502012	106	8
EUCAI	502025	106	8
EUCAIDP	502025	106	8
EUCAI60	502027	106	8
EUCAIWS	502027	100	8
EUCAIG	502028	107	8
EUCAIWSG	502033	100	8
EUCAIMSG	502034	107	8
EUCAIMLWS	502035	108	8
EUCAIMLG			-
	502037	110	10
EUCAICL	502038	111	18
EUCAICLG	502039	111	18
EUCAIWL	502040	112	8
EUCAICLW	502042	113	18
EUCI	502043	114	16
EUCIM	502044	115	19
EUCIM60	502045	115	19
EUCAIDPNW	502046	106	8
ZUCI	502047	114	16
ZUCID	502048	114	16
ZUCAI	502049	106	8
ZUCAIDP	502050	106	8
ZUCAIDPWS	502051	107	8
ZUCAIG	502052	106	8
ZUCAIDDWS	502053	107	8
ZUCAID	502054	106	8
ZUCAI60	502055	106	8
EUCAIUSPH6	502056	125	9
ZUCAIDD	502057	106	8
EUCAIDD	502058	106	8
EUCAIDPJ	502059	106	8
EUCAIDPJ60	502060	106	8
EUCIDDC	502123	145	16
ZUCIDC	502124	145	16
EHTA	504226	120	1
EHTA60	504227	120	1
EHTAWS	504228	121	4
EHTAI	504229	120	1
EHTAID	504230	120	4
EHTAIWS	504231	121	4
EHTAIDWS	504232	121	4
EHTAIG	504233	120	4
EHTAIWSG	504234	121	4
EHTAIAU	504235	122	15
EHTAIMLAU	504236	123	4
	•		

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MODEL	CODE	Prog.	Layout
ZHTAWS	504237	121	4
ZHTAID	504238	120	4
ZHTAIWS	504239	121	4
ZHTAIAU	504240	122	15
ZHTA	504241	120	4
ZHTA60	504242	120	4
ZHTAI	504243	120	4
EHTAIUSPH5	504244	126	2
EHTAIUSPH6	504245	126	2
EHTAO	505036	124	23
EHT	505046	118	13
EHT60	505047	118	13
EHTAG	505048	119	23
EHTM	505049	118	13
EHTM60	505050	118	13
NHT	505051	118	13
NHTD	505051	118	13
NHT60	505052	118	13
EHTAROW	505053	124	23
EHTAROW60	505054	124	23
ZHTAROW60	505055	124	23
ZHTAROW60	505058	124	23
EHTAJ	505057	124	23
		120	
EHTAJ60	505059		23
EHTAO60	505060	124	23
ZHTAO	505061	124	23
ZHTAO60	505062	124	23
KHT	505063	118	13
NHTM	505064	118	13
NHTM60	505065	118	13
NHTP	505082	118	13
ZHT7	505087	144	23
ZHT76	505088	144	23
EPPWESG	506048	139	4
EPPWESG60	506049	141	4
EPPWEHG	506050	139	4
ZPPWESG	506051	139	4
ZPPWEHG	506052	139	4
ZPPWSSG	506053	139	4
EPPWELG	506054	140	4
EPPWELG60	506055	142	4
ZPPWELG	506056	140	4
ZPPWSLG	506057	140	4
EPPWESGFB	506062	147	4
EPPWEHGFB	506063	147	4
EPPWELGFB	506064	148	4
EPPWESGM6	506071	140	4
NPPWESG	511326	139	4
NPPWEHG	511328	139	4
NPPWELG	511329	140	4
NUC1G	690028	105	11
NUCA1DDG	698005	136	16
OHTAROW	698047	127	23
OHTAROW60	698048	127	23

MODEL	CODE	Brog	Lavout
_		Prog.	Layout
NHTDPDDG	698058	119	23
APPWELG	698083	140	4
APPWESG	698085	139	4
APPWEHG	698086	139	4
ET5AIIT	698087	131	8
ET5AIDP	698088	132	8
ET5AIDPWS	698089	133	8
AUCI	698091	114	16
AUCAI	698092	116	8
AUCAIDP	698093	116	8
AUCAIDPWS	698094	117	8
AUCAIG	698095	106	8
AUCAIWSG	698096	107	8
ET12AI	698097	129	4
ET12AIT	698098	130	4
NHTAG	698110	119	23
AHTAWS	698115	121	4
AHTAIWS	698116	121	4
AHTAIG	698117	120	4
AHTAIWSG	698118	121	4
АНТА	698119	120	4
AHTAI	698120	120	4
	S49JGF	103	16
	S49LBN	103	16
	S49QL1	103	16

### **10.2 PROGRAMMING SHEETS**

N	UC1		UU	1 PROG 101
	witch OFF a			
	[FG		-	rameter family and set the following parameters:
		ЕЯР	0	Hood Type and undercounter.
		bor	1	Pressure boiler.
		doo	2	Front loading function.
		dfl	3	Default values for Undercounter models.
		trc	0	Disabled (for this appliance SOFT START is NOT possible).
		6_£	1	Tank heater works only if boiler temperature reached.
		62 <i>F</i>	0	The tank is filled into the traditional way.
		LE5	0	Detergent level switches not enabled.
		U 1	24	Select user interface for LS5.
		r E	0	Regeneration cycle disabled.
		Al r	0	Alarms not enabled.
		AAC	0	Boiler electronic level sensor.
		Frű	0	Resin regeneration cycle forcing.
		SrU	10	Rinse water max. hardness.
		6Ро	50	Boiler heating control.
S	witch OFF a	nd then swit	tch ON th	
М	lodify Factor	y parameter	rs:	
	FAC	Enter into	FAC par	ameter family and set the following parameters.
		ьεї	82	Boiler Temperature Threshold.
		ьн ,	96	Boiler temperature: alarm threshold.
		ьяј	3	Boiler Temperature Adjust.
		ЬР	1	Boiler standby function enabled.
		ЬSŁ	2	Booster Function.
		ьtd	Э	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFC	63	Tub Temperature: Threshold.
		EH 1	75	Tank temperature: alarm threshold.
M	lodify the cyc	le paramete	ers:	
1	[ 4 1	Cycle 1 p		rs family.
		Lnl	1	Long Wash Phase [min].
		5h 1	40	Short Wash Phase [s].
		PR (	ч	Pause [s].
		ril	15	Rinse Phase Duration [s].
		dr 1	30	Drain [s].
		FP (	0	Final Pause [s].
	[ 42	Cycle 2 p	arameter	
		LnZ	2	Long Wash Phase [min].
		542	40	Short Wash Phase [s].
		PAZ	4	Pause [s].
		r 12	15	Rinse Phase Duration [s].
		dr2	30	Drain [s].
		FP2	0	Final Pause [s].
	[	Cycle 3 p		
		Ln3	2	Long Wash Phase [min].
		543	40	Short Wash Phase [s].
		PRE	10 4	Pause [s].
			15	
				Rinse Phase Duration [s].
		r ið dað		
		r (3 dr3 FP3	30 30 0	Drain [s]. Final Pause [s].

IUC	1 / El	JC	PROG 1	U	
drn	Drain parameters family.				
	ldr	30	Initial Drain Phase Duration [s].		
	Fdr	100	Final Drain Phase Duration [s].		
	drt	0	Drain and cleaning mode.		
	[Ъб	0	Wash tank water change frequency control disabled.		
dPA	Set other p	aramet	ers.		
	¦PR	0	Initial Pause [s] (for ALL cycles).		
	aly	3	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[ F	0	Degrees Celsius display.		
	r it	0	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into H	-ICP pa	rameter family and set the following parameters.		
	SEr	1	Machine arranged for remote connection to PC.		
Switch OFF	and then switcl	h ON th	ne machine.		
<u>GEn</u>	Enter into GEn parameter family.				
	d In	165	Initial Detergent Dosage.		
	r In	0	Initial Rinse Aid Dosage.		
	dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.		
	r A i	<b>5</b> 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.		

#### WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the  $\Gamma FL$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the **[F** family are not modified.

## NUC1WS / EUC1WS

_				
1.		and then swi		
2.	[FG			ameter family and set the following parameters:
		ЕЧР	0	Hood Type and undercounter.
		60 I	0	Atmospheric boiler.
		doo	2	Front loading function.
		dFL	3	Default values for Undercounter models.
		trc	0	Disabled (for this appliance SOFT START is NOT possible).
		6_£	1	Tank heater works only if boiler temperature reached.
		ЬŁF	75	Enable filling tank by means of rinsing cycles.
		LE5	0	Detergent level switches not enabled.
		U 1	24	Select user interface for LS5.
		r E	1	Regeneration cycle enabled.
		Al r	0	Alarms not enabled.
		ARG	0	Boiler electronic level sensor.
		Frū	0	Resin regeneration cycle forcing.
		Srll	10	Rinse water max. hardness.
		ЪPo	50	Boiler heating control.
3.	Switch OFF	and then swi	tch ON the	e machine.
4.		ory paramete	rs:	
	FAC	Enter inter	o FAC para	ameter family and set the following parameters.
		ьεζ	83	Boiler Temperature Threshold.
		ьн ,	96	Boiler temperature: alarm threshold.
		ьяј	2	Boiler Temperature Adjust.
		ЬР	1	Boiler standby function enabled.
		65£	2	Booster Function.
		ЬŁd	Э	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFC	63	Tub Temperature: Threshold.
		EH 1	75	Tank temperature: alarm threshold.
5.	Modify the c	ycle paramet	ers:	
	[]		parameters	s family.
		Lal	1	Long Wash Phase [min].
		5h 1	40	Short Wash Phase [s].
		PR 1	4	Pause [s].
		ril	15	Rinse Phase Duration [s].
		dr 1	30	Drain [s].
		FP {	0	Final Pause [s].
	[ 42	Cycle 2 p	arameters	
		LnZ	2	Long Wash Phase [min].
		542	40	Short Wash Phase [s].
		PR2	4	Pause [s].
		r 12	15	Rinse Phase Duration [s].
		dr Z	30	Drain [s].
		FPZ	0	Final Pause [s].
	[¥3		arameters	
		LnJ	2	Long Wash Phase [min].
		5h3	ч <u>р</u>	Short Wash Phase [s].
		PRE		Pause [s].
		r 13	16	Rinse Phase Duration [s].
		dr 3	30	Drain [s].
		FP3	0	
				Final Pause [s].
		6F 3	0	Boiler Temperature Threshold for Cycle 3.

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## NUC1WS / EUC1WS

	drn	Drain parameters family.			
		ldr	30	Initial Drain Phase Duration [s].	
		Fdr	100	Final Drain Phase Duration [s].	
		drt	0	Drain and cleaning mode.	
		ĽЪd	0	Wash tank water change frequency control disabled.	
	dPR	Set other	r paramete	ers.	
		1PA	٥	Initial Pause [s] (for ALL cycles).	
		<u> </u>	3	Delay for the 2 <sup>nd</sup> wash pump [s].	
		Pdr	0	Drain Phase Duration at the end of washing phase [s].	
		r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).	
		[ F	0	Degrees Celsius display.	
		r it	0	During the rinse stage, the display shows the boiler temperature.	
<b>HCP</b> Enter into HCP parameter family and set the following parameters.			rameter family and set the following parameters.		
		SEr	1	Machine arranged for remote connection to PC.	
6.	Switch OFF	and then swi	itch ON th	e machine.	
	<u>GEn</u>	Enter into	o GEn par	rameter family.	
		d In	07	Initial Detergent Dosage.	
		r In	5	Initial Rinse Aid Dosage.	
		dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).	
		r A ı	ч	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).	
7.	Switch OFF	and then swi	tch ON th	e machine.	

#### WARNING:

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

When modifying parameter  $d^{FL}$ , all the parameters (except those belonging to the  $L^{FL}$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the  $L^{FL}$  family are not modified.

## NUC3 / KUC3 / EUC3

1.	Switch OFF a			
2.	[ F G		o CFG par	rameter family and set the following parameters:
		ŁУP	0	Hood Type and undercounter.
		boi	1	Pressure boiler.
		doo	2	Front loading function.
		dFl	3	Default values for Undercounter models.
		trc	1	SOFT START enabled.
		6_£	1	Tank heater works only if boiler temperature reached.
		ЬŁF	۵	The tank is filled into the traditional way.
		L E 5	0	Detergent level switches not enabled.
		U 1	24	Select user interface for LS5.
		r E	۵	Regeneration cycle disabled.
		Ri r	0	Alarms not enabled.
		AAC	0	Boiler electronic level sensor.
		Frű	٥	Resin regeneration cycle forcing.
		SrU	10	Rinse water max. hardness.
		ЪPo	50	Boiler heating control.
3.	Switch OFF a	nd then sw	itch ON the	e machine.
4.	Modify Factor			
	FAC			ameter family and set the following parameters.
		ьεї	84	Boiler Temperature Threshold.
		ЬН т	96	Boiler temperature: alarm threshold.
		ьяј	3	Boiler Temperature Adjust.
		ЬР	1	Boiler standby function enabled.
		65E	2	Booster Function.
		błd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFC	63	Tub Temperature: Threshold.
		EHI	75	Tank temperature: alarm threshold.
5.	Modify the cy	-		
	[9]		parameter	•
		Lal	1	Long Wash Phase [min].
		5h 1	40	Short Wash Phase [s].
		PR I	4	Pause [s].
		rit	16	Rinse Phase Duration [s].
		dr 1	30	Drain [s].
	<b>5</b> 47	FP 1	0	Final Pause [s].
	[7]	-	parameter	-
		Ln2	2	Long Wash Phase [min].
		5h2	40	Short Wash Phase [s].
		PA2	4	Pause [s].
		r 12	16 70	Rinse Phase Duration [s].
		dr2	30	Drain [s].
	<i><b>Г</b>И</i> <b>Р</b>	FP2	0	Final Pause [s].
	[7]		parameter	
		En]	2	Long Wash Phase [min].
		5h3	40	Short Wash Phase [s].
		PAJ	4	Pause [s].
		r ið	16 70	Rinse Phase Duration [s].
		dr 3	30	Drain [s].
		FP3	0	Final Pause [s].
		6£3	0	Boiler Temperature Threshold for Cycle 3.

## NUC3 / KUC3 / EUC3

	drn	Drain par	rameters f	family.	
		ldr	30	Initial Drain Phase Duration [s].	
		Fdr	100	Final Drain Phase Duration [s].	
		drt	0	Drain and cleaning mode.	
		[Ъб	0	Wash tank water change frequency control disabled.	
	dPA	Set other	r paramete	ers.	
		1PA	۵	Initial Pause [s] (for ALL cycles).	
		<b>ብ</b>	3	Delay for the 2 <sup>nd</sup> wash pump [s].	
	Pdr Drain Phase Duration at the end of washing phase [s].				
		r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).	
		[ F	0	Degrees Celsius display.	
		r it	0	During the rinse stage, the display shows the boiler temperature.	
	<b>HCP</b> Enter into HCP parameter family and set the following parameters.			rameter family and set the following parameters.	
		SEr	1	Machine arranged for remote connection to PC.	
6.	Switch OFF	and then swi	tch ON th	e machine.	
	<u>GEn</u>	Enter into	o GEn par	rameter family.	
		d In	165	Initial Detergent Dosage.	
		r In	0	Initial Rinse Aid Dosage.	
		dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.	
		r A i	<b>5</b> /	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.	
7.	Switch OFF	and then swi	tch ON th	e machine.	

#### WARNING:

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

When modifying parameter  $d^{FL}$ , all the parameters (except those belonging to the  $L^{FL}$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the  $L^{FL}$  family are not modified.

## **NUC3WS / EUC3WS**

1.	Switch OFF			
2.	[F[			ameter family and set the following parameters:
		ŁУP	0	Hood Type and undercounter.
		bo i	0	Atmospheric boiler.
		doo	2	Front loading function.
		dFL	3	Default values for Undercounter models.
		tre	1	SOFT START enabled.
		6_£	1	Tank heater works only if boiler temperature reached.
		ЬŁF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		U 1	24	Select user interface for LS5.
		rE	1	Regeneration cycle enabled.
		Al r	0	Alarms not enabled.
		AAC	0	Boiler electronic level sensor.
		Frű	0	Resin regeneration cycle forcing.
		SrU	10	Rinse water max. hardness.
		6 <b>P</b> o	50	Boiler heating control.
	Switch OFF a			e machine.
4.	Modify Facto			an stan family, and ast the fallowing parameters
	FAL			ameter family and set the following parameters.
		ьεї	83 85	Boiler Temperature Threshold.
		ьн , Бяј	96	Boiler temperature: alarm threshold.
		оли БР	2	Boiler Temperature Adjust.
		-	ו ר	Boiler standby function enabled.
		65E	2	Booster Function.
		6£ d	E	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		££[	63 75	Tub Temperature: Threshold.
5	Modify the e	EH 1		Tank temperature: alarm threshold.
5.	Modify the cy		parameters	s family
		Lnl	1	Long Wash Phase [min].
		551	ЧО	Short Wash Phase [s].
		PR 1	4	Pause [s].
		ril	15	Rinse Phase Duration [s].
		dr l	30	Drain [s].
		FP 1	0	Final Pause [s].
	[ 92		parameters	
		LnZ	2	Long Wash Phase [min].
		5h2	40	Short Wash Phase [s].
		PR2	4	Pause [s].
		r 12	15	Rinse Phase Duration [s].
		dr Z	30	Drain [s].
		FP2	0	Final Pause [s].
	[4]	Cycle 3	parameters	s family.
		EnJ	2	Long Wash Phase [min].
		5h3	40	Short Wash Phase [s].
		PR3	4	Pause [s].
		r ið	15	Rinse Phase Duration [s].
		dr 3	30	Drain [s].
		FP3	0	Final Pause [s].
		6£ 3	0	Boiler Temperature Threshold for Cycle 3.

## **NUC3WS / EUC3WS**

drn	Drain parameters family.			
	ldr	30	Initial Drain Phase Duration [s].	
	Fdr	100	Final Drain Phase Duration [s].	
	drt	0	Drain and cleaning mode.	
	[bd	0	Wash tank water change frequency control disabled.	
dPR	Set other	r paramet	ers.	
	1PR	۵	Initial Pause [s] (for ALL cycles).	
	<b>ብ</b> የ ሕ	Э	Delay for the 2 <sup>nd</sup> wash pump [s].	
	Pdr	0	Drain Phase Duration at the end of washing phase [s].	
	r PR	0	Duration of pause after the rinse cycle [s] (for ALL cycles).	
	[ F	0	Degrees Celsius display.	
	r it	0	During the rinse stage, the display shows the boiler temperature.	
HEP	Enter into HCP parameter family and set the following parameters.			
	SEr	1	Machine arranged for remote connection to PC.	
Switch OF	F and then swi	tch ON th	e machine.	
<u>GEn</u>	Enter inte	o GEn pai	rameter family.	
	d In	07	Initial Detergent Dosage.	
	r In	5	Initial Rinse Aid Dosage.	
	dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).	
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).	
Switch OFI	F and then swi	tch ON th	e machine.	

#### WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the  $\Gamma FL$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the **[F** family are not modified.

NUC	1G /	ΕU	C1G PROG 105
Switch OF	F and then swit	ch ON th	e machine.
. EFG	Enter into	CFG pa	rameter family and set the following parameters:
	ŁУP	۵	Hood Type and undercounter.
	60 i	1	Pressure boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	tre	0	Disabled (for this appliance SOFT START is NOT possible).
	b_£	1	Tank heater works only if boiler temperature reached.
	ЬŁF	۵	The tank is filled into the traditional way.
	LES	0	Detergent level switches not enabled.
	U 1	24	Select user interface for LS5.
	r E	۵	Regeneration cycle disabled.
	Al r	0	Alarms not enabled.
	AAC	0	Boiler electronic level sensor.
	Frū	۵	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	ЬPo	50	Boiler heating control.
. Switch OF	F and then swit	ch ON th	e machine.
	ctory parameter	'S:	
FAC		FAC par	ameter family and set the following parameters.
	ьεї	82	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяј	3	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	2	Booster Function.
	ЪŁd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FFC	63	Tub Temperature: Threshold.
	EHi	75	Tank temperature: alarm threshold.
	cycle paramete	ers:	
[7]	Cycle 1 p		-
	Lal	1	Long Wash Phase [min].
	5h 1	40	• •
	PR (	4	Pause [s].
	rit	16	Rinse Phase Duration [s].
	dr 1	30	Drain [s].
	FP (	0	Final Pause [s].
[75	Cycle 2 p		s family.
	LnZ	2	Long Wash Phase [min].
	542	40	Short Wash Phase [s].
	PA2	4	Pause [s].
	r 12	15	Rinse Phase Duration [s].
	dr Z	30	Drain [s].
	FP2	0	Final Pause [s].
[73	Cycle 3 p	arameter	s family.
	Eng	2	Long Wash Phase [min].
	5h3	40	Short Wash Phase [s].
	PA3	4	Pause [s].
	r ið	15	Rinse Phase Duration [s].
	dr 3	30	Drain [s].
	FP3	۵	Final Pause [s].
	6F 3	0	Boiler Temperature Threshold for Cycle 3.

<b>UC</b>	1G /	EU	C1G I	PROG 105		
drn	Drain parameters family.					
	ldr	30	Initial Drain Phase Duration [s].			
	Fdr	100	Final Drain Phase Duration [s].			
	drt	0	Drain and cleaning mode.			
	[Ьб	0	Wash tank water change frequency control disabled.			
dPR	Set other	paramet	ers.			
	1PA	٥	Initial Pause [s] (for ALL cycles).			
	dl y	Э	Delay for the 2 <sup>nd</sup> wash pump [s].			
	Pdr	0	Drain Phase Duration at the end of washing phase [s].			
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[ F	0	Degrees Celsius display.			
	r it	0	During the rinse stage, the display shows the boiler temperatu	ire.		
HEP	Enter into HCP parameter family and set the following parameters.					
	SEr	1	Machine arranged for remote connection to PC.			
Switch OFF	and then swit	ch ON th	e machine.			
<u>GEn</u>	Enter into GEn parameter family.					
	d In	165	Initial Detergent Dosage.			
	r In	0	Initial Rinse Aid Dosage.			
	dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in	activated.		
	r A i	<b>5</b> †	Rinse Aid dispenser works when LOAD SOLENOID VALVE in	activated.		

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

## ZUCAI / AUCAIG / EUCAI / NUCAI

1.	Switch OFF a	nd then sv	vitch ON th	e machine.
2.	[ F G	Enter in	to CFG par	rameter family and set the following parameters:
		ŁУP	0	Hood Type and undercounter.
		bo i	0	Atmospheric boiler.
		doo	2	Front loading function.
		dFL	Ξ	Default values for Undercounter models.
		tre	1	SOFT START enabled.
		6_£	1	Tank heater works only if boiler temperature reached.
		ЬŁF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		<u>U</u> 1	9	Select user interface hood type/ undercounter model.
		rE	_ 0	Regeneration cycle disabled.
		Al r	-	Alarms enabled.
		AAC	, D	Boiler electronic level sensor.
		FrG	0	Resin regeneration cycle forcing.
		SrU	10	Rinse water max. hardness.
		5,0 6Po	50	Boiler heating control.
3.	Switch OFF a			
3. 4.				
	FAC			ameter family and set the following parameters.
		672	80	Boiler Temperature Threshold.
		ьн ,	96	Boiler temperature: alarm threshold.
		ьяј	0	Boiler Temperature Adjust.
		6 <i>P</i>		Boiler standby function enabled.
		bSt	2	Booster Function.
		błd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		220 220	63	Tub Temperature: Threshold.
		EEL	23 75	Tank temperature: alarm threshold.
5.	Modify the cyc			
э.			parameter	s family.
		Lnl	1	Long Wash Phase [min].
		551	12	Short Wash Phase [s].
		PR I		Pause [s].
		rit	12	Rinse Phase Duration [s].
		dri	25	Drain [s].
		FP{	2	Final Pause [s].
	[ 42		parameter	
		LnZ	Parameter	Long Wash Phase [min].
		5h2	42	Short Wash Phase [s].
		PA2	7E 4	
		r iz	-	Pause [s].
			12 25	Rinse Phase Duration [s].
		dr2	25	Drain [s].
	רעז	<b>FP2</b>	2	Final Pause [s].
	[7]	-	parameter	
		En]	3	Long Wash Phase [min].
		5h3	42	Short Wash Phase [s].
		PAJ	4	Pause [s].
		r i B	12	Rinse Phase Duration [s].
		dr 3	25	Drain [s].
		FP3	2	Final Pause [s].
		6£3	0	Boiler Temperature Threshold for Cycle 3.

ZUCAI / AUCAIG / EUCAI /

drn	Drain parameters family.				
	ldr	30	Initial Drain Phase Duration [s].		
	Fdr	80	Final Drain Phase Duration [s].		
	drt	۵	Drain and cleaning mode.		
	[Ъd	0	Wash tank water change frequency control disabled.		
dPR	Set other	r paramet	ers.		
	1PA	۵	Initial Pause [s] (for ALL cycles).		
	dl Y	Э	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	E F	0	Degrees Celsius display.		
	r it	0	During the rinse stage, the display shows the boiler temperature.		
	ELE	0	Termal Label mode disabled (Functions present with firmware version 4.04).		
HEP	Enter into HCP parameter family and set the following parameters.				
	SEr	1	Machine arranged for remote connection to PC.		
Switch OFF	and then swi	tch ON th	e machine.		
<u>GEn</u>	Enter into	o GEn pa	rameter family.		
	d in	50	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).		
	r A ı	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

### WARNING:

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the LFL family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the LFL family are not modified.

## ZUCAI / AUCAI / EUCAI / **NUCAI WS**

[FG	and then swite Enter into	CFG par	ameter family and set the following parameters:
	Enter into		Hood Type and undercounter.
	60 ·	0	Atmospheric boiler.
	daa	2	Front loading function.
	dFl	3	Default values for Undercounter models.
	tre	ر ر	SOFT START enabled.
	6,E	;	Tank heater works only if boiler temperature reached.
	62E 62F	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	U 1	9	Select user interface hood type/ undercounter model.
	rE	٦	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	FE Al r	1	
	A; r AAG	1	Alarms enabled. Boiler float level sensor.
	rnu FrG	_	
	sru Sru	0	Resin regeneration cycle forcing.
	sru 6Po	10 50	Rinse water max. hardness.
			Boiler heating control.
	and then swite		e machine.
	ory parameters		ameter family and set the following parameters.
	642	80	Boiler Temperature Threshold.
	БН (	96	Boiler temperature: alarm threshold.
	67 I 68J	<u> </u>	Boiler Temperature Adjust.
	670 6P		
	67 65t	ź	Boiler standby function enabled. Booster Function.
	btd	3	
	628 220	5 53	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	22L 2H1	وم 75	Tub Temperature: Threshold. Tank temperature: alarm threshold.
Andify the a	ycle paramete		
	Cycle 1 paramete		s family.
	Lnl		Long Wash Phase [min].
	551	12	Short Wash Phase [s].
	PR I	. 4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	drl	25	Drain [s].
	FP (	2	Final Pause [s].
[ 42	Cycle 2 pa	_	
- 26	Ln2		Long Wash Phase [min].
	5h2	42	Short Wash Phase [s].
	PR2	ч Ч	Pause [s].
	rne r iz	۲ 21	
	r ic dr2	25	Rinse Phase Duration [s].
			Drain [s].
<b><i>Г</i>И7</b>	FP2	2	Final Pause [s].
[4]	Cycle 3 pa		
	Enj	E	Long Wash Phase [min].
	5h3 007	42	Short Wash Phase [s].
	PRJ	4	Pause [s].
	r ið	12	Rinse Phase Duration [s].
	dr 3	25	Drain [s].
	FP3	2	Final Pause [s].
	6£3	0	Boiler Temperature Threshold for Cycle 3.

## ZUCAI / AUCAI / EUCAI / **NUCAI WS**

	drn	Drain par	ameters f	amily.		
		ldr	30	Initial Drain Phase Duration [s].		
		Fdr	80	Final Drain Phase Duration [s].		
		drt	0	Drain and cleaning mode.		
		[Ъб	0	Wash tank water change frequency control disabled.		
	dPA	Set other	paramete	ers.		
		{PR	٥	Initial Pause [s] (for ALL cycles).		
		<b>ብ</b> የ ሕ	Э	Delay for the 2 <sup>nd</sup> wash pump [s].		
		Pdr	0	Drain Phase Duration at the end of washing phase [s].		
		r PR	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
		[ F	0	Degrees Celsius display.		
		r it	٥	During the rinse stage, the display shows the boiler temperature.		
	HEP	Enter into HCP parameter family and set the following parameters.				
		SEr	9	Dishwasher with incorporated continuous water softener.		
6.	Switch OFF	and then swit	ch ON the	e machine.		
	<u>GEn</u>	Enter into	GEn par	ameter family.		
		d In	50	Initial Detergent Dosage.		
		r In	10	Initial Rinse Aid Dosage.		
		dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).		
		r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		
7.	Switch OFF	and then swit	ch ON th	e machine		

Switch OFF and then switch ON the machine. 7.

### WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

EUC	AIML	-	PROG 108
	and then swi		e machine.
. [FG	Enter into	CFG pa	rameter family and set the following parameters:
	ŁУP	٥	Hood Type and undercounter.
	bo i	0	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	trc	1	SOFT START enabled.
	6_£	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	U 1	8	ACTIVE function disabled.
	r E	۵	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAC	0	Boiler electronic level sensor.
	Frū	٥	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	6Ро	50	Boiler heating control.
	and then swi		e machine.
	ory parameter		
FAC			ameter family and set the following parameters.
	ьεї	90	Boiler Temperature Threshold.
	ьн ,	0	Disable boiler high Temperature alarm ( <b>C 2</b> ).
	ьяј	0	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	0	Booster Function.
	bt d	10	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FFC	65	Tub Temperature: Threshold.
	EH 1	85	Tank temperature: alarm threshold.
	cycle paramet		·
[9]	Cycle 1 p		
	Lal	4	Long Wash Phase [min].
	5h 1	10	Short Wash Phase [s].
	PR (	4	Pause [s].
	r i l	35	Rinse Phase Duration [s].
	dr 1	40	Drain [s].
547	FP 1	15	Final Pause [s].
[75	Cycle 2 p		
	LnZ ELJ	5	Long Wash Phase [min].
	5h2	10	Short Wash Phase [s].
	PA2	4	Pause [s].
	r 12	35	Rinse Phase Duration [s].
	dr2	40	Drain [s].
<b>5</b> .47	FP2	15	Final Pause [s].
[4]	Cycle 3 p		-
	En]	9	Long Wash Phase [min].
	5h]	10	Short Wash Phase [s].
	PAJ	4	Pause [s].
	r ið	35	Rinse Phase Duration [s].
	dr 3	40	Drain [s].
	FP3	15	Final Pause [s].
	6£3	0	Boiler Temperature Threshold for Cycle 3.

UC	AIML		PROG 10		
drn	Drain parameters family.				
	ldr	30	Initial Drain Phase Duration [s].		
	Fdr	80	Final Drain Phase Duration [s].		
	drt	٠	Drain and cleaning mode.		
	[ьа	٠	Wash tank water change frequency control disabled.		
dPA	Set other p	paramet	ters.		
	1PA	٠	Initial Pause [s] (for ALL cycles).		
	<u> </u>	3	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PA	٠	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[ F	٠	Degrees Celsius display.		
	r it	٠	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into HCP parameter family and set the following parameters.				
	SEr	1	Machine arranged for remote connection to PC.		
Switch OFF	and then switc	h ON th	ne machine.		
<u>GEn</u>	Enter into GEn parameter family.				
	d In	50	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).		
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

EUC	AIML	_WS	S PROG 109
. Switch OFF	and then swi	tch ON th	ne machine.
EFG	Enter into	o CFG pa	rameter family and set the following parameters:
	ĿУP	0	Hood Type and undercounter.
	60 i	0	Atmospheric boiler.
	daa	2	Front loading function.
	dFL	Э	Default values for Undercounter models.
	tre	1	SOFT START enabled.
	<b>b</b> _t	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	U 1	8	ACTIVE function disabled.
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Rl r	1	Alarms enabled.
	AAC	1	Boiler float level sensor.
	Frū	0	Resin regeneration cycle forcing.
	Srll	10	Rinse water max. hardness.
	БРа	50	Boiler heating control.
3. Switch OFF	and then swi		
	ory paramete		
FAC			rameter family and set the following parameters.
	ьεї	90	Boiler Temperature Threshold.
	ьн ,	0	Disable boiler high Temperature alarm ( 🕻 🎽 ).
	ьяј	0	Boiler Temperature Adjust.
	ЬР		Boiler standby function enabled.
	- 65E	0	Booster Function.
	62 d	10	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	££[	65	Tub Temperature: Threshold.
	<u>Е</u> Н (	85	Tank temperature: alarm threshold.
5. Modify the o			
<u>[</u> ]	Cycle 1 p		rs family.
	Lnl	4	Long Wash Phase [min].
	5h 1	10	Short Wash Phase [s].
	PR (	4	Pause [s].
	ril	35	Rinse Phase Duration [s].
	dr l	40	Drain [s].
	FP (	15	Final Pause [s].
[ 42	Cycle 2 p	. –	
	LnZ	5 5	Long Wash Phase [min].
	542	10	Short Wash Phase [s].
	PRZ	, n , n	
			Pause [s].
	r 12 1 - 7	35 	Rinse Phase Duration [s].
	dr2	40	Drain [s].
<b>5</b> 117	<i>FP2</i>	15	Final Pause [s].
[4]	Cycle 3 p		
	En]	9	Long Wash Phase [min].
	5h3	10	Short Wash Phase [s].
	PRJ	4	Pause [s].
	r ið	35	Rinse Phase Duration [s].
	dr 3	40	Drain [s].
	FP3	15	Final Pause [s].
	6£3	0	Boiler Temperature Threshold for Cycle 3.

UC	AIMLWS PROG <sup>-1</sup>					
drn	Drain parameters family.					
	ldr	30	Initial Drain Phase Duration [s].			
	Fdr	80	Final Drain Phase Duration [s].			
	drt	۵	Drain and cleaning mode.			
	[Ъб	0	Wash tank water change frequency control disabled.			
dPR	Set other p	aramet	ters.			
	1PR	۵	Initial Pause [s] (for ALL cycles).			
	aly	3	Delay for the 2 <sup>nd</sup> wash pump [s].			
	Pdr	0	Drain Phase Duration at the end of washing phase [s].			
	r PR	0	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[ F	۵	Degrees Celsius display.			
	r it	0	During the rinse stage, the display shows the boiler temperature.			
HEP	Enter into HCP parameter family and set the following parameters.					
	SEr	9	Dishwasher with incorporated continuous water softener.			
Switch OFF	and then switch	h ON tł	ne machine.			
<u>GEn</u>	Enter into GEn parameter family.					
	d in	50	Initial Detergent Dosage.			
	r In	10	Initial Rinse Aid Dosage.			
	dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).			
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).			

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

:UC/	AIML	.G	PROG 11
	and then swit	tch ON th	ne machine.
[FG		CFG pa	rameter family and set the following parameters:
	ŁУP	3	Medical line dishwasher with lock door/hood device.
	bo i	0	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	tre	1	SOFT START enabled.
	6_£	1	Tank heater works only if boiler temperature reached.
	65 F	75	Enable filling tank by means of rinsing cycles.
	LE5	0	Detergent level switches not enabled.
	<u>U 1</u>	8	ACTIVE function disabled.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	88G	0	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	6Po	50	Boiler heating control.
	and then swit		ne machine.
-	ory parameter		remeter family and act the following remeters
FAC			rameter family and set the following parameters.
	ЬЕ́Г ЬН (	55	Boiler Temperature Threshold.
	ья. БЯЛ	0	Disable boiler high Temperature alarm ( <b>C 2</b> ).
	ьни БР	0	Boiler Temperature Adjust.
		1 n	Boiler standby function enabled.
	65E	0	Booster Function.
	6£d ££[	10 65	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	ссі ЕН 1	85 85	Tub Temperature: Threshold. Tank temperature: alarm threshold.
Modify the	cycle paramet		ומות נכוווףכומנעוב. מומווו נווובטווטוט.
	Cycle 1 p		rs family.
	Lnl	3	Long Wash Phase [min].
	561	35	Short Wash Phase [s].
	PR 1	5	Pause [s].
	r i l	- 35	Rinse Phase Duration [s].
	dr l	40	Drain [s].
	FP	60	Final Pause [s].
[ Y Z	Cycle 2 p		
	LnZ	5	Long Wash Phase [min].
	542	35	Short Wash Phase [s].
	PR2	5	Pause [s].
	r 12	35	Rinse Phase Duration [s].
	dr Z	40	Drain [s].
	FPZ	60	Final Pause [s].
[43	Cycle 3 p		
	EnJ	8	Long Wash Phase [min].
	5h3	35	Short Wash Phase [s].
	PRB	5	Pause [s].
	r ið	35	Rinse Phase Duration [s].
	dr 3	40	Drain [s].
	FP3	60	Final Pause [s].
	ь± 3	0	Boiler Temperature Threshold for Cycle 3.

UC	AIML	_G	PROG 11		
drn	Drain parameters family.				
	ldr	30	Initial Drain Phase Duration [s].		
	Fdr	80	Final Drain Phase Duration [s].		
	drt	0	Drain and cleaning mode.		
	[Ъб	0	Wash tank water change frequency control disabled.		
dPR	Set other	paramet	ters.		
	(PR	۵	Initial Pause [s] (for ALL cycles).		
	<u> </u>	3	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PR	45	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[ F	0	Degrees Celsius display.		
	r it	0	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into HCP parameter family and set the following parameters.				
	SEr	1	Machine arranged for remote connection to PC.		
Switch OFF	and then swi	tch ON th	ne machine.		
<u>GEn</u>	Enter into GEn parameter family.				
	d In	50	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).		
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

## Electrolux EFS - Dishwashing Systems Platform Electrolux Professional

		-	PROG 111
Switch OFF a	nd then swi	tch ON th	e machine.
[ F G	Enter into	o CFG pa	rameter family and set the following parameters:
	ŁУP	0	Hood Type and undercounter.
	bo i	0	Atmospheric boiler.
	doo	2	Front loading function.
	dFl	3	Default values for Undercounter models.
	tre	1	SOFT START enabled.
	6_£	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LES	1	Detergent level switches enabled.
	U 1	9	Select user interface hood type/ undercounter model.
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAC	0	Boiler electronic level sensor.
	Frű	0	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	ЬPo	50	Boiler heating control.
Switch OFF a	nd then swi	tch ON th	
Modify Factor	y paramete	rs:	
FAC			rameter family and set the following parameters.
	ьεї	80	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяј	0	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	2	Booster Function.
	błd	Э	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FFC	63	Tub Temperature: Threshold.
	EH 1	75	Tank temperature: alarm threshold.
Modify the cy	cle paramet	ers:	
[]]	Cycle 1 p	aramete	rs family.
	Lnl	1	Long Wash Phase [min].
	5h 1	12	Short Wash Phase [s].
	PR 1	4	Pause [s].
	rit	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP (	2	Final Pause [s].
[7]	Cycle 2 p	aramete	rs family.
	Ln2	1	Long Wash Phase [min].
	542	42	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	12	Rinse Phase Duration [s].
	dr Z	25	Drain [s].
	FP2	2	Final Pause [s].
[¥3	Cycle 3 p	aramete	rs family.
	Eng	3	Long Wash Phase [min].
	5h3	42	Short Wash Phase [s].
	PRJ	4	Pause [s].
	r 13	12	Rinse Phase Duration [s].
		12 25	Rinse Phase Duration [s]. Drain [s].
	r ið		Rinse Phase Duration [s]. Drain [s]. Final Pause [s].

UC	AICL		PROG 11		
drn	Drain parameters family.				
	ldr	30	Initial Drain Phase Duration [s].		
	Fdr	80	Final Drain Phase Duration [s].		
	drt	0	Drain and cleaning mode.		
	[ьа	0	Wash tank water change frequency control disabled.		
dPR	Set other	paramet	ters.		
	(PR	٥	Initial Pause [s] (for ALL cycles).		
	<u> </u>	Э	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PR	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[ F	0	Degrees Celsius display.		
	r it	0	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into	HCP pa	arameter family and set the following parameters.		
	SEr	1	Machine arranged for remote connection to PC.		
Switch OFF	and then swit	tch ON th	ne machine.		
<u>GEn</u>	Enter into	o GEn pa	rameter family.		
	d In	50	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).		
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

	:UC/	AIWI		PROG 112
١.	Switch OFF	and then swi	tch ON th	ne machine.
2.	[FG	Enter into	o CFG pa	rameter family and set the following parameters:
		ĿУP	0	Hood Type and undercounter.
		60 (	0	Atmospheric boiler.
		daa	2	Front loading function.
		dFl	Э	Default values for Undercounter models.
		tre	1	SOFT START enabled.
		6_£	1	Tank heater works only if boiler temperature reached.
		ЬŁF	65	Enable filling tank by means of rinsing cycles.
		LE5	0	Detergent level switches not enabled.
		U 1	9	Select user interface hood type/ undercounter model.
		rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
		Al r	1	Alarms enabled.
		AAC	0	Boiler electronic level sensor.
		FrG	0	Resin regeneration cycle forcing.
		Srll	10	Rinse water max. hardness.
		6Ра	50	Boiler heating control.
3.	Switch OFF	and then swi	tch ON th	
4.	Modify Fact	ory paramete	rs:	
	FAC	Enter into	o FAC pa	rameter family and set the following parameters.
		ьεї	80	Boiler Temperature Threshold.
		ьн ,	96	Boiler temperature: alarm threshold.
		ьяј	0	Boiler Temperature Adjust.
		ЬР	1	Boiler standby function enabled.
		65E	2	Booster Function.
		bt d	Э	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFE	55	Tub Temperature: Threshold.
		EH 1	75	Tank temperature: alarm threshold.
5.	Modify the o	cycle paramet	ers:	
	[9]	Cycle 1 p	parameter	rs family.
		Lal	1	Long Wash Phase [min].
		5h 1	12	Short Wash Phase [s].
		PR (	4	Pause [s].
		rit	12	Rinse Phase Duration [s].
		dr 1	25	Drain [s].
		FP (	2	Final Pause [s].
	[7]	Cycle 2 p	parameter	rs family.
		Ln2	1	Long Wash Phase [min].
		542	35	Short Wash Phase [s].
		PR2	4	Pause [s].
		r 12	12	Rinse Phase Duration [s].
		dr Z	25	Drain [s].
		FP2	2	Final Pause [s].
	[4]	Cycle 3 p	parameter	
		EnJ	2	Long Wash Phase [min].
		5h3	35	Short Wash Phase [s].
		PRE		Pause [s].
		r i3	12	Rinse Phase Duration [s].
		dr 3	25	Drain [s].
		FP3	2	Final Pause [s].
		6£3	0	Boiler Temperature Threshold for Cycle 3.
	1			Donor temperature threation by the o.

drn	Drain para Idr Fdr dr L	imeters 30 80	family. Initial Drain Phase Duration [s].			
	Fdr		Initial Drain Phase Duration [s]			
	-	80	initial Brain Filado Baration [0].			
	drt		Final Drain Phase Duration [s].			
		٠	Drain and cleaning mode.			
	[bd	0	Wash tank water change frequency control disabled.			
dPR	Set other p	paramet	ers.			
	¦PA	٥	Initial Pause [s] (for ALL cycles).			
	dl y	3	Delay for the 2 <sup>nd</sup> wash pump [s].			
	Pdr	0	Drain Phase Duration at the end of washing phase [s].			
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[ F	۵	Degrees Celsius display.			
	r it	0	During the rinse stage, the display shows the boiler temperature.			
HEP	Enter into HCP parameter family and set the following parameters.					
	5Er	1	Machine arranged for remote connection to PC.			
Switch OFF ar	nd then switc	ch ON th	ne machine.			
<u>GEn</u>	Enter into	GEn pa	rameter family.			
	d In	25	Initial Detergent Dosage.			
	r In	10	Initial Rinse Aid Dosage.			
	dEt	4	Detergent dispensing during the wash cycle (loading during wash stage).			
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).			

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

EUC	AICL	.W	PROG 113
	and then swit		
EFG	Enter into	o CFG pa	rameter family and set the following parameters:
	ŁУP	٥	Hood Type and undercounter.
	60 1	0	Atmospheric boiler.
	doo	2	Front loading function.
	dFl	Э	Default values for Undercounter models.
	tre	1	SOFT START enabled.
	6_£	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LES	1	Detergent level switches enabled.
	U 1	9	Select user interface hood type/ undercounter model.
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAC	0	Boiler electronic level sensor.
	Frū	0	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	ЪPo	50	Boiler heating control.
	and then swit		ne machine.
-	tory parameter		
FAC			rameter family and set the following parameters.
	ьεї	78 85	Boiler Temperature Threshold.
	<b>ЬН</b> (	96	Boiler temperature: alarm threshold.
	6 <i>8</i> J	4	Boiler Temperature Adjust.
	6P 	1	Boiler standby function enabled.
	65E	2	Booster Function.
	6£ d	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	££[	63 75	Tub Temperature: Threshold.
	£H 1	75	Tank temperature: alarm threshold.
Modify the	cycle paramet Cycle 1 p		rs family
	Lnl		Long Wash Phase [min].
	551	12	Short Wash Phase [s].
	PR 1	4	Pause [s].
	rit	, 12	Rinse Phase Duration [s].
	dri	25	Drain [s].
	FP (	2	Final Pause [s].
[42	Cycle 2 p		
	LnZ	1	Long Wash Phase [min].
	542	42	Short Wash Phase [s].
	PRZ	4	Pause [s].
	r 12	12	Rinse Phase Duration [s].
	dr2	25	Drain [s].
	FPZ	2	Final Pause [s].
[43	Cycle 3 p		
	Ln3	<b>3</b>	Long Wash Phase [min].
	5h3	42	Short Wash Phase [s].
	PRE	4	Pause [s].
	r i3	12	Rinse Phase Duration [s].
	dr∃	25	Drain [s].
	FP3	2	Final Pause [s].

UC	AICL	.W	PROG 113	
drn	Drain parameters family.			
	ldr	30	Initial Drain Phase Duration [s].	
	Fdr	80	Final Drain Phase Duration [s].	
	drt	1	Drain and cleaning mode.	
	[ьа	0	Wash tank water change frequency control disabled.	
dPR	Set other	ters.		
	{PR	۵	Initial Pause [s] (for ALL cycles).	
	<u> ፈ</u> የ ሕ	3	Delay for the 2 <sup>nd</sup> wash pump [s].	
	Pdr	0	Drain Phase Duration at the end of washing phase [s].	
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).	
	[ F	0	Degrees Celsius display.	
	r it	0	During the rinse stage, the display shows the boiler temperature.	
HEP	Enter into	HCP pa	arameter family and set the following parameters.	
	SEr	1	Machine arranged for remote connection to PC.	
Switch OFF	and then swit	tch ON th	ne machine.	
GEn	Enter into	o GEn pa	rameter family.	
	d In	90	Initial Detergent Dosage.	
	r In	10	Initial Rinse Aid Dosage.	
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).	
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).	

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

.001			/ EUCI PROG 11
	and then swit		
[FG		_	rameter family and set the following parameters:
	ĿУP	0	Hood Type and undercounter.
	60 ·	1	Pressure boiler.
	doo	2	Front loading function.
	dFL	E	Default values for Undercounter models.
	tre	1	SOFT START enabled.
	6_£	1	Tank heater works only if boiler temperature reached.
	6F e	0	The tank is filled into the traditional way.
	LES	0	Detergent level switches not enabled.
	<u> </u>	8	ACTIVE function disabled.
	rE	٥	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAC	0	Boiler electronic level sensor.
	Frū	0	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	6 <b>P</b> o	50	Boiler heating control.
	and then swit		e machine.
-	ory parameter		
FAC			rameter family and set the following parameters.
	ьεї	86	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяј	0	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	ЬSE	2	Booster Function.
	bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FFC	63	Tub Temperature: Threshold.
	EHI	75	Tank temperature: alarm threshold.
	cycle paramete		
[91	Cycle 1 p		
	Lnl	1	Long Wash Phase [min].
	5h 1	10	Short Wash Phase [s].
	PR 1	4	Pause [s].
	ril	16	Rinse Phase Duration [s].
	dr 1	30	Drain [s].
	FP 1	0	Final Pause [s].
[75	Cycle 2 p	aramete	rs family.
	Ln2	1	Long Wash Phase [min].
	542	40	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	15	Rinse Phase Duration [s].
	dr 2	30	Drain [s].
	FP2	0	Final Pause [s].
[4]	Cycle 3 p	aramete	rs family.
	Enj	3	Long Wash Phase [min].
	5h3	40	Short Wash Phase [s].
	PRJ	4	Pause [s].
	r ið	15	Rinse Phase Duration [s].
	dr 3	30	Drain [s].
	FP3	0	Final Pause [s].
	6£3	0	Boiler Temperature Threshold for Cycle 3.

drn		-	/ EUCI PROG 1			
arn	Drain pai	Drain parameters family.				
	iar Fdr	30 80	Initial Drain Phase Duration [s].			
	rar drt	00 0	Final Drain Phase Duration [s].			
	erc [bd	0	Drain and cleaning mode.			
dPA			Wash tank water change frequency control disabled.			
arn	Set other					
	dL 4	_	Initial Pause [s] (for ALL cycles).			
		3	Delay for the 2 <sup>nd</sup> wash pump [s].			
	Pdr	0	Drain Phase Duration at the end of washing phase [s].			
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[ F	0	Degrees Celsius display.			
	r it	0	During the rinse stage, the display shows the boiler temperature.			
HEP	Enter into HCP parameter family and set the following parameters.					
	SEr	1	Machine arranged for remote connection to PC.			
witch OFF	and then swi	tch ON th	ne machine.			
<u>GEn</u>	Enter into	o GEn pa	rameter family.			
	d In	50	Initial Detergent Dosage.			
	r In	10	Initial Rinse Aid Dosage.			
	dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).			
	c A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).			

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

# Electrolux EFS - Dishwashing Systems Platform Electrolux Professional

E	UCI	IVI		PROG 115
1.	Switch OFF	and then swit	tch ON th	e machine.
2.	[FG	Enter into	CFG pa	rameter family and set the following parameters:
		ĿУP	0	Hood Type and undercounter.
		bo i	1	Pressure boiler.
		doo	2	Front loading function.
ļ		dFl	3	Default values for Undercounter models.
		trc	0	Disabled (for this appliance SOFT START is NOT possible).
ļ		6_£	1	Tank heater works only if boiler temperature reached.
ļ		ЬŁF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
ļ		U 1	9	Select user interface hood type/ undercounter model.
ļ		r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
ļ		Al r	1	Alarms enabled.
ļ		AAC	0	Boiler electronic level sensor.
		Frű	0	Resin regeneration cycle forcing.
		SrU	10	Rinse water max. hardness.
		ЪPo	50	Boiler heating control.
		and then swit		e machine.
4.		bry parameter		
ļ	FAC			rameter family and set the following parameters.
		ьεї	90	Boiler Temperature Threshold.
		ьн ,	0	Disable boiler high Temperature alarm ( <b>C 2</b> ).
		68J 	٥	Boiler Temperature Adjust.
		6 <i>P</i> 	1	Boiler standby function enabled.
ļ		65E	2	Booster Function.
ļ		62 <i>d</i>	10 5 5	During stand-by boiler is kept at lower temperature than Temperature Threshold.
ļ		<b>ΕΕ</b> [ ΕΗ (	66 85	Tub Temperature: Threshold.
5.	Madify the e			Tank temperature: alarm threshold.
5.		ycle paramet Cycle 1 p		rs family
ļ		Lnl	1	Long Wash Phase [min].
ļ		541	, 10	Short Wash Phase [s].
ļ		PR 1		Pause [s].
		r i l	, 15	Rinse Phase Duration [s].
		dr l	30	Drain [s].
		FP (	0	Final Pause [s].
	[ 42	Cycle 2 p		
		LnZ	1	Long Wash Phase [min].
		542	ЧО	Short Wash Phase [s].
		PRZ	4	Pause [s].
		r 12	, 15	Rinse Phase Duration [s].
		dr 2	30	Drain [s].
		FPZ	0	Final Pause [s].
	[4]	Cycle 3 p	_	
		Ln3	3	Long Wash Phase [min].
		5h3	- 40	Short Wash Phase [s].
		PRE		Pause [s].
		r (B	, 15	Rinse Phase Duration [s].
		dr∃	30	Drain [s].
		FP3	0	Final Pause [s].
l				

UC	UCIM PROG									
drn	Drain para	meters	family.							
	ldr	30	Initial Drain Phase Duration [s].							
	Fdr	80	Final Drain Phase Duration [s].							
	drt	0	Drain and cleaning mode.							
	[Ъб	0	Wash tank water change frequency control disabled.							
dPR	Set other p	paramet	ers.							
	IPA	5	Initial Pause [s] (for ALL cycles).							
	dlу	Э	Delay for the 2 <sup>nd</sup> wash pump [s].							
	Pdr	0	Drain Phase Duration at the end of washing phase [s].							
	r PA	٠	Duration of pause after the rinse cycle [s] (for ALL cycles).							
	[ F	0	Degrees Celsius display.							
	r it	0	During the rinse stage, the display shows the boiler temperature.							
HEP	Enter into HCP parameter family and set the following parameters.									
	SEr	1	Machine arranged for remote connection to PC.							
Switch OFI	and then swite	ch ON th	ne machine.							
GEn	Enter into	GEn pa	rameter family.							
	d In	50	Initial Detergent Dosage.							
	r In	10	Initial Rinse Aid Dosage.							
	dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).							
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).							

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

# Electrolux EFS - Dishwashing Systems Platform Electrolux Professional

AUC	,AI		PROG 116
. Switch C	OFF and then swit	tch ON th	ne machine.
. <b>[fg</b>	Enter into	CFG pa	rameter family and set the following parameters:
	ŁУP	٠	Hood Type and undercounter.
	60 ·	0	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	trc	1	SOFT START enabled.
	6_£	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	U 1	8	ACTIVE function disabled.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	ARG	0	Boiler electronic level sensor.
	Frű	0	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	6Po	50	Boiler heating control.
	OFF and then swit		ne machine.
-	actory parameter		
FAC			rameter family and set the following parameters.
	ьεї	80	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	68J . D	0	Boiler Temperature Adjust.
	6 <i>P</i> 	1	Boiler standby function enabled.
	65E	2	Booster Function.
	6£ d	E	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[	63 75	Tub Temperature: Threshold.
Maalifi a dh	£H 1		Tank temperature: alarm threshold.
. Modify th	ne cycle paramete Cycle 1 p		re family
231	Ln l		Long Wash Phase [min].
	551	12	Short Wash Phase [s].
	PR (	4	Pause [s].
	rit	12	Rinse Phase Duration [s].
	drl	25	Drain [s].
	FP (	2	Final Pause [s].
[ 42	Cycle 2 p	-	
	LnZ	1	Long Wash Phase [min].
	542	42	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	, 12	Rinse Phase Duration [s].
	dr Z	25	Drain [s].
	FP2	2	Final Pause [s].
[¥3	Cycle 3 p		
	Ln3	3	Long Wash Phase [min].
	543	42	Short Wash Phase [s].
	PRE	4	Pause [s].
	r d	12	Rinse Phase Duration [s].
	dr 3	25	Drain [s].
	FP3	2	Final Pause [s].
	6£3	0	Boiler Temperature Threshold for Cycle 3.
1		-	

<b>AUC</b>	ΑΙ		PROG 116			
drn	Drain para	ameters	family.			
	ldr	30	Initial Drain Phase Duration [s].			
	Fdr	80	Final Drain Phase Duration [s].			
	drt	٠	Drain and cleaning mode.			
	[Ъб	0	Wash tank water change frequency control disabled.			
dPA	Set other	paramet	iers.			
	{PR	٥	Initial Pause [s] (for ALL cycles).			
	dl y	Э	Delay for the 2 <sup>nd</sup> wash pump [s].			
	Pdr	0	Drain Phase Duration at the end of washing phase [s].			
	r PA	٠	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[ F	٠	Degrees Celsius display.			
	r it	0	During the rinse stage, the display shows the boiler temperature.			
HEP	Enter into	HCP pa	rameter family and set the following parameters.			
	SEr	1	Machine arranged for remote connection to PC.			
Switch OFF	OFF and then switch ON the machine.					
GEn	Enter into	GEn pa	rameter family.			
	d In	50	Initial Detergent Dosage.			
	r In	10	Initial Rinse Aid Dosage.			
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).			
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).			

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

AUC	AIDF	PW.	S PROG 117
. Switch OFF	and then swi	tch ON th	ne machine.
2. <b>[f</b> [	Enter into	o CFG pa	rameter family and set the following parameters:
	ŁУP	0	Hood Type and undercounter.
	bo i	0	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	trc	1	SOFT START enabled.
	b_t	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LE5	۵	Detergent level switches not enabled.
	U 1	9	Select user interface hood type/ undercounter model.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAC	1	Boiler float level sensor.
	Frū	0	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	ЪPо	50	Boiler heating control.
3. Switch OFF	and then swi	tch ON th	
	tory paramete	rs:	
FAC	Enter into	o FAC pa	rameter family and set the following parameters.
	ьεї	80	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяј	0	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	2	Booster Function.
	ьtd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FFE	63	Tub Temperature: Threshold.
	EH i	75	Tank temperature: alarm threshold.
5. Modify the	cycle paramet	ters:	
[7]	Cycle 1 p	parameter	rs family.
	Lnl	1	Long Wash Phase [min].
	5h 1	12	Short Wash Phase [s].
	PR (	4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP (	2	Final Pause [s].
[ 42	Cycle 2 p	parameter	rs family.
	Ln2	1	Long Wash Phase [min].
	542	42	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	12	Rinse Phase Duration [s].
	dr Z	25	Drain [s].
	FP2	2	Final Pause [s].
[4]	Cycle 3 p	parameter	
	EnJ	3	Long Wash Phase [min].
	5h3	42	Short Wash Phase [s].
	PAJ	4	Pause [s].
	r i3	12	Rinse Phase Duration [s].
	dr 3	25	Drain [s].
	FP3	2	Final Pause [s].
	6£3	0	Boiler Temperature Threshold for Cycle 3.
		U	Donor tomporature threanou to Oyue 0.

UC	AIDP	W3	S PROG 11	17	
drn	Drain parar	Drain parameters family.			
	ldr	30	Initial Drain Phase Duration [s].		
	Fdr	80	Final Drain Phase Duration [s].		
	drt	۵	Drain and cleaning mode.		
	[Ъб	0	Wash tank water change frequency control disabled.		
dPR	Set other p	aramet	ters.		
	1PA	۵	Initial Pause [s] (for ALL cycles).		
	dl y	3	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[ F	0	Degrees Celsius display.		
	r it	0	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into HCP parameter family and set the following parameters.				
	SEr	9	Dishwasher with incorporated continuous water softener.		
Switch OFF	and then switcl	h ON th	ne machine.		
GEn	Enter into GEn parameter family.				
	d In	50	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	6	Detergent dispensing during the wash cycle (loading during wash stage).		
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

Switch O	FF and then swi		EHT PROG 118
			rameter family and set the following parameters:
	ЕЯЪ	0	Hood Type and undercounter.
	bo i	1	Pressure boiler.
	doo	1	Manual Hood.
	dFL	1	Default values for Hood Type models.
	tre	۵	Disabled (for this appliance SOFT START is NOT possible)
	6_£	1	Tank heater works only if boiler temperature reached.
	ЬŁF	0	The tank is filled into the traditional way.
	LE5	0	Detergent level switches not enabled.
	<u>U</u> 1	8	ACTIVE function disabled.
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAC	0	Boiler electronic level sensor.
	Frū	٠	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	6 <b>P</b> o	50	Boiler heating control.
Switch O	FF and then swi	tch ON th	ne machine.
	actory paramete		
FAC			rameter family and set the following parameters.
	ьεί	84	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьRJ	0	Boiler Temperature Adjust.
	6 <i>P</i>	1	Boiler standby function enabled.
	<b>Ь</b> 5Е	1	Booster Function.
	bt d	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	EEE	63	Tub Temperature: Threshold.
	EH 1	75	Tank temperature: alarm threshold.
Modify th	e cycle paramet		ra familu
	Cycle 1 p		
	5h 1	и Эч	Long Wash Phase [min].
	PR (	ר ב 4	Short Wash Phase [s]. Pause [s].
	ril	15	Rinse Phase Duration [s].
	dri	30	Drain [s].
	6, ( FP (	0	Final Pause [s].
[42	Cycle 2 p	-	
	<u> </u>	1	Long Wash Phase [min].
	542	, 10	Short Wash Phase [s].
	PR2		Pause [s].
	r 12	, 15	Rinse Phase Duration [s].
	dr 2	30	Drain [s].
	FP2		Final Pause [s].
[43	Cycle 3 p		
	Ln3	2	Long Wash Phase [min].
	553	10	Short Wash Phase [s].
1	PR3	, n , n	Pause [s].
	<b>, , ,</b>	<u> </u>	Rinse Phase Duration [s]
	r ið deð	16 70	Rinse Phase Duration [s].
	r i] dr] FP]	16 30 0	Rinse Phase Duration [s]. Drain [s]. Final Pause [s].

Ν	HT /	KH	Τ/	EHT PROG 118	
	drn	Drain par	Drain parameters family.		
		ldr	40	Initial Drain Phase Duration [s].	
		Fdr	80	Final Drain Phase Duration [s].	
		drt	0	Drain and cleaning mode.	
		[Ъб	0	Wash tank water change frequency control disabled.	
	dPR	Set other	paramete	ers.	
		1PA	۵	Initial Pause [s] (for ALL cycles).	
		dlУ	3	Delay for the 2 <sup>nd</sup> wash pump [s].	
		Pdr	0	Drain Phase Duration at the end of washing phase [s].	
		r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).	
		[ F	۵	Degrees Celsius display.	
		r it	0	During the rinse stage, the display shows the boiler temperature.	
	HEP	Enter into	HCP pa	rameter family and set the following parameters.	
		5Er	1	Machine arranged for remote connection to PC.	
6.	Switch OFF a	nd then swit	tch ON th	e machine.	
	<u>GEn</u>	Enter into	GEn par	rameter family.	
		d In	90	Initial Detergent Dosage.	
		r In	10	Initial Rinse Aid Dosage.	
		dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).	
		r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).	
7.	Switch OFF a	nd then swit	tch ON th	e machine.	

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

	G / E	HI	G PROG 119
	and then swi	tch ON th	e machine.
[FG	Enter into	o CFG pa	rameter family and set the following parameters:
	ŁУP	٥	Hood Type and undercounter.
	bo (	۵	Atmospheric boiler.
	doo	1	Manual Hood.
	dFL	1	Default values for Hood Type models.
	tre	۵	Disabled (for this appliance SOFT START is NOT possible).
	6_£	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	U 1	8	ACTIVE function disabled.
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAC	0	Boiler electronic level sensor.
	Frū	0	Resin regeneration cycle forcing.
	Srü	10	Rinse water max. hardness.
	6 <b>P</b> o	50	Boiler heating control.
	and then swi		e machine.
-	ory paramete		
FAC			rameter family and set the following parameters.
	ьεї	82	Boiler Temperature Threshold.
	ЪН ( Б. П. (	96	Boiler temperature: alarm threshold.
	68J , n	0	Boiler Temperature Adjust.
	6 <i>P</i> 	1	Boiler standby function enabled.
	65E	1	Booster Function.
	62 <i>d</i>	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	££[	63 75	Tub Temperature: Threshold.
	EHI	75	Tank temperature: alarm threshold.
Modify the c	cycle paramet		ro fomily
131	Cycle 1 p		
	Ln I Sh I	0 26	Long Wash Phase [min].
	PR	36 u	Short Wash Phase [s].
		4	Pause [s].
	r i l da l	12 25	Rinse Phase Duration [s].
	dr 1 FP 1	25 2	Drain [s].
[42		<b>c</b> barameter	Final Pause [s].
1 36	L n2	barameter 1	•
	5h2	_	Long Wash Phase [min].
	PR2	12 4	Short Wash Phase [s].
	r iz		Pause [s].
	r ie dr2	12 25	Rinse Phase Duration [s].
	arc FP2	25 2	Drain [s].
[4]		-	Final Pause [s].
133	Cycle 3 p		-
	Ln]	2	Long Wash Phase [min].
	5h3 803	12	Short Wash Phase [s].
	PAJ	4	Pause [s].
	r ið	12 75	Rinse Phase Duration [s].
	dr]	25	Drain [s].
	FP3	2	Final Pause [s].
1	6£3	0	Boiler Temperature Threshold for Cycle 3.

HT	G / E	ΗI	G PROG 11
drn	Drain par	rameters	family.
	ldr	40	Initial Drain Phase Duration [s].
	Fdr	80	Final Drain Phase Duration [s].
	drt	0	Drain and cleaning mode.
	[Ъб	0	Wash tank water change frequency control disabled.
dPA	Set other parameters.		
	1P.A	٥	Initial Pause [s] (for ALL cycles).
	<u> </u>	Э	Delay for the 2 <sup>nd</sup> wash pump [s].
	Pdr	0	Drain Phase Duration at the end of washing phase [s].
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).
	[ F	0	Degrees Celsius display.
	r it	0	During the rinse stage, the display shows the boiler temperature.
HEP	Enter into	HCP pa	rameter family and set the following parameters.
	5Er	1	Machine arranged for remote connection to PC.
Switch OFF	and then swi	tch ON th	ne machine.
<u>GEn</u>	Enter into	o GEn pa	rameter family.
	d In	90	Initial Detergent Dosage.
	r In	10	Initial Rinse Aid Dosage.
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

## ZHTA / AHTA / EHTA

1.	Switch OFF	and then swit	tch ON th	e machine
2.				ameter family and set the following parameters:
		E YP	<b>0</b>	Hood Type and undercounter.
		bo (	0	Atmospheric boiler.
		doo	- 1	Manual Hood.
		dFL	,	Default values for Hood Type models.
		tre	Ō	Disabled (for this appliance SOFT START is NOT possible).
		6_£	-	Tank heater works only if boiler temperature reached.
		ЬŁF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		<u> </u>	- 9	Select user interface hood type/ undercounter model.
		r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
		Al r	1	Alarms enabled.
		AAC	0	Boiler electronic level sensor.
		Frū	٥	Resin regeneration cycle forcing.
		SrU	10	Rinse water max. hardness.
		ьРо	50	Boiler heating control.
3.	Switch OFF	and then swit		-
4.	Modify Facto	ory parameter	rs:	
	FAC		FAC par	ameter family and set the following parameters.
		ьεζ	78	Boiler Temperature Threshold.
		ьн ,	96	Boiler temperature: alarm threshold.
		ьяј	4	Boiler Temperature Adjust.
		6Р	1	Boiler standby function enabled.
		65E	2	Booster Function.
		błd	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFC	63	Tub Temperature: Threshold.
		EHI	75	Tank temperature: alarm threshold.
5.	Modify the cy			
	[ 4 1	Cycle 1 p		
		Lal	0	Long Wash Phase [min].
		5h 1	36	Short Wash Phase [s].
		PR 1	4	Pause [s].
		r i l	12 75	Rinse Phase Duration [s].
		dr 1 ER 1	25	Drain [s].
	<b>5</b> 47	<b>FP (</b>	2	Final Pause [s].
	[7]	Cycle 2 p	arameter	
		LnZ SLJ	י בו	Long Wash Phase [min].
		5h2 PR2	12 4	Short Wash Phase [s]. Pause [s].
		rne r 12		Pause [s]. Rinse Phase Duration [s].
		dr2	12 25	Drain [s].
		FP2	2	Final Pause [s].
	[4]	Cycle 3 p	_	
		Ln3		Long Wash Phase [min].
		5h3	12	Short Wash Phase [s].
		PAJ	4	Pause [s].
		r 13	12	Rinse Phase Duration [s].
		, , , , , , , , , , , , , , , , , , ,	25	Drain [s].
		FP3	2	Final Pause [s].
		6£3	0	Boiler Temperature Threshold for Cycle 3.
I	1		U	Bonor temperature influencia for eyene e.

drn	Drain para	Drain parameters family.		
	ldr	40	Initial Drain Phase Duration [s].	
	Fdr	80	Final Drain Phase Duration [s].	
	drt	٠	Drain and cleaning mode.	
	[Ьб	0	Wash tank water change frequency control disabled.	
dPA	Set other parameters.			
	{PR	۵	Initial Pause [s] (for ALL cycles).	
	dl y	3	Delay for the 2 <sup>nd</sup> wash pump [s].	
	Pdr	0	Drain Phase Duration at the end of washing phase [s].	
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).	
	[ F	0	Degrees Celsius display.	
	r it	0	During the rinse stage, the display shows the boiler tempera	ature.
	ELE	٠	Termal Label mode disabled (Functions present with firmwa	re version 4.04).
HEP	Enter into	HCP pa	rameter family and set the following parameters.	
	SEr	1	Machine arranged for remote connection to PC.	
Switch OFF	and then swit	ch ON th	e machine.	
GEn	Enter into	GEn pa	rameter family.	
	d In	90	Initial Detergent Dosage.	
	r In	10	Initial Rinse Aid Dosage.	
	dEt	5	Detergent dispensing during the wash cycle (loading during	wash stage).
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during	boiler filling stage).

### To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

## ZHTAWS/ AHTAWS/ EHT-

#### Switch OFF and then switch ON the machine. 1. [FG 2. Enter into CFG parameter family and set the following parameters: ĿЧP Π Hood Type and undercounter. 60 1 ۵ Atmospheric boiler. 1 Manual Hood. doo Default values for Hood Type models. dFL 1 ۵ Disabled (for this appliance SOFT START is NOT possible). tre 1 Tank heater works only if boiler temperature reached. 6\_E **b**EF 75 Enable filling tank by means of rinsing cycles. ٥ LES Detergent level switches not enabled. 9 #1 Select user interface hood type/ undercounter model. гE ۵ Regeneration cycle disabled (only for dishwashers with non-continuous water softener). Al r 1 Alarms enabled. AAC 1 Boiler float level sensor. FrG ۵ Resin regeneration cycle forcing. Srll 10 Rinse water max. hardness. ЬPо 50 Boiler heating control. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FRE Enter into FAC parameter family and set the following parameters. ЬŁГ 78 Boiler Temperature Threshold. 96 bH . Boiler temperature: alarm threshold. ьял 4 Boiler Temperature Adjust. ЬP 1 Boiler standby function enabled. 2 65E Booster Function. bŁd ٥ During stand-by boiler is kept at lower temperature than Temperature Threshold. 63 FFE Tub Temperature: Threshold. 75 EH . Tank temperature: alarm threshold. 5. Modify the cycle parameters: [ 4 1 Cycle 1 parameters family. Lnl ٥ Long Wash Phase [min]. 561 36 Short Wash Phase [s]. PR 1 4 Pause [s]. 12 ril Rinse Phase Duration [s]. 25 dr 1 Drain [s]. FP 1 2 Final Pause [s]. [42 Cycle 2 parameters family. LnZ 1 Long Wash Phase [min]. 522 12 Short Wash Phase [s]. PR2 4 Pause [s]. r 12 12 Rinse Phase Duration [s]. dr 2 25 Drain [s]. FP2 2 Final Pause [s]. [43 Cycle 3 parameters family. Lng 2 Long Wash Phase [min]. 5h3 12 Short Wash Phase [s]. PRJ 4 Pause [s]. 12 r ið Rinse Phase Duration [s]. dr 3 25 Drain [s]. FP3 2 Final Pause [s]. 6£ 3 ۵ Boiler Temperature Threshold for Cycle 3.

## **ZHTAWS/ AHTAWS/ EHT-**

## **PROG 121**

	drn	Drain par	ameters f	amily.
		ldr	40	Initial Drain Phase Duration [s].
		Fdr	100	Final Drain Phase Duration [s].
		drt Drain and cleaning mode.		Drain and cleaning mode.
		[bd	0	Wash tank water change frequency control disabled.
	dPA	Set other	paramete	ers.
		¦PA	۵	Initial Pause [s] (for ALL cycles).
		<u> </u>	Э	Delay for the 2 <sup>nd</sup> wash pump [s].
		Pdr	0	Drain Phase Duration at the end of washing phase [s].
		r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).
		[ F	۵	Degrees Celsius display.
		r it	0	During the rinse stage, the display shows the boiler temperature.
	HEP	Enter into	HCP par	ameter family and set the following parameters.
		SEr	9	Dishwasher with incorporated continuous water softener.
6.	Switch OFF ar	nd then swit	tch ON th	e machine.
	<u>GEn</u>	Enter into	GEn par	ameter family.
		d In	90	Initial Detergent Dosage.
		r In	10	Initial Rinse Aid Dosage.
		dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).
		r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).
7.	Switch OFF ar	nd then swit	tch ON th	e machine.

### WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

## **ZHTAIAU / EHTAIAU**

Ζ	ΉΤΑ	IAU	/ E	HTAIAU PROG 122
1.	Switch OFF a	and then swi	tch ON th	ne machine.
2.	[FG		o CFG pa	rameter family and set the following parameters:
		ŁУP	۵	Hood Type and undercounter.
		bo 1	۵	Atmospheric boiler.
		doo	0	Automatic Hood.
		dFl	1	Default values for Hood Type models.
		trc	۵	Disabled (for this appliance SOFT START is NOT possible).
		6_£	1	Tank heater works only if boiler temperature reached.
		ЬŁF	75	Enable filling tank by means of rinsing cycles.
		LE5	۵	Detergent level switches not enabled.
		U 1	9	Select user interface hood type/ undercounter model.
		r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
		Al r	1	Alarms enabled.
		AAC	0	Boiler electronic level sensor.
		Frū	0	Resin regeneration cycle forcing.
		SrU	10	Rinse water max. hardness.
		ьPo	50	Boiler heating control.
3.	Switch OFF a	and then swi	itch ON th	ne machine.
4.	Modify Facto			
	FAC			rameter family and set the following parameters.
		ьε[	78	Boiler Temperature Threshold.
		ьн ,	96	Boiler temperature: alarm threshold.
		рыл	ч	Boiler Temperature Adjust.
		ЬР	1	Boiler standby function enabled.
		65E	2	Booster Function.
		błd	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFC	63	Tub Temperature: Threshold.
		EHI	75	Tank temperature: alarm threshold.
5.	Modify the cy		ters: parameter	rs family.
		Lal	٥	Long Wash Phase [min].
		5h 1	36	Short Wash Phase [s].
		PR (	4	Pause [s].
		ril	12	Rinse Phase Duration [s].
		dr 1	25	Drain [s].
		FP (	2	Final Pause [s].
	[7]	Cycle 2 p	parameter	rs family.
		Ln2	1	Long Wash Phase [min].
		542	12	Short Wash Phase [s].
		PR2	ч	Pause [s].
		r 12	12	Rinse Phase Duration [s].
		dr 2	25	Drain [s].
		FPZ	2	Final Pause [s].
	[73		parameter	rs family.
		Enj	2	Long Wash Phase [min].
		5h3	12	Short Wash Phase [s].
		PRJ	4	Pause [s].
		r i B	12	Rinse Phase Duration [s].
		dr]	25	Drain [s].
		FP3	2	Final Pause [s].
		6F 3	0	Boiler Temperature Threshold for Cycle 3.

## **ZHTAIAU / EHTAIAU**

	drn	Drain par	ameters f	amily.	
		ldr	40	Initial Drain Phase Duration [s].	
		Fdr	80	Final Drain Phase Duration [s].	
		drt	0	Drain and cleaning mode.	
		[bd	0	Wash tank water change frequency control disabled.	
	dPR	Set other	paramete	ers.	
		iPA	2	Initial Pause [s] (for ALL cycles).	
		<u> </u>	Э	Delay for the 2 <sup>nd</sup> wash pump [s].	
		Pdr	0	Drain Phase Duration at the end of washing phase [s].	
		r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).	
		[ F	0	Degrees Celsius display.	
		r it	0	During the rinse stage, the display shows the boiler temperature.	
	HEP	Enter into	HCP pa	rameter family and set the following parameters.	
		5Er	1	Machine arranged for remote connection to PC.	
6.	Switch OFF	and then swit	ch ON th	e machine.	
	<u>GEn</u>	Enter into	GEn par	ameter family.	
		d In	90	Initial Detergent Dosage.	
		r In	10	Initial Rinse Aid Dosage.	
		dEt	6	Detergent dispensing during the wash cycle (loading during wash stage).	
		r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).	
7.	Switch OFF	and then swit	ch ON th	e machine.	

### WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the  $\Gamma FL$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the **[F** family are not modified.

	AIML	AU	PROG 12
	FF and then swi	tch ON th	ne machine.
[FG	Enter into	CFG pa	rameter family and set the following parameters:
	ŁУP	0	Hood Type and undercounter.
	bo i	0	Atmospheric boiler.
	daa	0	Automatic Hood.
	dFL	1	Default values for Hood Type models.
	tre	٠	Disabled (for this appliance SOFT START is NOT possible).
	6_£	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	U 1	9	Select user interface hood type/ undercounter model.
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAC	0	Boiler electronic level sensor.
	Frū	0	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	ЬPa	50	Boiler heating control.
Switch OF	FF and then swi	tch ON th	ne machine.
	ctory paramete	rs:	
FRE		FAC pa	rameter family and set the following parameters.
	ьεζ	90	Boiler Temperature Threshold.
	ьн ,	0	Disable boiler high Temperature alarm ( <b>[ 2</b> ).
	ьяј	0	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	2	Booster Function.
	ЬŁd	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FFE	65	Tub Temperature: Threshold.
	EH 1	85	Tank temperature: alarm threshold.
	e cycle paramet	ers:	
[]]	Cycle 1 p		
	Lnl	2	Long Wash Phase [min].
	5h 1	32	Short Wash Phase [s].
	PA (	4	Pause [s].
	ril	35	Rinse Phase Duration [s].
	dr 1	40	Drain [s].
	FP 1	15	Final Pause [s].
[75	Cycle 2 p		rs family.
	Ln2	3	Long Wash Phase [min].
	575	32	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	35	Rinse Phase Duration [s].
	dr 2	40	Drain [s].
	FP2	15	Final Pause [s].
[4]	Cycle 3 p	aramete	rs family.
	EnJ	5	Long Wash Phase [min].
	5h3	32	Short Wash Phase [s].
	PR3	4	Pause [s].
	r ið	ЭY	Rinse Phase Duration [s].
	dr]	40	Drain [s].
	FP3	15	Final Pause [s].

HT	<b>\IML</b>	AU	PROG 12	3	
drn	Drain para	Drain parameters family.			
	ldr	40	Initial Drain Phase Duration [s].		
	Fdr	80	Final Drain Phase Duration [s].		
	drt	۵	Drain and cleaning mode.		
	[Ьб	0	Wash tank water change frequency control disabled.		
dPR	Set other	paramet	ters.		
	ipa	4	Initial Pause [s] (for ALL cycles).		
	dl y	3	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[ F	0	Degrees Celsius display.		
	r it	0	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into HCP parameter family and set the following parameters.				
	SEr	1	Machine arranged for remote connection to PC.		
Switch OFF	and then swit	ch ON th	he machine.		
<u>GEn</u>	Enter into	GEn pa	arameter family.		
	d In	90	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).		
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

### ZHTAROW / EHTAROW / **ZHTAO / EHTAO**

## **PROG 124**

[FG	Enter into	CFG pa	rameter family and set the following parameters:
	ЕЧР	0. c. p.	Hood Type and undercounter.
	601	0	Atmospheric boiler.
	daa	-	Manual Hood.
	dFL	į	Default values for Hood Type models.
	tre	, D	Disabled (for this appliance SOFT START is NOT possible).
	6.E	0	Boiler heaters and tank heater work simultaneously.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	<u>נו</u>	9	Select user interface hood type/ undercounter model.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Rir		Alarms enabled.
	AAC	, 0	Boiler electronic level sensor.
	Frū	0	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	5,0 6Pa	50	Boiler heating control.
Switch OF	F and then swi		-
	tory parameter		
FAL			rameter family and set the following parameters.
	ьεί	78	Boiler Temperature Threshold.
	ЬН г	0	Disable boiler high Temperature alarm ( 🕻 🍃 ).
	ьяј	ч	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	- 65E	Z	Booster Function.
	bł d	-	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	££[	63	Tank Temperature: Threshold.
	EH 1	0	Disable tank high Temperature alarm ( <b>[</b> ]).
Modify the	cycle paramet		
[]	Cycle 1 p		rs family.
	Lnl	0	Long Wash Phase [min].
	5h 1	36	Short Wash Phase [s].
	PR (	4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP {	2	Final Pause [s].
	EL 1	0	Long Wash Phase inTermal Label mode [min].
	£5 I	59	Short Wash Phase inTermal Label mode [s].
	Cycle 2 p		
[ 42	<b>,</b> 1	1	Long Wash Phase [min].
[ 75	Ln2		
[7]		12	Short Wash Phase [s].
[75	5h2	12 4	Short Wash Phase [s]. Pause [s].
[75	5h2 PR2	4	Pause [s].
[75	5H2 PR2 r 12	4 12	Pause [s]. Rinse Phase Duration [s].
553	Sh2 PR2 r 12 dr2	4 12 25	Pause [s]. Rinse Phase Duration [s]. Drain [s].
[72	5H2 PR2 r 12	4 12	Pause [s]. Rinse Phase Duration [s].

### **ZHTAROW / EHTAROW / ZHTAO / EHTAO**

### **PROG 124**

[43	Cycle 3 p	paramete	rs family.		
	En]	2	Long Wash Phase [min].		
	5h3	12	Short Wash Phase [s].		
	PR3	4	Pause [s].		
	r ið	12	Rinse Phase Duration [s].		
	dr 3	25	Drain [s].		
	FP3	2	Final Pause [s].		
	EL 3	2	Long Wash Phase inTermal Label mode [min].		
	£53	12	Short Wash Phase inTermal Label mode [s].		
	<b>ЬЕЗ</b>	0	Boiler Temperature Threshold for Cycle 3.		
drn	Drain pa	rameters	family.		
	ldr	40	Initial Drain Phase Duration [s].		
	Fdr	80	Final Drain Phase Duration [s].		
	drt	0	Drain and cleaning mode.		
	[Ъď	0	Wash tank water change frequency control disabled.		
dPA	Set other parameters.				
	1P.A	۵	Initial Pause [s] (for ALL cycles).		
	<u> ፊ</u>	3	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[ F	0	Degrees Celsius display.		
	r it	0	During the rinse stage, the display shows the boiler temperature.		
	ELE	1	Termal Label mode enabled.		
	ЬŁĹ	86	Boiler Temperature in Termal Label mode.		
	E E L	75	Tank Temperature in Termal Label mode.		
	F HF	2	Tank Temperature histeresis in Termal Label mode.		
HEP	Enter inte	o HCP pa	rameter family and set the following parameters.		
	SEr	1	Machine arranged for remote connection to PC.		
witch OFF	and then swi	tch ON th	ne machine.		
<u>GEn</u>	Enter inte	o GEn pa	rameter family.		
	d In	90	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).		
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

#### WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

:00	AIUS	<b>P</b> F	H PROG 12
	and then swi	tch ON th	ne machine.
[FG	Enter into	o CFG pa	arameter family and set the following parameters:
	ЕЧP	0	Hood Type and undercounter.
	60 I	0	Atmospheric boiler.
	doo	2	Manual Hood.
	dFl	Э	Default values for Hood Type models.
	trc	0	Disabled (for this appliance SOFT START is NOT possible).
	b_t	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LE5	0	Detergent level switches not enabled.
	U 1	9	Select user interface hood type/ undercounter model.
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Ri r	1	Alarms enabled.
	AAC	0	Boiler electronic level sensor.
	Frű	0	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	<b>ЬР</b> о	50	Boiler heating control.
Switch OFF	and then swi	tch ON th	-
Modify Fact	ory paramete	rs:	
FAC	Enter into	FAC pa	rameter family and set the following parameters.
	ьεї	82	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяј	4	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	0	Booster Function.
	ьtd	Э	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FFC	66	Tub Temperature: Threshold.
	EH 1	80	Tank temperature: alarm threshold.
Modify the o	cycle paramet	ers:	
[9]	Cycle 1 p	aramete	rs family.
	Lnl	1	Long Wash Phase [min].
	5h 1	22	Short Wash Phase [s].
	PR (	4	Pause [s].
	ril	25	Rinse Phase Duration [s].
	dr 1	40	Drain [s].
	FP (	4	Final Pause [s].
[42	Cycle 2 p	aramete	rs family.
	Ln2	2	Long Wash Phase [min].
	542	22	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	25	Rinse Phase Duration [s].
	dr 2	40	Drain [s].
	FPZ	4	Final Pause [s].
[4]	Cycle 3 p	aramete	
	Enj	4	Long Wash Phase [min].
	553	22	Short Wash Phase [s].
	PAB		Pause [s].
	r i J	25	Rinse Phase Duration [s].
	dr 3	40	Drain [s].
	FP3	4	Final Pause [s].
1	6£3	•	Boiler Temperature Threshold for Cycle 3.

UC	AIUS	SPF	PROG 12			
drn	Drain par	ameters	family.			
	ldr	30	Initial Drain Phase Duration [s].			
	Fdr	80	Final Drain Phase Duration [s].			
	drt	۵	Drain and cleaning mode.			
	[Ъб	۵	Wash tank water change frequency control disabled.			
dPA	Set other parameters.					
	1PA	5	Initial Pause [s] (for ALL cycles).			
	<u> </u>	Э	Delay for the 2 <sup>nd</sup> wash pump [s].			
	Pdr	0	Drain Phase Duration at the end of washing phase [s].			
	r PR	٠	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[ F	1	Degrees display Fahrenheit.			
	r it	0	During the rinse stage, the display shows the boiler temperature.			
HEP	Enter into HCP parameter family and set the following parameters.					
	SEr	1	Machine arranged for remote connection to PC.			
Switch OFF	DFF and then switch ON the machine.					
<u>GEn</u>	Enter into	o GEn pa	rameter family.			
	d In	50	Initial Detergent Dosage.			
	r In	10	Initial Rinse Aid Dosage.			
	dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).			
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).			

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

:Н//	<b>AIUS</b>	۲H	PROG 12
	and then swi	tch ON th	ne machine.
[FG	Enter into	CFG pa	rameter family and set the following parameters:
	ŁУP	0	Hood Type and undercounter.
	bo i	0	Atmospheric boiler.
	doo	1	Manual Hood.
	dFl	1	Default values for Hood Type models.
	tre	0	Disabled (for this appliance SOFT START is NOT possible).
	6.t	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	U 1	9	Select user interface hood type/ undercounter model.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAC	0	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	Srü	10	Rinse water max. hardness.
	ьРо	50	Boiler heating control.
Switch OFF	and then swi	tch ON th	-
	ory parameter		
FAC			rameter family and set the following parameters.
	ьεї	78	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяј	4	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	ЬSŁ	2	Booster Function.
	ьtd	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FFC	63	Tub Temperature: Threshold.
	EH 1	75	Tank temperature: alarm threshold.
Modify the c	cycle paramet	ers:	
[ 4 1	Cycle 1 p		rs family.
	Lnl	0	Long Wash Phase [min].
	5h 1	35	Short Wash Phase [s].
	PR I	4	Pause [s].
	ril	25	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP (	0	Final Pause [s].
[ 72	Cycle 2 p	arameter	
	LnZ	٥	Long Wash Phase [min].
	542	45	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	25	Rinse Phase Duration [s].
	dr Z	25	Drain [s].
	FP2	0	Final Pause [s].
[ 4 3	Cycle 3 p	_	
	Ln3	1	Long Wash Phase [min].
	5h3	ЧО	Short Wash Phase [s].
	PRE		Pause [s].
	r ið	25	Rinse Phase Duration [s].
	dr 3	25	Drain [s].
	FP3	0	Final Pause [s].
		_	
1	6£3	0	Boiler Temperature Threshold for Cycle 3.

HTA	AIUS	PH	PROG 120			
drn	Drain par	ameters	family.			
	ldr	40	Initial Drain Phase Duration [s].			
	Fdr	80	Final Drain Phase Duration [s].			
	drt	۵	Drain and cleaning mode.			
	[ьа	0	Wash tank water change frequency control disabled.			
dPA	Set other	paramet	ers.			
	{PR	٥	Initial Pause [s] (for ALL cycles).			
	dl y	Э	Delay for the 2 <sup>nd</sup> wash pump [s].			
	Pdr	0	Drain Phase Duration at the end of washing phase [s].			
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[ F	1	Degrees display Fahrenheit.			
	r it	0	During the rinse stage, the display shows the boiler temperature.			
HEP	Enter into HCP parameter family and set the following parameters.					
	SEr	1	Machine arranged for remote connection to PC.			
Switch OFF	and then swi	tch ON th	ne machine.			
<u>GEn</u>	Enter into	o GEn pa	rameter family.			
	d In	90	Initial Detergent Dosage.			
	r In	10	Initial Rinse Aid Dosage.			
	dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).			
	r A .	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).			

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

### **OHTAROW / OHTAROW60**

	4KO	VV /	OHTAROW60 PROG 12		
	and then swi				
. [FG			arameter family and set the following parameters:		
	ЕЯЬ	0	Hood Type and undercounter.		
	60 (	0	Atmospheric boiler.		
	daa	1	Manual Hood.		
	dFL	1	Default values for Hood Type models.		
	tre	0	Disabled (for this appliance SOFT START is NOT possible).		
	<b>b_t</b>	0	Boiler heaters and tank heater work simultaneously.		
	ЬŁF	75	Enable filling tank by means of rinsing cycles.		
	LE5	0	Detergent level switches not enabled.		
	U 1	9	Select user interface hood type/ undercounter model.		
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).		
	Al r	1	Alarms enabled.		
	AAC	0	Boiler electronic level sensor.		
	Frū	0	Resin regeneration cycle forcing.		
	SrU	10	Rinse water max. hardness.		
	ЪPo	50	Boiler heating control.		
Switch OFF	and then swi	tch ON th	ne machine.		
	tory parameter	rs:			
FAC	Enter into	o FAC pa	rameter family and set the following parameters.		
	ьεζ	78	Boiler Temperature Threshold.		
	ьн ,	0	Disable boiler high Temperature alarm ( <b>[ 2</b> ).		
	ьяј	4	Boiler Temperature Adjust.		
	ЬР	1	Boiler standby function enabled.		
	ЬSE	2	Booster Function.		
	ьtd	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.		
	FFC	63	Tank Temperature: Threshold.		
	EH 1	0	Disable tank high Temperature alarm ( [ ]).		
Modify the	cycle paramet	ers:			
[ 4 1	Cycle 1 parameters family.				
	Lnl	0	Long Wash Phase [min].		
	5h 1	36	Short Wash Phase [s].		
	PR (	4	Pause [s].		
	ril	12	Rinse Phase Duration [s].		
	dr 1	25	Drain [s].		
	FP (	2	Final Pause [s].		
	EL I	0	Long Wash Phase inTermal Label mode [min].		
	£5 I	59	Short Wash Phase inTermal Label mode [s].		
[ 42	Cycle 2 p				
	LnZ	<u>1</u>	Long Wash Phase [min].		
	542	12	Short Wash Phase [s].		
	PAZ	'E '4	Pause [s].		
	rne r iz		••		
	r ic dr2	12 25	Rinse Phase Duration [s].		
		25	Drain [s].		
	FPZ	2	Final Pause [s].		
	FTS	1	Long Wash Phase inTermal Label mode [min].		
	£52	12	Short Wash Phase inTermal Label mode [s].		

HI	<b>AKO</b>	VV /	OHTAROW60	<b>PROG 12</b>		
[43	Cycle 3 parameters family.					
	EnJ	2	Long Wash Phase [min].			
	5h3	12	Short Wash Phase [s].			
	PRB	4	Pause [s].			
	r ið	12	Rinse Phase Duration [s].			
	dr 3	25	Drain [s].			
	FP3	2	Final Pause [s].			
	6£3	0	Boiler Temperature Threshold for Cycle 3.			
	FT3	2	Long Wash Phase inTermal Label mode [min].			
	£53	12	Short Wash Phase inTermal Label mode [s].			
drn	Drain pa	rameters	family.			
	ldr	40	Initial Drain Phase Duration [s].			
	Fdr	80	Final Drain Phase Duration [s].			
	drt	0	Drain and cleaning mode.			
	[ьd	0	Wash tank water change frequency control disabled.			
dPR	Set other parameters.					
	ipa	۵	Initial Pause [s] (for ALL cycles).			
	dl y	3	Delay for the 2 <sup>nd</sup> wash pump [s].			
	Pdr	0	Drain Phase Duration at the end of washing phase [s].			
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles	).		
	[ F	0	Degrees Celsius display.			
	r it	0	During the rinse stage, the display shows the boiler temp	erature.		
	ELE	1	Termal Label mode enabled.			
	ъег	85	Boiler Temperature in Termal Label mode.			
	EEL	75	Tank Temperature in Termal Label mode.			
	F HF	2	Tank Temperature histeresis in Termal Label mode.			
HEP	Enter inter	o HCP pa	rameter family and set the following parameters.			
	SEr	1	Machine arranged for remote connection to PC.			
Switch OFF	and then sw	itch ON th	e machine.			
<u>GEn</u>	Enter inter		rameter family.			
	d In	90	Initial Detergent Dosage.			
	r In	0	Initial Rinse Aid Dosage.			
	dEt	18 1	Detergent dispenser works when WASH PUMP in activat	ted.		

7. Switch OFF and then switch ON the machine.

#### WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

# Electrolux EFS - Dishwashing Systems Platform Electrolux Professional

/	UCA	4		PROG 128		
١.	Switch OFF	and then swit	tch ON th	e machine.		
2.	[FG	Enter into CFG parameter family and set the following parameters:				
		ŁУP	٥	Hood Type and undercounter.		
		bo i	0	Atmospheric boiler.		
		daa	2	Front loading function.		
		dFL	Э	Default values for Undercounter models.		
		trc	1	SOFT START enabled.		
		6_£	1	Tank heater works only if boiler temperature reached.		
		ЬŁF	75	Enable filling tank by means of rinsing cycles.		
		LE5	0	Detergent level switches not enabled.		
		U 1	9	Select user interface hood type/ undercounter model.		
		r E	٥	Regeneration cycle disabled.		
		Al r	0	Alarms not enabled.		
		AAC	0	Boiler electronic level sensor.		
		FrG	0	Resin regeneration cycle forcing.		
		SrU	10	Rinse water max. hardness.		
		bРa	50	Boiler heating control.		
	Switch OFF			e machine.		
•	Modify Facto					
	FAC			rameter family and set the following parameters.		
		ьεї	80	Boiler Temperature Threshold.		
		ьн ,	96	Boiler temperature: alarm threshold.		
		ьяј	٥	Boiler Temperature Adjust.		
		6 <i>P</i>	1	Boiler standby function enabled.		
		ЬSE	2	Booster Function.		
		błd	E	During stand-by boiler is kept at lower temperature than Temperature Threshold.		
		FFC	63 75	Tub Temperature: Threshold.		
		EHI	75	Tank temperature: alarm threshold.		
•	Modify the cy					
	[9]	Cycle 1 p				
		Lal	1	Long Wash Phase [min].		
		5h 1 88 (	12	Short Wash Phase [s].		
		PR 1	4	Pause [s].		
		r i l	12 75	Rinse Phase Duration [s].		
		dr 1 FP 1	25	Drain [s].		
	[ 42		2	Final Pause [s].		
	130	Cycle 2 p		•		
		LnZ ShZ	ן בע	Long Wash Phase [min].		
		SAC PR2	42 4	Short Wash Phase [s].		
		rne r 12	ר 21	Pause [s].		
		r ie dr2	25	Rinse Phase Duration [s].		
		arc FP2	2	Drain [s].		
	[4]			Final Pause [s].		
	[]]	Cycle 3 p				
		Ln] Sh]	<u>[</u> כע	Long Wash Phase [min].		
			42	Short Wash Phase [s].		
		PR3	4	Pause [s].		
		r ið dað	12 26	Rinse Phase Duration [s].		
		dr] cog	25	Drain [s].		
		FP3	2	Final Pause [s].		
		6£3	0	Boiler Temperature Threshold for Cycle 3.		

UC/	4		PROG 12		
drn	Drain par	rameters	family.		
	ldr	30	Initial Drain Phase Duration [s].		
	Fdr	100	Final Drain Phase Duration [s].		
	drt	۵	Drain and cleaning mode.		
	[ьа	۵	Wash tank water change frequency control disabled.		
dPR	Set other	<sup>,</sup> paramet	ers.		
	{PR	٥	Initial Pause [s] (for ALL cycles).		
	dl y	Э	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PR	٠	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	E F	۵	Degrees Celsius display.		
	r it	۵	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into HCP parameter family and set the following parameters.				
	SEr	1	Machine arranged for remote connection to PC.		
Switch OFF	FF and then switch ON the machine.				
<u>GEn</u>	Enter into GEn parameter family.				
	d In	50	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).		
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

# Electrolux EFS - Dishwashing Systems Platform Electrolux Professional

.     2	2AI		PROG 129
	F and then swi	tch ON th	ne machine.
[F[		o CFG pa	rameter family and set the following parameters:
	ŁУР	0	Hood Type and undercounter.
	60 1	0	Atmospheric boiler.
	doo	1	Manual Hood.
	dFL	1	Default values for Hood Type models.
	trc	1	SOFT START enabled.
	b_t	0	Boiler heaters and tank heater work simultaneously.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	<u>U 1</u>	9	Select user interface hood type/ undercounter model.
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAC	0	Boiler electronic level sensor.
	Frū	0	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	6Ро	50	Boiler heating control.
Switch OF	F and then swi	tch ON th	ne machine.
Modify Fac	tory paramete	rs:	
FAC	Enter into	o FAC pa	rameter family and set the following parameters.
	ьεї	78	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяј	4	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	2	Booster Function.
	ЬŁd	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FFC	63	Tub Temperature: Threshold.
	EH 1	75	Tank temperature: alarm threshold.
	cycle paramet		
[]]	Cycle 1 p	aramete	
	Lnl	1	Long Wash Phase [min].
	5h 1	10	Short Wash Phase [s].
	PA 1	4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	dr 1	12	Drain [s].
	FP (	4	Final Pause [s].
[75	Cycle 2 p	aramete	•
	Ln2	1	Long Wash Phase [min].
	542	40	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	12	Rinse Phase Duration [s].
	dr2	12	Drain [s].
	FP2	4	Final Pause [s].
[4]	Cycle 3 p		
	Eng	1	Long Wash Phase [min].
	5h3	32	Short Wash Phase [s].
	PA3	4	Pause [s].
	r ið	20	Rinse Phase Duration [s].
	dr]	20	Drain [s].
	FP3 613	4 55	Final Pause [s]. Boiler Temperature Threshold for Cycle 3.

<b>T12</b>			PROG 129
drn	Drain pa	rameters	family.
	ldr	40	Initial Drain Phase Duration [s].
	Fdr	80	Final Drain Phase Duration [s].
	drt	0	Drain and cleaning mode.
	[Ъб	0	Wash tank water change frequency control disabled.
dPA	Set other	r paramet	iers.
	{PA	0	Initial Pause [s] (for ALL cycles).
	<u> </u>	3	Delay for the 2 <sup>nd</sup> wash pump [s].
	Pdr	0	Drain Phase Duration at the end of washing phase [s].
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).
	[ F	0	Degrees Celsius display.
	r it	0	During the rinse stage, the display shows the boiler temperature.
	ELE	0	Termal Label mode disabled (Functions present with firmware version 4.04).
HEP	Enter into	o HCP pa	rameter family and set the following parameters.
	SEr	1	Machine arranged for remote connection to PC.
Switch OFF	and then swi	tch ON th	ne machine.
GEn	Enter into	o GEn pa	rameter family.
	d In	90	Initial Detergent Dosage.
	r In	10	Initial Rinse Aid Dosage.
	dEt	18 1	Detergent dispenser works when WASH PUMP in activated.
	r A ı	61	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

# Electrolux EFS - Dishwashing Systems Platform Electrolux Professional

<b>T12</b>	ΑΠ		PROG 13
Switch OFF	and then swi	tch ON th	ne machine.
[FG	Enter into	o CFG pa	rameter family and set the following parameters:
	ŁУP	٠	Hood Type and undercounter.
	60 i	۵	Atmospheric boiler.
	doo	1	Manual Hood.
	dFl	1	Default values for Hood Type models.
	trc	1	SOFT START enabled.
	b_t	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LES	۵	Detergent level switches not enabled.
	U 1	9	Select user interface hood type/ undercounter model.
	r E	٠	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAC	0	Boiler electronic level sensor.
	Frū	0	Resin regeneration cycle forcing.
	Srü	10	Rinse water max. hardness.
	6Ро	50	Boiler heating control.
Switch OFF	and then swi	tch ON th	ne machine.
	ory paramete		
FAC			rameter family and set the following parameters.
	ьεї	78	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяј	4	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	2	Booster Function.
	btd	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FFC	63	Tub Temperature: Threshold.
	EHI	75	Tank temperature: alarm threshold.
Indity the c	cycle paramet Cycle 1 p		zo formiku
[]			Long Wash Phase [min].
	5h 1	1 10	Short Wash Phase [s].
	PR 1	4	Pause [s].
	r i l	12	Rinse Phase Duration [s].
	dr 1 FP 1	12 4	Drain [s].
[42			Final Pause [s].
[][	Cycle 2 p		
	5h2	' 40	Long Wash Phase [min].
	PA2	4 10	Short Wash Phase [s].
	r iz		Pause [s].
	rıc dr2	12 51	Rinse Phase Duration [s].
	arc FP2	12 4	Drain [s].
[4]			Final Pause [s].
133	Cycle 3 p		-
	Ln3 ELJ	ן כב	Long Wash Phase [min].
	5h3 002	32 u	Short Wash Phase [s].
	PA3	4 7	Pause [s].
	r ið dað	20 70	Rinse Phase Duration [s].
	dr]	20	Drain [s].
	FP3 623	4 65	Final Pause [s]. Boiler Temperature Threshold for Cycle 3.

ET12	AIT		PROG 130		
drn	Drain parameters family.				
	ldr	40	Initial Drain Phase Duration [s].		
	Fdr	80	Final Drain Phase Duration [s].		
	drt	۵	Drain and cleaning mode.		
	[Ъб	0	Wash tank water change frequency control disabled.		
dPA	Set other	r paramet	ers.		
	(PR	۵	Initial Pause [s] (for ALL cycles).		
	dl Y	Э	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s]. Duration of pause after the rinse cycle [s] (for ALL cycles).		
	r PA	0			
	[ F	0	Degrees Celsius display.		
	r it	0	During the rinse stage, the display shows the boiler temperature.		
	ELE	0	Termal Label mode disabled (Functions present with firmware version 4.04).		
HEP	Enter into HCP parameter family and set the following parameters.				
	SEr	1	Machine arranged for remote connection to PC.		
. Switch OFF	F and then switch ON the machine.				
<u>GEn</u>	Enter into	o GEn pa	rameter family.		
	d In	90	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	18 1	Detergent dispenser works when WASH PUMP in activated.		
	r A i	61	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

# Electrolux EFS - Dishwashing Systems Platform Electrolux Professional

E	ET5A			PROG 131
1.		and then swi	tch ON th	
2.	[FG	Enter into	o CFG pa	rameter family and set the following parameters:
		ŁУP	٥	Hood Type and undercounter.
		bo i	۵	Atmospheric boiler.
		doo	2	Front loading function.
		dFL	Э	Default values for Undercounter models.
		trc	1	SOFT START enabled.
		6_£	0	Boiler heaters and tank heater work simultaneously.
		ЬŁF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		U 1	8	ACTIVE function disabled.
		r E	٥	Regeneration cycle disabled.
		Al r	1	Alarms enabled.
		AAC	0	Boiler electronic level sensor.
		Frű	0	Resin regeneration cycle forcing.
		SrU	10	Rinse water max. hardness.
		6Ро	50	Boiler heating control.
<b>.</b>		and then swi		e machine.
ŀ.		ory paramete		
	FAC			rameter family and set the following parameters.
		ьεї	82	Boiler Temperature Threshold.
		ьн ,	96	Boiler temperature: alarm threshold.
		ьяJ . П	٥	Boiler Temperature Adjust.
		6 <i>P</i>	1	Boiler standby function enabled.
		65E	2	Booster Function.
		6£ d	E	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		££[	63 75	Tub Temperature: Threshold.
	Maalifee the area	£H 1	75	Tank temperature: alarm threshold.
j.		cycle paramet Cycle 1 p		re family
	231			Long Wash Phase [min].
		551	5	Short Wash Phase [s].
		PR 1	- Ч	Pause [s].
		r i l	, 15	Rinse Phase Duration [s].
		dr l	30	Drain [s].
		FP (	у Ч	Final Pause [s].
	[ 42	Cycle 2 p		
		LnZ	1	Long Wash Phase [min].
		542	, 35	Short Wash Phase [s].
		PRZ	4	Pause [s].
		r 12	, 15	Rinse Phase Duration [s].
		dr2	30	Drain [s].
		FPZ	4	Final Pause [s].
	[ У Э	Cycle 3 p		
		Ln3	1	Long Wash Phase [min].
		5h3	J I	Short Wash Phase [s].
		PRE	4	Pause [s].
		r i3	20	Rinse Phase Duration [s].
		dr 3	40	Drain [s].
		FP3	4	Final Pause [s].
		6£3	55	Boiler Temperature Threshold for Cycle 3.
	1	J L J	60	

<b>T5</b> A			PROG 13	31
drn	Drain parameters family.			
	ldr	30	Initial Drain Phase Duration [s].	
	Fdr	80	Final Drain Phase Duration [s].	
	drt	۵	Drain and cleaning mode.	
	[Ъб	0	Wash tank water change frequency control disabled.	
dPA	Set other	paramet	ers.	
	1PA	5	Initial Pause [s] (for ALL cycles).	
	dl y	3	Delay for the 2 <sup>nd</sup> wash pump [s].	
	Pdr	0	Drain Phase Duration at the end of washing phase [s].	
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).	
	[ F	0	Degrees Celsius display.	
	r it	0	During the rinse stage, the display shows the boiler temperature.	
HEP	Enter into	HCP pa	rameter family and set the following parameters.	
	SEr	1	Machine arranged for remote connection to PC.	
Switch OFF	and then swit	ch ON th	ne machine.	
GEn	Enter into	GEn pa	rameter family.	
	d In	50	Initial Detergent Dosage.	
	r In	10	Initial Rinse Aid Dosage.	
	dEt	18 1	Detergent dispenser works when WASH PUMP in activated.	
	r A i	51	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.	

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

## Electrolux EFS - Dishwashing Systems Platform Electrolux Professional

:15A	AIDP		PROG 13		
Switch OFF	and then swit	tch ON th	ne machine.		
[FG	Enter into	CFG pa	arameter family and set the following parameters:		
	ŁУP	٥	Hood Type and undercounter.		
	bo i	0	Atmospheric boiler.		
	doo	2	Front loading function.		
	dFl	Э	Default values for Undercounter models.		
	trc	1	SOFT START enabled.		
	<b>b</b> _t	0	Boiler heaters and tank heater work simultaneously.		
	ЬŁF	75	Enable filling tank by means of rinsing cycles.		
	LE5	0	Detergent level switches not enabled.		
	<i>U</i> 1	8	ACTIVE function disabled.		
	rE	٠	Regeneration cycle disabled.		
	Al r	1	Alarms enabled.		
	ARG	1	Boiler float level sensor.		
	FrG	٠	Resin regeneration cycle forcing.		
	Srll	10	Rinse water max. hardness.		
	6Ро	50	Boiler heating control.		
Switch OFF	itch OFF and then switch ON the machine.				
	tory parameter	rs:			
FAC			rameter family and set the following parameters.		
	ьεί	82	Boiler Temperature Threshold.		
	ьн ,	96	Boiler temperature: alarm threshold.		
	ьяј	0	Boiler Temperature Adjust.		
	ЬР	1	Boiler standby function enabled.		
	65E	2	Booster Function.		
	bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.		
	FFC	63	Tub Temperature: Threshold.		
	EH 1	75	Tank temperature: alarm threshold.		
	cycle paramete		· · ·		
[91	Cycle 1 p				
	Lal	1	Long Wash Phase [min].		
	5h 1	5	Short Wash Phase [s].		
	PR 1	4	Pause [s].		
	r (1	16	Rinse Phase Duration [s].		
	dr 1	30	Drain [s].		
	FP (	4	Final Pause [s].		
[75	Cycle 2 p		-		
	LnZ	1	Long Wash Phase [min].		
	542	35	Short Wash Phase [s].		
	PRZ	4	Pause [s].		
	r 12	15	Rinse Phase Duration [s].		
	dr 2	30	Drain [s].		
<b>5</b> .47	FP2	4	Final Pause [s].		
[4]	Cycle 3 p				
	Eng	- 1	Long Wash Phase [min].		
	5h3	I E	Short Wash Phase [s].		
	PAJ	4	Pause [s].		
	r ið	20	Rinse Phase Duration [s].		
	dr 3	40	Drain [s].		
	FP3	4	Final Pause [s].		
1	6£3	65	Boiler Temperature Threshold for Cycle 3.		

T5A	<b>IDP</b>		PROG 13	32	
drn	Drain para	meters	family.		
	ldr	30	Initial Drain Phase Duration [s].		
	Fdr	80	Final Drain Phase Duration [s].		
	drt	٠	Drain and cleaning mode.		
	[Ъd	0	Wash tank water change frequency control disabled.		
dPR	Set other	paramet	ters.		
	1PR	5	Initial Pause [s] (for ALL cycles).		
	dlу	3	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[ F	0	Degrees Celsius display.		
	r it	0	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into	HCP pa	arameter family and set the following parameters.		
	5Er	9	Dishwasher with incorporated continuous water softener.		
Switch OFF	and then swite	ch ON th	ne machine.		
<u>GEn</u>	Enter into GEn parameter family.				
	d In	50	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	18 1	Detergent dispenser works when WASH PUMP in activated.		
	r A i	<b>5</b> 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

ET5/	<b>IDP</b>	WS		PROG 133
	and then swit			
[FG		o CFG pa	rameter family and set the following parameters:	
	ŁУP	0	Hood Type and undercounter.	
	bo i	0	Atmospheric boiler.	
	doo	2	Front loading function.	
	dfl	3	Default values for Undercounter models.	
	tre	1	SOFT START enabled.	
	<b>b</b> _t	- 1	Tank heater works only if boiler temperature reached.	
	6F -	75	Enable filling tank by means of rinsing cycles.	
	LES	0	Detergent level switches not enabled.	
	<u> </u>	8	ACTIVE function disabled.	
	r E	0	Regeneration cycle disabled.	
	Al r	1	Alarms enabled.	
	AAC	1	Boiler float level sensor.	
	FrG	0	Resin regeneration cycle forcing.	
	5rU	10	Rinse water max. hardness.	
	6Po	50	Boiler heating control.	
	and then swit		e macnine.	
Modify Fact	tory parameter Enter into		ameter family and set the following parameters.	
, ,,,,	btľ	<b>82</b>	Boiler Temperature Threshold.	
	осс БН л	96	Boiler temperature: alarm threshold.	
	67 I 67 J	<u> </u>	Boiler Temperature Adjust.	
	670 67	1	Boiler standby function enabled.	
	65£	ż	Booster Function.	
	btd	3	During stand-by boiler is kept at lower temperature than Temp	erature Threshold
	620 220	ر 53	Tub Temperature: Threshold.	
	222 247	75	Tank temperature: alarm threshold.	
Modify the	cycle paramet			
	Cycle 1 p		rs family.	
	Lnl	1	Long Wash Phase [min].	
	551	5	Short Wash Phase [s].	
	PR I	4	Pause [s].	
	ril	15	Rinse Phase Duration [s].	
	dr 1	30	Drain [s].	
	FP (	4	Final Pause [s].	
[ 42	Cycle 2 p	aramete		
	LnZ	1	Long Wash Phase [min].	
	522	35	Short Wash Phase [s].	
	PR2	4	Pause [s].	
	r 12	16	Rinse Phase Duration [s].	
	dr 2	30	Drain [s].	
	FP2	4	Final Pause [s].	
[43	Cycle 3 p	aramete	rs family.	
	Enj	1	Long Wash Phase [min].	
	5h3	3 I	Short Wash Phase [s].	
	PRB	4	Pause [s].	
	r ið	20	Rinse Phase Duration [s].	
	dr 3	40	Drain [s].	
	FP3	4	Final Pause [s].	
1	6F 3	65		

T5A	<b>IDP</b>	WS	S PROG	133
drn	Drain par	family.		
	ldr	30	Initial Drain Phase Duration [s].	
	Fdr	80	Final Drain Phase Duration [s].	
	drt	0	Drain and cleaning mode.	
	[Ъб	۵	Wash tank water change frequency control disabled.	
dPR	Set other	paramet	ters.	
	{PR	5	Initial Pause [s] (for ALL cycles).	
	dl y	Э	Delay for the 2 <sup>nd</sup> wash pump [s].	
	Pdr	0	Drain Phase Duration at the end of washing phase [s].	
	r PA	٠	Duration of pause after the rinse cycle [s] (for ALL cycles).	
	[ F	0	Degrees Celsius display.	
	r it	0	During the rinse stage, the display shows the boiler temperature.	
HEP	Enter into	HCP pa	arameter family and set the following parameters.	
	SEr	9	Dishwasher with incorporated continuous water softener.	
Switch OFF	and then swit	ch ON th	he machine.	
<u>GEn</u>	Enter into	GEn pa	arameter family.	
	d In	50	Initial Detergent Dosage.	
	r In	10	Initial Rinse Aid Dosage.	
	dEt	18 1	Detergent dispenser works when WASH PUMP in activated.	
	r A i	<b>5</b> 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.	

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

### ZUCADDROW / EUCADDROW PROG 134

		and then swi	tch ON th	e machine.
2.	[FG	Enter into	o CFG pa	rameter family and set the following parameters:
		FЛb	٥	Hood Type and undercounter.
		bo i	0	Atmospheric boiler.
		doo	2	Front loading function.
		dFL	3	Default values for Undercounter models.
		tre	1	SOFT START enabled.
		b_t	1	Tank heater works only if boiler temperature reached.
		ЬŁF	75	Enable filling tank by means of rinsing cycles.
		LES	۵	Detergent level switches not enabled.
		U 1	9	Select user interface hood type/ undercounter model.
		r E	0	Regeneration cycle disabled.
		Al r	۵	Alarms not enabled.
		AAC	0	Boiler electronic level sensor.
		FrG	0	Resin regeneration cycle forcing.
		SrU	10	Rinse water max. hardness.
		ЬPo	50	Boiler heating control.
	Switch OFF	and then swi	tch ON th	e machine.
•		ory paramete	rs:	
	FAC			rameter family and set the following parameters.
		ьεї	84	Boiler Temperature Threshold.
		ьн ,	96	Boiler temperature: alarm threshold.
		ьяј	0	Boiler Temperature Adjust.
		6Р	1	Boiler standby function enabled.
		65E	2	Booster Function.
		bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFC	73	Tub Temperature: Threshold.
		FFH	2	Tub Temperature: HISTERESIS.
		EH 1	80	Tank temperature: alarm threshold.
		ycle paramet		
	[ 4 1		paramete	
		Lnl	0	Long Wash Phase [min].
		5h 1	57	Short Wash Phase [s].
		PA 1	4	Pause [s].
		ril	12	Rinse Phase Duration [s].
		dr 1	25	Drain [s].
		FP (	2	Final Pause [s].
	[75		parameter	
		LnZ	2	Long Wash Phase [min].
		5h2	42	Short Wash Phase [s].
		PAZ	4	Pause [s].
		r 12	12	Rinse Phase Duration [s].
		dr 2	25	Drain [s].
	<b></b>	FPZ	2	Final Pause [s].
	[4]	Cycle 3 p		
		Eng	1	Long Wash Phase [min].
		5h3	42	Short Wash Phase [s].
		PAJ	4	Pause [s].
		r ið	12	Rinse Phase Duration [s].
		dr 3	25	Drain [s].
		FP3	2	Final Pause [s].
		6£3	65	

### ZUCADDROW / EUCADDROW PROG 134

	drn	Drain pa	rameters	family.
		ldr	30	Initial Drain Phase Duration [s].
		Fdr	100	Final Drain Phase Duration [s].
		drt	۵	Drain and cleaning mode.
		[Ьб	0	Wash tank water change frequency control disabled.
	dPA	Set other	r paramet	ers.
		iPA	0	Initial Pause [s] (for ALL cycles).
		dl y	Ξ	Delay for the 2 <sup>nd</sup> wash pump [s].
		Pdr	0	Drain Phase Duration at the end of washing phase [s].
		r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).
		[ F	0	Degrees Celsius display.
		r it	0	During the rinse stage, the display shows the boiler temperature.
	HEP	Enter inte	o HCP pa	rameter family and set the following parameters.
		SEr	1	Machine arranged for remote connection to PC.
6.	Switch OFF	and then swi	tch ON th	e machine.
	<u>GEn</u>	Enter inte	o GEn pai	rameter family.
		d In	50	Initial Detergent Dosage.
		r In	10	Initial Rinse Aid Dosage.
		dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).
		r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).
7.	Switch OFF	and then swi	tch ON th	e machine.

#### WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

-UC/	<b>43D</b> [	J	PROG	13
	and then swi	tch ON th	ne machine.	
[FG		o CFG pa	rrameter family and set the following parameters:	
	ЕЧP	0	Hood Type and undercounter.	
	bo (	0	Atmospheric boiler.	
	doo	2	Front loading function.	
	dFl	3	Default values for Undercounter models.	
	tre	1	SOFT START enabled.	
	6_£	1	Tank heater works only if boiler temperature reached.	
	ЬŁF	75	Enable filling tank by means of rinsing cycles.	
	LE5	0	Detergent level switches not enabled.	
	U 1	24	Select user interface for LS5.	
	rE	0	Regeneration cycle disabled.	
	Al r	0	Alarms not enabled.	
	AAC	0	Boiler electronic level sensor.	
	Frū	0	Resin regeneration cycle forcing.	
	Srll	10	Rinse water max. hardness.	
	ЪPo	50	Boiler heating control.	
Switch OFF	and then swi	tch ON th	ne machine.	
Modify Fact	tory parameter	rs:		
FAC	Enter into	FAC pa	rameter family and set the following parameters.	
	ьεї	80	Boiler Temperature Threshold.	
	ьн ,	96	Boiler temperature: alarm threshold.	
	ьяј	0	Boiler Temperature Adjust.	
	ЬР	1	Boiler standby function enabled.	
	ЬSE	2	Booster Function.	
	ЬŁd	Э	During stand-by boiler is kept at lower temperature than Temperature Threshold.	
	FFC	63	Tub Temperature: Threshold.	
	EH 1	75	Tank temperature: alarm threshold.	
Modify the	cycle paramet	ers:		
[]]	Cycle 1 p	aramete	rs family.	
	Lal	1	Long Wash Phase [min].	
	5h 1	42	Short Wash Phase [s].	
	PR (	4	Pause [s].	
	ril	12	Rinse Phase Duration [s].	
	dr 1	30	Drain [s].	
	FP (	2	Final Pause [s].	
[ 42	Cycle 2 p	aramete		
	LnZ	2	Long Wash Phase [min].	
	542	42	Short Wash Phase [s].	
	PR2	4	Pause [s].	
	r 12	12	Rinse Phase Duration [s].	
	dr Z	30	Drain [s].	
	FP2	2	Final Pause [s].	
[43	Cycle 3 p	_		
6.3.3	Ln3		Long Wash Phase [min].	
	5h3	42	Short Wash Phase [s].	
	PRE			
		4	Pause [s].	
	r ið I sta	12 חר	Rinse Phase Duration [s].	
	dr]	<u>30</u>	Drain [s].	
	FP3	2	Final Pause [s].	
	6£3	0	Boiler Temperature Threshold for Cycle 3.	

UC	A3DE	)	PROG 13
drn	Drain para	ameters	family.
	ldr	30	Initial Drain Phase Duration [s].
	Fdr	100	Final Drain Phase Duration [s].
	drt	٠	Drain and cleaning mode.
	[Ъб	۵	Wash tank water change frequency control disabled.
dPA	Set other	paramet	iers.
	{PR	٥	Initial Pause [s] (for ALL cycles).
	dl y	Э	Delay for the 2 <sup>nd</sup> wash pump [s].
	Pdr	0	Drain Phase Duration at the end of washing phase [s].
	r PA	٠	Duration of pause after the rinse cycle [s] (for ALL cycles).
	[ F	٠	Degrees Celsius display.
	r it	0	During the rinse stage, the display shows the boiler temperature.
HEP	Enter into	HCP pa	rameter family and set the following parameters.
	SEr	1	Machine arranged for remote connection to PC.
Switch OFF	and then swit	ch ON th	ne machine.
<u>GEn</u>	Enter into	GEn pa	rameter family.
	d In	50	Initial Detergent Dosage.
	r In	10	Initial Rinse Aid Dosage.
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

### NUCA1DDG / NUC1GRUK

### **PROG 136**

	witch OFF an			
2.	[FG			ameter family and set the following parameters:
		FAb	0	Hood Type and undercounter.
		bo 1	0	Atmospheric boiler.
		daa	Z	Front loading function.
		dFl	E	Default values for Undercounter models.
		tre	1	SOFT START enabled.
		b_t		Tank heater works only if boiler temperature reached.
		6£ <i>F</i>	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		<u>U 1</u>	24	Select user interface for LS5.
		r E	0	Regeneration cycle disabled.
		Al r	٥	Alarms not enabled.
		AAC	0	Boiler electronic level sensor.
		Frű	0	Resin regeneration cycle forcing.
		SrU	10	Rinse water max. hardness.
		6Po	50	Boiler heating control.
	witch OFF an			e machine.
	lodify Factory			
$\vdash$	FAC			ameter family and set the following parameters.
		ьε[	80 0r	Boiler Temperature Threshold.
		<b>ЬН</b> /	96	Boiler temperature: alarm threshold.
		6AJ 	٥	Boiler Temperature Adjust.
		6 <i>P</i>	1	Boiler standby function enabled.
		65E	2	Booster Function.
		błd	Ξ	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFE	63 75	Tub Temperature: Threshold.
		EH 1	75	Tank temperature: alarm threshold.
	lodify the cycl			e family
	231	Cycle 1 par Ln 1	rameter	Long Wash Phase [min].
		551	12	Short Wash Phase [s].
		PRI	1E 4	
		ril	12	Pause [s].
		dri	25	Rinse Phase Duration [s].
		ar i FP {	23	Drain [s].
	[ 42	Cycle 2 pa	_	Final Pause [s].
$\vdash$		Ln2		Long Wash Phase [min].
		5h2	42	
		SAC PA2	דר 4	Short Wash Phase [s].
		r 12		Pause [s]. Rinse Phase Duration [s].
		r ie dr2	12 30	
		ere FP2	יינ 2	Drain [s]. Final Pause [s].
$\vdash$	[ 4 3	Cycle 3 pa		
	6 2 2	Ln <b>J</b>		Long Wash Phase [min].
		5h3	42	Short Wash Phase [s].
		PA3	ч Ч	Pause [s].
		r 13	12	Pause [s]. Rinse Phase Duration [s].
		dr 3	70 30	Drain [s].
		FP]	יינ 2	Final Pause [s].
		rrg 623	c 0	
		0C J	U	Boiler Temperature Threshold for Cycle 3.

### NUCA1DDG / NUC1GRUK

### **PROG 136**

	drn	Drain pa	rameters f	family.
		ldr	30	Initial Drain Phase Duration [s].
		Fdr	100	Final Drain Phase Duration [s].
		drt	0	Drain and cleaning mode.
		[bd	0	Wash tank water change frequency control disabled.
	dPR	Set other	r paramete	ers.
		1PA	۵	Initial Pause [s] (for ALL cycles).
		dl y	E	Delay for the 2 <sup>nd</sup> wash pump [s].
		Pdr	0	Drain Phase Duration at the end of washing phase [s].
		r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).
		[ F	0	Degrees Celsius display.
		r it	0	During the rinse stage, the display shows the boiler temperature.
	HEP	Enter into	HCP pa	rameter family and set the following parameters.
		SEr	1	Machine arranged for remote connection to PC.
6.	Switch OFF	and then swi	tch ON th	e machine.
	<u>GEn</u>	Enter into	o GEn par	rameter family.
		d In	50	Initial Detergent Dosage.
		r In	10	Initial Rinse Aid Dosage.
		dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).
		r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).
7.	Switch OFF	and then swi	tch ON th	e machine.

### WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

## Electrolux EFS - Dishwashing Systems Platform Electrolux Professional

<b>NUC</b>	1GM	3	PROG 13
	and then swi	tch ON th	ne machine.
[FG	Enter inter	o CFG pa	rameter family and set the following parameters:
	ĿУP	٠	Hood Type and undercounter.
	bo i	1	Pressure boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	tre	0	Disabled (for this appliance SOFT START is NOT possible).
	6_£	1	Tank heater works only if boiler temperature reached.
	ЬŁF	٥	The tank is filled into the traditional way.
	LE5	۵	Detergent level switches not enabled.
	U 1	24	Select user interface for LS5.
	r E	0	Regeneration cycle disabled.
	Rl r	0	Alarms not enabled.
	AAC	0	Boiler electronic level sensor.
	Frū	0	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	ЪPo	50	Boiler heating control.
Switch OFF	and then swi	tch ON th	ne machine.
	ory paramete		
FAC			rameter family and set the following parameters.
	ьεί	82	Boiler Temperature Threshold.
	ьн т	96	Boiler temperature: alarm threshold.
	ьяј	3	Boiler Temperature Adjust.
	БР	1	Boiler standby function enabled.
	65E	2	Booster Function.
	btd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FFC	63	Tub Temperature: Threshold.
	EH 1	75	Tank temperature: alarm threshold.
Modify the c	cycle paramet		ne feneilt.
131	Cycle 1 p		
	5h 1	 	Long Wash Phase [min].
		12	Short Wash Phase [s].
	PR 1	4 111	Pause [s].
	r i l	14 70	Rinse Phase Duration [s].
	dr 1 FP 1	30 0	Drain [s].
[ 42		<b>u</b> Darameter	Final Pause [s].
L J L	LnZ		Long Wash Phase [min].
	52	40	Short Wash Phase [s].
	PAZ	יי א	Pause [s].
	r 12		
	dr2	16 30	Rinse Phase Duration [s].
	FP2		Drain [s]. Final Pause [s]
[43		<b>u</b> Darameter	Final Pause [s].
	Ln3		Long Wash Phase [min].
	5h3	40	Short Wash Phase [s].
	PR3	טר 4	Pause [s].
	r ið	۲ 16	Pause [s]. Rinse Phase Duration [s].
	dr]	, a 30	
	ars FP]	30 0	Drain [s].
		_	Final Pause [s].
	6£3	0	Boiler Temperature Threshold for Cycle 3.

UC	1GM	S	PROG 13	87
drn	Drain par	ameters	family.	
	ldr	30	Initial Drain Phase Duration [s].	
	Fdr	100	Final Drain Phase Duration [s].	
	drt	۵	Drain and cleaning mode.	
	[ьа	0	Wash tank water change frequency control disabled.	
dPR	Set other	paramet	ers.	
	{PR	۵	Initial Pause [s] (for ALL cycles).	
	<u> ፈ</u> የ ሕ	Э	Delay for the 2 <sup>nd</sup> wash pump [s].	
	Pdr	0	Drain Phase Duration at the end of washing phase [s].	
	r PR	٠	Duration of pause after the rinse cycle [s] (for ALL cycles).	
	[ F	۵	Degrees Celsius display.	
	r it	0	During the rinse stage, the display shows the boiler temperature.	
HEP	Enter into	HCP pa	rameter family and set the following parameters.	
	SEr	1	Machine arranged for remote connection to PC.	
Switch OFF	and then swi	tch ON th	ne machine.	
<u>GEn</u>	Enter into	o GEn pa	rameter family.	
	d In	165	Initial Detergent Dosage.	
	r In	٠	Initial Rinse Aid Dosage.	
	dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.	
	r A i	51	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.	

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

### NUC3 / KUC3 / EUC3

#### **PROG 138** Switch OFF and then switch ON the machine 2. EFG Enter into CFG parameter family and set the following parameters: ŁУP 0 Hood Type and undercounter. 60 1 1 Pressure boiler. 2 daa Front loading function. dFL Ŧ Default values for Undercounter models. tre 1 SOFT START enabled. 1 b.t Tank heater works only if boiler temperature reached. ЬŁF ۵ The tank is filled into the traditional way. ۵ LES Detergent level switches not enabled. 11.1 24 Select user interface for LS5. ۵ rE Regeneration cycle disabled. ٥ Al r Alarms not enabled. ARG ۵ Boiler electronic level sensor. FrG ۵ Resin regeneration cycle forcing. SrU 10 Rinse water max. hardness. 6Pa 50 Boiler heating control. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Enter into FAC parameter family and set the following parameters. ьεг 84 Boiler Temperature Threshold. bH . 96 Boiler temperature: alarm threshold. ьЯJ E Boiler Temperature Adjust. ЬΡ 1 Boiler standby function enabled. 2 b5Ł Booster Function. E bt d During stand-by boiler is kept at lower temperature than Temperature Threshold. ££[ 63 Tub Temperature: Threshold. 75 EH 1 Tank temperature: alarm threshold. 5. Modify the cycle parameters: []] Cycle 1 parameters family. Lnl 1 Long Wash Phase [min]. 551 40 Short Wash Phase [s]. PR 1 4 Pause [s]. 15 Rinse Phase Duration [s]. ril 30 dr 1 Drain [s]. FP 1 ٥ Final Pause [s]. [ 72 Cycle 2 parameters family. LnZ 2 Long Wash Phase [min]. 552 40 Short Wash Phase [s]. PR2 4 Pause [s]. r 12 15 Rinse Phase Duration [s]. dr2 30 Drain [s]. FP2 ٠ Final Pause [s]. [4] Cycle 3 parameters family. LnJ Long Wash Phase [min]. 2 5h3 40 Short Wash Phase [s]. PRJ 4 Pause [s]. r ið 15 Rinse Phase Duration [s]. dr 3 30 Drain [s]. FP3 ۵ Final Pause [s]. ٠ 6£3 Boiler Temperature Threshold for Cycle 3.

			3 / EUC3	PROG 138
drn		rameters	-	
	ldr	30	Initial Drain Phase Duration [s].	
	Fdr	100	Final Drain Phase Duration [s].	
	drt	0	Drain and cleaning mode.	
	[Ьd	40	Number of wash cycles possible between one drain c	ycle and the next.
dPA	Set othe	r paramet	ers.	
	1PR	0	Initial Pause [s] (for ALL cycles).	
	dlУ	3	Delay for the 2 <sup>nd</sup> wash pump [s].	
	Pdr	0	Drain Phase Duration at the end of washing phase [s]	
	r PR	0	Duration of pause after the rinse cycle [s] (for ALL cyc	les).
	[ F	0	Degrees Celsius display.	
	r it	0	During the rinse stage, the display shows the boiler te	mperature.
HEP	Enter int	o HCP pa	rameter family and set the following parameters.	
	5Er	1	Machine arranged for remote connection to PC.	
Switch OFF	and then sw	itch ON th	e machine.	
GEn	Enter int	o GEn pa	rameter family.	
	d In	165	Initial Detergent Dosage.	
	r In	0	Initial Rinse Aid Dosage.	
	dEt	182	Detergent dispenser works when LOAD SOLENOID \	/ALVE in activated.
	r A i	<b>5</b> /	Rinse Aid dispenser works when LOAD SOLENOID V	ALVE in activated

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

## ZPPW / APPW / EPPW (EX PW1 / PW1H) PROG 139

[FG	and then swi <sup>r</sup> Enter into		rameter family and set the following parameters:
	Enter Inte	/ 01 Cl pa	Pot Washer.
	601	, 0	Atmospheric boiler.
	daa	2	Front loading function.
	dFL	2	Default values for Pot Washer models.
	trc	0	Disabled (for this appliance SOFT START is NOT possible).
	6,t		Tank heater works only if boiler temperature reached.
	62C 62F	, 0	The tank is filled into the traditional way.
	LES	0	Detergent level switches not enabled.
	U 1	9	
	rE	0	Select user interface hood type/ undercounter model.
	Al r		Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	я, r ЯЯ <u>С</u>	, ,	Alarms enabled.
	rnu Frū	0	Boiler electronic level sensor.
	sru Sru	0 (7	Resin regeneration cycle forcing.
		10 5 N	Rinse water max. hardness.
Duritak OFF	6Po	<b>50</b>	Boiler heating control.
	and then swi		
	tory parameter		rameter family and set the following parameters.
· • • • •	642	780 78	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	67 T	<u>з</u> о Ч	Boiler Temperature Adjust.
	670 6P	1	
	67 65t	י ע	Boiler standby function enabled.
		Ч л	Booster Function.
	62d 22[	0 63	During stand-by boiler is kept at lower temperature than Temperature Threshold.
			Tub Temperature: Threshold.
	EH 1	75	Tank temperature: alarm threshold.
<b>UDAITY THE </b>	cycle paramet Cycle 1 p		rs family
	Lnl	2	Long Wash Phase [min].
	5h 1	34	Short Wash Phase [s].
	PR 1	4	Pause [s].
	ril	20	Rinse Phase Duration [s].
	drl	12	Drain [s].
	FP 1	0	Final Pause [s].
[ 42	Cycle 2 p		
- 36	LnZ	5	Long Wash Phase [min].
	542	2 34	Short Wash Phase [s].
	PR2	רב 4	Pause [s].
	r iz	20	Pause [s]. Rinse Phase Duration [s].
	dr2	12	
	arc FP2	12	Drain [s].
<i><b>ГИ</b></i>			Final Pause [s].
[43	Cycle 3 p		
	Eng	8 117	Long Wash Phase [min].
	5h3 007	34	Short Wash Phase [s].
	PAJ	4	Pause [s].
			Rinse Phase Duration [s].
	r ið	20	
	r ið drð	12	Drain [s].
	r ið		

### ZPPW / APPW / EPPW (EX PW1 / PW1H) PROG 139

drn	Droin	amatara	fomily.
arn	Drain par		
	ldr	120	Initial Drain Phase Duration [s].
	Fdr	90	Final Drain Phase Duration [s].
	drt	0	Drain and cleaning mode.
	[Ъб	0	Wash tank water change frequency control disabled.
	dto	48	Drain cycle Timeout.
dPR	Set other	paramet	ers.
	(PR	2	Initial Pause [s] (for ALL cycles).
	<u> </u>	3	Delay for the 2 <sup>nd</sup> wash pump [s].
	Pdr	0	Drain Phase Duration at the end of washing phase [s].
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).
	[ F	0	Degrees Celsius display.
	r it	0	During the rinse stage, the display shows the boiler temperature.
	ELE	0	Termal Label mode disabled (Functions present with firmware version 4.04).
HEP	Enter into	HCP pa	rameter family and set the following parameters.
	5Er	1	Machine arranged for remote connection to PC.
. Switch OFF	and then swi	tch ON th	e machine.
<u>GEn</u>	Enter into	GEn pa	rameter family.
	d In	240	Initial Detergent Dosage.
	r In	18	Initial Rinse Aid Dosage.
	dEt	16	Detergent dispensing during the wash cycle (loading during wash stage).
	r A i	7	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).
. Switch OFF	and then swi	tch ON th	e machine.

#### WARNING:

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

ľ		<u>/ A</u> F	<u>' ۲ ۷</u>	V / EPPW (EX PW2) PROG 14
	witch OFF a			
	[FG			rameter family and set the following parameters:
		ЕЯЬ	1	Pot Washer.
		60 ·	0	Atmospheric boiler.
		doo	2	Front loading function.
		dFL	2	Default values for Pot Washer models.
		trc	0	Disabled (for this appliance SOFT START is NOT possible).
		6_£	1	Tank heater works only if boiler temperature reached.
		ЬŁF	0	The tank is filled into the traditional way.
		LES	0	Detergent level switches not enabled.
		U 1	9	Select user interface hood type/ undercounter model.
		rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
		Al r	1	Alarms enabled.
		AAC	0	Boiler electronic level sensor.
		FrG	0	Resin regeneration cycle forcing.
		SrU	10	Rinse water max. hardness.
		ЪPo	50	Boiler heating control.
SI	witch OFF a	nd then swit	ch ON th	e machine.
М	lodify Factor	y parameter	's:	
	FAC	Enter into	FAC par	ameter family and set the following parameters.
		ьεї	78	Boiler Temperature Threshold.
		ЬН г	96	Boiler temperature: alarm threshold.
		ьяј	4	Boiler Temperature Adjust.
		ЬР	1	Boiler standby function enabled.
		65E	4	Booster Function.
		ьtd	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		EFC	63	Tub Temperature: Threshold.
		EH 1	75	Tank temperature: alarm threshold.
М	lodify the cy			
	<u>[</u> y ]	Cycle 1 p		s family.
		Lnl	2	Long Wash Phase [min].
		5h 1	34	Short Wash Phase [s].
		PR I	- 4	Pause [s].
		r il	20	Rinse Phase Duration [s].
		drl	21	Drain [s].
		6, , FP (		Final Pause [s].
	[ 42	Cycle 2 p	-	
-		LnZ	<u>arameter</u> 5	Long Wash Phase [min].
		542	ЭЧ	
		PR2		Short Wash Phase [s].
			4	Pause [s].
		r 12	20	Rinse Phase Duration [s].
		dr2	21	Drain [s].
	<b>5</b> 14 <b>3</b>	FP2	٥	Final Pause [s].
	[43	Cycle 3 p		
		Eng	8	Long Wash Phase [min].
		543	34	Short Wash Phase [s].
		PRJ	4	Pause [s].
		r ið	20	Rinse Phase Duration [s].
		dr 3	21	Drain [s].
		FP3	0	Final Pause [s].
		6£3	0	Boiler Temperature Threshold for Cycle 3.

drn	Drain parameters family.					
	ldr	180	Initial Drain Phase Duration [s].			
	Fdr	90	Final Drain Phase Duration [s].			
	drt	0	Drain and cleaning mode.			
	[Ъd	0	Wash tank water change frequency control disabled.			
	dto	48	Drain cycle Timeout.			
dPA	Set othe	r paramet	ers.			
	ipa	2	Initial Pause [s] (for ALL cycles).			
	dl Y	3	Delay for the 2 <sup>nd</sup> wash pump [s].			
	Pdr	0	Drain Phase Duration at the end of washing phase [s].			
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[ F	0	Degrees Celsius display.			
	r it	0	During the rinse stage, the display shows the boiler temperature.			
	ELE	0	Termal Label mode disabled (Functions present with firmware version 4.04).			
HEP	Enter inter	o HCP pa	rameter family and set the following parameters.			
	5Er	1	Machine arranged for remote connection to PC.			
witch OFF	F and then switch ON the machine.					
<u>GEn</u>	Enter inter	o GEn pa	rameter family.			
	d In	240	Initial Detergent Dosage.			
	r In	18	Initial Rinse Aid Dosage.			
	dEt	16	Detergent dispensing during the wash cycle (loading during wash stage).			
	r A i	7	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).			

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

#### WARNING:

#### EPPWESG60 (EX PW1 - 60Hz) **PROG 141** Switch OFF and then switch ON the machine. 1. [FG 2. Enter into CFG parameter family and set the following parameters: ĿЧP Pot Washer. 1 60 1 ۵ Atmospheric boiler. 2 Front loading function. doo Default values for Pot Washer models. dFL 2 ۵ Disabled (for this appliance SOFT START is NOT possible). tre 1 Tank heater works only if boiler temperature reached. 6\_E ۵ **b**EF The tank is filled into the traditional way. ٠ LES Detergent level switches not enabled. 9 #1 Select user interface hood type/ undercounter model. гE ۵ Regeneration cycle disabled (only for dishwashers with non-continuous water softener). Ri r 1 Alarms enabled. AAC ۵ Boiler electronic level sensor. FrG ۵ Resin regeneration cycle forcing. Srll 10 Rinse water max. hardness. ЬPо 50 Boiler heating control. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FRE Enter into FAC parameter family and set the following parameters. ЬŁГ 78 Boiler Temperature Threshold. 96 bH a Boiler temperature: alarm threshold. ьял 4 Boiler Temperature Adjust. ЬP 1 Boiler standby function enabled. 4 65E Booster Function. bŁd ٥ During stand-by boiler is kept at lower temperature than Temperature Threshold. 63 ££[ Tub Temperature: Threshold. 75 EH . Tank temperature: alarm threshold. 5. Modify the cycle parameters: [ 4 1 Cycle 1 parameters family. Lnl 2 Long Wash Phase [min]. 561 ЭЧ Short Wash Phase [s]. PR 1 4 Pause [s]. 20 ril Rinse Phase Duration [s]. dr 1 13 Drain [s]. FP 1 ٥ Final Pause [s]. [ 42 Cycle 2 parameters family. LnZ 5 Long Wash Phase [min]. 522 34 Short Wash Phase [s]. PR2 4 Pause [s]. r 12 20 Rinse Phase Duration [s]. dr 2 13 Drain [s]. FP2 ٥ Final Pause [s]. [4] Cycle 3 parameters family. Lng 8 Long Wash Phase [min]. 5h3 34 Short Wash Phase [s]. PRJ 4 Pause [s]. 20 r ið Rinse Phase Duration [s]. dr 3 13 Drain [s]. FP3 Final Pause [s]. 6£ 3 ۵ Boiler Temperature Threshold for Cycle 3.

PPW	<b>/ESG</b>	60	(EX PW1 - 60Hz)	<b>PROG 141</b>		
drn	Drain parar	Drain parameters family.				
	ldr	120	Initial Drain Phase Duration [s].			
	Fdr	120	Final Drain Phase Duration [s].			
	drt	0	Drain and cleaning mode.			
	[Ъб	0	Wash tank water change frequency control disabled.			
	dta	48	Drain cycle Timeout.			
dPR	Set other p	aramet	ers.			
	ipa	2	Initial Pause [s] (for ALL cycles).			
	dl y	3	Delay for the 2 <sup>nd</sup> wash pump [s].			
	Pdr	٠	Drain Phase Duration at the end of washing phase [s].			
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles	s).		
	[ F	0	Degrees Celsius display.			
	r it	0	During the rinse stage, the display shows the boiler temp	perature.		
	ELE	0	Termal Label mode disabled (Functions present with firm	nware version 4.04).		
HEP	Enter into H	-ICP pa	rameter family and set the following parameters.			
	SEr	1	Machine arranged for remote connection to PC.			
Switch OFF	FF and then switch ON the machine.					
<u>GEn</u>	Enter into C	GEn pa	rameter family.			
	d in	240	Initial Detergent Dosage.			
	r In	18	Initial Rinse Aid Dosage.			
	dEt	16	Detergent dispensing during the wash cycle (loading during the wash cycle)	ring wash stage).		
	r A .	7	Rinse aid dispensing during the rinse cycle (loading duri	ing boiler filling stage).		
Switch OFF	and then switch	h ON th	e machine.			

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the  $\Gamma FL$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the [F ] family are not modified.

			(EX PW2 - 60Hz) PROG 142	
Switch O	FF and then swit Enter into		e machine. rameter family and set the following parameters:	
	E SP	1 01 01 00	Pot Washer.	
	bor	D	Atmospheric boiler.	
	doo	2	Front loading function.	
	dFL	2	Default values for Pot Washer models.	
	tre	-	Disabled (for this appliance SOFT START is NOT possible).	
	b_t	1	Tank heater works only if boiler temperature reached.	
	61E 62F	, D	The tank is filled into the traditional way.	
	LES	0	Detergent level switches not enabled.	
	<u>и</u> 1	-	Select user interface hood type/ undercounter model.	
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).	
	Al r	1	Alarms enabled.	
	AAC	, D	Boiler electronic level sensor.	
	FrG	0	Resin regeneration cycle forcing.	
	SrU	10	Rinse water max. hardness.	
	5Po	50	Boiler heating control.	
Switch O	FF and then swit			
	actory parameter			
FAC			rameter family and set the following parameters.	
	ьεί	78	Boiler Temperature Threshold.	
	 БН (	96	Boiler temperature: alarm threshold.	
	ьЯJ		Boiler Temperature Adjust.	
	ЬР	1	Boiler standby function enabled.	
	- 65£	4	Booster Function.	
	bt d	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.	
	 tt[	6 <del>3</del>	Tub Temperature: Threshold.	
	 EH 1	75	Tank temperature: alarm threshold.	
Modify th	e cycle paramet			
[ ] ]				
	Lnl	2	Long Wash Phase [min].	
	5h 1	34	Short Wash Phase [s].	
	PR (	4	Pause [s].	
	r i t	20	Rinse Phase Duration [s].	
	dr 1	22	Drain [s].	
	FP (	0	Final Pause [s].	
<b>FU3</b>	Cycle 2 p	arameter		
136			-	
[42	LnZ	5	Long wash Phase [min].	
130	LnZ ShZ	5 34	Long Wash Phase [min]. Short Wash Phase [s].	
130	542	34	Short Wash Phase [s].	
130	552 PR2	34 4	Short Wash Phase [s]. Pause [s].	
	542 PR2 r 12	34 4 20	Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s].	
	5h2 PR2 r 12 dr2	94 4 20 22	Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s].	
	542 PR2 r 12 dr 2 FP2	34 4 20 22 0	Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s].	
[73]	552 PR2 r 12 dr 2 FP2 Cycle 3 p	34 4 20 22 0 aarameter	Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. rs family.	
	5h2 PR2 r :2 dr2 FP2 Cycle 3 p L n 3	34 4 20 22 0 parameter 8	Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. rs family. Long Wash Phase [min].	
	5 h 2 P A 2 r : 2 d r 2 F P 2 Cycle 3 p L n 3 5 h 3	34 4 20 22 0 0 arrameter 8 34	Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. rs family. Long Wash Phase [min]. Short Wash Phase [s].	
	5 h 2 P R 2 r : 2 dr 2 F P 2 Cycle 3 p L n 3 5 h 3 F R 3	94 9 20 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s].	
	5 h 2 PR2 r i 2 dr 2 FP2 Cycle 3 p L n 3 5 h 3 PR3 r i 3	34 4 20 22 0 0 0 0 0 0 0 3 4 4 20	Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s].	
	5 h 2 P R 2 r : 2 dr 2 F P 2 Cycle 3 p L n 3 5 h 3 F R 3	94 9 20 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s].	

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Electrolux Professional

PPW	/ELC	<b>360</b>	(EX PW2 - 60Hz) <b>PROG 14</b> 2		
drn	Drain parameters family.				
	ldr	180	Initial Drain Phase Duration [s].		
	Fdr	140	Final Drain Phase Duration [s].		
	drt	0	Drain and cleaning mode.		
	[Ъб	0	Wash tank water change frequency control disabled.		
	dto	48	Drain cycle Timeout.		
dPR	Set othe	r paramet	ers.		
	1PA	2	Initial Pause [s] (for ALL cycles).		
	<i>ፈ</i> ሃ	3	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[ F	0	Degrees Celsius display.		
	r it	0	During the rinse stage, the display shows the boiler temperature.		
	ELE	0	Termal Label mode disabled (Functions present with firmware version 4.04).		
HEP	Enter into HCP parameter family and set the following parameters.				
	5Er	1	Machine arranged for remote connection to PC.		
Switch OFF	and then sw	ritch ON th	ne machine.		
GEn	Enter int	o GEn pa	rameter family.		
	d In	240	Initial Detergent Dosage.		
	r In	18	Initial Rinse Aid Dosage.		
	dEt	16	Detergent dispensing during the wash cycle (loading during wash stage).		
	r A i	7	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the  $\Gamma FL$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the  $\Gamma FL$  family are not modified.



ADD8 and then swit Enter into ESP	tch ON th	ne machine.					
	CFG pa						
ŁУР	<b>EVALUATE:</b> Enter into CFG parameter family and set the following parameters:						
	۵	Hood Type and undercounter.					
bo ı	0	Atmospheric boiler.					
doo	2	Front loading function.					
dFL	Э	Default values for Undercounter models.					
tre	1	SOFT START enabled.					
6_£	1	Tank heater works only if boiler temperature reached.					
ЬŁF	75	Enable filling tank by means of rinsing cycles.					
LE5	0	Detergent level switches not enabled.					
U 1	24	Select user interface hood type/ undercounter model.					
r E	0	Regeneration cycle disabled.					
Rl r	0	Alarms not enabled.					
AAC	0	Boiler electronic level sensor.					
FrG	0	Resin regeneration cycle forcing.					
Srll	10	Rinse water max. hardness.					
<b>БРо</b>		Boiler heating control.					
and then swit	tch ON th						
ry parameter	rs:						
Enter into FAC parameter family and set the following parameters.							
ьεї	84	Boiler Temperature Threshold.					
ьн ,	96	Boiler temperature: alarm threshold.					
ьяј	0	Boiler Temperature Adjust.					
ЬР	0	Boiler standby function enabled.					
65E	2	Booster Function.					
btd	Э	During stand-by boiler is kept at lower temperature than Temperature Threshold.					
FFC	63	Tub Temperature: Threshold.					
FFH	2	Tub Temperature: HISTERESIS.					
EH 1	80	Tank temperature: alarm threshold.					
cle paramete	ers:						
		rs family.					
Lnl	0	Long Wash Phase [min].					
5h 1	42	Short Wash Phase [s].					
PR (	4	Pause [s].					
rit	12	Rinse Phase Duration [s].					
dr 1	25	Drain [s].					
FP (	2	Final Pause [s].					
Cycle 2 p	aramete						
LnZ	1	Long Wash Phase [min].					
522	42	Short Wash Phase [s].					
PAZ	4	Pause [s].					
	_	Rinse Phase Duration [s].					
		Drain [s].					
		Final Pause [s].					
,	E + C E	Erc       1 $b-E$ 1 $bEF$ 75 $LES$ 0 $UI$ 24 $rE$ 0 $RIr$ 0 $RIr$ 0 $RRG$ 0 $FrG$ 0 $SrU$ 10 $bPo$ 50         and then switch ON till       10 $bFC$ 84 $bHr$ 96 $bFI$ 2 $bEd$ 3 $EEE$ 63 $EHI$ 80 $rcle parameters:       Cycle 1 parameters:         Cycle 1 parameters:       Cycle 1 arameters:         Cycle 2 parameters:       2         Cycle 2 parameters       1         Cycle 2 parameters       1         Cycle 2 parameters       1         Cycle 2 parameters       1    $					

UC/	<b>ADD</b>	<b>50</b>	PROG 14		
drn	Drain parameters family.				
	ldr	30	Initial Drain Phase Duration [s].		
	Fdr	100	Final Drain Phase Duration [s].		
	drt	0	Drain and cleaning mode.		
	[Ъб	0	Wash tank water change frequency control disabled.		
dPR	Set other	paramet	ters.		
	1P.A	٥	Initial Pause [s] (for ALL cycles).		
	<u> </u>	3	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PR	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[ F	0	Degrees Celsius display.		
	r it	0	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into	HCP pa	arameter family and set the following parameters.		
	5Er	1	Machine arranged for remote connection to PC.		
Switch OFF	n OFF and then switch ON the machine.				
<u>GEn</u>	Enter into	o GEn pa	rameter family.		
	d In	50	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).		
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the  $\Gamma FL$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the **[F** family are not modified.

### **ZHT7 / ZHT76**

## **PROG 144**

1.	Switch OFF	and then swit	tch ON th	e machine.
2.	[FG	Enter into	CFG pa	rameter family and set the following parameters:
		ŁУP	0	Hood Type and undercounter.
		bo i	0	Atmospheric boiler.
		doo	1	Manual Hood.
		dFL	1	Default values for Hood Type models.
		tre	1	Enabled.
		<b>b</b> _£	0	Boiler heaters and tank heater work simultaneously.
		ЬŁF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		<u>U 1</u>	9	Select user interface hood type/ undercounter model.
		r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
		Al r	1	Alarms enabled.
		AAC	0	Boiler electronic level sensor.
		FrG	0	Resin regeneration cycle forcing.
		5 <i>r</i> U	10	Rinse water max. hardness.
		 ЬРо	50	Boiler heating control.
3.	Switch OFF			5
	Modify Facto			
	FAC			ameter family and set the following parameters.
		ьεї	78	Boiler Temperature Threshold.
		ьн ,	0	Disable boiler high Temperature alarm ( <b>[ 2</b> ).
		ьяј	4	Boiler Temperature Adjust.
		ЬР	1	Boiler standby function enabled.
		65E	2	Booster Function.
		bt d	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFC	63	Tank Temperature: Threshold.
		EH 1	0	Disable tank high Temperature alarm ( <b>[ 3</b> ).
5.	Modify the cy	cle paramet/	ers:	
	[ 4 1	Cycle 1 p	arameter	s family.
		Lnl	0	Long Wash Phase [min].
		5h 1	36	Short Wash Phase [s].
		PR 1	4	Pause [s].
		ril	12	Rinse Phase Duration [s].
		dr 1	25	Drain [s].
		FP {	2	Final Pause [s].
		EL I	0	Long Wash Phase inTermal Label mode [min].
		E5 1	59	Short Wash Phase inTermal Label mode [s].
	[ 42	Cycle 2 p	arameter	s family.
		Ln2	1	Long Wash Phase [min].
		542	12	Short Wash Phase [s].
		PR2	ч	Pause [s].
		r 12	12	Rinse Phase Duration [s].
		dr Z	25	Drain [s].
		FP2	2	Final Pause [s].
		EL2	-	Long Wash Phase inTermal Label mode [min].
		£52	12	Short Wash Phase inTermal Label mode [s].

HT7	7 / ZH	<b>1</b> T7	76 PROG 14		
[ 43	Cycle 3 parameters family.				
	Enj	2	Long Wash Phase [min].		
	5h3	12	Short Wash Phase [s].		
	PRJ	4	Pause [s].		
	r ið	12	Rinse Phase Duration [s].		
	dr 3	25	Drain [s].		
	FP3	2	Final Pause [s].		
	EL 3	2	Long Wash Phase inTermal Label mode [min].		
	£53	12	Short Wash Phase inTermal Label mode [s].		
	6£3	0	Boiler Temperature Threshold for Cycle 3.		
drn	Drain par	rameters	family.		
	ldr	40	Initial Drain Phase Duration [s].		
	Fdr	80	Final Drain Phase Duration [s].		
	drt	0	Drain and cleaning mode.		
	[ьа	٠	Wash tank water change frequency control disabled.		
dPA	Set other parameters.				
	1PR	0	Initial Pause [s] (for ALL cycles).		
	dl y	Э	Delay for the 2 <sup>nd</sup> wash pump [s].		
	Pdr	0	Drain Phase Duration at the end of washing phase [s].		
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[ F	0	Degrees Celsius display.		
	r it	0	During the rinse stage, the display shows the boiler temperature.		
	ELE	0	Termal Label mode disabled.		
	bel	86	Boiler Temperature in Termal Label mode.		
	<u>ttl</u>	75	Tank Temperature in Termal Label mode.		
	F HF	2	Tank Temperature histeresis in Termal Label mode.		
HEP	Enter into	HCP pa	arameter family and set the following parameters.		
	SEr	1	Machine arranged for remote connection to PC.		
	F and then switch ON the machine.				
<u>GEn</u>	Enter into		rameter family.		
	d In	90	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).		
	r A i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the  $\Gamma FL$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the **[F** family are not modified.

## **ZUCIDC / EUCIDDC**

1.		and then swi	tch ON th	e machine.
2.	[ F []	Enter into	o CFG par	rameter family and set the following parameters:
		ŁУP	۵	Hood Type and undercounter.
		60 1	1	Pressure boiler.
		doo	2	Front loading function.
		dFl	3	Default values for Undercounter models.
		trc	1	SOFT START enabled.
		b_t	1	Tank heater works only if boiler temperature reached.
		ЬŁF	0	The tank is filled into the traditional way.
		LES	۵	Detergent level switches not enabled.
		U 1	8	ACTIVE function disabled.
		r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
		Al r	1	Alarms enabled.
		AAC	0	Boiler electronic level sensor.
		Frū	0	Resin regeneration cycle forcing.
		Srü	10	Rinse water max. hardness.
		6Ро	50	Boiler heating control.
3.	Switch OFF	and then swi	tch ON th	e machine.
4.		ory paramete	rs:	
	FAC	Enter into	o FAC par	ameter family and set the following parameters.
		ьεї	86	Boiler Temperature Threshold.
		ьн ,	96	Boiler temperature: alarm threshold.
		ьяј	0	Boiler Temperature Adjust.
		ЬР	1	Boiler standby function enabled.
		65E	2	Booster Function.
		bt d	Э	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFC	63	Tub Temperature: Threshold.
		EHI	75	Tank temperature: alarm threshold.
5.	Modify the c	ycle paramet	ers:	
	[9]	Cycle 1 p	parameter	s family.
		Lnl	1	Long Wash Phase [min].
		5h 1	10	Short Wash Phase [s].
		PR 1	4	Pause [s].
		ril	15	Rinse Phase Duration [s].
		er l	15	Cold Rinse Phase Duration [s].
		dr 1	30	Drain [s].
		FP {	0	Final Pause [s].
	[ 42	Cycle 2 p	parameter	s family.
		Ln2	1	Long Wash Phase [min].
		5h2	40	Short Wash Phase [s].
		PR2	ч	Pause [s].
		r 12	15	Rinse Phase Duration [s].
		cr2	15	Cold Rinse Phase Duration [s].
		dr Z	30	Drain [s].
		FPZ	0	Final Pause [s].
			-	·

**PROG 145** 

## Electrolux EFS - Dishwashing Systems Platform Electrolux Professional

	[4]	Cycle 3 p	arameter	s family.
		EnJ	3	Long Wash Phase [min].
		5h3	40	Short Wash Phase [s].
		PR3	4	Pause [s].
		r ið	15	Rinse Phase Duration [s].
		cr]	15	Cold Rinse Phase Duration [s].
		dr 3	30	Drain [s].
		FP3	0	Final Pause [s].
		6£ 3	0	Boiler Temperature Threshold for Cycle 3.
	drn	Drain par	rameters f	iamily.
		ldr	30	Initial Drain Phase Duration [s].
		Fdr	80	Final Drain Phase Duration [s].
		drt	0	Drain and cleaning mode.
		[Ъб	0	Wash tank water change frequency control disabled.
	dPA	Set other	paramete	ers.
		1PA	0	Initial Pause [s] (for ALL cycles).
		<u> </u>	3	Delay for the 2 <sup>nd</sup> wash pump [s].
		Pdr	0	Drain Phase Duration at the end of washing phase [s].
		r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).
		[ F	0	Degrees Celsius display.
		r it	0	During the rinse stage, the display shows the boiler temperature.
	HEP	Enter into	HCP pa	rameter family and set the following parameters.
		SEr	1	Machine arranged for remote connection to PC.
6.		and then swi	tch ON th	e machine.
	<u>GEn</u>			rameter family.
		d In	50	Initial Detergent Dosage.
		r In	10	Initial Rinse Aid Dosage.
		dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).
		rfl i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).
7.	Switch OFF	and then swi	tch ON th	e machine.

### WARNING:

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the  $\Gamma FL$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the [F ] family are not modified.

NUC	וטטו	KU	KP PROG 146
	and then swit	tch ON th	e machine.
2. <b>[f</b>	Enter into	o CFG pa	rameter family and set the following parameters:
	ĿУP	٥	Hood Type and undercounter.
	bo i	1	Pressure boiler.
	doo	2	Front loading function.
	dFl	Э	Default values for Undercounter models.
	tre	0	Disabled (for this appliance SOFT START is NOT possible).
	6_£	2	During operation the priorities are booster heating element and wash pump, then tank heatin element. Setting to 0 or 1 is prohibited.
	ЬŁF	٥	The tank is filled into the traditional way.
	LE5	0	Detergent level switches not enabled.
	U 1	24	Select user interface for LS5.
	rE	0	Regeneration cycle disabled.
	Al r	0	Alarms not enabled.
	AAC	0	Boiler electronic level sensor.
	Frū	0	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	ЪPa	50	Boiler heating control.
3. Switch OFI	and then swit	tch ON th	e machine.
4. Modify Fac	tory parameter	rs:	
FAE	Enter into	FAC par	ameter family and set the following parameters.
	ьεї	82	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяј	3	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	2	Booster Function.
	błd	Э	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FFC	63	Tub Temperature: Threshold.
	EH 1	75	Tank temperature: alarm threshold.
5. Modify the	cycle paramet	ers:	
[ 4 1	Cycle 1 p	arameter	rs family.
	Lal	1	Long Wash Phase [min].
	5h 1	40	Short Wash Phase [s].
	PR 1	4	Pause [s].
	rit	15	Rinse Phase Duration [s].
	dr l	30	Drain [s].
	FP (	0	Final Pause [s].
[ 42	Cycle 2 p	_	
	LnZ	2	Long Wash Phase [min].
	542	40	Short Wash Phase [s].
	PR2	 4	Pause [s].
	r 12	, 15	Rinse Phase Duration [s].
	dr 2	30	Drain [s].
	FP2	0	Final Pause [s].
[43	Cycle 3 p		
633	Ln3	2 2	Long Wash Phase [min].
	5h3	40	Short Wash Phase [s].
	PRE	טר 4	
		_	Pause [s].
	r ið dað	16 תב	Rinse Phase Duration [s].
	dr]	30 n	Drain [s].
	FP3	0	Final Pause [s].
	6£3	0	Boiler Temperature Threshold for Cycle 3.

	1DD		ΓU			
drn	Drain pa	rameters	family.			
	ldr	30	Initial Drain Phase Duration [s].			
	Fdr	100	Final Drain Phase Duration [s].			
	drt	0	Drain and cleaning mode.			
	[bd	0	Wash tank water change frequency control disabled.			
dPR	Set other parameters.					
	1PR	0	Initial Pause [s] (for ALL cycles).			
	dlУ	3	Delay for the 2 <sup>nd</sup> wash pump [s].			
	Pdr	0	Drain Phase Duration at the end of washing phase [s].			
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[ F	0	Degrees Celsius display.			
	r it	0	During the rinse stage, the display shows the boiler temperature.			
HEP	Enter int	o HCP pa	rameter family and set the following parameters.			
	SEr	1	Machine arranged for remote connection to PC.			
Switch OFF	OFF and then switch ON the machine.					
<u>GEn</u>	Enter int	o GEn pa	rameter family.			
	d In	165	Initial Detergent Dosage.			
	r In	0	Initial Rinse Aid Dosage.			
	dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.			
	r A i	51	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.			

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the  $\Gamma FL$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the **[F** family are not modified.

#### WARNING:

To limit maximum absorption at 13A (the appliance is single phase with plug 13A UK), the following must not work at the same time:

- the wash pump and tank heating element,

- the booster heating element and tank heating element.

### EPPWESGFB-EPPWEHGFB

#### Switch OFF and then switch ON the machine. 1. [FG 2. Enter into CFG parameter family and set the following parameters: ĿЧP 1 Pot Washer 60 1 ۵ Atmospheric boiler. 2 Front loading function. doo Default values for Pot Washer models. dFL 2 ۵ Disabled (for this appliance SOFT START is NOT possible). tre 1 Tank heater works only if boiler temperature reached. 6\_E ۵ **b**EF The tank is filled into the traditional way. ٠ LES Detergent level switches not enabled. 9 #1 Select user interface hood type/ undercounter model. ۵ гE Regeneration cycle disabled (only for dishwashers with non-continuous water softener). Al r 1 Alarms enabled. AAC ۵ Boiler electronic level sensor. FrG ۵ Resin regeneration cycle forcing. Srll 10 Rinse water max. hardness. ЬPо 50 Boiler heating control. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FRE Enter into FAC parameter family and set the following parameters. ЬŁГ 58 Boiler Temperature Threshold. 96 bH a Boiler temperature: alarm threshold. ьял 4 Boiler Temperature Adjust. ЬP 1 Boiler standby function enabled. 4 65E Booster Function. bŁd ٥ During stand-by boiler is kept at lower temperature than Temperature Threshold. 63 ££[ Tub Temperature: Threshold. 75 EH . Tank temperature: alarm threshold. 5. Modify the cycle parameters: [ 4 1 Cycle 1 parameters family. Lnl 2 Long Wash Phase [min]. 561 ЭЧ Short Wash Phase [s]. PR 1 4 Pause [s]. 20 ril Rinse Phase Duration [s]. dr 1 12 Drain [s]. FP 1 ۵ Final Pause [s]. [ 42 Cycle 2 parameters family. LnZ 5 Long Wash Phase [min]. 522 34 Short Wash Phase [s]. PR2 4 Pause [s]. r 12 20 Rinse Phase Duration [s]. dr 2 12 Drain [s]. FP2 ٠ Final Pause [s]. [4] Cycle 3 parameters family. Lng 8 Long Wash Phase [min]. ЭЧ 5h3 Short Wash Phase [s]. PRJ 4 Pause [s]. 20 r ið Rinse Phase Duration [s]. dr 3 12 Drain [s]. FP3 Final Pause [s]. 6£ 3 ۵ Boiler Temperature Threshold for Cycle 3.

**PROG 147** 

### **EPPWESGFB-EPPWEHGFB**

### **PROG 147**

	drn	Drain parameters family.							
		ldr	120	Initial Drain Phase Duration [s].					
		Fdr	90	Final Drain Phase Duration [s].					
		drt	drt 0 Drain and cleaning mode.						
		[Ьd	0	Wash tank water change frequency control disabled.					
		dto	48	Drain cycle Timeout.					
	dPA	Set othe	r paramete	ers.					
		(PR	2	Initial Pause [s] (for ALL cycles).					
		dlУ	3	Delay for the 2 <sup>nd</sup> wash pump [s].					
		Pdr	٥	Drain Phase Duration at the end of washing phase [s].					
		r PA							
		[ F	0	Degrees Celsius display.					
		r it	0	During the rinse stage, the display shows the boiler temperature.					
		ELE	0	Termal Label mode disabled (Functions present with firmware version 4.04).					
	HEP	Enter int	o HCP pa	rameter family and set the following parameters.					
		5Er	1	Machine arranged for remote connection to PC.					
6.	Switch OFF	and then sw	itch ON th	e machine.					
	<u>GEn</u>	Enter int	o GEn par	rameter family.					
		d In	240	Initial Detergent Dosage.					
		r In	18	Initial Rinse Aid Dosage.					
		dEt	16	Detergent dispensing during the wash cycle (loading during wash stage).					
	<b>FR 7</b> Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).								
7.	Switch OFF	and then sw	itch ON th	e machine.					

### WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the  $\Gamma FL$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the [F ] family are not modified.

	PPW	<b>ELG</b>	iFB	PROG 148
1.		and then swit		
2.	[FG		CFG pa	rameter family and set the following parameters:
		ĿУP	1	Pot Washer.
		60 I	0	Atmospheric boiler.
		doo	2	Front loading function.
		dFl	2	Default values for Pot Washer models.
		tre	0	Disabled (for this appliance SOFT START is NOT possible).
		6_£	1	Tank heater works only if boiler temperature reached.
		ЬŁF	0	The tank is filled into the traditional way.
		LES	0	Detergent level switches not enabled.
		U 1	9	Select user interface hood type/ undercounter model.
		r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
		Al r	1	Alarms enabled.
		AAC	0	Boiler electronic level sensor.
		Frū	0	Resin regeneration cycle forcing.
		5rU	10	Rinse water max. hardness.
		ЪPo	50	Boiler heating control.
3.	Switch OFF	and then swit	tch ON th	e machine.
4.		ory parameter		
	FAC			ameter family and set the following parameters.
		ьεї	58	Boiler Temperature Threshold.
		ьн ,	96	Boiler temperature: alarm threshold.
		6 <i>8</i> ј	4	Boiler Temperature Adjust.
		6Р	1	Boiler standby function enabled.
		65E	4	Booster Function.
		bt d	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFC	63	Tub Temperature: Threshold.
		EH 1	75	Tank temperature: alarm threshold.
5.	Modify the c	ycle paramet	ers:	
	[]]	Cycle 1 p	arameter	s family.
		Lal	2	Long Wash Phase [min].
		5h 1	34	Short Wash Phase [s].
		5ħ 1 PR 1	4	Short Wash Phase [s]. Pause [s].
			4 20	
		PR 1 r i 1 dr 1	4	Pause [s].
		PR 1 r 1 1	4 20	Pause [s]. Rinse Phase Duration [s].
	[ 42	PR 1 r i 1 dr 1	4 20 21 0	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s].
	[72	PR 1 r 1 dr 1 FP 1 Cycle 2 p L n2	4 20 21 0 parameter 5	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s].
	[72	PR 1 r 1 dr 1 FP 1 Cycle 2 p L n 2 Sh 2	4 20 21 0 arameter	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family.
	[72	PR 1 r 1 dr 1 FP 1 Cycle 2 p L n2	4 20 21 0 parameter 5	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min].
	[75	PR 1 r 1 dr 1 FP 1 Cycle 2 p L n 2 Sh 2	Y 20 21 Darameter 5 3Y	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s].
	[75	PR 1 r 1 dr 1 FP 1 Cycle 2 p L n 2 Sh 2 PR 2	4 20 21 0 9arameter 5 34 4	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s].
	[72	PR 1 r 1 dr 1 FP 1 Cycle 2 p L n2 Sh2 PR2 r 12	4 20 21 0 aarameter 5 34 4 20	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s].
	[73]	PR 1 r 1 dr 1 FP 1 Cycle 2 p L n2 Sh2 PR2 r 12 dr 2	4 20 21 0 arrameter 5 34 4 20 21 0	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s].
		PR 1 r 1 dr 1 FP 1 Cycle 2 p L n2 Sh2 PR2 r 12 dr 2 FP2	4 20 21 0 arrameter 5 34 4 20 21 0	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s].
		PR 1 r 1 dr 1 FP 1 Cycle 2 p L n2 Sh2 PR2 r 2 dr 2 FP2 Cycle 3 p	4 20 21 0 aarameter 34 4 20 21 0 aarameter	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family.
		PR 1 r 1 dr 1 FP 1 Cycle 2 p L n2 Sh2 PR2 r 2 dr 2 FP2 Cycle 3 p L n3	4 20 21 0 aarameter 34 4 20 21 0 aarameter 8	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min].
		PR 1 r 1 dr 1 FP 1 Cycle 2 p L n2 Sh2 PR2 r 2 dr 2 FP2 Cycle 3 p L n3 Sh3	4 20 21 0 aarameter 5 34 4 20 21 0 21 0 0 aarameter 8 34	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s].
		PR 1 r 1 dr 1 FP 1 Cycle 2 p Ln2 Sh2 PR2 r 2 dr 2 FP2 Cycle 3 p Ln3 Sh3 PR3	4 20 21 0 aarameter 34 4 20 21 0 aarameter 8 34 4 20	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s].
		PR 1 r 1 dr 1 FP 1 Cycle 2 p L n2 Sh2 PR2 r 2 dr 2 FP2 Cycle 3 p L n3 Sh3 PR3 r 3	4 20 21 0 arameter 34 4 20 21 0 0 arameter 8 34 4	Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s].

E	PPW	/ELG	iFB	PROG 148									
	drn	Drain par	ameters	amily.									
		ldr	180	Initial Drain Phase Duration [s].									
		Fdr	90	Final Drain Phase Duration [s].									
		drt	٠	Drain and cleaning mode.									
		[ьа	0	Wash tank water change frequency control disabled.									
		dto	48	Drain cycle Timeout.									
	dPA	Set other	paramet	ers.									
		1PR	2	Initial Pause [s] (for ALL cycles).									
		dl Y	Э	Delay for the 2 <sup>nd</sup> wash pump [s].									
		Pdr	0	Drain Phase Duration at the end of washing phase [s].									
		r PR	0	Duration of pause after the rinse cycle [s] (for ALL cycles).									
		[ F	0	Degrees Celsius display.									
		r it	0	During the rinse stage, the display shows the boiler temperature.									
		ELE	0	Termal Label mode disabled (Functions present with firmware version 4.04).									
	HEP	Enter into	HCP pa	rameter family and set the following parameters.									
		5Er	1	Machine arranged for remote connection to PC.									
6.	Switch OFF	and then swit	tch ON th	ne machine.									
	<u>GEn</u>	Enter into	o GEn pa	rameter family.									
		d In	240	Initial Detergent Dosage.									
		r In	18	Initial Rinse Aid Dosage.									
		dEt	16	Detergent dispensing during the wash cycle (loading during wash stage).									
		r A i	7	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).									
7.	Switch OFF	and then swit	tch ON th	ne machine.									

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

### WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the  $\Gamma FL$  family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the [F ] family are not modified.

### **11 DEFAULT VALUES**

### Default 1 - HOOD TYPE

ON/OFF + CYCLE1 keys ↓	ON/OFF + CYCLE2 keys ↓				
<b>GEn</b> → Ent	FAC $\rightarrow$ [3] $i \rightarrow$	$\begin{bmatrix} 1 & 1 & 2 \\ 1 & 2 & 2 \\ 1 & 2 & 2 \\ 1 & 2 & 2 \\ 2 & 2 & 2 \\ 2 & 2 & 2 \\ 2 & 2 &$	drn $\rightarrow$ d $^{p}$ A $\rightarrow$ ran -	$\rightarrow$ HEP $\rightarrow$ EFG	dbū
$\downarrow \qquad \downarrow$	$\downarrow$ $\downarrow$	$\downarrow$ $\downarrow$	$\downarrow$ $\downarrow$ $\downarrow$	$\downarrow$ $\downarrow$	$\downarrow$
d In: 90 [3[	bt[: 78 Ln1: 0	ind: 0 ind: 1	Idrs 40 IPRs 0 rEL	58r: 1 23P: 0	E 1: 15
r ins 10 cyc	62H: 2 Sh1: 35	Sh2: 45 Sh3: 40	Fdrs 80 dLYs 3 rLS	Rdr: 1 boi: 0	£ 2: 200
dEt: 8 rSt	68 1: 96 PR 1: 4	PR2: 4 PR3: 4	drts 0 Pdrs 0 ACC	Prn: 1 doo: 1	E 3: 15
rRis 4 nEy	blos 1 Pris 0	Pr2: 0 Pr3: 0	[bd: 0 rPR: 0 [RII	62 : 90 dFL: -	E 4: 10
drn	6FL: 5 ril: 15	r 12: 18 r 13: 18	dto: 18 [F: 0 [8	6H : 10 tre: 0	£ 5: 20
r [ 4	bAd: 4 crl: 0	erd: 0 er3: 0	rit: 0 F21	tt : 68 b.t: 1	£ 6: 20
nrE	6P : 1 dr 1: 16	dr2: 16 dr3: 16	PPL: 0	EH : 10 66F: 75	RL_: 0
r 8 S	656: 2 FP1: 0	FP2: 0 FP3: 0	[dE: 5	LES: 0	12h: 100
	btd: 0 tll: 0	£13: 1 £13: 2	ELE: O	Ul : 9	
	EEC: 63 ES1: 59	£52: 12 £53: 12	6tt: 86	r E : 0	
	EEM: S	bt3: 0	<i>ttl:</i> 75	RLr: 1	
	EN 12 75		EHE: 2	88G: 0	
	tlo: 1			FrG: O	
	EFL: 20			SrU: 10	
				6Po: 50	

### Default 2 - POT WASHER

ON/OFF + CYCLE1 keys ↓			ON/OF CYCL key: ↓	.E2																
GEn →	Ent		FAC	$\rightarrow$	[y] —	<b>&gt;</b>	[ 72	$\rightarrow$	[43	$\rightarrow$	drn	$\rightarrow$	dPA	$\rightarrow$	ran $ ightarrow$	$H[P] \rightarrow$	[FG		dbû	
$\downarrow$	$\downarrow$	1	$\downarrow$		$\downarrow$		$\downarrow$		$\downarrow$		$\downarrow$		$\downarrow$		$\downarrow$	$\downarrow$	$\downarrow$		$\downarrow$	
d In:240	[ 4[		66[:	78	Ln l:	2	Lnd:	5	ln3:	8	ldr:	40	ipa:	2	rEL	SEr:	1 EYP:	1	Ł 1:	15
r In: 18	сУс		66H:	2	5h 1:	34	ShZ:	34	5h3:	Эч	Fdr:	80	dly:	З	r L 5	Rdr :	1 601:	0	t Z:	200
dEt: 16	r St		6H (:	98	PA 1:	ч	P82:	ч	P83:	ч	drt:	8	Pdr:	۵	<i>REE</i>	Praz	1 doo:	2	Ł 3:	15
r A 12 7	n[¥		blo:	1	Pr l:	0	PrZ:	0	Pr3:	0	[bd:	8	r P R :	۵	[ #; ;	68 : 9	0 dfl:	•	E 4:	10
	drn		bFL:	5	r il:	20	r 12:	20	r 13:	20	dto:	48	[ F:	۵	[ 8	6H : 1	0 tres	0	Ł 5:	20
	-[4		68J:	ч	er la	0	erð:	0	er 3:	۵			r it :	۵	F 2 1	tt : 6	8 6.6:	1	t 6:	20
	nr E		6P :	1	dr l:	20	drZ:	20	dr3:	20			PPL:	۵		EH : 1	0 6£F:	75	RL . :	۵
	r E S		656:	ч	FP 1:	0	FPZ:	0	FP3:	۵			[dE:	5			665:	0	lth:	100
		J	błd:	0	EL 1:	۵	tlZ:	1	£13:	2			£1.E :	۵			Ul :	9		
			66T :	63	£51:	59	£52:	12	£53:	12			621:	88			rE :	0		
			<i>ttH:</i>	5					bt3:	۵			<b>ttl</b> :	75			ALr:	1		
			E H 12	75					L		L		£ #£ :	2			88G:	0		
			tla:	1									L				Früz	0		
			eft:	40													Srüz	10		
					ı												b <sup>p</sup> o:	50		

### Default 3 - UNDERCOUNTER

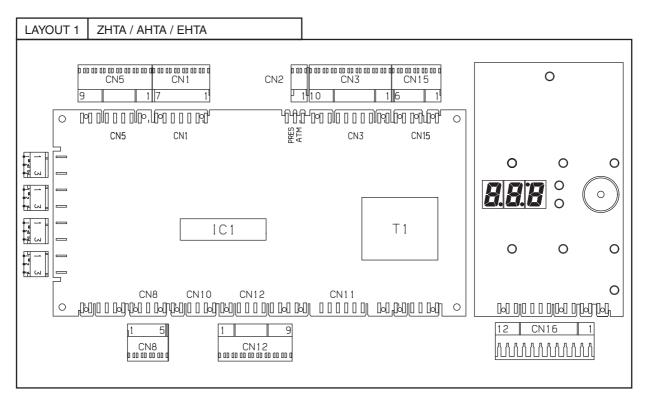
ON/OFF + CYCLE1 keys ↓		ON/OFF + CYCLE2 keys ↓																
GEn $ ightarrow$	Ent	FAC →	[]] / J	ſ	42 ·	$\rightarrow$	[73	$\rightarrow$	drn	$\rightarrow$	dPR	$\rightarrow$	ron $\rightarrow$	$H(P) \rightarrow$	[F[		d6ű	
$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	I	$\downarrow$		$\downarrow$		$\downarrow$		$\downarrow$		$\downarrow$	$\downarrow$	$\downarrow$		$\downarrow$	
d In: 50	[ 4[	62[: 8	l Lal:	1 1	nð:	1	Ln3:	3	ldr:	30	ipa:	۵	rEL	58r: 1	£4P:	0	E 1:	15
r In: 10	c Yc	btH: (	? Shi:	10 S	hð:	40	Sh3:	40	Fdrs	80	dl Y:	3	rls	Adr: 1	6012	0	t 2:	200
dEt: 8	r St	6X (: 9)	5 PR 1:	ч р	82:	ч	P83:	ч	drt:	0	Pdrs	0	<i>REE</i>	Praz 1	daa:	2	t 3:	15
r R 12 4	n[Y	blo:	1 Pr 1:	0 P	rð:	0	Pr3:	۵	[bd:	۵	r PR :	۵	[8:;	bt : 90	dfl:	-	Ł 4:	10
	drn	6FL:	a rila	16 r	12:	15	r (3:	15	dta:	18	[ F:	0	[ 8	6H : 10	tre:	1	t 5:	20
	r[¥	68J:	l er la	0 с	rð:	0	cr3:	۵			r it :	0	F 2 1	tt : 68	6.6:	1	Ł 6:	20
	nrE	6P :	1 dr 1: 3	10 d	rð:	30	dr3:	30			PPL:	0		EH : 10	btf:	75	AL . :	0
	rES	65t: (	? FP1=	0 F	P2:	0	FP3:	۵			[d{:	5			185:	۵	lth:	100
	J	btd:	3 221:	0 1	:12:	1	£13:	2			£1.E :	0			Ul :	9		
		<i>tt[:</i> 6.	8 2512 9	i9 E	52:	12	£53:	12			621:	88			r 8 :	0		
		ttH:	5				bt3:	0			<b>ととし</b> :	75			ALr:	1		
		EH 1: 7:	5				L		l		Ł XŁ :	2			AAG :	0		
		tla:	1								L				Früz	0		
		EFL: 2	7												Srll:	10		
		L													bPo:	50		

#### **USER INTERFACE AND MAIN BOARD CONNECTORS** 12

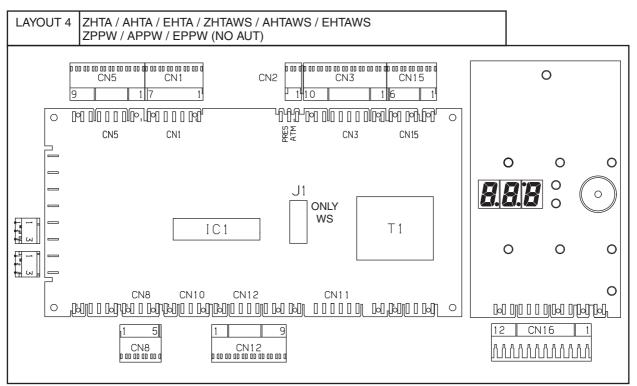
### **12.1 MAIN MALFUNCTIONS NOT DUE TO THE MAIN BOARD**

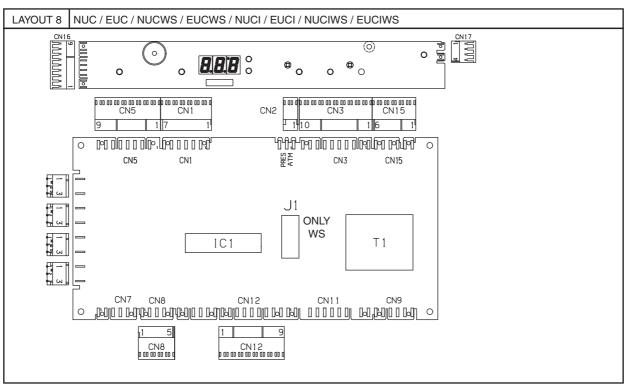
The display shows <b>[LD5E</b> with door/hood closed	Check door/hood micro/sensor						
No cycle starts	Check the user interface buttons (have they remained pressed? etc.)						
A cycle fails to start	Is a user interface button extension missing?						
After replacing the main board only the 3 <sup>rd</sup> cycle starts	The main board is still configured for LS5/WT4.						
Cycle time longer than that foreseen	Does the boiler work? Is the feed water at 50°C?						
Noisy wash pump (only on HT and PP versions)	Check the current for single phase during operation.						

### **12.2 CONNECTORS LAYOUT**



- CN1 Rinse pump/wash pump/solenoid valve outputs
- CN2 Pressure/atmospheric dishwasher solenoid valve connection
- CN3 Detergent/rinse aid dispenser and drain pump outputs
- CN5 Tank/boiler temperature sensor inputs
- CN8 Energy peak controller input
- **CN12** User interface inputs/outputs
- **CN15** Overflow/tank level/board feed input
- **CN16** User interface inputs/outputs and hood/door sensor input

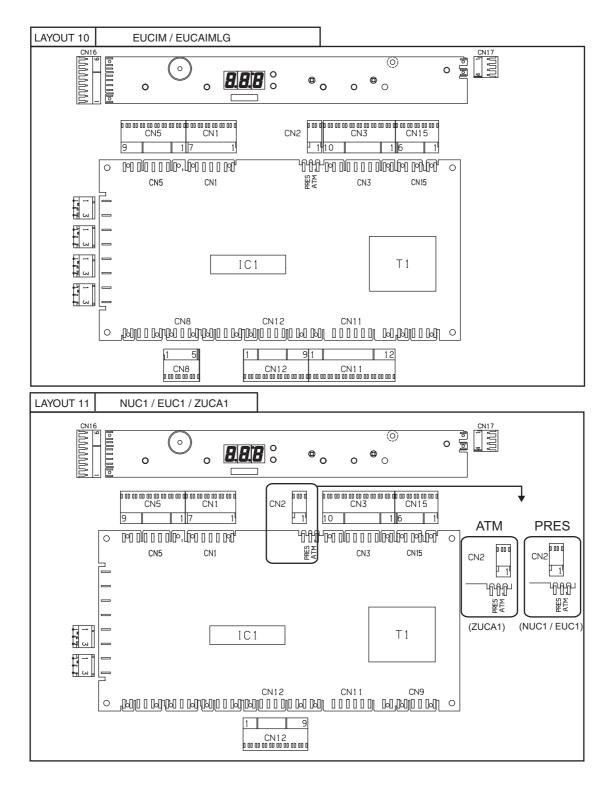




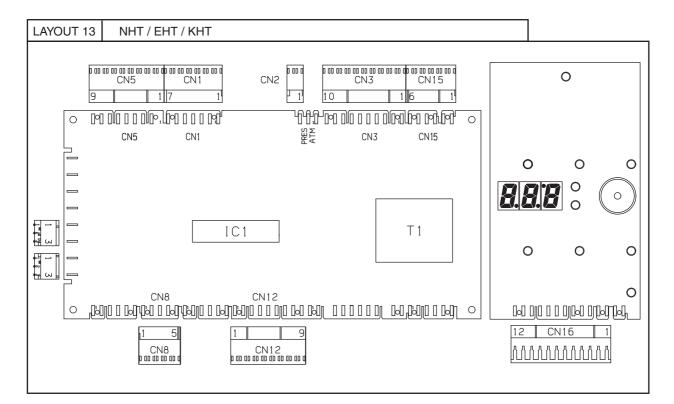
CN1 Rinse pump/wash pump/solenoid valve outputs

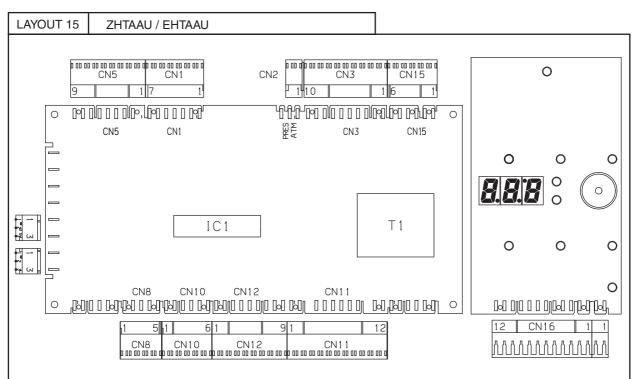
- CN2 Pressure/atmospheric dishwasher solenoid valve connection
- CN3 ECOTEMP transformer, detergent/rinse aid dispenser and drain pump outputs
- **CN5** Tank/boiler temperature sensor inputs
- CN7 Hand safety system microswitch input
- CN8 Energy peak controller input
- **CN10** Safety and upper/lower limit switch input
- CN11 Hand safety system input Gear motor current control input Gear motor polarity inversion connection
- **CN12** User interface inputs/outputs
- CN15 Overflow/tank level/board feed input
- CN16 User interface inputs/outputs and hood/door sensor input

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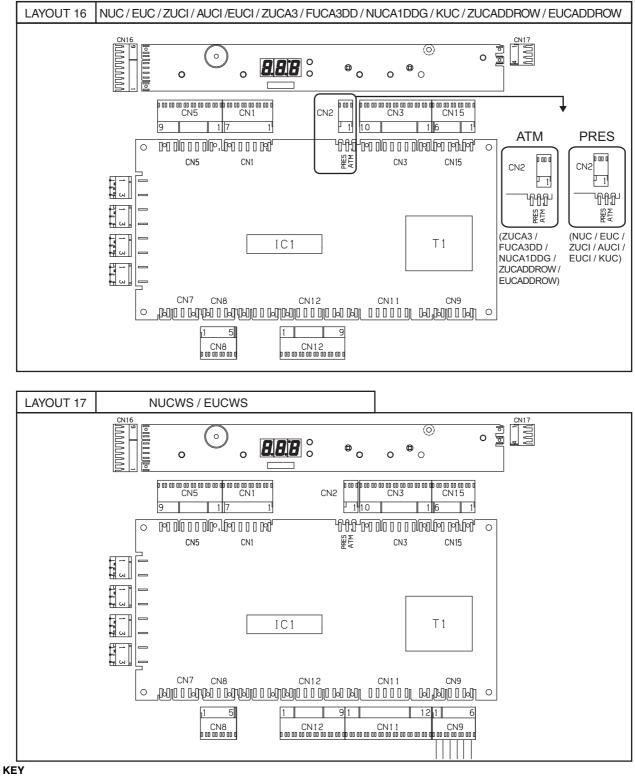


- CN1 Rinse pump/wash pump/solenoid valve outputs
- CN2 Pressure/atmospheric dishwasher solenoid valve connection
- CN3 Detergent/rinse aid dispenser and drain pump outputs
- CN5 Tank/boiler temperature sensor inputs
- CN8 Energy peak controller input
- **CN11** Door lock electromagnet output
- **CN12** User interface inputs/outputs
- **CN15** Overflow/tank level/board feed input
- **CN16** User interface inputs/outputs and hood/door sensor input
- **CN17** Door microswitch connector

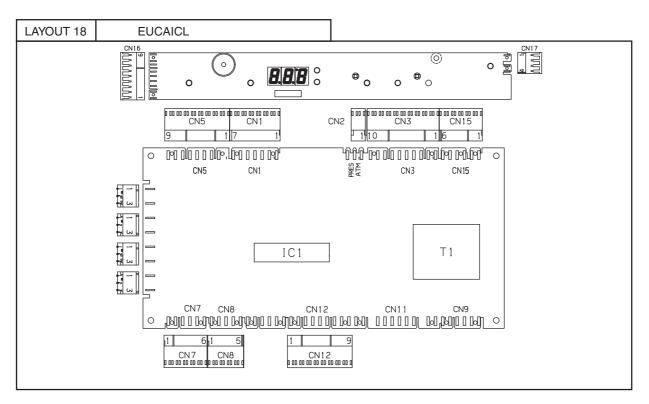


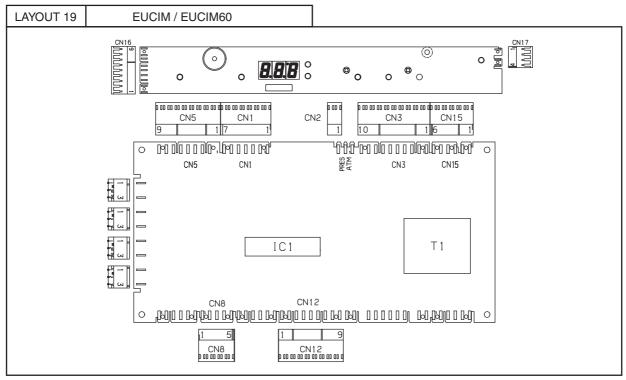


- **CN1** Rinse pump/wash pump/solenoid valve outputs
- CN2 Pressure/atmospheric dishwasher solenoid valve connection
- CN3 ECOTEMP transformer, detergent/rinse aid dispenser and drain pump outputs
- CN5 Tank/boiler temperature sensor inputs
- CN8 Energy peak controller input
- CN11 Hood lock electromagnet output
- **CN12** User interface inputs/outputs
- CN15 Overflow/tank level/board feed input
- CN16 User interface inputs/outputs and hood/door sensor input



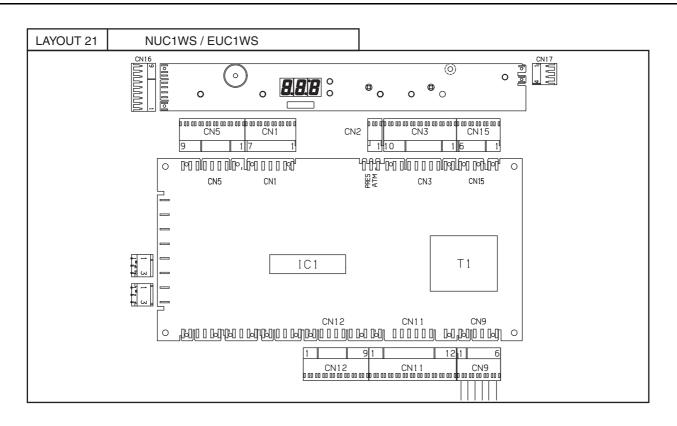
- CN1 Rinse pump/wash pump/solenoid valve outputs
- CN2 Pressure/atmospheric dishwasher solenoid valve connection
- CN3 Detergent/rinse aid dispenser and drain pump outputs
- CN5 Tank/boiler temperature sensor inputs
- **CN8** Energy peak controller input
- CN9 Salt receptacle drain pump and low pressure solenoid valve outputs
- **CN11** Brine solenoid valve output
- **CN12** User interface inputs/outputs
- CN15 Overflow/tank level/board feed input
- CN16 User interface inputs/outputs and hood/door sensor input
- **CN17** Door microswitch connection

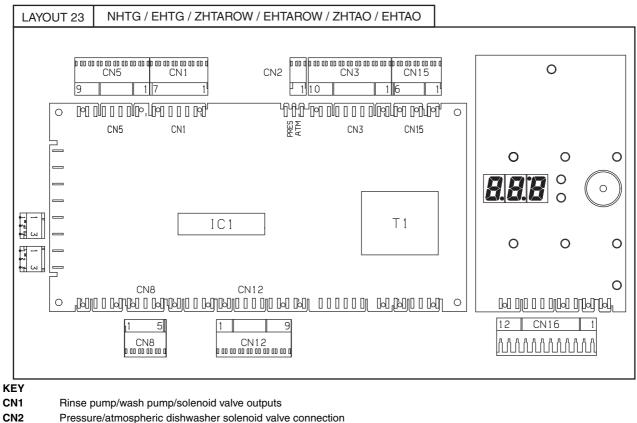




- CN1 Rinse pump/wash pump/solenoid valve outputs
- CN2 Pressure/atmospheric dishwasher solenoid valve connection
- CN3 Detergent/rinse aid dispenser and drain pump outputs
- CN5 Tank/boiler temperature sensor inputs
- CN7 Detergent/rinse aid level sensors input
- CN8 Energy peak controller input
- **CN12** User interface inputs/outputs
- **CN15** Overflow/tank level/board feed input
- **CN16** User interface inputs/outputs and hood/door sensor input
- **CN17** Door microswitch connection

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- CN3 Detergent/rinse aid dispenser and drain pump outputs
- CN5 Tank/boiler temperature sensor inputs
- Energy peak controller input CN8
- CN9 Salt receptacle drain pump and low pressure solenoid valve outputs
- **CN11** Brine solenoid valve output
- **CN12** User interface inputs/outputs
- **CN15** Overflow/tank level/board feed input
- **CN16** User interface inputs/outputs and hood/door sensor input
- **CN17** Door microswitch connection

#### ALARM MESSAGES AND TROUBLESHOOTING 13

### **13.1 ALARMS THAT STOP THE DISHWASHER**

R	1	Want of water
		Is the water cock open?
		Does the water load solenoid valve work?
		Is the water feed flow a min. of 5 l/min?
		Is the water inlet filter clean?
		Is the load solenoid valve filter clean?
		Is the overflow inserted?
		Is the main board (ATM-PRES) CN2 connector correctly positioned?
		Do the tank/boiler pressure switches work properly?
	<b>.</b>	
Ĺ	8	Rinsing is not done regularly for 2 consecutive cycles
		Are the rinse arms clogged?
		Does the rinse pump work correctly?
		Is there water in the level sensor tube?
		Is there scale in the boiler?
		Does the boiler level sensor work properly?
		ONLY FOR MACHINES WITH CONTINUOUS WATER SOFTENER:
		Does the boiler level sensor located inside the water softener work properly?
		Does the float of the boiler level sensor, located inside the water softener, work properly? Is it free to move upwards and downwards and vice versa?
		Is the connection from the boiler level sensor to the main board efficient?
		<b>ATTENZIONE</b> : RESETTING THIS ALARM WITHOUT FIRST ELIMINATING THE CAUSE IS DANGEROUS; THE BOILER HEATING ELEMENTS COULD WORK DRY, FURTHER DAMAG-ING THE INTERNAL PARTS OF THE DISHWASHER.
		<b><u>ATTENZIONE</u>:</b> $\mathcal{L}$ <b>B</b> IT MUST BE MANUALLY RESET AFTER ELIMINATING THE CAUSE OF THE MALFUNCTION.
[	3	Automatic hood out of order
		See par. 13.1.1 ALARM CODES FOR AUTOMATIC HOOD TYPE DISHWASHERS.

### 13.1.1 ALARM CODES FOR AUTOMATIC HOOD TYPE DISHWASHERS

When the alarm **[**3] appears, to facilitate fault-finding another parameter providing a more detailed indication has been introduced.

The parameter is  $\mathcal{R}_{L}$  and is found in the  $db \tilde{b}$  family.

The possible cause of the anomaly can be found (see table below) ?according to the value of the parameter RL.

With pot washers the cause that generated a  $b \vec{J}$  type alarm can also be found.

E.g.: With an automatic hood type the alarm  $\mathcal{L}$   $\mathcal{G}$  appears.

Access the parameter  $\mathcal{RL}$  in the  $db\mathcal{L}$  family.

 $\mathcal{R}$   $\mathcal{S} \Rightarrow$  the top limit switch could be disconnected or interrupted.

	Hood	Pot Washer			
	S3: FC_DW (hood CLOSE)	54" { 54" 54" 54" 55" } 54" { 54" 54" 54 53 53 53"			
RL_ 1	Appears with hood closed if the top limit switch (FC_UP) cuts in.	Appears with hood closed, if: - the bottom limit switch (S3) returns to the rest position; - the top limit switch (S5) cuts in; - S3" does not cut in.			
RL_2	During lifting, the bottom limit switch (FC_DW) has not returned to the rest position. The limit switch must return to the rest position within a time given by the parameter $\xi = \frac{5}{2}$ : a) check that the motor works.	<ul> <li>b J</li> <li>During the initial lifting phase the bottom limit switch (S3) must return to the rest position within a time given by the parameter b - 5? otherwise the alarm b J appears.</li> <li>S3 could be stuck.</li> <li>S5' could be disconnected.</li> <li>On installation this alarm can occur due to incorrect sequence of the phases: invert the two phases on the power supply terminal board</li> </ul>			
AL_3		Appears if during lifting S3" does not return to the rest position within a time $k = l$ .			
AL_4	Appears if the bottom limit switch (FC_DW) cuts in during lifting. (Polarity/motor rotation direction inverted?!).	<b>b 3</b> Appears if the bottom limit switch (S3) cuts in during lifting. On installation this alarm can occur due to incorrect sequence of the phases: invert the two phases on the power supply terminal board.			

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RL_5	<b>TIMEOUT-</b> The time taken for hood lifting was more than the time fixed by parameter $\boldsymbol{\xi} \in \boldsymbol{\xi}$ : a) check that the motor works.	<b>TIMEOUT-</b> IThe time taken for lifting was more than the time fixed by parameter $\boldsymbol{k} \in \boldsymbol{k}$ . Check correct operation of the: a) motor (thermal protection N7); b) top limit switch (S5 and S5').
AL_6	The hood is open but the bottom limit switch (FC_DW) has cut in.	Appears with hood fully open, if: - the limit switch (S5) returns to the rest posi- tion; - the bottom limit switch (S3) cuts in; - S3" cuts in.
AL_7	Appears if with hood fully open the "door closed" microswitch cuts in.	Appears if with hood fully open the "door closed" microswitch cuts in. - S5 could be disconnected.
AL _ 8	During lowering, the top limit switch (FC_UP) has not returned to the rest position. The limit switch must return to the rest position within a time given by parameter <b>b</b> : a) check that the motor works; b) (Polarity/motor rotation direction inverted?!)	<ul> <li>b 3</li> <li>During the initial lowering phase the top limit switch (S5) must return to the rest position within a time given by the parameter b otherwise the alarm b 3 appears.</li> <li>S5 could be stuck.</li> <li>S3' could be disconnected.</li> <li>On installation, this alarm can occur due to incorrect sequence of the phases: invert the two phases on the power supply terminal board.</li> </ul>
RL_9	-	Appears if the bottom limit switch S3 cuts in before S3" during lowering.
AL_ 10	Appears if the top limit switch (FC_UP) cuts in dur- ing lowering. (Polarity/motor rotation direction inverted?!).	<ul> <li>Appears if the top limit switch (S5) cuts in during lowering.</li> <li>On installation, this alarm can occur due to incorrect sequence of the phases: invert the two phases on the power supply terminal board.</li> </ul>
AL_11	<b>TIMEOUT-</b> The time taken for hood closing was more than the time fixed by parameter $\boldsymbol{k} = \boldsymbol{k}^{T}$ : a) check that the motor works.	<b>TIMEOUT-</b> The time taken for lowering was more than the time fixed by parameter $\xi \in \mathcal{Z}$ . - S3' could be disconnected.
RL_ 12	-	Appears during hood lowering if, after S3" cuts in, the bottom limit switch S3 does not cut in within the time fixed by parameter $\xi$ 3.

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AL_ 13	-	The two hand safety contacts K and K' must be both closed or both open. If this does not occur the alarm appears. - One of the two relays (K or K') could be stuck or disconnected. (See parameter $k = 4$ )
AL_ 14	Limit switch combination not allowed: top limit switch (FC_UP) and bottom limit switch (FC_DW) activated at the same time!	Limit switch combination not allowed. Appears if one of the following combina- tions occurs: - top limit switch (S5) and bottom limit switch (S3) both activated (S3 and S5 could be dis- connected); - top limit switch S5 and S3" both cut in; - bottom limit switch (S3) cut in but not S3".
AL _ 20	During lifting, the current absorbed by the lifting motor has exceeded the threshold (see parameter <i>it h</i> ): a) excessive mechanical force during lifting	-
AL 21	During lowering, the current absorbed by the lifting motor has exceeded the threshold (see parameter	-
AL_22 AL_23 AL_24 AL_24 AL_25	The hood should be stopped but the card detects a high current absorption by the lifting motor: the relay RL18/RL19 could be stuck; feeder connector CN32 could be disconnected.	-

### **13.2 ALARMS THAT DON'T STOP THE DISHWASHER**

(SHOWN ON THE USER INTERFACE AT REGULAR INTERVALS)

### WARNING:

Alarms marked with the  $\Theta$  symbol from Serial Number <u>821</u> have become alarms which do not lock the machine.

占	1	Drain not efficient
		Has the overflow been removed?
		Is the water drain blocked?
		Is the drain pump blocked?
		Are the air trap and tank pressure switch clean?
		Is there a constriction in the drain tube?
		Is the pump breather pipe returning to the tank clogged or constricted?
		Does the tank pressure switch work properly?
		Is there a hole in the drain tube (only for versions with drain pump)?
4	2	Overflow alarm
		Is the water drain blocked?
		Are the air trap and tank pressure switch clean?
		Does the tank pressure switch work properly?
		Is the load solenoid valve blocked? (E1 - LOAD_EV)
		Is the load solenoid valve relay stuck? (RL8 - LOAD_EV)

Θ	Ľ	1	Boiler temperature rise too fast
			Does the boiler level sensor work properly? The boiler could be empty. Are non-original power resistances installed?
Θ	[	Ż	Boiler temperature too high
			Has the boiler temperature been changed (
			Has the software alarm value been modified ( $a \not \prec \prime$ )?
			Does the boiler level sensor work properly?
			Is the boiler relay stuck (see RL2, RL3, RL4)?
Θ	[	3	Tank temperature too high
			Is the feed water above 60°C?
			Has the software alarm value been modified ( ${}^{{}_{\!$
			Is the rinse water temperature too high?
			Is the tank relay stuck (RL5 - TUB_HEAT)?
Θ	[	4	Tank temperature sensor out of order
			Is the temperature sensor broken or disconnected (NT1)?
			Is the temperature sensor connector correctly inserted?
Θ	[	5	Tank temperature sensor out of order
_			Is the temperature sensor short-circuited (NT1)?

Θζ	5	Boiler temperature sensor out of order
		Is the temperature sensor broken or disconnected (NT2)? Is the temperature sensor connector correctly inserted?
Θζ	7	Boiler temperature sensor out of order
		Is the temperature sensor short-circuited (NT2)?
ΘĹ	13	Rinse temperature sensor out of order (only on machines with temperature sensor on the rinse circuit)
		Is the temperature sensor broken or disconnected? Is the temperature sensor connector correctly inserted?
ΘĹ	11	Rinse temperature sensor out of order (only on machines with temperature sensor on the rinse circuit)
		Is the temperature sensor short-circuited?

Alarms **[ 2**, **[ b** and **[ 7** lock the boiler temperature control. Alarms **[ 3**, **[ 4** and **[ 5** lock the tank temperature control.

In the case of alarms **[ 5** and **[ 7**, the boiler waiting phase is not executed (the rinse may be performed with cold water) and, during the initial warm-up and subsequent rinses ( b t F > 0 ), the boiler heating

phase is not executed. In the case of an open probe error ( $\boldsymbol{L} = \boldsymbol{H}, \boldsymbol{L} = \boldsymbol{b} \in \boldsymbol{L} = \boldsymbol{I} \boldsymbol{B}$ ), the displayed temperature is 10°C In the case of a shorted probe error (**£** 5, **£** 7 e **£** 11), the displayed temperature is 99°C.

E 1	Communication error
	Is the connection between main board and control panel correct? Are the connectors correctly connected? Are connector contacts clean?
E 2	Tank temperature low
	Does the tank heating element work properly? Are the connectors correctly connected? Are the dishwasher feed voltage and current correct? Is the relay RL5 on the board disconnected or faulty?
E 3	Boiler temperature low Does/do the boiler heating element/s work properly?
	<ul> <li>Are the connectors correctly connected?</li> <li>Does the possible remote control switch connected to the heating element work correctly?</li> <li>Is there power at the remote control switch input terminals?</li> <li>Does relay RL2 on the board work properly?</li> <li><u>CAUTION</u>: IF THERE IS A MALFUNCTION ON RELAY RL2 AND THE BOILER HEATING ELEMENTS ARE FED BY MEANS OF A REMOTE CONTROL SWITCH, THE BOARD DOES NOT HAVE TO BE REPLACED; JUST MOVE THE BOILER HEATING ELEMENT CONNECTOR TO ONE OF THE TWO FREE POSITIONS ON THE BOARD.</li> <li><u>CAUTION</u>: WHEN ONE BRANCH OF THE HEATING ELEMENT DOES NOT WORK AND THE OTHER TWO CONTINUE TO FUNCTION, ON REACHING THE SET TEMPERATURE VALUE ALARM 3 DISAPPEARS AND REAPPEARS IN THE SUBSEQUENT RINSE PHASE. THIS</li> </ul>

### 13.3 ALARMS THAT DON'T STOP THE DISHWASHER FOR MODELS WITH **INCORPORATED CONTINUOUS WATER SOFTENER**

If alarm F2 for F22 appears, the machine indicates it on the display at regular intervals and auto-configures itself in the same way as a machine without water softener. Resin regeneration cycles are not performed and the column used for filling is always the same (column B).

Alarm  $\mathcal{F} \neq \mathcal{I}$  is reset when the machine is switched off and on from the mains switch (only if the causes that generated it have been eliminated).

Alarm FZZ is reset when the machine is switched off and on from the user interface or from the main switch (only if the causes that generated it have been eliminated).

### WARNING:

### Alarms marked with the $\Theta$ symbol from Serial Number <u>821</u> have become alarms which do not lock the machine.

<b>Θ Ϝ Ζ Ι</b>	Water softener operation errors
	This alarm appears in case of malfunctioning in the continuous water softener.
	To reset error $\mathbf{F} 2 \mathbf{i}$ it is necessary to disconnect and reconnect the main power supply to the machine by means of the main switch on the external power board.
<u>₀                                    </u>	Communication errors between the mother board and soft- ener board
	This alarm appears in case of problems in communication between the mother board and water softener board; check the connection between mother board connector J1 and water softener connector ST8

To facilitate the finding of faults signalled by alarm  $\mathcal{F} \mathcal{F}$ , another parameter providing a more detailed indication of the possible cause of malfunction has been introduced in the **r an** family (see table below).

### To reset error $\frac{F}{2}$ it is necessary to disconnect and reconnect the main power supply to the machine by means of the main switch on the external power board.

FZ	1	1	Water softener conductivity sensor short-circuit
			Two or more water softener conductivity sensors are short-circuited. Check the connections between the water softener board and sensors, replacing the connection wiring if necessary.
۶Z	1	Z	Water softener conductivity sensors open
			One or more water softener conductivity sensors are disconnected. Check the connections between the water softener board and sensors, replacing the connection wiring if necessary.
۶Z	1	3	Resin temperature sensor malfunction
			Replace the water softener electronic board.

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FZ: 4	Water softener electronic board malfunction
	Replace the water softener electronic board.
FZ ( 9	Salt water filling malfunction
( <b>F 같 /  율 up to</b> version 4.01)	The salt water container in the water softener was not completely filled within the set max. filling time. Make sure: - the water cock is open - the water filling solenoid valve works correctly - the salt container solenoid valve works correctly - the feed water pressure is at least 50 kPa / 0.5 bar - the water inlet filter is clean - the water inlet filter is clean - the salt container cap is properly closed - the mother board (ATM-PRES) connector CN2 is correctly positioned - the water softener board connector ST5 is correctly positioned - the grille on the bottom of the salt container is clogged with dirt.
F21 10	Inefficient resin washing
	After carrying out the maximum permissible number of resin washes, the resins are not suf- ficiently cleaned by the salt water used to regenerate them. Make sure: - the water filling solenoid valve works correctly - the feed water pressure is at least 50 kPa / 0.5 bar - the water inlet filter is clean - the filling solenoid valve filter is clean - the mother board (ATM-PRES) connector CN2 is correctly positioned.

### **14 LIST OF PARAMETERS FOR SUBSEQUENT VERSIONS**

The parameters listed below, even if present inside the software, cannot be used in appliances currently in production.

Family *GEn*:

- parameter REd
- value dEE : 183

Family 52 r

Family [FG - alarm FB

• parameter **RRL**, the maximum value it can be set to is 3, but actually the only significant values are 0 and 1. By setting 885 to 3, alarm F8 may appear, also implemented by the firmware, but not used in any current application.

