

PRELIMINARY

SERVICE MANUAL

AMX(X) / AUXX / AUP SERIES

STARTING FROM SERIAL NO 8658 0001



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1. STANDARD MODELS – OVERVIEW

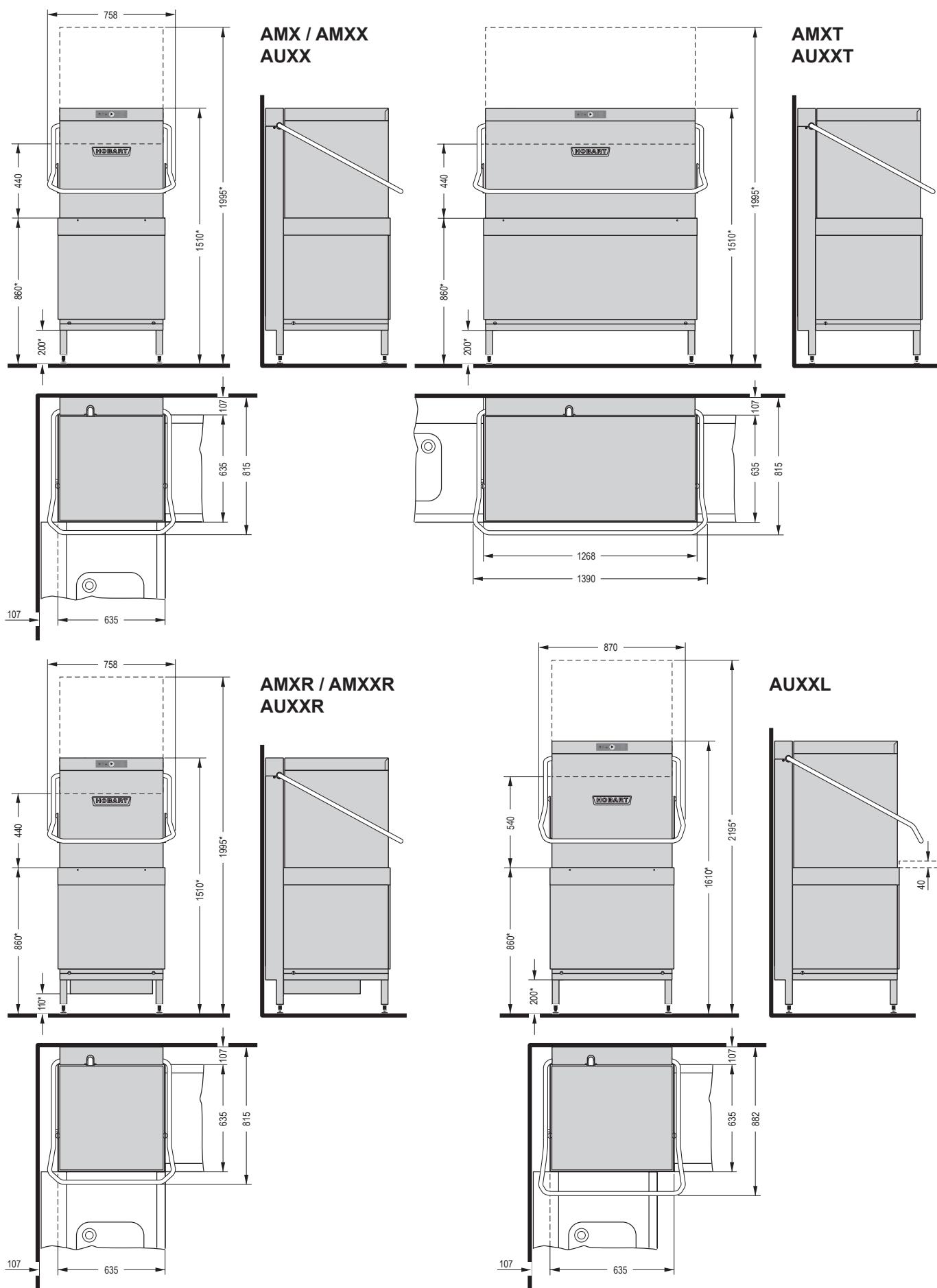
| TYP | NO. | DEVICE CODE | EPROM | PROGRAM NO | |
|-----------------|-----|-------------|------------|------------|---|
| AMX | 1 | AMX-10 | 897547-004 | 1 | |
| | 2 | AMXS-10 | 897547-004 | 2 | |
| | 3 | AMX-16 | 897547-004 | 1 | |
| | 4 | AMXS-16 | 897547-004 | 2 | |
| | 5 | AMX-20 | 897547-004 | 1 | |
| | 6 | AMX-220 | 897547-004 | 1 | |
| | 7 | AMXR-16 | 897547-004 | 3 | |
| | 8 | AMXRS-16 | 897547-004 | 4 | |
| | 9 | AM900-10N | 897547-004 | 25 | |
| | 10 | AMS900-10N | 897547-004 | 26 | |
| AMXX | 11 | AMXX-10 | 897547-004 | 5 | |
| | 12 | AMXXS-10 | 897547-004 | 6 | |
| | 13 | AMXX-141 | 897547-004 | 5 | |
| | 14 | AMXX-31 | 897547-004 | 5 | |
| | 15 | AMXXS-31 | 897547-004 | 6 | |
| | 16 | AMXXS-NAV | 897547-004 | 6 | |
| | 17 | AMXX-210 | 897547-004 | 5 | |
| | 18 | AMXX-211 | 897547-004 | 5 | |
| | 19 | AMXX-215 | 897547-004 | 5 | |
| | 20 | AMXX-220 | 897547-004 | 5 | |
| | 21 | AMXX-221 | 897547-004 | 5 | |
| | 22 | AMXX-225 | 897547-004 | 5 |  |
| | 23 | AMXXR-30 | 897547-004 | 7 | |
| AUXX | 24 | AUXX-10 | 897547-004 | 9 | |
| | 25 | AUXXS-10 | 897547-004 | 10 | |
| | 26 | AUXX-141 | 897547-004 | 9 | |
| | 27 | AUXX-31 | 897547-004 | 9 | |
| | 28 | AUXXS-31 | 897547-004 | 10 | |
| | 29 | AUXXR-30 | 897547-004 | 11 | |
| AUP (Premax) | 30 | AUP-31 | 897547-004 | 13 | |
| | 31 | AUPS-31 | 897547-004 | 14 | |
| | 32 | AUPR-31 | 897547-004 | 15 | |
| | 33 | AUPRS-31 | 897547-004 | 16 | |
| ...XT | 34 | AMXT-10N | 897547-004 | 17 | |
| | 35 | AMXTS-10N | 897547-004 | 18 | |
| | 36 | AUXXT-10N | 897547-004 | 21 | |
| | 37 | AUXXTS-10N | 897547-004 | 22 | |
| AUXXL | 38 | AUXXL-11N | 897547-004 | 9 | |
| | 39 | AUXXLS-11N | 897547-004 | 10 | |

DEVICE CODE EXPLANATION

AMX = alternating current pump, single wash arm
AMXX = three-phase pump, double wash arm (cross)
AUXX = with high pressure as option
AUP = PREMAX model

T = Twin model
R = with heat Recovery
S = with integrated Softener
L = Large model (height & width)
NAV = Marine version

2. MACHINE DIMENSIONS



3. INSTALLATION

3.1 ELECTRICAL CONNECTION

The machines will be supplied as standard with cable H07RN-F 5G 2.5 mm² (cable length approx. 2.5 m from cable gland).

The supply cord must be connected via a cut-off device (isolating switch or accessible plug device).

According to EN 60 335 the appliance must be connected to an equipotential conductor.

The connecting screw () is located beside the cable inlet.

3.2 WATER CONNECTION

The machines must be operated with potable water.

For water with an extremely high mineral content an external demineralisation is strongly recommended.

Ideal conductivity value for washware made of stainless steel 80 µS/cm, for glasses 100 µS/cm and for dishes 200 to 400 µS/cm

Machines without softener:

The machine should be connected to soft and if possible warm water (up to 3 °dh = 0.5 mmol/l, **max. 60°C**).

Machines with softener:

The machine should be connected to warm water if possible (**max. 60°C**).

Softener has to be adjusted according to water hardness.

Line flow pressure 0.5 – 10 bar.

Important: the line flow pressure must not be less than 0.5 bar.

If the line flow pressure is above 10 bars provide pressure reducer at source.

Connect the union nut "A" (3/4") of the water supply hose to the site shut off valve.

Do not kink or cut the supply hose. Eventually needed extension has to be provided with a suitable pressure hose (e.g. 324088-1).

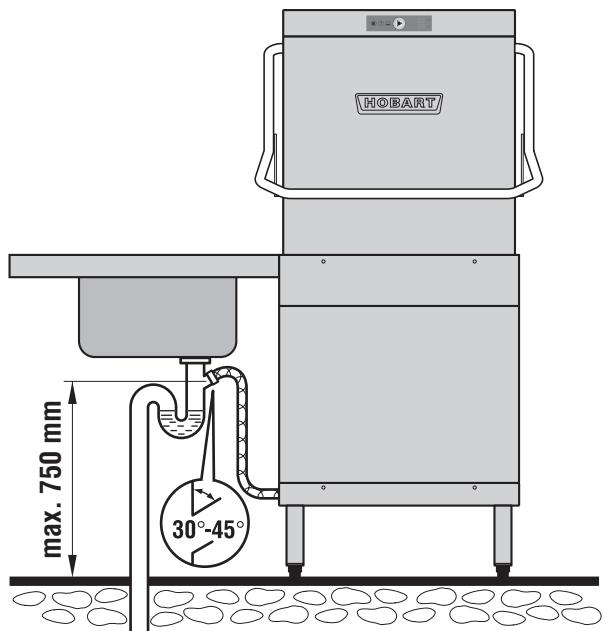
3.3 DRAIN CONNECTION

Connection between machine and site drain must not exceed the specified height of **max. 0.75 m**.

Do not kink the drain hose.

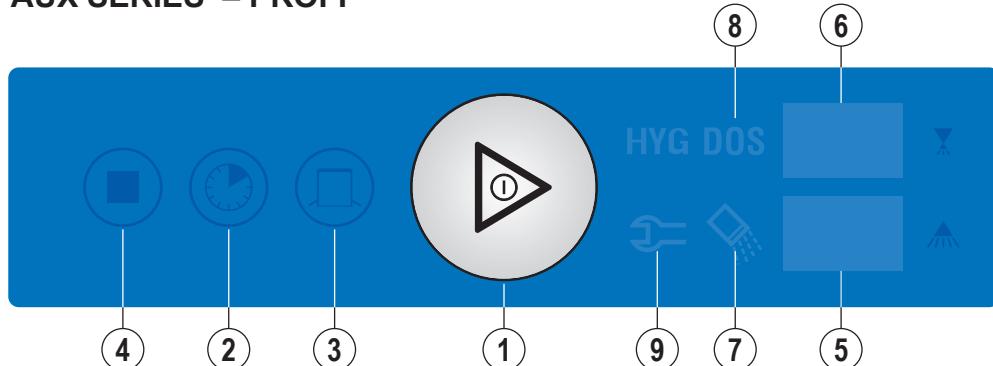
Do not place the drain hose loosely on the floor (the hose could be rubbed through).

Fix it at site!



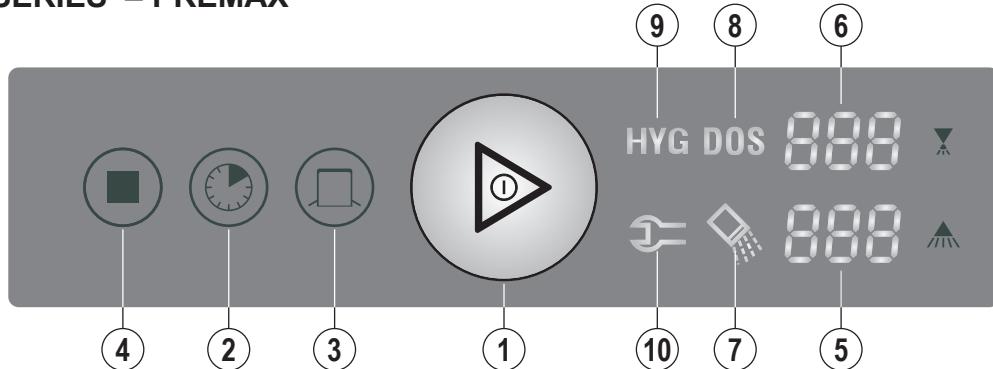
4. SMARTTRONIC CONTROLS

4.1 AMX / AUX SERIES – PROFI



| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--------------|------------|------------------------------------|--------------|-------------|---|-------------|-------------|--|-------------|------------|---------------------------------|------------|-------------|---|------------------|----------------------|-----------------------|-----------------|----------------------|-----------------------------|
| 1 Machine ON/OFF | Pushing this button switches the dishwasher on. DRAIN | By pushing and holding (3 s) this button, the drain and self cleaning cycle starts. Once the drain cycle has completed the machine switches off automatically. After switch off, the machine is not voltage free! | | | | | | | | | | | | | | | | | | | | | |
| | | The button illuminates to indicate the mode of the machine: <table> <tbody> <tr> <td>GREEN</td> <td>(flashing)</td> <td>= machine fills and starts heating</td> </tr> <tr> <td>GREEN</td> <td>(permanent)</td> <td>= ready for operation (softener test U03)</td> </tr> <tr> <td>BLUE</td> <td>(permanent)</td> <td>= wash cycle is running (basic data U02)</td> </tr> <tr> <td>BLUE</td> <td>(flashing)</td> <td>= machine draining / switch-off</td> </tr> <tr> <td>RED</td> <td>(permanent)</td> <td>= critical failure (machine type setting U01)</td> </tr> <tr> <td>GREEN/RED</td> <td>(alternate flashing)</td> <td>= noncritical failure</td> </tr> <tr> <td>BLUE/RED</td> <td>(alternate flashing)</td> <td>= negative pressure failure</td> </tr> </tbody> </table> | GREEN | (flashing) | = machine fills and starts heating | GREEN | (permanent) | = ready for operation (softener test U03) | BLUE | (permanent) | = wash cycle is running (basic data U02) | BLUE | (flashing) | = machine draining / switch-off | RED | (permanent) | = critical failure (machine type setting U01) | GREEN/RED | (alternate flashing) | = noncritical failure | BLUE/RED | (alternate flashing) | = negative pressure failure |
| GREEN | (flashing) | = machine fills and starts heating | | | | | | | | | | | | | | | | | | | | | |
| GREEN | (permanent) | = ready for operation (softener test U03) | | | | | | | | | | | | | | | | | | | | | |
| BLUE | (permanent) | = wash cycle is running (basic data U02) | | | | | | | | | | | | | | | | | | | | | |
| BLUE | (flashing) | = machine draining / switch-off | | | | | | | | | | | | | | | | | | | | | |
| RED | (permanent) | = critical failure (machine type setting U01) | | | | | | | | | | | | | | | | | | | | | |
| GREEN/RED | (alternate flashing) | = noncritical failure | | | | | | | | | | | | | | | | | | | | | |
| BLUE/RED | (alternate flashing) | = negative pressure failure | | | | | | | | | | | | | | | | | | | | | |
| 2 Program button | | By pushing this button it is possible to select between different preset programs, according to model and equipment. The program no. will be shown in the upper Display. | | | | | | | | | | | | | | | | | | | | | |
| 3 High pressure / Service button | | AUXX(L/T) models only: Activation of high pressure cleaning. Never use for cleaning glasses and light dishes (breakage) ! | | | | | | | | | | | | | | | | | | | | | |
| 4 Stop button | | In case of operating error or faults, it is possible to switch-off the machine immediately without drain cycle, by pushing this button. After switch off, the machine is not voltage free! | | | | | | | | | | | | | | | | | | | | | |
| 5 Temperature Wash (°C) | | Temperatures are only displayed when the program button is pushed for minimum 3 seconds . The indicators go out 10 seconds after releasing program button . | | | | | | | | | | | | | | | | | | | | | |
| 6 Temperature Rinse (°C) | | Permanent temperature display can be activated (set U02 S15 to "1"). | | | | | | | | | | | | | | | | | | | | | |
| 7 Salt required | | Indicates the need for regeneration salt to be added. (Only with built-in softener.) | | | | | | | | | | | | | | | | | | | | | |
| 8 Detergent / Rinse aid indicator | | Indicates detergent (CH1) or rinse aid (CH2) deficiency. | | | | | | | | | | | | | | | | | | | | | |
| 9 Service indicator | | This symbol indicates that the dishwasher has developed a fault. In the rinse temperature display appears a code (see page 34 to 36). | | | | | | | | | | | | | | | | | | | | | |

4.2 AUP SERIES – PREMAX



| | | | | | | | | | | | |
|--|---|--------------|---|-------------|--|------------------------|---|---------------------------------------|-----------------------|--------------------------------------|-----------------------------|
| 1 Machine ON/OFF DRAIN | <p>Pushing this button switches the dishwasher on.</p> <p>By pushing and holding (3 s) this button, the drain and self cleaning cycle starts. Once the drain cycle has completed the machine switches off automatically.</p> <p>After switch off, the machine is not voltage free!</p> <p>The button illuminates to indicate the mode of the machine:</p> <table border="0"> <tr> <td>GREEN</td><td>= ready for operation (softener test U03)</td></tr> <tr> <td>BLUE</td><td>= wash cycle is running (basic data U02)</td></tr> <tr> <td>RED (permanent)</td><td>= critical failure (machine type setting U01)</td></tr> <tr> <td>GREEN/RED (alternate flashing)</td><td>= noncritical failure</td></tr> <tr> <td>BLUE/RED (alternate flashing)</td><td>= negative pressure failure</td></tr> </table> | GREEN | = ready for operation (softener test U03) | BLUE | = wash cycle is running (basic data U02) | RED (permanent) | = critical failure (machine type setting U01) | GREEN/RED (alternate flashing) | = noncritical failure | BLUE/RED (alternate flashing) | = negative pressure failure |
| GREEN | = ready for operation (softener test U03) | | | | | | | | | | |
| BLUE | = wash cycle is running (basic data U02) | | | | | | | | | | |
| RED (permanent) | = critical failure (machine type setting U01) | | | | | | | | | | |
| GREEN/RED (alternate flashing) | = noncritical failure | | | | | | | | | | |
| BLUE/RED (alternate flashing) | = negative pressure failure | | | | | | | | | | |
| | <p>The status of the program is indicated by the color change of the four button segments:</p> <table border="0"> <tr> <td>Filling</td> <td>increasingly GREEN</td> </tr> <tr> <td>Draining</td> <td>decreasingly GREEN</td> </tr> <tr> <td>Washing</td> <td>from BLUE back to GREEN</td> </tr> </table> | Filling | increasingly GREEN | Draining | decreasingly GREEN | Washing | from BLUE back to GREEN | | | | |
| Filling | increasingly GREEN | | | | | | | | | | |
| Draining | decreasingly GREEN | | | | | | | | | | |
| Washing | from BLUE back to GREEN | | | | | | | | | | |
| 2 Program button |  By pushing this button it is possible to select between different preset programs, according to model and equipment. The program no. will be shown in the Display ⑥. | | | | | | | | | | |
| 3 High pressure / Service button |  Activation of high pressure cleaning. Never use for cleaning glasses and light dishes (breakage) ! | | | | | | | | | | |
| 4 Stop button |  In case of operating error or faults, it is possible to switch-off the machine immediately without drain cycle, by pushing this button. After switch off, the machine is not voltage free! | | | | | | | | | | |
| 5 Temperature Wash (°C) |  Temperatures are only displayed when the program button is pushed for minimum 3 seconds . The indicators go out 10 seconds after releasing program button. | | | | | | | | | | |
| 6 Temperature Rinse (°C) |  Permanent temperature display can be activated (set U02 S15 to "1"). | | | | | | | | | | |
| 7 Salt required |  Indicates the need for regeneration salt to be added. (Only with built-in softener.) | | | | | | | | | | |
| 8 Detergent / Rinse aid indicator |  Indicates detergent or rinse aid deficiency (integrated reservoir). | | | | | | | | | | |
| 9 Hygiene indicator |  After reaching a pre-set number of wash cycles (C71) the indicator lights up (S19 = "1"). Hygiene cleaning will be selected by pushing the program button repeatedly (the upper display shows "H") and started via ON/OFF button. | | | | | | | | | | |
| 10 Service indicator |  This symbol indicates that the dishwasher has developed a fault. In the rinse temperature display appears a code (see page 34 to 36). | | | | | | | | | | |

5. FIRST RUN / CUSTOMER MENU

INITIAL FILL OF THE RINSE BOOSTER

On delivery, the switching function **S28** (first booster filling) is set to "0". There is no menu "boF". As the booster is controlled by a pressure transmitter, no initial fill must be carried out. Therefore the booster heating is not locked.

REQUIREMENT: MACHINE "OFF" AND HOOD OPEN

If the hood will be closed or if no button is pressed within 10 seconds, the display switches off automatically and the new settings will be saved.

Push Stop and Program button at the same time.

| EXAMPLE: Select function with the program button. | | DISPLAY | | parameter | range |
|--|---|---|--------------|-----------|----------|
| | | rinse | wash | | |
| 1 | Detergent dosage | CH1 | XX | C16 | 0-50 s |
| 2 | Rinse aid dosage – program P01 to P04 | CH2 | X.X | C18 | 0-50 s |
| 3 | Detergent dosage – not used | CH3 | -- | C20 | 0-50 s |
| 4 | Rinse aid dosage – program basic clean (AUP only) | CH4 | X.X | C19 | 0-50 s |
| Set chemicals values with the ON/OFF button (0.5s steps). | | | | | |
| 5 | Water hardness adjustment Set value with the ON/OFF button (basic setting H02). H01 = up to 7°dh / H02 = 8 to 14°dh / H03 = 15 to 21°dh / H04 = 22 to 30°dh | H01 up to H04 | | C60 - C63 | |
| | To initiate a manually regeneration with the next wash cycle press the stop button for 3 seconds (confirmed by the flashing water hardness indication). | Hereby the softener function will be set to initial condition. (With next wash cycle, regeneration starts automatically.) | | | |
| 6 | Wash cycle counter Reset to "0" only via basic data (service menu). | PXX | XXX | C73 + C74 | 0-999999 |
| 7 | Water consumption counter Reset to "0" only via basic data (service menu). | EXX | XXX | C77 + C78 | 0-999999 |
| 8 | Remaining water quantity counter for external water treatment To reset the counter to pre-set value, press ON/OFF button for 3 seconds. | dXX | XXX | C79 + C80 | 0-999999 |
| CLOSE THE Hood | | | | | |
| 9 | Hose priming detergent (dispenser M4) By pushing the ON/OFF button, relay 5 will be activated for 60 seconds. | SF1 | -- 0 -- 1 | | 0 / 1 |
| 10 | Hose priming rinse aid (dispenser M3) By pushing the ON/OFF button, relay 6 will be activated for: AMX(X) / AUXX = 360 seconds / AUP = 130 seconds | SF2 | -- 0 -- 1 | | 0 / 1 |
| To interrupt a priming cycle, push the ON/OFF button again. | | | | | |
| 11 | Acoustic signal (AUP models only) By pushing the ON/OFF button acoustic signals will be activated ("1") or deactivated ("0"). There are 3 different signals: end of program: 1 x 2.0s "ON" noncritical failure: 2 x 0.5s with 0.5s pause critical failure: 5s continuous signal | S | -- 0 / -- 1 | S24 | 0 / 1 |
| 12 | Chemicals deficiency sensor By pushing the ON/OFF button sensors will be activated ("1") or deactivated ("0"). | CH | -- 0 / -- 1 | | 0 / 1 |
| To quit the menu : – point 1 to 8 – close the hood, point 9 to 11 – open the hood – or do not press any button during next 10 seconds The indicator switches itself off and the new settings will be saved. | | | | | |

6. HYDRAULIC SCHEMATICS

6.1 LEGEND OF COMPONENTS

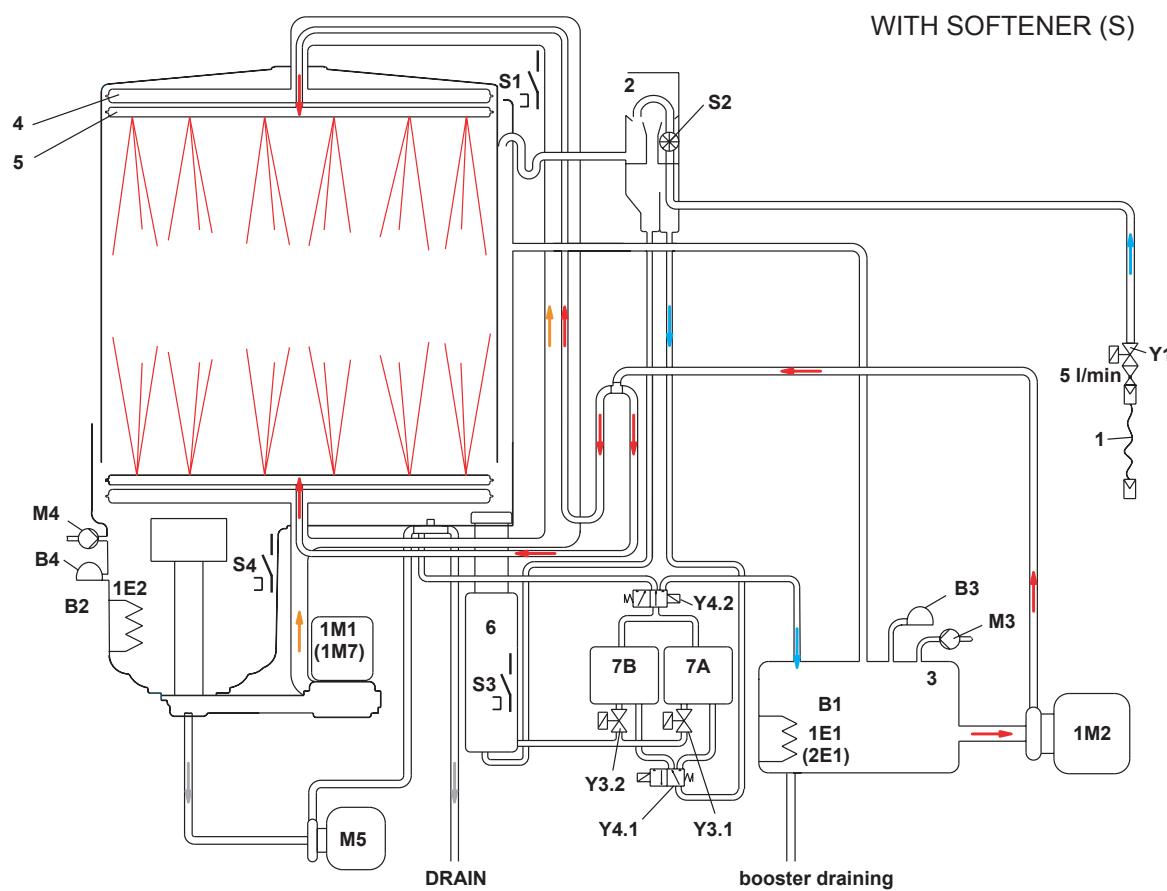
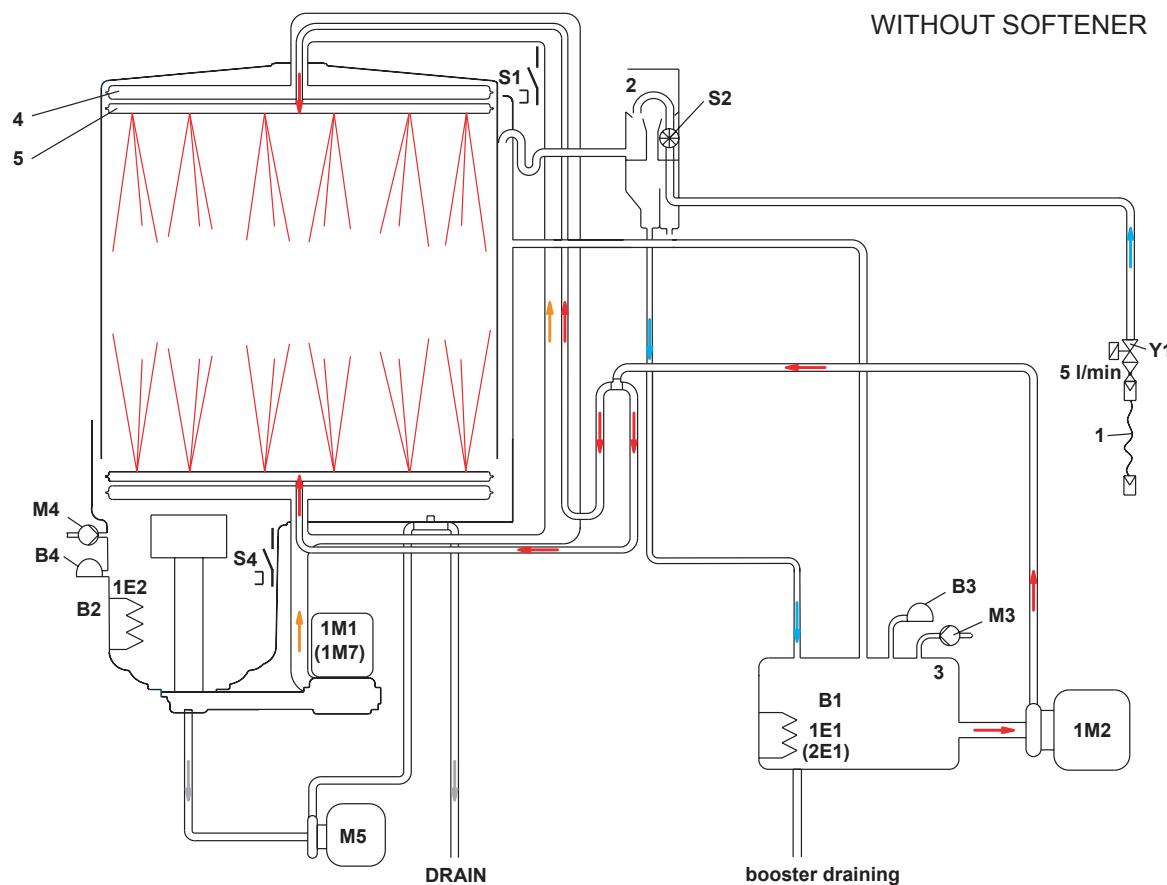
- B1 TEMPERATURE SENSOR BOOSTER
- B2 TEMPERATURE SENSOR TANK
- B3 PRESSURE TRANSMITTER BOOSTER
- B4 PRESSURE TRANSMITTER TANK
- E1 BOOSTER HEATING
- E2 TANK HEATING
- M1 WASH PUMP
- M2 RINSE PRESSURE PUMP
- M3 RINSE AID DISPENSER
- M4 DETERGENT DISPENSER
- M5 DRAIN PUMP
- S1 REED-SWITCH – HOOD
- S2 AIRGAP IMPELLER ¹⁾
- S3 SALT DEFICIENCY SWITCH ²⁾
- S4 REED-SWITCH – STRAINER
- Y1 SOLENOID VALVE – FILL
- Y3.1 VALVE RESIN A ²⁾
- Y3.2 VALVE RESIN B ²⁾
- Y4.1 VALVE RESIN B/A ²⁾
- Y4.2 VALVE DRAIN/BOOSTER ²⁾

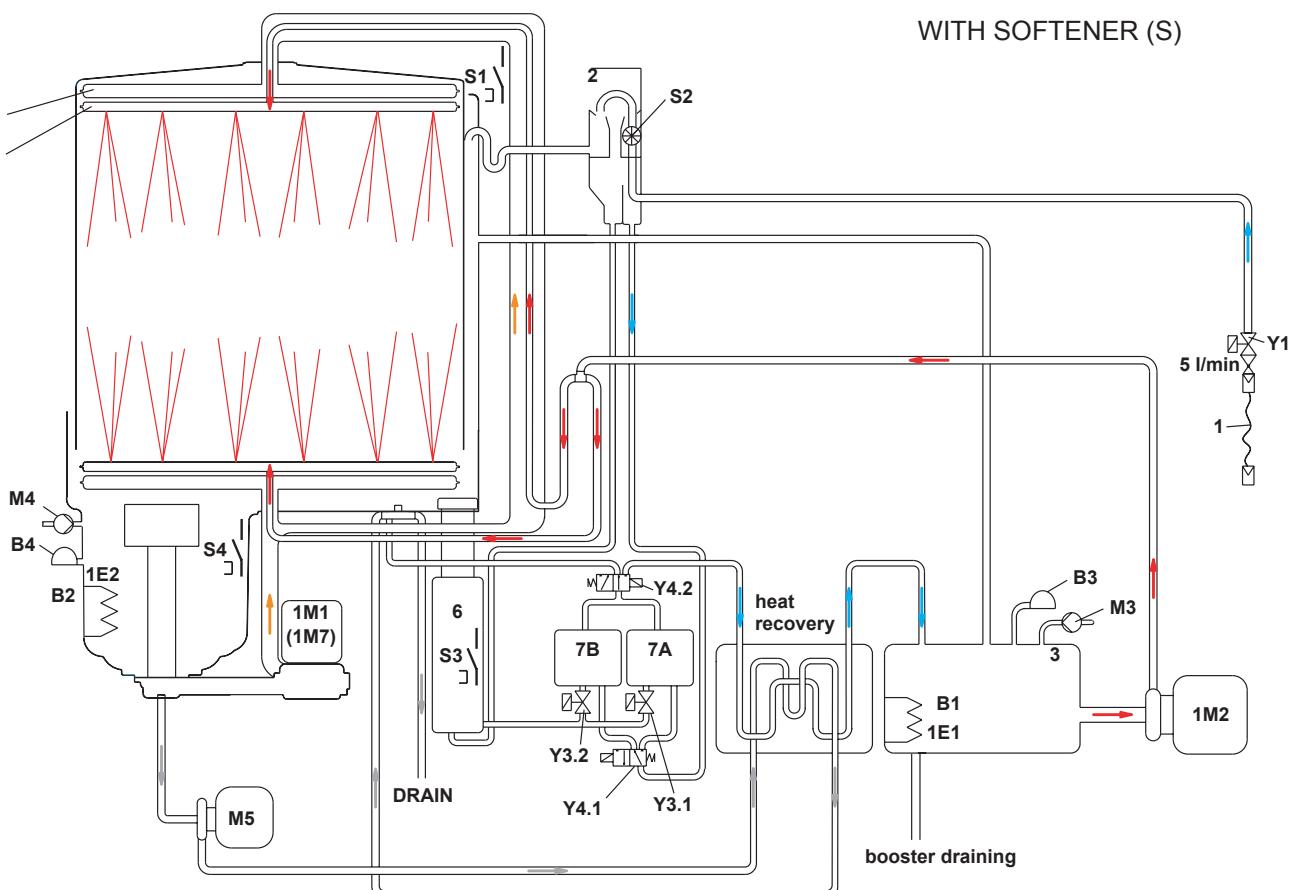
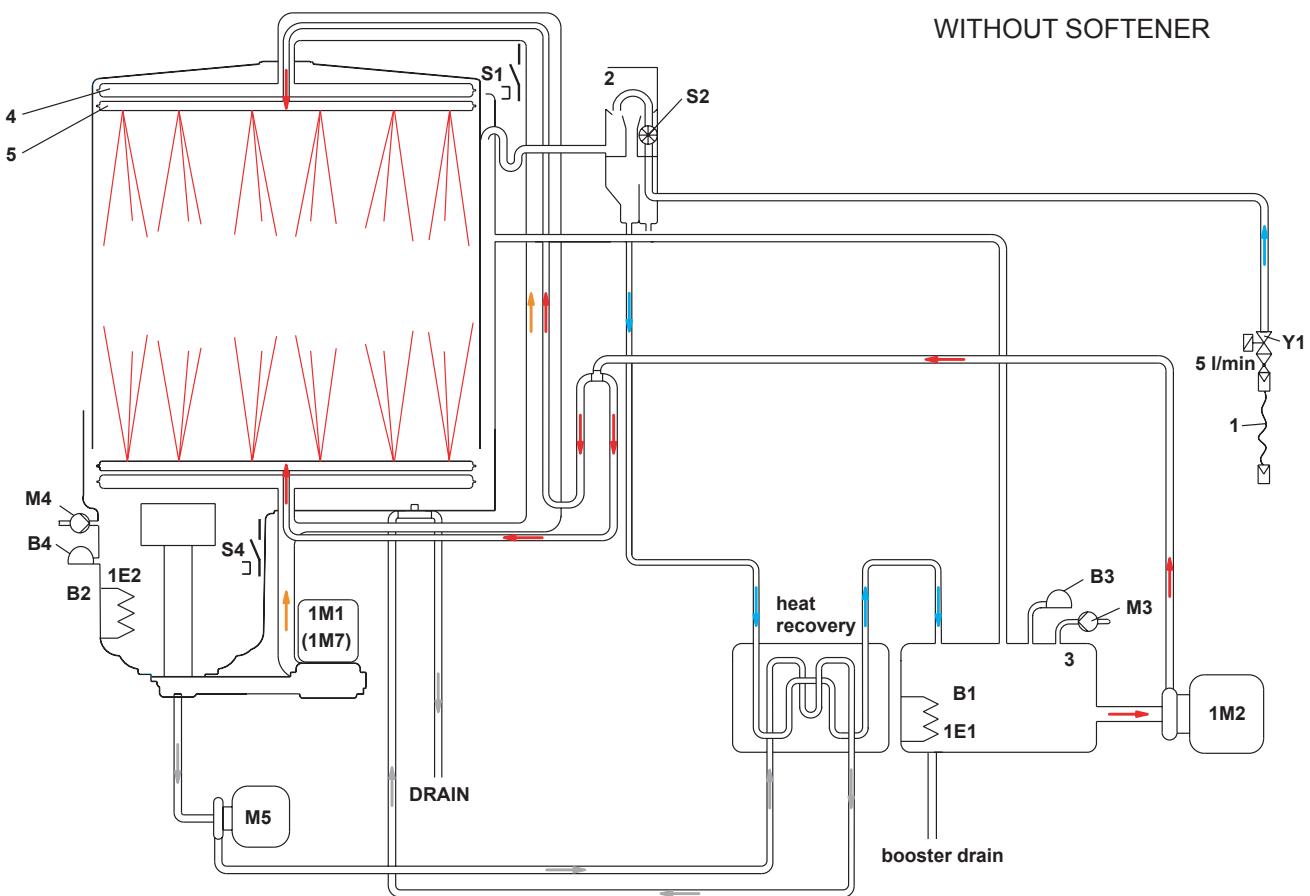
- 1 WATER SUPPLY HOSE
- 2 WATER INLET AIRGAP ¹⁾
- 3 BOOSTER
- 4 WASH ARM
- 5 RINSE ARM
- 6 SALT CHAMBER ²⁾
- 7 RESIN A / RESIN B ²⁾

¹⁾ AIRGAP ASSY.

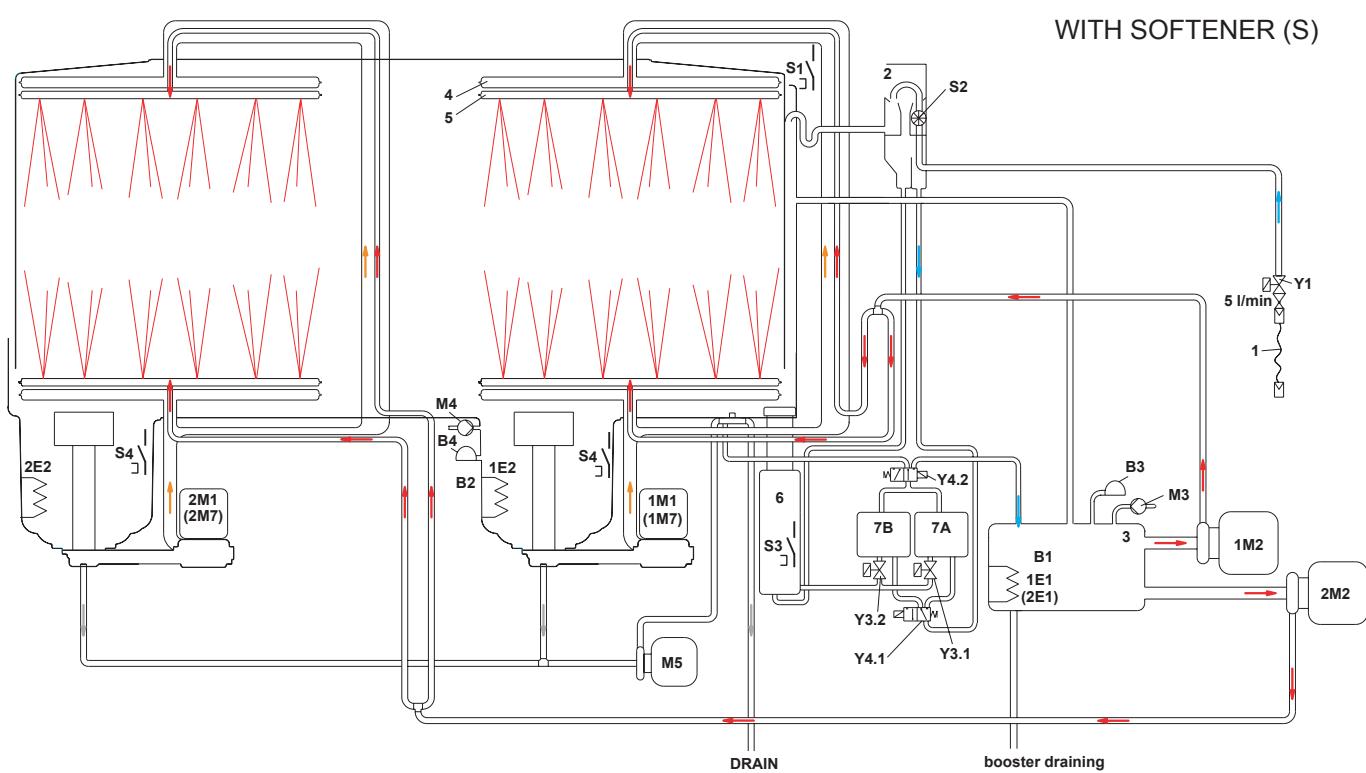
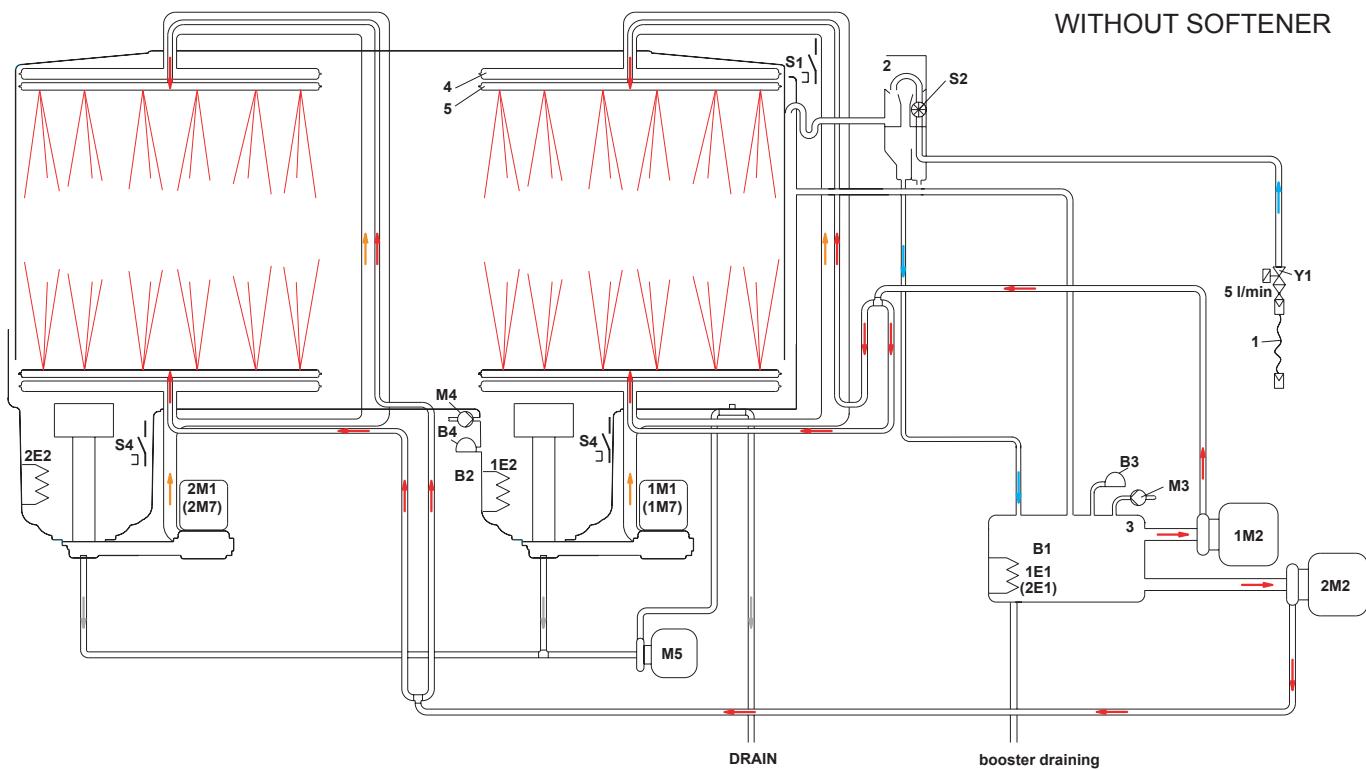
²⁾ SOFTENER ASSY.

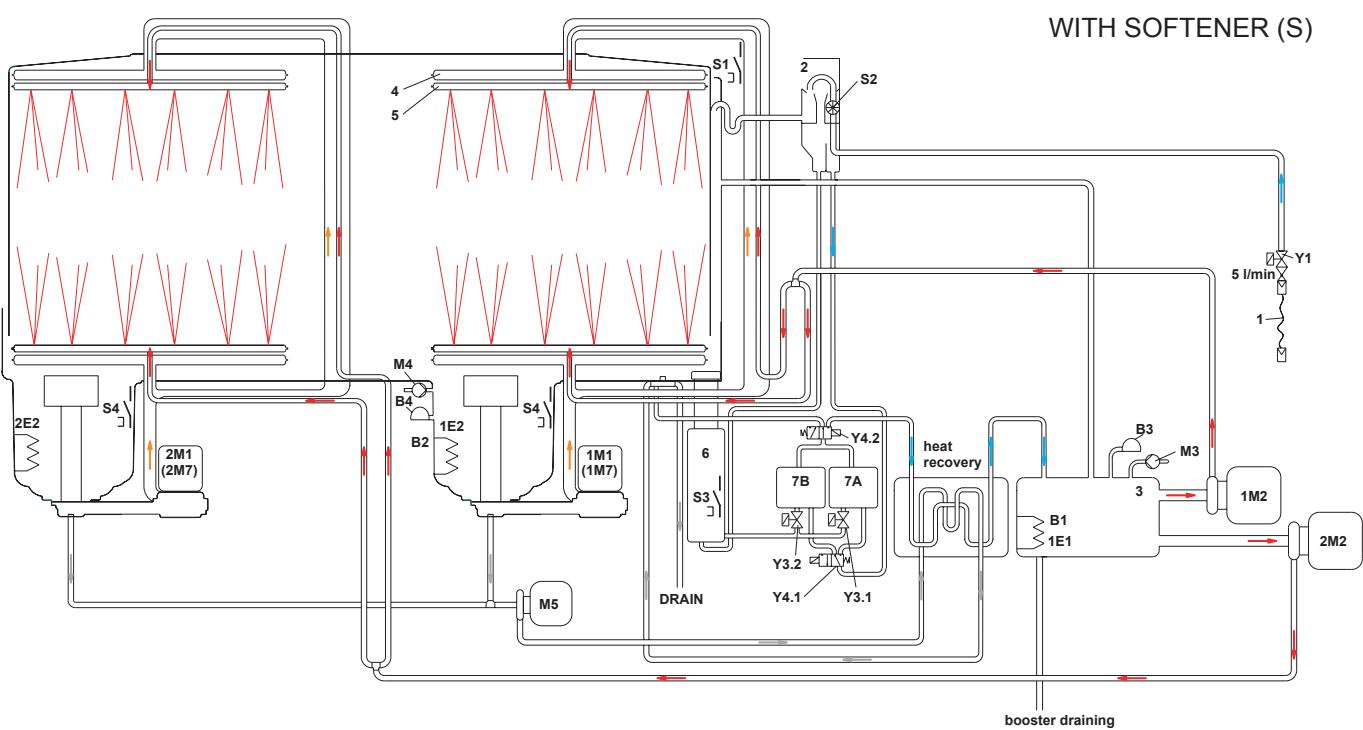
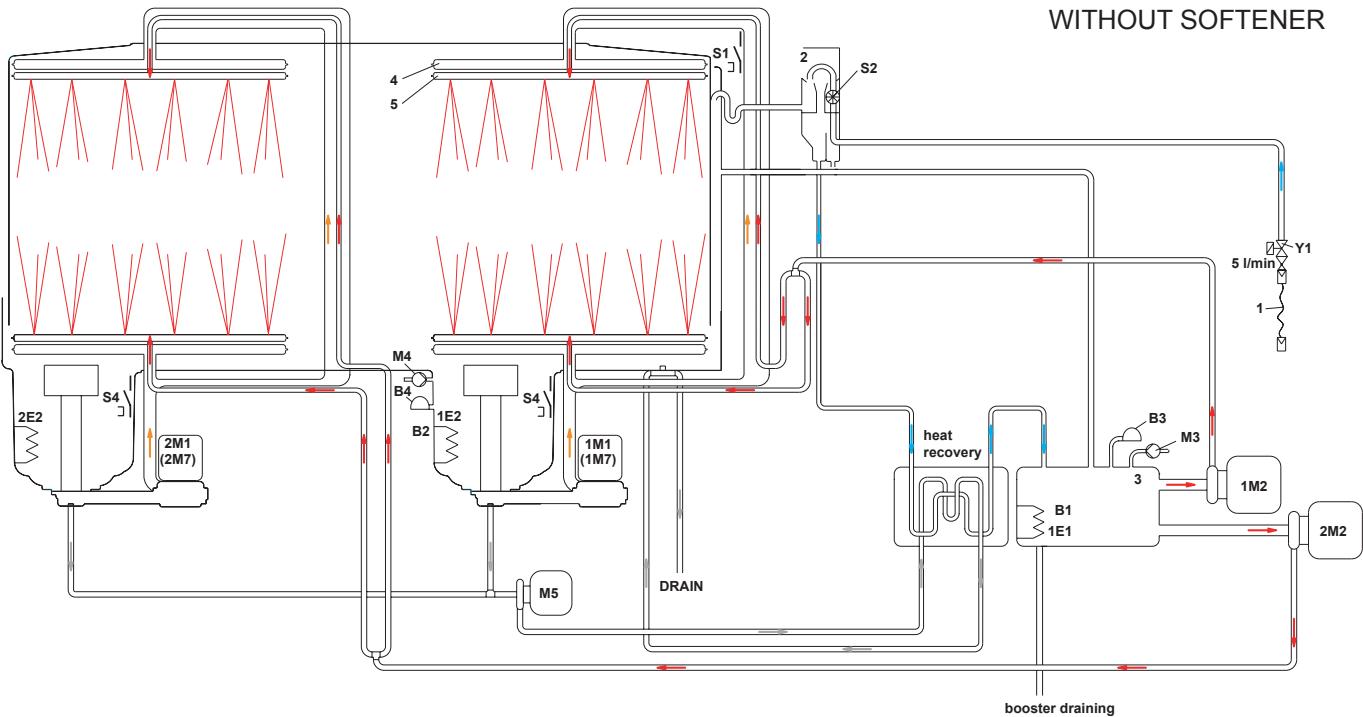
6.2 AMX(S) / AMXX(S) / AUXX(S) / AUP(S)



6.3 AMXR(S) / AMXXR(S) / AUXXR(S) / AUPR(S)

6.4 AMXT(S) / AUXXT(S)



6.5 AMXTR(S) / AUXXTR(S)

7. FILLING

7.1 AIRGAP

The reed-switch **S2** on the small PCB 775540-1 is actuated by the impeller magnet.

The impeller monitors the incoming water flow by counting impulses and then relaying that information back to the main PCB. The count rate is **200 impulses per litre**.

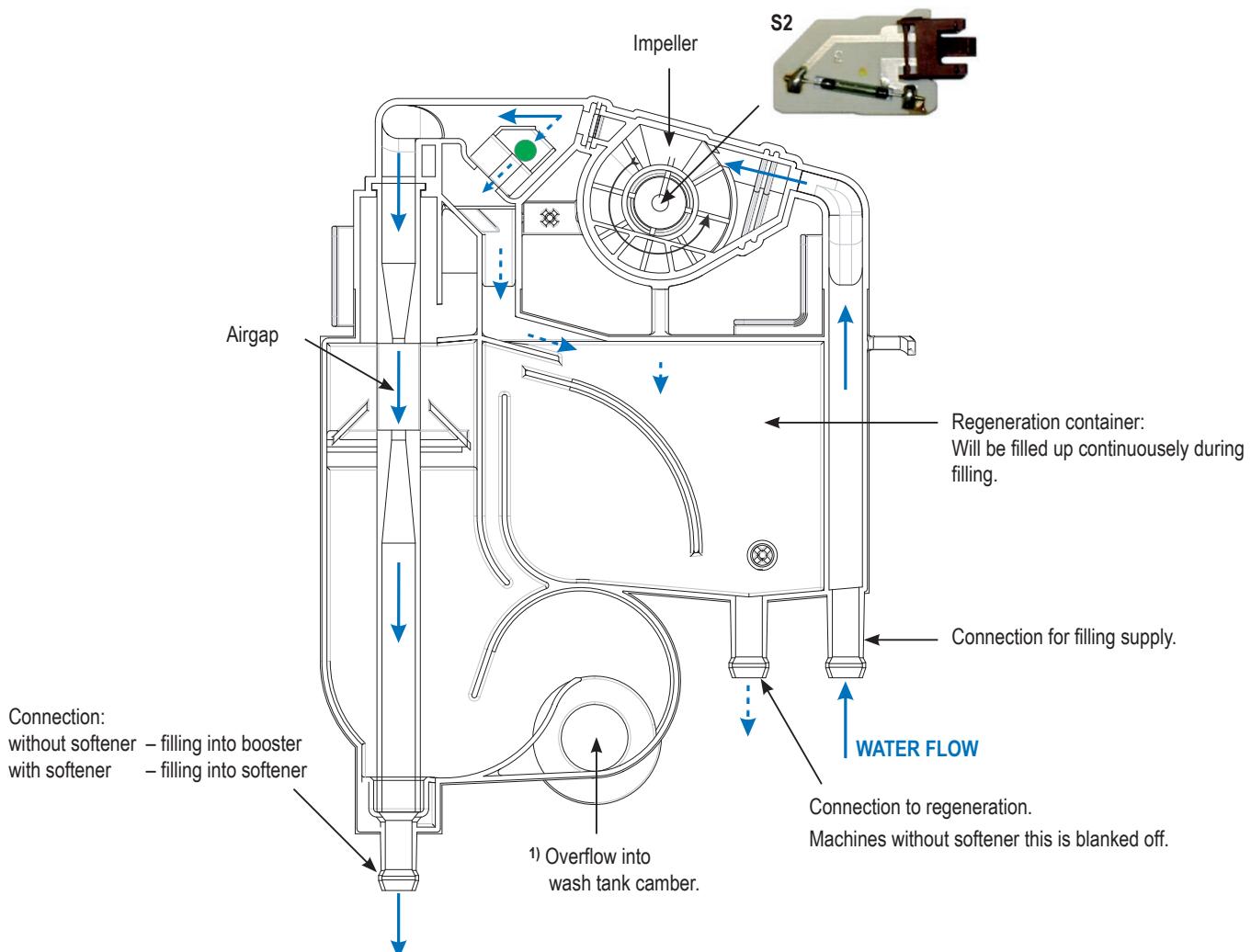
1. Water consumption counter [C77] + [C78] (counted litres are added to basic value "0").
2. Remaining water quantity counter for external water treatment [C79] + [C80] + [S18] (counted litres are subtracted from preset value). See also chap. 12.3, page 33.

MAINTENANCE – TO BE CHECKED:

Whether leaking water from the airgap overflow (see figure¹⁾) enters the wash tank chamber (visual inspection). If so, the leaking water quantity must not exceed 100 ml per fill step.

Whether the impeller sensor works. This can be carried out in two ways.

1. Service Menu: Select input S2 and activate the fill valve by pushing the ON/OFF button (–0 / –1 will be displayed alternately). See also chap. 12.1.2, page 29.
2. Visual check: quick flashing LED on main board (see page 31).



NOTE:

To avoid incrustations, the fill valve is activated during stand-by every 20 minutes for a short time to humidify the nozzles inside the airgap. (Parameter [S45] set to "1".)

7.2 PRESSURE TRANSMITTER B3 / B4

Via air traps (booster / wash tank) compressed air will be directed via clear hoses to the pressure transmitter booster (B3) and wash tank (B4). The transmitter changes the upcoming pressure into DC voltage which will be processed by the control as water level message.

If there is no fault, the voltage value can be displayed:

- via the service menu **F03** fill level booster / **F04** fill level wash tank or
- set switching function [**S56**] to "1" (menu U02).

Possible faults see page 35.

| Output voltage * | Pressure transmitter B3 (booster) |
|------------------|--|
| approx. 0.50 V | Booster is empty. Fill valve will be activated. |
| approx. 0.62 V | Booster heating will be switched on (heating up to fill start temperature 85°C). |
| approx. 0.90 V | Booster is filled. Fill valve closes. |

| Output voltage * | Pressure transmitter B4 (tank) – example AMX |
|------------------|--|
| approx. 0.50 V | Wash tank is empty. |
| approx. 0.65 V | Tank heating will be switched on. |
| approx. 1.00 V | Machine is ready for operation (tank is filled). |
| approx. 1.15 V | With a delay-time of 5 seconds drain pump will be activated until normal water level is reached. (Error UL) |
| approx. 0.60 V | At the end of the self cleaning cycle water remains in the wash tank. When the machine will be switched on the next time, "AL" error will be displayed. |

Voltage value* additions for pressure transmitter B4 (tank):

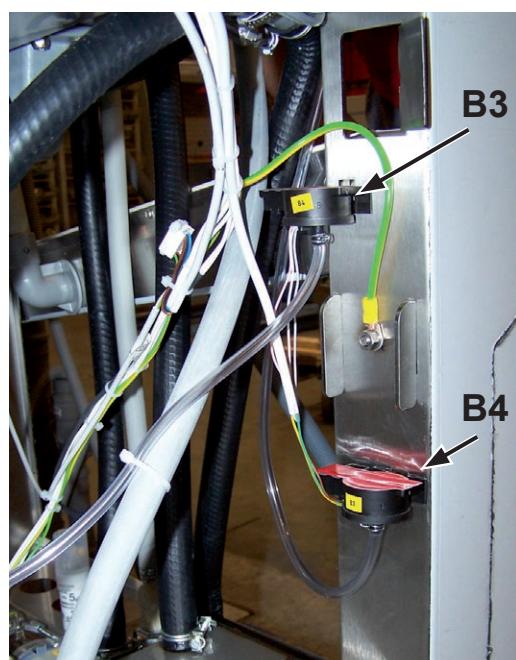
| Model | tank heating ON | tank filled | safety level (UL) | AL | negative pressure |
|-----------------------|---------------------------|------------------|----------------------|------------------|----------------------|
| AMX/AMXT | 0.65V (ca. 13 l) | 1.00V (ca. 21 l) | 1.30V (ca. 27 l) | 0.60V (ca. 12 l) | 0.58V (ca. 11 l) |
| AMXX | 0.65V (ca. 13 l) | 1.55V (ca. 33 l) | 1.90V (ca. 40 l) | 0.60V (ca. 12 l) | 0.80V (ca. 15 l) |
| AUXX/AUXXT/AUP | 0.65V (ca. 13 l) | 1.90V (ca. 40 l) | 2.25V (ca. 48 l) | 0.60V (ca. 12 l) | 0.80V (ca. 15 l) |

* *Voltage values may not be changed by the service technician (only on instruction of HOBART).*

MACHINES WITH EXTERNAL FILLING

If external filling is activated (S20 set to "1"), a voltage regulation of 0.1 V must take place within 30 seconds, after a holding time of 60 seconds.

Otherwise the error message FIL will be displayed.



7.3 DOSING EQUIPMENT

7.3.1 DETERGENT / RINSE AID DISPENSER

| DISPENSERS | | |
|-----------------------|--|--|
| AUP (Premax) | Detergent (01-240195-2): delivery rate 3.0 l/hr Rinse aid (01-240195-1): delivery rate 1.3 l/hr | hose inside: 01-240195-12 hose inside: 01-240195-11 |
| AMX(X) / AUXX (Profi) | Detergent (775556-12): delivery rate 3.0 l/hr Rinse aid (775556-11): delivery rate 0.4 l hr | hose inside: 775608-2 hose inside: 775608-1 |
| PRE-ADJUSTED VALUES | | |
| Detergent CH1 | All models: "8" = 8.0 s ≈ 2.40 g/l (possible range 0-50 s ≈ 0-15.4 g/l) | |
| Rinse aid CH2 | AMX(X)/AUXX: "7.0" = 7.0 s ≈ 0.31 g/l (possible range 0-50 s ≈ 0-2.2 g/l) AUP: "2.5" = 2.5 s ≈ 0.33 g/l (possible range 0-50 s ≈ 0-6.6 g/l) | |
| DOSAGE | | |
| Detergent | Pre-dosing is activated simultaneous with rinse pump M2. Wash dosing is activated simultaneous with the wash pump. | |
| Rinse aid | Pre-dosing is activated after the end of the fill cycle. Wash dosing is activated after the end of wash cycle. | |

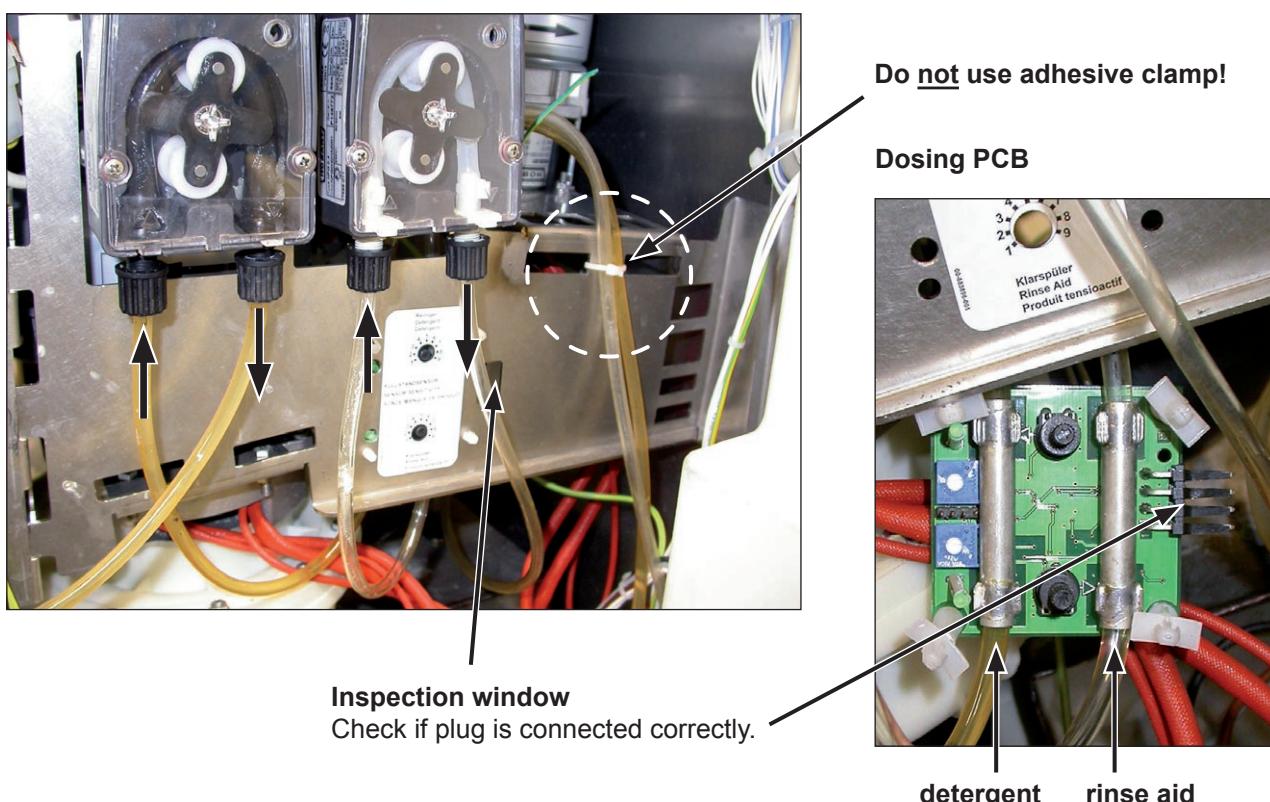
Hose priming and factory settings see page 8 "Customer Menu".

MAINTENANCE

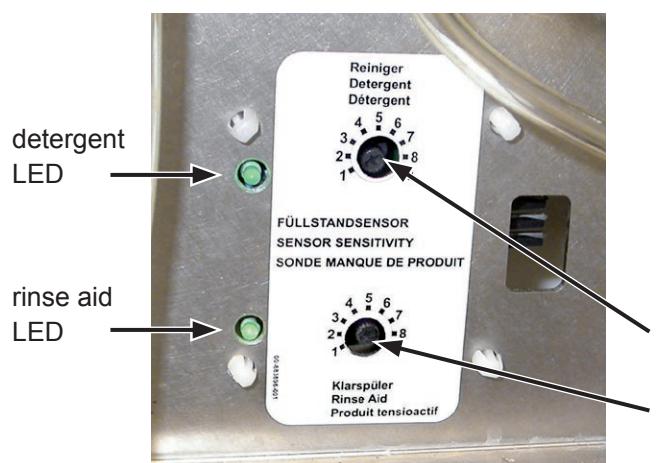
1. Check hoses, dispensers and connections.
2. As a precaution, the dosing hoses have to be replaced every two years (hoses inside dispensers, suction and pressure hoses).

Dosing hoses (sold by meter) – part no. 01-246301-099

Installation of dosing hoses (e.g. AMXX):



7.3.2 ADJUSTMENT OF CHEMICALS DEFICIENCY SENSORS



POTENTIOMETER:

Graduations: **1 to 9**

| | |
|--------------|--|
| Sensitivity: | 1 (non-sensitive chemical sensing / sensitive failure indication) |
| | 9 (sensitive chemical sensing / non-sensitive failure indication) |

Basic setting: **3**

detergent

rinse aid

Due to the physical properties of rinse aid (e.g. wetting), even smallest rinse aid quantities inside the hose will be detected by the deficiency sensor. If the sensor is adjusted too sensitively, maybe deficiency will not be released.

– TEST "DEFICIENCY"

Flush the suction hose thoroughly with fresh water to remove any chemicals.
When the hose is drained, the respective LED should be "OFF".

– TEST "FULL"

Fill the suction hose (see chapter 5, page 8).
The respective LED should light up. If not, adjust potentiometer until the LED lights up.
Now the hose should be completely filled and without air bubbles.

TESTING THE PCB

- Select **Service Mode** (see chapter 12.1.2, page 29).
- Hoses are empty and deficiency sensor potentiometers turned to **left stop**:
Switching functions "**S07**" (detergent) and "**S08**" (rinse aid) must be "**0**". **No** sensor **LED** lights up.
- Potentiometers turned to **right stop**:
Switching functions "**S07**" (detergent) and "**S08**" (rinse aid) must be "**1**". The **LED** of the respective circuit lights up.



Detergent deficiency indication " - - 0 "



Rinse aid hose filled " - - 1 "

– After testing:

Set potentiometers (detergent and rinse aid) to value "**3**" (based on tests with the most common products).

7.4 SOFTENER

7.4.1 GENERAL

Before first run, the softener has to be filled with 2 kg of regeneration salt and potable water.

Switching function: [S05] = "1" (standard setting for machine programs with softener)

Salt capacity: max. 2 kg (coarse grained, max. 10 mm – no tablets)

Salt consumption: approx. 40 g / regeneration

Softener setting: see next page

Parameters: [C84] number of salt fillings

(see also page 33) [C85] number of wash cycles with deficiency of salt

NOTE:

1. Manually initiation of regeneration (salting column "B") is possible.
See also page 8, "customer menu" point 5.
2. **Y4.2** (switching Drain / Booster)
de-energized = switched to drain / energized = filling into booster.

It will take several wash cycles until the salt indicator switches off.



left hand view



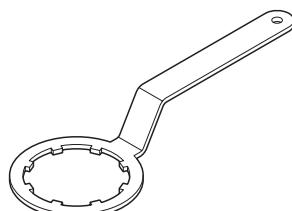
right hand view



front view



rear view



1) Special tool needed (softener wrench 01-293500-1)

In case of softener replacement the fastening nut has to be re-tighten after three wash cycles.

7.4.2 SOFTENER CHECK PROCEDURE

Check:

Parameter [C84] = number of salt fillings.

Parameter [C85] = number of wash cycles with deficiency of salt (illuminated salt indicator).

What you need to verify the softener function:

1. Test kit to measure the water hardness (part number 607236). Pay attention to expiry-date.
2. A conductivity-meter (possibly pH indicator strips 609927).

How respectively where to measure?

Use clean tea-cup or beaker for sampling water.

1. Take measurement of the total water hardness ($^{\circ}\text{dh}$) at the tap where the machine is connected to.
2. Measure the conductivity ($\mu\text{S}/\text{cm}$) at the tap where the machine is connected to.
3. Measure the hardness of the water in the booster.
Therefore, the booster drain hose is to be used. Discard the first cup of water to ensure that no residuals from the hose falsifies the measured value.
4. Measure the conductivity of the booster water.

Adjustment of softener setting according to the hardness of incoming water:

1. Ensure adequate softener setting:
H01 = up to 7°dh / **H02** = 8 to 14°dh / **H03** = 15 to 21°dh / **H04** = 22 to 30°dh .
2. Ensure that the salt chamber contains salt.
3. Ensure that granular salt is used (salt tablets are not allowed).
4. Ensure that the salt chamber has been filled up with water.

Approximate values if softener function is O.K.:

The conductivity of the booster water shall be about $300\mu\text{S}/\text{cm}$ higher than the conductivity of that water taken at the tap.

For example: If the total hardness of the incoming water is $500\mu\text{S}/\text{cm}$, the conductivity of the booster water will be roughly $800\mu\text{S}/\text{cm}$. If this value is significantly higher (e.g. $3000\mu\text{S}/\text{cm}$), an incorrect softener function is very likely.

Further steps:

1. Adjust the softener to "H04" to ensure a new regeneration will be actuated every 3 cycles.
2. Select the shortest program "P01" and take a sample of water (a tea-cup) at the booster drain hose immediately after the program cycle has ceased.
3. Measure and note down the water hardness.
4. Measure and note down the conductivity.

Repeat procedures 1 to 4 seven times to ensure salting of both resin columns.

An incorrect softener function is most supposable if the measured hardness at the booster drain hose is higher than 5°dh and / or the conductivity is extremely high (i. e. in the range of $3000\mu\text{S}/\text{cm}$).

Proceed as following in case of too high hardness and / or conductivity values:

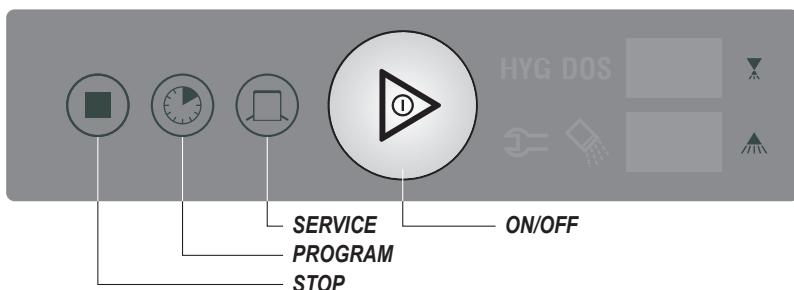
1. Run the drain cycle to ensure booster emptying down to the pump intake.
2. Remove the side panels.
3. Activate the softener test program "U03" as described on next page.
Observe the resin columns with the aid of a torch from the left hand side of the machine.
(Column "A" is at the left, column "B" is at the right from this point of view).

If the sequential operation deviates from the described one (see next page), i. e. resin "B" was six times activated, it is very likely that a softener valve is jamming or the electrical connections are interchanged (this is less probable).

The booster must be flushed thoroughly at the end of this procedure (run 5 wash cycles) to ensure the chloride content is at an acceptable level to prevent corrosion.

Never run the softener test program at the begin of the herein described procedure because it is unavoidable that salt will be flushed into the system. Thus, measurements would become incorrect.

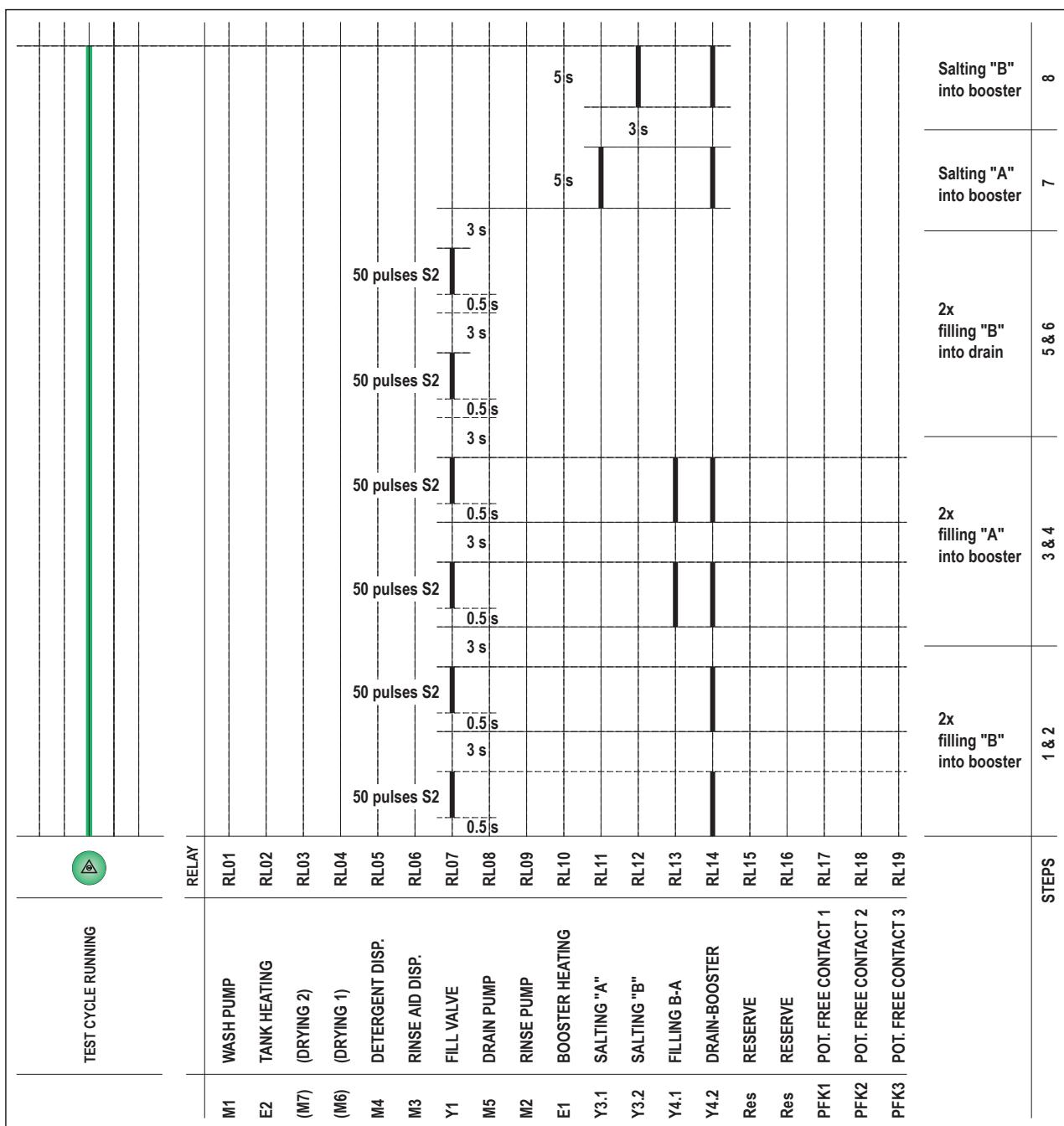
7.4.3 SOFTENER TEST PROGRAM



REQUIREMENT:

Machine has to be switched "OFF" and the hood must be open.

- Push and hold **program** and **service button (dryer button)** together. **U01** appears in the rinse temperature display.
 - Select softener test program **U03** by pushing the **stop button**.
 - To enter U03 push the **ON/OFF** button. The ON/OFF button illuminates GREEN while the test program is running. Once the test sequence has completed, the ON/OFF button will switch off.



7.5 BOOSTER / TANK / TEMPERATURE PROBES

BOOSTER

Booster heating: 6.22 kW (T model = 2 x 6.22 kW)
 Total volume: 10.3 liter
 Useable volume: 5.2 liter
 Water consumption / rinse cycle: 2.5 liter

Part numbers:

| | |
|---------------------------|---------------|
| Booster heating E1 | 01-240135-002 |
| O-ring – booster heating | 01-240135-011 |
| Air trap | 01-240076-002 |
| O-ring – air trap | 01-276903-050 |

TANK

Tank heating: 2.5 kW (T model = 2 x 2.5 kW)

| Tank volume (liter): | AMX 21 | AMXX 33 | AUXX 40 | AUP 40 | AMXT 42 | AUXXT 80 |
|----------------------|-----------|------------|------------|-----------|------------|-------------|
|----------------------|-----------|------------|------------|-----------|------------|-------------|

Part numbers:

| | |
|------------------------|---------------|
| Tank heating E2 | 00-883423-001 |
| Air trap | 01-240076-002 |
| O-ring – air trap | 01-276903-050 |

TEMPERATURE PROBES

Part numbers:

| | |
|-------------------------------------|---------------|
| Temperature probe booster B1 | 00-775612-001 |
| Temperature probe tank B2 | 00-775612-001 |

Temperature range: min. – 40°C
max. + 125°C

Possible faults see page 35.

8. WASHING

8.1 WASH PUMP AND STRAINER SYSTEM

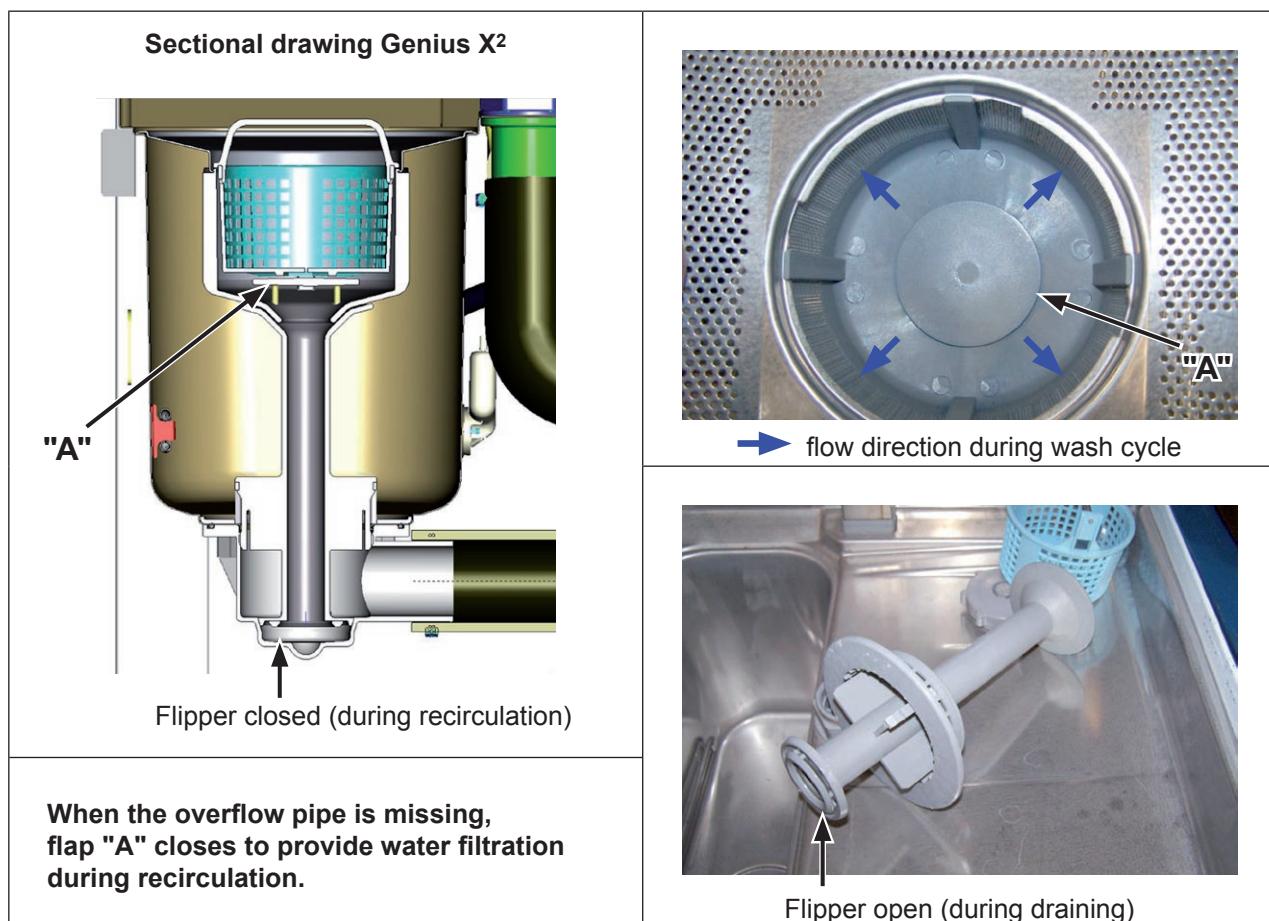
The pump unit includes motor with flange, mechanical shaft seal, impeller and capacitor (AMX only). A non return flap (called Flipper) allows the draining of the circulation system. The Flipper prevents soil, collected in the pump sump, from reentering the circulating system.

8.1.1 FUNCTION:

During wash cycle, the wash liquid is distributed to the upper and lower wash arm. The back flowing wash liquid is passing a strainer system, the integrated intake strainer and enters the wash pump from the outer annular space of the suction unit via the main duct.

Drain system: Used for partial draining of the soiled wash liquid (**Genius X²**) during wash cycle (approx. 20 seconds after program start) or for the complete draining of the wash tank. Pressure-side the soiled wash liquid will enter the drain via hose system and ventilation valve.

During draining or self-cleaning cycle the flipper is open.



MAINTENANCE

- Check movability of flipper.
- Clean fine strainer if necessary.
- Remove drain pump and clean it.
- Subsequently carry out leakage test.

Furthermore the ventilation valve has to be checked for soiling.

NOTE:

Tank strainer and fine strainer have to be cleaned daily.

8.1.2 TECHNICAL DATA

WASH PUMPS – CONNECTED LOAD

| | Part no. | Voltage / Frequency / Phases | Current | Capacitor | Power | Impeller |
|----------------------------------|----------|--|--------------|-----------|--------|----------|
| AMX / AMXT | 883617-1 | 220-240V / 50Hz / 1P | 3.2A | 16µF | 0.73kW | 105mm |
| AMXX / AUXX / AUP / AUXXT | 883526-1 | 380-415V / 50Hz / 3P 220-240V / 50Hz / 3P | 2.1A 3.5A | --- | 1.1kW | 105mm |
| AUXX / AUP / AUXXT | 883525-1 | 380-415V / 50Hz / 3P 220-240V / 50Hz / 3P | 2.1A 3.5A | --- | 1.1kW | 105mm |

WASH PUMPS – SERVICE KITS

| | | |
|----------------------------------|-----------|------|
| AMX / AMXT | 883617-10 | 50Hz |
| | 883617-20 | 60Hz |
| AMXX / AUXX / AUP / AUXXT | 883526-10 | 50Hz |
| | 883526-20 | 60Hz |
| AUXX / AUP / AUXXT | 883525-10 | 50Hz |
| | 883525-20 | 60Hz |

The Service Kits include:

1. O-ring
2. Impeller
3. Mechanical shaft seal

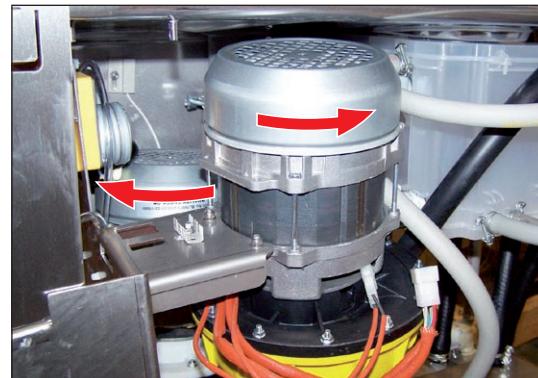
8.1.3 CHECKING THE DIRECTION OF ROTATION

To be done with first run or after pump replacement (only with filled wash tank).

1. Remove panels.
2. Put a binder approx. 2 cm into the motor ventilation housing grid and keep it hold.
3. Switch on machine.
Determine, into which direction of rotation the motor starts. The direction of rotation must always point to direction of arrow (see picture).
4. If motor turns in the opposite direction, interchange two of the three phases at the power supply cable.
5. Check direction of rotation again.
Switch off machine and put panels back in place.

NOTE:

With AM/AMX models with alternating current pumps a direction of rotation check is not necessary.



direction of rotation requirement
(example AUXX/AUP)

8.2 RINSE PUMP

| | |
|-------------|---------------|
| Part number | 775854-1 |
| Voltage | 220-240 V |
| Frequency | 50 Hz |
| Current | 0.46 A |
| Power | 0.14 kW |
| Capacitor | 5.0 µF / 400V |

| rinse time | average value | rinse time | average value |
|------------|---------------|------------|---------------|
| 7.5 s | 2.5 l | 9.5 s | 3.2 l |
| 8.0 s | 2.8 l | 10.0 s | 3.4 l |
| 8.5 s | 2.9 l | 10.5 s | 3.5 l |
| 9.0 s | 3.1 l | 11.0 s | 3.6 l |

9. CLEANING

9.1 HYGIENE CLEANING (AUP MODELS ONLY)

After reaching a pre-set number of wash cycles (parameter [C71] = 2500) the Hygiene indicator "HYG" lights up to indicate that an automatic hygiene cleaning of the machine interior should be carried out.

PROCEDURE

- Before end of operation:
Take out rack and remove manually coarse soil from tank strainer
- Put two **HOBART-Hygiene-Cleaner Tabs¹⁾** into the machine interior.
- Push **Program** button repeatedly until the upper Display shows "H".
- Close the hood.
During the Hygiene program is running (duration approx. 20 minutes) the green illuminated segments go out one after the other.

At the end of the cycle the machine switches off automatically.

If necessary hygiene cleaning should be carried out before reaching the pre-set number of wash cycles. With regular use the machine interior will remain free of food debris and deposits.

¹⁾ part number 897954 = box with 15 Tabs.

FUNCTIONAL DESCRIPTION

- Switching function [**S19**] has to be activated "1" (with AUP automatically).
- Machine ON and hood closed.
- Hygiene cleaning "H" selected.

When the **ON/OFF** button is pressed, the tank will be completely drained. Simultaneously the standard filling program (booster filling, booster heating, rinse pump, etc.) will be started, without pre-dosing of detergent / rinse aid.

If tank level is reached, the wash pump will be started (approx. **5 minutes**) to circulate the tank water. When wash cycle is completed, the self cleaning program will be started.

After the Hygiene program has ceased, the control switches off and parameter [C71] will be reset to the adjusted wash cycle number.

MAINTENANCE

Via parameter [C72] you can check the number of completed hygiene cycles (see also page 33).

9.2 STRIPPING PROGRAM "BASIC CLEAN" (AUP MODELS ONLY)

Special program for removal of heavy coatings / deposits (e.g. protective film on new glasses, starch residues).

- Manual dosing of a dedicated powdered detergent required (according to the recommendation of chemicals supplier).

Please pay attention to the manufacturers safety instructions.

PROCEDURE

- Open the hood.
- Remove manually coarse soil from tank strainer.
- According to the manufacturers dosing recommendations add powdered detergent for 30 liters of water to the flat side on the right of the tank. (Tank level will be pumped down from 40 l to 30 l.)
- Push **Program** button repeatedly until the upper Display shows "**bc**" (**b**asic-**c**leaning).
- Close the hood.
- Move rack with washware into the machine and close the hood.

During the stripping cycle (takes approx. 4 minutes), the color of the **ON/OFF** button changes from **blue** back to **green**.

Depending on the water feed temperature, the cycle can extend up to several minutes.

- As soon as the **ON/OFF** button illuminates completely **green**, the cycle is finished.

NOTE:

For each following stripping cycle an additional manual dosing is necessary according to 4 liters of water.

- Return to "normal" wash cycle by pushing the **Program** button.

ADJUSTMENT OF RINSE AID DOSAGE QUANTITY – PROGRAM bc

- Select Customer Menu (see chapter 5, page 8).
- Push Program button repeatedly until the upper Display shows "CH4".
In the lower Display appears e.g.:
"3.5" = pre-adjusted value of the rinse aid dosage time = 3.5 s ≈ 0,31 g/l.
- To adjust the rinse aid dosage time, push ON/OFF button repeatedly, until the desired value appears (0-50 s ≈ 0-4.4 g/l).

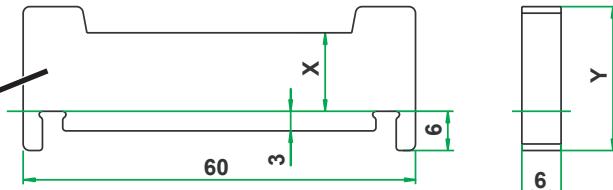
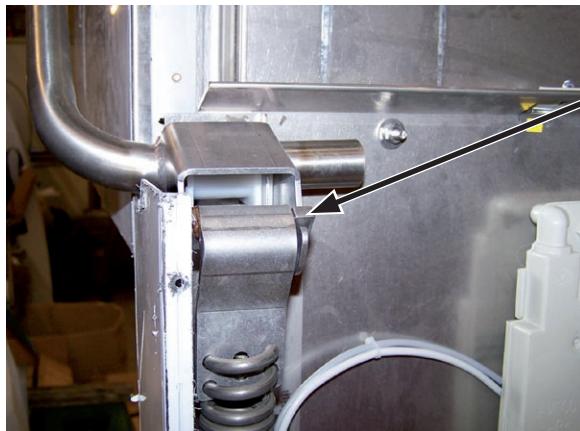
Adjustment should be done in accordance with chemical suppliers recommendations.

10. HOOD – DETAILS

MAINTENANCE

Check plastic bearings for sufficient lubrication.

Hood lift handle Support



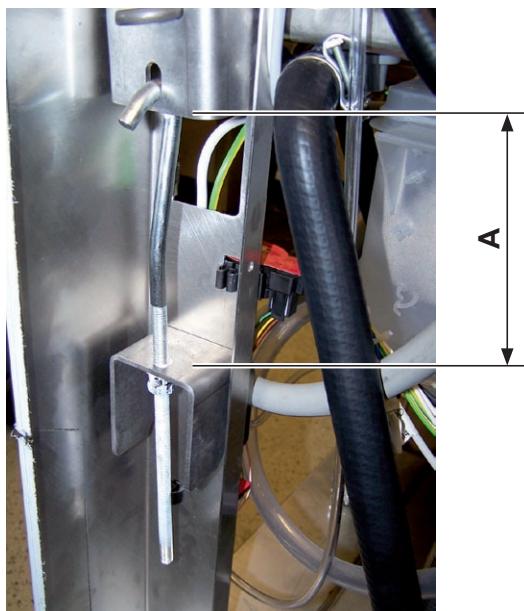
There are two different spring bolts:

883683-1 ($x = 8 \text{ mm}$ / $y = 18 \text{ mm}$)

883683-2 ($x = 12 \text{ mm}$ / $y = 22 \text{ mm}$)

See also table below.

Adjustment of tension springs



Example: AMX

Distance "A" from lower edge of bent to upper edge of channel:

approx. 12 cm – **insulated hood**

approx. 18.5 cm – **non-insulated hood**

Insufficient spring force:

The hood keeps not safe in "stand-by" position or closes.

Too much spring force:

The hood does not keep tightly closed during wash cycle.

Make sure, that in "stand-by" position the hood neither opens nor slowly closes.

| Spring bolt | Part No. | AMX | AMXX | AUXX | AUP | AMXT | AUXXT | AUXXL |
|-----------------------|----------|-----|------|------|-----|------|-------|-------|
| insulated hood | 883683-1 | X | X | X | X | | | |
| | 883683-2 | | | | | X | X | X |
| non-insulated hood | 883683-2 | X | X | X | --- | X | X | X |

Tension spring

| | | | | | | | | |
|----------------|----------|---|---|---|---|---|---|---|
| 2x1 | 883636-1 | X | X | X | X | | | |
| 1x2 right hand | 883957-1 | | | | | X | X | X |
| 1x2 left hand | 883958-1 | | | | | X | X | X |

11. HEAT RECOVERY

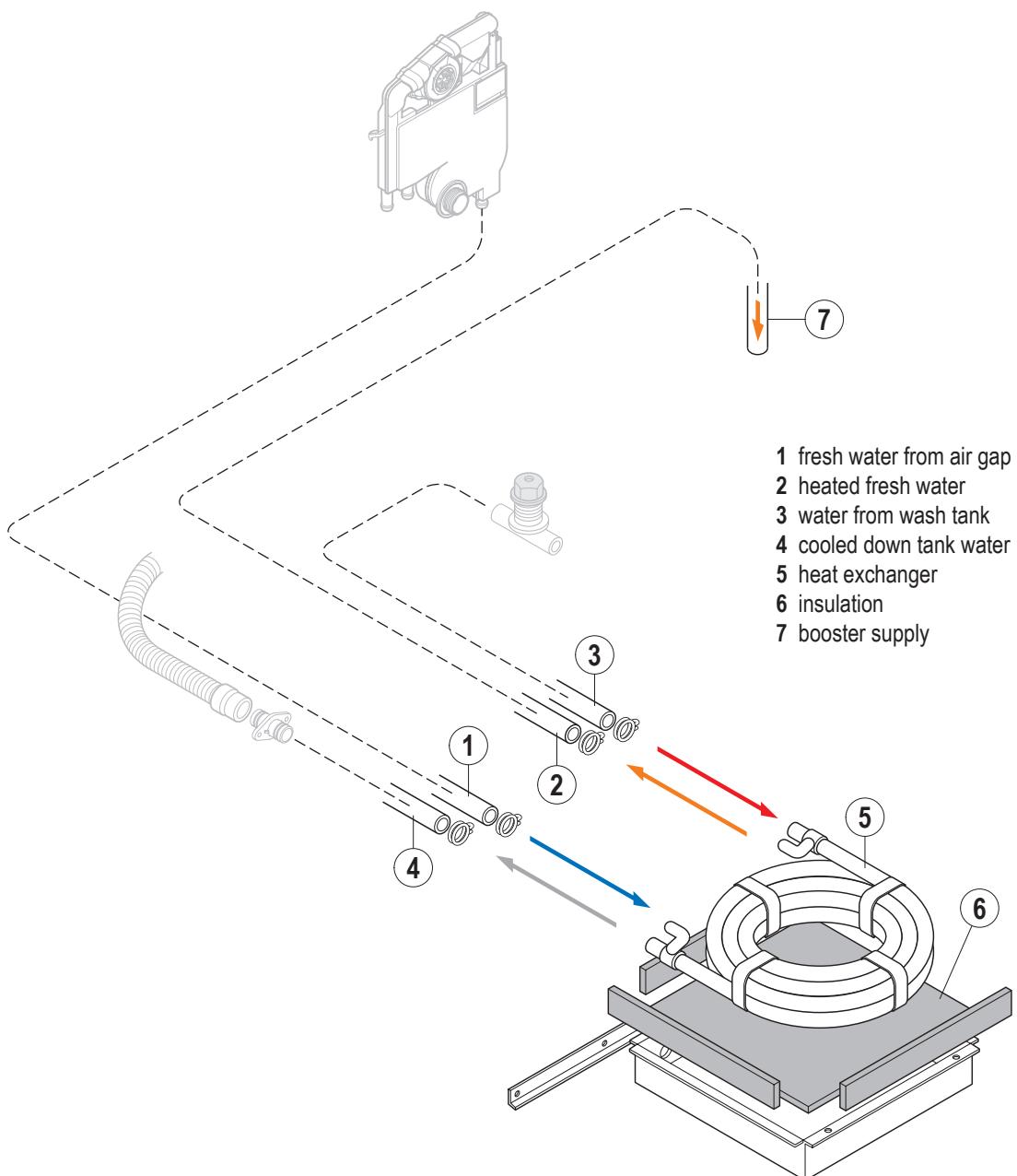
GENERAL

With activation of the fill valve (booster refill), the control 897545-1 will be actuated by an impulse and starts the drain pump (partial tank draining, approx. 2.5 l) simultaneous to filling. The output clock signal is adjustable via basic data.

The fresh water enters via the airgap the outer coaxial pipe of the heat exchanger and will be heated up by tank water, flowing in the inner coaxial pipe (counter-flow principle).

Menu U02 – Basic Data:

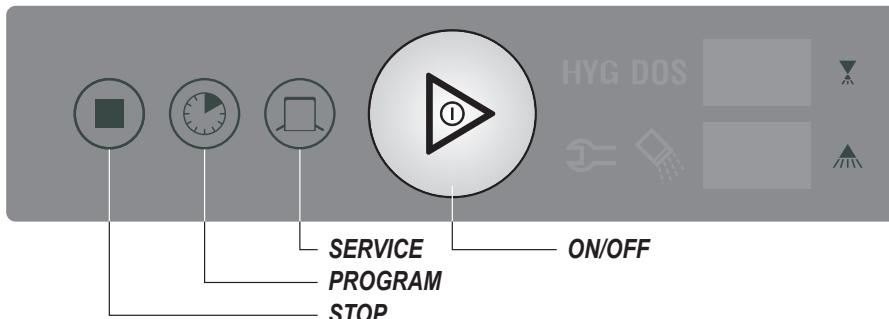
Switching function [**S32**] is set to "1".



12. ELECTRONIC CONTROL

12.1 KEY COMBINATIONS

12.1.2 BASIC OPERATION / CUSTOMER SETTINGS



X = button to be pushed

| BASIC OPERATION | STOP | PROGR. | SERVICE | ON/OFF | REQUIREMENTS | HOOD |
|---------------------|------|---------|---------|---------|-------------------------------------|---------------|
| Machine ON | | | | X | Machine "off" | Open or Close |
| Machine OFF | X | | | | Machine "off" at any time | Open or Close |
| Drain program | | | | X > 3 s | Start at any time | Close |
| Program selection | | X | | | Machine on / Fill program completed | Open or Close |
| Program start | | | | X | Machine on / Fill program completed | Close |
| Temperature display | | X > 3 s | | | Temperature display for 10 seconds | Open or Close |
| Special programs | | | X | | Machine on / Fill program completed | Open or Close |

| CUSTOMER SETTINGS | X | X | | Machine Off | OPEN |
|-------------------------|-----------|-----------|--|-------------|-------|
| | DISPLAY | | | | |
| | UPPER | LOWER | | | |
| Detergent dosage | CH1 | value C16 | | | Open |
| Rinse aid dosage | CH2 | value C18 | | | Open |
| Detergent dosage Cold 1 | CH3 | value C19 | | | Open |
| Detergent dosage Cold 2 | CH4 | value C20 | | | Open |
| Hardness | H01 - H04 | | | | Open |
| Wash cycle counter | P + C74 | value C73 | | | Open |
| Water counter - Total | E + C78 | value C77 | Reset only by Service. | | Open |
| Water counter - Demi | d + C80 | value C79 | Reset by pushing the ON/OFF button for 3 seconds. | | Open |
| CLOSE HOOD | | | | | |
| Hose priming detergent | SF1 | 0 - 1 | Select function with the program button. | | Close |
| Hose priming rinse aid | SF2 | 0 - 1 | Activate appropriate dosing pump with the ON/OFF button. | | Close |
| Acoustic signal | S | 0 - 1 | Activate / deactivate with the ON/OFF button. | | Close |
| Chemicals sensor | CH | 0 - 1 | Activate / deactivate with the ON/OFF button. | | Close |

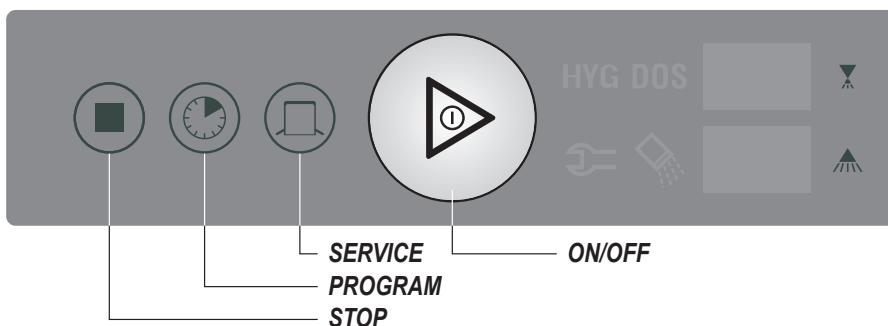
See also page 8 "First run / Customer Menu" and page 33 "Counter Functions".

12.1.2 SERVICE MENU**Requirements: Machine OFF and Hood open.**Push **Stop**, **Program** and **Service** button to enter the Service Menu.

| | | DISPLAY: | UPPER | LOWER |
|--|--|-----------|----------|--|
| CLOSE HOOD (door switch test S1) | | S01 | -- 0 | (ON/OFF button illuminates green) |
| | | S01 | -- 1 | |
| Select appropriate Input or Output by pushing the Program button. | | | | |
| Inputs test: | | | | |
| X13.3 | Impeller switch Push ON/OFF to activate additionally fill valve Y1. | S02 | -- 0 | no signal / -- 1 signal from S2 -- 0 / -- 1 will be displayed alternately |
| X13.5 | Salt switch status | S03 | -- 0 | salt container is filled / -- 1 when empty |
| X13.7 | Strainer | S04 | -- 0 | not in place / -- 1 strainer in place |
| X13.9 | Reserve | S05 | -- 0 | |
| X13.11 | Reserve | S06 | -- 0 | |
| X12.3 | Detergent deficiency ¹⁾ | S07 | -- 0 | no deficiency / -- 1 when empty |
| X12.4 | Rinse aid deficiency ¹⁾ | S08 | -- 0 | no deficiency / -- 1 when empty |
| | ¹⁾ Push ON/OFF to activate the respective dispenser (M4/M3). Activation will persist until remedy of deficiency. | | ... | moving light point – dispenser activated |
| Temperature probes test: 0-105°C = okay / -- 1 = short circuit (>99°C) / -- 2 = open circuit (< 0°C) | | | | |
| X14.1/2 | Temperature sensor booster | B1 | F01 | actual Temperature |
| X14.3/4 | Temperature sensor tank | B2 | F02 | actual Temperature |
| Pressure transmitter test: 0.3 - 4.0V = okay / -- 1 => 4.0V / -- 2 = open circuit < 0.3V | | | | |
| X14.7 | Pressure transmitter booster | B3 | F03 | voltage display (booster level) |
| X14.10 | Pressure transmitter tank | B4 | F04 | voltage display (tank level) |
| Outputs test: -- 0 = not active / -- 1 = active | | | | |
| Hood must be closed. Selected output can be activated with the ON/OFF button. Starting from A01: push Stop button to scroll back. | | | | |
| | Voltage supply Triac | RL1.1 | A00 | -- 0 |
| X1.1/3 | Bypass Triac | RL1 | A01 | -- 0 |
| X2.1/2 | Tank heating | E2 (K2) | RL2 | A02 -- 0 |
| X3.1/3 | Wash pump High Pressure | RL3 | A03 | -- 0 AUXX / AUP Wash pump Low Pressure – left AMXT / AUXT |
| X4.1/3 | External fill | Y2 | RL4 | A04 -- 0 (option) |
| X5.1/3 | Detergent dosage | M4 | RL5 | A05 -- 0 |
| X6.1/3 | Rinse aid dosage | M3 | RL6 | A06 -- 0 |
| X7.1/3 | Fill valve | Y1 | RL7+RL14 | A07 -- 0 |
| X8.1/3 | Drain pump | M5 | RL8 | A08 -- 0 |
| X9.1/3 | Rinse pump | M2 | RL9 | A09 -- 0 |
| X10.1/3 | Booster heating | E1 | RL10 | A10 -- 0 |
| X21.6 | Softener - salting A | Y3.1 | RL11 | A11 -- 0 only with built-in extension board |
| X21.7 | Softener - salting B | Y3.2 | RL12 | A12 -- 0 only with built-in extension board |
| X21.8 | Fill B-A | Y4.1 | RL13 | A13 -- 0 only with built-in extension board |
| X21.9 | Drain / booster | Y4.2 | RL14 | A14 -- 0 only with built-in extension board |
| X22.1/3 | Reserve | RL15 | A15 | -- 0 only with built-in extension board |
| X23.1/3 | Reserve | RL16 | A16 | -- 0 only with built-in extension board |
| X24.1/2 | PFK1 | RL17 | A17 | -- 0 only with built-in extension board |
| X25.1/2 | PFK2 | RL18 | A18 | -- 0 only with built-in extension board |
| X26.1/2 | PFK3 / Wash pump High Pressure | RL19 | A19 | -- 0 only with built-in extension board AUXXT |
| X1.1/3 | Wash pump | RL1+RL1.1 | A20 | AMX / AMXX / AUXX / AUP AMXT / AUXXT |
| | Wash pump Low Pressure – right | | | |
| | Handle lightning | | G r I | - FF |
| | Operation unit test | | BAE | -- 0 |
| | Counter reset (C72-C80 + C84-C85) | | r ES | -- 0 / -- 1 when ON/OFF button is pushed (3s) |

EXIT THE TEST PROGRAM BY OPENING THE HOOD (only possible with menu item "outputs test").

12.1.3 PROGRAMMING / MODIFICATION OF BASIC DATA / SOFTENER TEST



REQUIREMENT: MACHINE "OFF" AND HOOD OPEN.

- Push **Program** and **Service** button together.
Software release will be displayed short-time.
- Push **Stop** button to select the menu item.
 - U01** = Machine type selection
 - U02** = Basic data sheet
 - U03** = Softener test program
- The selected function will be confirmed with the **ON/OFF** button and indicated by the illuminated ON/OFF button.
 - Red** = Machine type selection
 - Blue** = Basic data sheet
 - Green** = Softener test program

MACHINE TYPE SETTING: U01

- Set machine type with the **Stop** button (01 – 26, sequential scan only).
Program Number see page 3.

- Push **ON/OFF** button for 2 seconds.

The selected program with the basic data's will be saved and the "Red" illuminated **ON/OFF** button switches off.

MODIFICATION OF BASIC DATA: U02

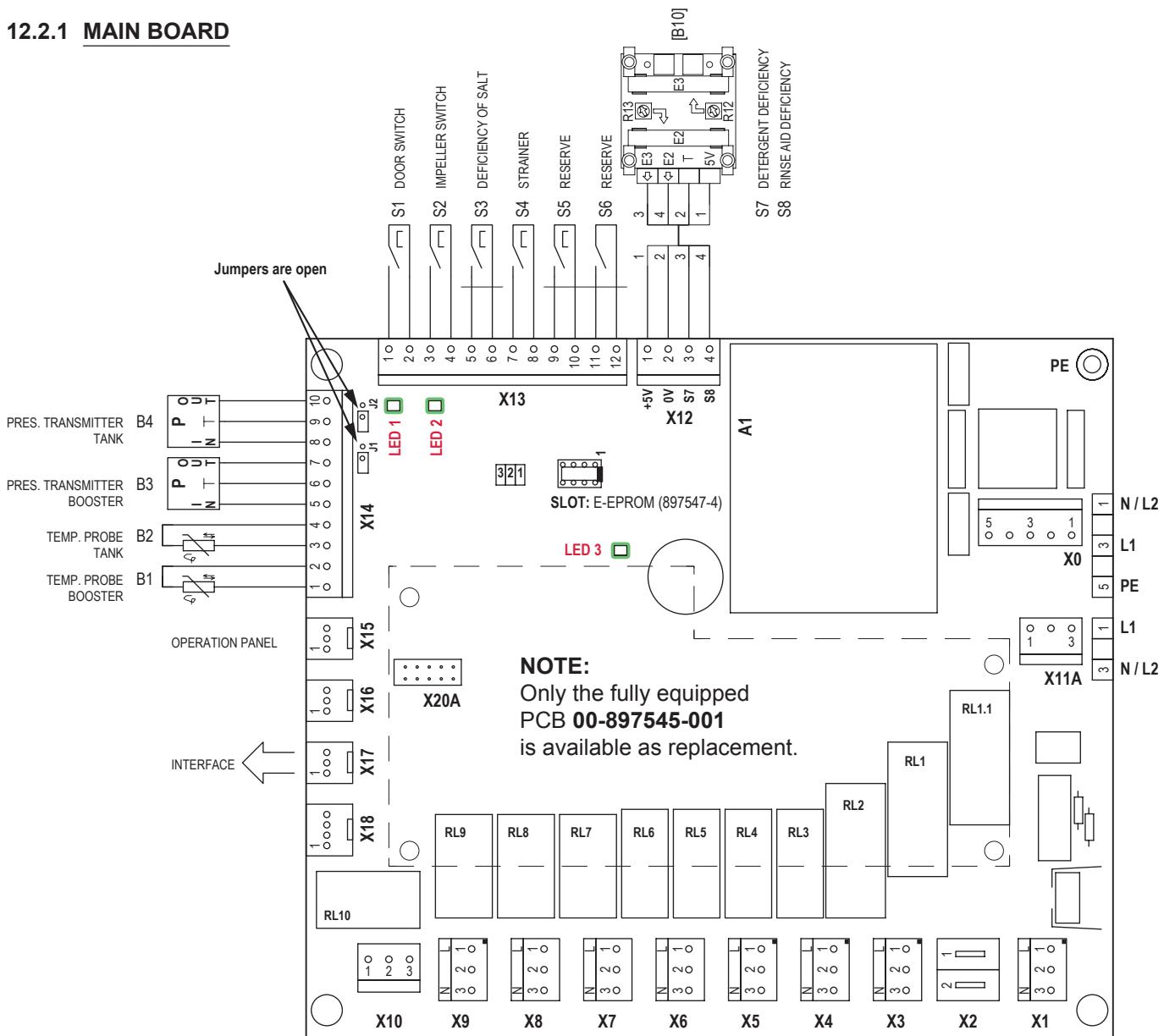
- Set function with the **Stop** button (forwards) or first **Program** button and then **Stop** button (backwards).
(Sequential scan or quick scan by holding the button.)
- Change value upwards (+) with the **Program** button and downwards (-) with the **Service** button.
(Sequential scan or quick scan by holding the button.)
- Decimal points will appear.
- Push and hold the **ON/OFF** button.
New value is saved when the points disappear.

SOFTENER TEST PROGRAM: U03

- Push **ON/OFF** button.
Test program starts according to diagram (see page 20).

12.2 PRINTED CIRCUIT BOARDS

12.2.1 MAIN BOARD



LED 1 hood switch: ON = hood closed

LED 2 impeller switch: unsteady = water flow (pulses)

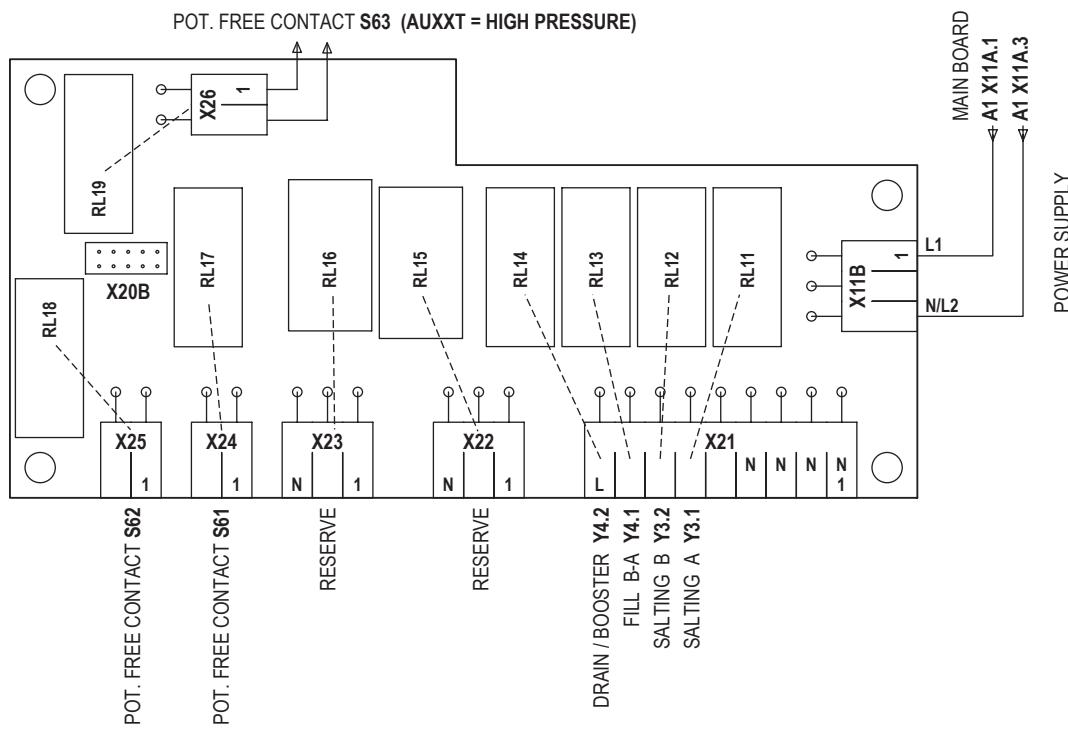
LED 3 processor function: flashing = voltage on, processor running
permanent = voltage on, processor not running

Note: The control works with or without plugged E-EPROM **897547-4**.

TO INSTALL A NEW SOFTWARE RELEASE:

1. **Disconnect control fuse F1.**
2. **Plug in the new E-EPROM and reconnect F1.**
A check is carried out and the stored software will be updated automatically
(the progress is indicated at the display by L9, L8, ...).
3. Set machine type – see page 30, menu **U01** (also to be done after replacing the PCB).
4. **Disconnect control fuse F1, remove E-EPROM and reconnect F1.**

12.2.2 EXTENSION BOARD A3



NOTE:

The additional board (897546-1) is only built in at machines with softener.

This PCB has three potential-free contacts. Each one can be assigned to different switching functions via one parameter (only on extension board):

| Parameter [S61] = | RL17 (X24) switches: | PFK1 |
|-------------------|---|------|
| 0 = | machine "On" | |
| 1 = | program "On" | |
| 2 = | temperature F02 / F05 below pre-set value | |
| 3 = | fill or wash program active | |

| Parameter [S62] = | RL18 (X25) switches: | PFK2 |
|-------------------|--|------|
| 0 = | program "On" | |
| 1 = | machine "On" | |
| 2 = | rinse pump "On" (switch-off delay [C86]) | |
| 3 = | fill program active | |

| Parameter [S63] = | RL19 (X26) switches | PFK3 |
|-------------------|---|------|
| 0 = | fill program active | |
| 1 = | rinse pump "On" (switch-off delay [C86]) | |
| 2 = | temperature F02 / F05 below pre-set value | |
| 3 = | fill or wash program active | |

12.3 COUNTER FUNCTIONS

Request for hygiene program [C71] – down-counter

The number of wash cycles will be subtracted from the preset value ([**S19**] "on").

When "0" is reached, start of hygiene program is requested.

After hygiene cleaning is completed, this counter will be reset to basic value.

Number of hygiene cycles [C72] – up-counter / basic value "0"

The number of completed hygiene cycles is counted.

Reset only possible via basic data.

Note: Control, how often the program has been started.

Number of wash cycles [C73] + [C74] – up-counter / basic value "0"

The number of wash cycles will be counted.

Example **1420** cycles: [C73] = **420** / [C74] = **1**

Note: Readout and note down in the report.

Service interval [C75] + [C76] – down-counter

The number of wash cycles will be subtracted from the preset value ([**S17**] "on").

When [**C75**] + [**C76**] is "0", the service indicator illuminates.

Reset only possible via basic data.

Note: Of interest in case of service contract.

Water consumption [C77] + [C78] – up-counter / basic value "0"

After **200 input pulses** of **S2** (= 1 litre water flow), the counter value will be increased by 1.

Input pulses **below 200** are buffered and counting will continue with the next input pulses.

Reset only possible via basic data.

Note: The customer can readout the actual water consumption (see page 8 "customer menu").

Remaining water quantity (external water treatment) [C79] + [C80] + [S18] – down-counter

This function will be programmed via service mode **U02** (see page 28).

[**S18**] = activation

[**C79**]+[**C80**] = water treatment capacity (liter). Possible settings are [C79] **0-999**, [C80] **0-999 x 1000**.

Example **5500** litres: [C79] = **500** / [C80] = **5**

After **200 input pulses** of **S2** (= 1 litre water flow), the counter value will be decreased by 1.

Input pulses **below 200** are buffered and counting will continue with the next input pulses.

When "0" is reached, "d 0" will be displayed.

Reset to pre-set value via customer menu by pushing the ON/OFF button (see page 8).

Note: The actual value can be checked via customer menu (indication for next replacement of external demineralisation cartridge for example).

Number of salt fillings – deficiency of salt [C84] – up-counter

The number of "salt indicator switch-on" will be counted.

Note: With this parameter you can check how often the softener has been refilled.

Wash cycles with deficiency of salt [C85] – up-counter

The number of started wash cycles in spite of salt deficiency (illuminated salt indicator) will be counted.

Note: Maybe an evidence in the case of calcified machine or heating elements for example.

NOTE:

Starting from E-EPROM rev. 3.0, the actual counter readings keep unchanged after software update as well as settings of detergent and rinse aid dispensers (rev. 3.9).

Reset of all counters can be carried out via menu option **rES** in Service Menu (see also page 29).

13. FAULTS

13.1 UNCRITICAL FAULTS

Fill, wash and drain program can be started.

During the fill program, uncritical faults are only indicated by the indicator lights and error codes (none green/red flashing ON/OFF button).

| INDICATOR | | | THE ON/OFF BUTTON IS FLASHING GREEN/RED ALTERNATELY. | | | |
|---|------|---|--|---|-------------------|--|
| Rinse | Wash | Lamp | FAULT | | PARAM. | |
| AL | |  | Drain fault | Level switch value [F11] still exceeded at the end of the drain cycle. To reset, repeat drain program until value is below [F11]. | F11 | |
| | | | Possible cause | Remedy | | |
| HEI | |  | Thermostop | The thermostop time [C25] is exceeded (max. heating period for wash and fill cycle). Reset via machine "OFF-ON". | C25 S02 S58 | |
| | | | Possible cause | Remedy | | |
| CH1 CH2 | |  | Chemical deficiency | Detergent deficiency X12.3 "on" / rinse aid deficiency X12.4 "on". If both containers are empty, CH1/CH2 is displayed alternately. | S06 | |
| | | | Possible cause | Remedy | | |
| SAL | |  | Salt deficiency | Softener salt deficiency indication – X13.5 "on" (only if softener [S05] = "1"). | S05 | |
| | | | Possible cause | Remedy | | |
| d 0 | | | External water treatment (option) | Only if activated in service mode [S18]. The preset water quantity [C79] + [C80] is reached (down-counter). For reset see customer menu. | C79 C80 S18 | |
| | | | Possible cause | Remedy | | |
| | | | | | | |
| CLOSE Hood (running indication) | | Cause Fill cycle interrupted as hood is open. | Remedy Close hood, filling will continue. | | | |

13.2 CRITICAL FAULTS

Only the drain program can be started. Fill program and all wash programs are locked.

| INDICATOR | | THE ON/OFF BUTTON ILLUMINATES RED. | | | PARAM. |
|-----------|--------------|------------------------------------|--|---|------------|
| Rinse | Wash | Lamp | FAULT | | |
| F01 | -- 1 -- 2 | | Temperature probe BOOSTER B1 | Booster heating RL10 will be switched off immediately. Fill and wash programs are locked, drain program can be started. | |
| | | | Possible cause 1. -- 1 = short circuit (temperature probe or wires to probe). 2. -- 2 = open circuit. 3. Inlet temperature to low. | Remedy 1. Check wires, replace temperature probe. 2. Replace wiring, replace temperature probe if necessary. 3. Check inlet temperature. | |
| F02 | -- 1 -- 2 | | Temperature probe TANK B2 | Tank heating RL2 will be switched off immediately. Fill and wash programs are locked, drain program can be started. | |
| | | | Possible cause 1. -- 1 = short circuit (temperature probe or wires to probe). 2. -- 2 = open circuit | Remedy 1. Check wires, replace temperature probe. 2. Replace wiring, replace temperature probe if necessary. | |
| F03 | -- 1 -- 2 | | Pressure transmitter BOOSTER B3 | Control of input voltage X14.7 – min. 0.3V up to max. 4.0V. If the input voltage is out of range, the running program will be stopped. Fill and wash programs are locked, drain program can be started. | |
| | | | Possible cause 1. -- 1 = short circuit (transmitter or wires to transmitter) / > 4.0V. 2. -- 2 = open circuit / < 0.3V. | Remedy 1. Check wires, replace transmitter B3. 2. Replace wiring, replace B3 if necessary. | |
| F04 | -- 1 -- 2 | | Pressure transmitter TANK B4 | Control of input voltage X14.10 – min. 0.3V up to max. 4.0V. If the input voltage is out of range, the running program will be stopped. Fill and wash programs are locked, drain program can be started. | |
| | | | Possible cause 1. -- 1 = short circuit (transmitter or wires to transmitter) / > 4.0V. 2. -- 2 = open circuit / < 0.3V. | Remedy 1. Check wires, replace transmitter B4. 2. Replace wiring, replace B4 if necessary. | |
| | -- 3 | | Pressure transmitter TANK B4 / SOFTENER | The max. water quantity [C82] is exceeded and value [F16] is not reached. Only "draining" possible. | C82 F16 |
| | | | Possible cause 1. Air trap blocked or leaky. 2. Hose to pressure transmitter leaky. 3. Valve Y4.2 locked (drain direction) or coil defective. 4. Extension board not correctly plugged to Main PCB. | Remedy 1. Check air trap, clean or replace if necessary. 2. Replace hose. 3. Run Softener Test. Replace switching valve if necessary. 4. Plug in correctly. | |
| | | | To quit the fault: start drain program or reload machine program no. (U01 see page 23). | | |
| SIE | | | STRAINER CONTROL | Reed-switch [S4] (X13.7) more than 5 seconds "off". Start of fill and wash programs is locked automatically. | S38 |
| | | | Possible cause 1. Tank strainer is missing or not correctly positioned. 2. Magnet at the strainer is missing. 3. Reed switch in wrong position. 4. Cable break. | Remedy 1. Put strainer correctly in place. 2. Fit magnet. 3. Put reed switch in correct position. 4. Replace reed switch and cable. | |

| INDICATOR | | | THE ON/OFF BUTTON ILLUMINATES RED. | | |
|-----------|------|------|---|--|-------------------|
| Rinse | Wash | Lamp | FAULT | | PARAM. |
| FIL | | | FILL 1 | The fill valve Y1 (RL7) is triggered and the impeller switch S2 does not count (no impulses on X14.3). Reset via input pulses on X14.3 or machine "OFF". | |
| | | | Possible cause with incoming water | Remedy | |
| | | | 1. Bad contact at impeller switch plug (airgap) or PCB. 2. Impeller switch PCB not correctly locked. 3. Reed switch in wrong position. | 1. Check contacts, solder plug (airgap) if necessary. 2. Check PCB and lock in place. 3. Put reed switch in correct position. | |
| | | | Possible cause without incoming water | Remedy | |
| | | | 1. Shut-off valve is closed. 2. Fill valve Y1 defective (wiring and pin). 3. No output signal from PCB A1 (X7.1/3). | 1. Open shut-off valve at site. 2. Check fill valve via service mode and replace if necessary. 3. Replace PCB. | |
| FIL | | ⌚ | FILL 2 | Exceeded fill time [C43]. The fill valve Y1 (RL7) and all other outputs will be switched off immediately. Reset via machine "OFF". | C43 |
| | | | Possible cause | Remedy | |
| | | | 1. See above. 2. Line flow pressure very low. 3. Line strainer clogged. | 1. See above. 2. Check line flow pressure. 3. Clean line strainer. | |
| FIL | | | FILL 3 | External fill valve is triggered, tank level does not rise. | C34 F27 S37 |
| | | | Possible cause | Remedy | |
| | | | 1. Shut-off valve is closed. 2. Fill valve Y1 defective (wiring and pin). 3. Line strainer clogged. | 1. Open shut-off valve at site. 2. Check fill valve via service mode and replace if necessary. 3. Clean line strainer. | |
| UL | | | OVERFLOW PROTECTION | Requirement: machine "off" or "on" / hood "open" or "closed" S1. When [F18] is exceeded, a running program will be stopped: - after 5 seconds [S37] = "1" - immediately [S37] = "0". The drain pump RL8 will be switched on until [F17] is below preset value. | F17 F18 S37 |
| | | | Possible cause | Remedy | |
| | | | 1. Fill valve is jammed and water is running permanently. 2. Hose from air trap to pressure transmitter tank (B4) is leaky. 3. Not enough water is pumped out. - Drain pump clogged. - Kinked drain hose. | 1. Replace fill valve Y1 2. Drain tank manually and replace hose. 3. Drain tank manually. - Dismantle and clean drain pump or replace if necessary. - Place drain hose correctly. | |
| ERR | | ⌚ | INTERFACE | Communication problem. | |
| | | | Possible cause | Remedy | |
| | | | 1. Broken connection: Display / Main PCB 2. Defective Circuit Board. | 1. Check plugs/cable and connect correctly. 2. Replace PCB. | |

13.3 OTHER INDICATIONS

| INDICATOR | | | THE ON/OFF BUTTON IS FLASHING BLUE/RED ALTERNATELY. | | |
|-----------|------|------|---|--------------------------------|--------|
| Rinse | Wash | Lamp | FAULT | | PARAM. |
| | | | Negative Pressure | | |
| | | | Possible cause | Remedy | |
| | | | 1. Wash tank filters blocked. | 1. Remove and flush strainers. | |

URDATENTABELLE

| Program number: | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | 026 | 027 | 028 | 029 | 030 |
|-------------------------------------|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|-----|-----|
| Gesamtaufzeit (total program time): | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Program I | 60 | 60 | 60 | 60 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 47 | 47 | 47 | 47 | 60 | 60 | 60 | 52 | 52 | 52 | 52 | 60 | 60 | -- | -- | -- | -- | |
| Program II | 90 | 90 | 90 | 90 | 75 | 75 | 75 | 75 | 90 | 90 | 90 | 90 | 70 | 70 | 70 | 70 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | -- | -- | -- | -- | -- | |
| Program III | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 240 | 240 | 240 | 240 | 150 | 150 | 150 | 150 | 120 | 120 | 120 | 120 | 240 | 240 | 240 | 240 | 120 | -- | -- | -- | -- | |
| Program IV | -- | -- | -- | -- | 52 DA | 47 DA | 47 DA | 47 DA | 47 DA | -- | -- | -- | -- | 52DA | 52DA | 52DA | 52DA | -- | -- | -- | -- | -- | |
| Program V | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1200HY | 1200HY | 1200HY | 1200HY | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Program VI | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 360 bc | 360 bc | 360 bc | 360 bc | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Tradeshow program | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 5 | 5 | -- | -- | -- | -- | |

| Zeiten: | Timer: | Min | Max | Step | Unit | AMX | AMXS | AMXR | AMXXS | AMXXR | AMXXRS | AUXX | AUXXS | AUXXR | AUXXRS | AUP | AUPS | AUPR | AUPRS | AMXT | AMXTS | AMXTR | AMXTRS | AUXXT | AUXXTR | AUXXTS | AUXXTR | AUXXTRS | AM900-10N | AMS900-10N | | | |
|---------|------------------------------|------------------------------|-----|------|------|-----|------|------|-------|-------|--------|------|-------|-------|--------|-----|------|------|-------|------|-------|-------|--------|-------|--------|--------|--------|---------|-----------|------------|-----|-----|--|
| C02 | Waschzeit P01 | Wash time P01 | 0 | 999 | 1 | sec | 35 | 35 | 35 | 35 | 27 | 27 | 27 | 27 | 27 | 23 | 23 | 23 | 35 | 35 | 35 | 35 | 27 | 27 | 27 | 27 | 35 | 35 | | | C02 | | |
| C03 | Waschzeit P02 | Wash time P02 | 0 | 999 | 1 | sec | 65 | 65 | 65 | 50 | 50 | 50 | 65 | 65 | 65 | 45 | 45 | 45 | 45 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | C03 | | |
| C04 | Waschzeit P03 | Wash time P03 | 0 | 999 | 1 | sec | 95 | 95 | 95 | 95 | 95 | 95 | 215 | 215 | 215 | 125 | 125 | 125 | 125 | 95 | 95 | 95 | 95 | 215 | 215 | 215 | 215 | 95 | 95 | | | C04 | |
| C05 | Waschzeit P04 | Wash time P04 | 0 | 999 | 1 | sec | 0 | 0 | 0 | 0 | 27 | 27 | 27 | 27 | 27 | 22 | 22 | 22 | 0 | 0 | 0 | 0 | 27 | 27 | 27 | 27 | 0 | 0 | | | C05 | | |
| C06 | Spülzeit 1 (P01) | Rinse time P01 | 0 | 99 | 0,5 | sec | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,0 | 7,0 | 7,0 | 7,0 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | C06 | | |
| C07 | Spülzeit 2 (P02) | Rinse time P02 | 0 | 99 | 0,5 | sec | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | C07 | | | |
| C08 | Spülzeit 3 (P03) | Rinse time P03 | 0 | 99 | 0,5 | sec | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | C08 | | | |
| C15 | Vordosierung Reiniger | Pre-dosage detergent | 0 | 100 | 1 | sec | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 32 | 32 | 32 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | C15 | | | |
| C16 | Waschdosierung Reiniger 1 | Wash-dosage detergent 1 | 0 | 50 | 1 | sec | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 16 | 16 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | C16 | | | |
| C17 | Vordosierung Klarspüler | Pre-dosage rinse aid | 0 | 100 | 1 | sec | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 7 | 7 | 7 | 46 | 46 | 46 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | C17 | | |
| C18 | Waschdosierung Klarspülung 1 | Wash-dosage rinse aid 1 | 0 | 50 | 0,5 | sec | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2,5 | 2,5 | 2,5 | 2,5 | 14 | 14 | 14 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | C18 | | | |
| C19 | Waschdosierung Klarspülung 2 | Wash-dosage rinse aid 2 | 0 | 50 | 0,5 | sec | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | C19 | | | | |
| C20 | Waschdosierung Reiniger 2 | Wash-dosage detergent 2 | 0 | 999 | 1 | sec | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | C20 | | | | |
| C25 | Thermostop Boiler | Thermostop booster | 0 | 100 | 1 | min | 20 | 20 | 20 | 20 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 20 | 20 | 20 | 15 | 15 | 15 | 15 | 20 | 20 | 20 | C25 | | | | |
| C27 | Startverzögerung Hochdruck | Time delay high pressure | 0 | 999 | 1 | sec | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | C27 | | | | |
| C28 | Waschzeit Ablaufprogramm | wash time (draining) | 0 | 999 | 1 | sec | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | C28 | | | | |
| C32 | Dauerlauf Waschp. max. | Continuous operation wash p. | 0 | 100 | 1 | min | -- | -- | -- | -- | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | C32 | | | | | |
| C37 | Reserve | Reserve | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | C37 | | | | | |
| C43 | Füllzeit max. | Filltime max. | 0 | 999 | 1 | sec | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | C43 | | | | |
| C44 | Spülzeit 4 (P04) | Rinse time P04 | 0 | 99 | 0,5 | sec | 0 | 0 | 0 | 0 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | C44 | | | |
| C45 | Spülzeit 5 (P05) | Rinse time P05 | 0 | 99 | 0,5 | sec | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | C45 | | | | | |
| C46 | Spülzeit 6 (P06) | Rinse time P06 | 0 | 99 | 0,5 | sec | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | |

URDATENTABELLE

Program number: 001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 021 022 023 024 025 026 027 028 029 030

| Drucksensor Tank:(B4) | Pressure sensor wash tank: | Min | Max | Step | Unit | AMX | AMXS | AMXR | AMXRS | AMXX | AMXXS | AMXXR | AMXXRS | AUXX | AUXXS | AUXXR | AUXXRS | AUP | AUPS | AUPR | AUPRS | AMXT | AMXTS | AMXTR | AMXTRS | AUXXT | AUXXTS | AUXXTR | AUXXTRS | AM900-10N | AMS900-10N | 0 | 0 | 0 | 0 |
|-----------------------|----------------------------|-----|-----|------|------|-----|------|------|-------|------|-------|-------|--------|------|-------|-------|--------|-----|------|------|-------|------|-------|-------|--------|-------|--------|--------|---------|-----------|------------|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Schaltfunktionen: Switching functions: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------------|------------------------------|---|---|---|--|----|----|----|----|----|----|----|----|----|---|----|---|----|---|----|---|----|---|----|---|----|----|----|-----|-----|-----|
| S01 | Haubenstart | Hoodstart | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | S01 |
| S02 | Thermostop B1 - Boiler | Thermostop B1 | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | S02 |
| S03 | Thermostop B2 - Tank | Thermostop B2 | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S03 |
| S04 | Haubenlift | Hoodlift | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S04 |
| S05 | Enthärter | Softener | 0 | 1 | 1 | | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | S05 |
| S06 | Chemiesensork | Chemical sensor system | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | S06 |
| S07 | Eingänge S07/08 deaktivieren | Deactivate inputs S07/08 | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | S07 |
| S11 | Programm P04 <Temp. | Program P04 low temperature | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S11 |
| S15 | Temp. Anzeige Dauer | Perm. temperature indication | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S15 | |
| S16 | Anzeige °C - °F | Indicator °C - °F | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S16 | |
| S17 | Sevice Intervall | Service interval | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S17 | |
| S18 | Wasserzähler 2 | Counter 2: water consumption | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S18 | |
| S19 | Aufforderung Hygieneprog. | Demand of hygiene cycle | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S19 | |
| S20 | Externe Tankfüllung | External filling | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S20 | |
| S21 | Hochdruckwaschung | High pressure washing | 0 | 1 | 1 | | -- | -- | -- | -- | -- | -- | -- | -- | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | -- | -- | S21 | | |
| S22 | Hochdruck direkt | High pressure directly | 0 | 1 | 1 | | -- | -- | -- | -- | -- | -- | -- | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S22 | |
| S23 | Unterdruckabschaltung | Vacuum switch off | 0 | 1 | 1 | | -- | -- | -- | -- | -- | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | S23 | |
| S24 | Signalgeber | Beeper | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S24 | |

| Schaltfunktionen: Switching functions: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------|-------------------------------|---|---|---|--|----|---|----|----|----|---|----|----|----|---|----|----|----|---|----|---|----|---|----|---|----|---|----|-----|-----|--|
| S26 | 6 Stundenabschaltung | 6h switch off | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | S26 | |
| S32 | Wärmerückgewinnung | Heat recovery cycle | 0 | 1 | 1 | | -- | 1 | 1 | -- | -- | 1 | 1 | -- | -- | 1 | 1 | -- | -- | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S32 | |
| S33 | Verriegel.Tankheiz.-WP | Locking tank heater-wash pum. | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S33 | | |
| S34 | Verriegel.Tankheiz.-Boiler | Locking tank heater-booster | 0 | 1 | 1 | | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | S34 | |
| S35 | Enthärteranzeige 1 | Softener indication 1 | 0 | 1 | 1 | | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | S35 | |
| S36 | Enthärteranzeige 2 | Softener indication 2 | 0 | 1 | 1 | | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | -- | 0 | S36 | |
| S38 | Siebüberwachung | Strainer control | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | S38 | |
| S40 | Füllprogramm mit Reg. | Fill programm with reg. | 0 | 1 | 1 | | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | S40 | |
| S42 | Messeprogramm | Tradeshow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URDATENTABELLE

| | Program number: | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | 026 | 027 | 028 | 029 | 030 | | |
|-------------------------------------|------------------------------|-------------------------|-----|------|------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|--------|------|------|-------|------|-------|-------|--------|-------|--------|--------|---------|-----------|------------|--------------|--------------|-----|
| Gesamtaufzeit (total program time): | Program I | 60 | 60 | 60 | 60 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 47 | 47 | 47 | 47 | 60 | 60 | 60 | 60 | 52 | 52 | 52 | 52 | 60 | 60 | 90 | 90 | -- | -- | | |
| | Program II | 90 | 90 | 90 | 90 | 75 | 75 | 75 | 75 | 90 | 90 | 90 | 90 | 70 | 70 | 70 | 70 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 120 | 180 | | |
| | Program III | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 240 | 240 | 240 | 240 | 150 | 150 | 150 | 150 | 120 | 120 | 120 | 120 | 240 | 240 | 240 | 240 | 120 | 120 | -- | -- | -- | -- | | |
| | Program IV | -- | -- | -- | -- | 52 DA | 52 DA | 47 DA | 47 DA | 47 DA | 47 DA | -- | -- | -- | -- | 52DA | 52DA | 52DA | 52DA | -- | -- | -- | -- | -- | -- | | |
| | Program V | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1200HY | 1200HY | 1200HY | 1200HY | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| | Program VI | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 360 bc | 360 bc | 360 bc | 360 bc | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| | Tradeshow program | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | -- | -- | | |
| Zeiten: | Timer: | Min | Max | Step | Unit | AMX | AMXS | AMXR | AMXX | AMXXS | AMXXR | AMXXRS | AUXX | AUXXS | AUXXR | AUXRS | AUP | AUPS | AUPR | AUPRS | AMXT | AMXTS | AMXTR | AMXTRS | AUXXT | AUXXTS | AUXXTR | AUXXTRS | AM900-10N | AMS900-10N | Baraid S 500 | Baraid S 800 | |
| C01 | Wartezeit Start | Waiting period start | 0 | 999 | 1 | sec | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | C01 |
| C02 | Waschzeit P01 | Wash time P01 | 0 | 999 | 1 | sec | 35 | 35 | 35 | 27 | 27 | 27 | 27 | 27 | 23 | 23 | 23 | 35 | 35 | 35 | 27 | 27 | 27 | 27 | 35 | 35 | 67 | 67 | | C02 | | | |
| C03 | Waschzeit P02 | Wash time P02 | 0 | 999 | 1 | sec | 65 | 65 | 65 | 50 | 50 | 50 | 50 | 65 | 65 | 65 | 45 | 45 | 45 | 45 | 65 | 65 | 65 | 65 | 65 | 65 | 94 | 154 | | C03 | | | |
| C04 | Waschzeit P03 | Wash time P03 | 0 | 999 | 1 | sec | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 215 | 215 | 215 | 125 | 125 | 125 | 95 | 95 | 215 | 215 | 215 | 215 | 95 | 95 | 95 | 95 | 95 | C04 | | |
| C05 | Waschzeit P04 | Wash time P04 | 0 | 999 | 1 | sec | 0 | 0 | 0 | 0 | 27 | 27 | 27 | 27 | 27 | 22 | 22 | 22 | 0 | 0 | 0 | 27 | 27 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | C05 | | |
| C06 | Spülzeit 1 (P01) | Rinse time P01 | 0 | 99 | 0,5 | sec | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,0 | 7,0 | 7,0 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | C06 | |
| C07 | Spülzeit 2 (P02) | Rinse time P02 | 0 | 99 | 0,5 | sec | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 11,0 | 11,0 | C07 | |
| C08 | Spülzeit 3 (P03) | Rinse time P03 | 0 | 99 | 0,5 | sec | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | C08 | | |
| C09 | Abpumpen 1 | Drain 1 | 0 | 999 | 1 | sec | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 13 | 13 | C09 | |
| C10 | Abpumpen 2 | Drain 2 | 0 | 999 | 1 | sec | 6 | 6 | 3 | 3 | 6 | 6 | 3 | 3 | 6 | 6 | 3 | 3 | 6 | 6 | 3 | 3 | 6 | 6 | 3 | 3 | 6 | 6 | 10 | 10 | C10 | | |
| C11 | Abpumpen 3 | Drain 3 | 0 | 999 | 1 | sec | 65 | 65 | 60 | 60 | 90 | 90 | 90 | 90 | 120 | 120 | 105 | 105 | 120 | 105 | 150 | 150 | 140 | 140 | 260 | 260 | 270 | 270 | 65 | 65 | 50 | 50 | C11 |
| C12 | Abpumpen 4 | Drain 4 | 0 | 999 | 1 | sec | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 30 | 30 | 20 | 30 | 20 | 20 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 20 | 20 | 50 | 50 | C12 |
| C13 | Tropfzeit | Dripping time | 0 | 999 | 1 | sec | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 3 | 3 | C13 |
| C14 | Vorheizung Boiler | Pre-heating booster | 0 | 999 | 1 | sec | 10 | 10 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 10 | 10 | 10 | 10 | C14 |
| C15 | Vordosierung Reiniger | Pre-dosage detergent | 0 | 100 | 1 | sec | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 32 | 32 | 32 | 32 | 16 | 16 | 16 | 16 | 16 | 12 | 12 | C15 | |
| C16 | Waschdosierung Reiniger 1 | Wash dosage detergent 1 | 0 | 50 | 1 | sec | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 16 | 16 | 16 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | C16 |
| C17 | Spülösung Klarspüler | Pre-dose rinse aid | 0 | 100 | 1 | sec | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 7 | 7 | 7 | 46 | 46 | 46 | 46 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | C17 |
| C18 | Waschdosierung Klarspülung 1 | Wash-dosage rinse aid 1 | 0 | 50 | 0,5 | sec | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2,5 | 2,5 | 2,5 | 14 | 14 | 14 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | C18 | | |
| C19 | Waschdosierung Klarspülung 2 | Wash-dosage rinse aid 2 | 0 | 50 | 0,5 | sec | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3,5 | 3,5 | 3,5 | 3,5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | C19 | | |
| C20 | Waschdosierung Reiniger 2 | Wash-dosage detergent 2 | 0 | 999 | 1 | sec | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | C20 | | | |
| C21 | Wartezeit Ende | Waiting period end | 0 | 100 | 1 | sec | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | C21 | | |
| C22 | Standbytemperatur Ein | Standby temperature on | 0 | 999 | 1 | sec | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | C22 | | |
| C23 | Regeneration (Besalzung)</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URDATENTABELLE

| Program number: | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | 026 | 026 | 026 | 029 | 030 |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| Zähler / Zeiten: | Counters / Timers: | | | | | AMX | AMXS | AMXR | AMXRS | AMXX | AMXXS | AMXXR | AMXXRS | AUXX | AUXXR | AUXXRS | AUP | AUPS | AUPR | AUPRS | AMXT | AMXTS | AMXTR | AMXTRS | AUXXT | AUXXTS | AUXXTR | AUXXTRS | AM900-10N | AMS900-10N | Baraid S 500 | Baraid S 800 | | | | |
|------------------|--------------------------------|---------------------------------|-----|--------|------|--------|------|------|-------|------|-------|-------|--------|------|-------|--------|-----|------|------|-------|------|-------|-------|--------|-------|--------|--------|---------|-----------|------------|--------------|--------------|-----|-----|----|-----|
| | | Min | Max | Step | Unit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C57 | Enthärt. Auswaschung 1 | Wash out 1 (softener) | 0 | 999 | 1 | Imp. | - | 100 | - | 100 | - | 100 | - | 100 | -- | 100 | - | 100 | - | 100 | - | 100 | - | 100 | - | 100 | - | 100 | - | 100 | - | 100 | - | C57 | | |
| C58 | Enthärt. Auswaschung 2 | Wash out 2 (softener) | 0 | 999 | 1 | Imp. | - | 30 | - | 30 | - | 30 | - | 30 | -- | 30 | - | 30 | - | 30 | - | 30 | - | 30 | - | 30 | - | 30 | - | 30 | - | 30 | - | C58 | | |
| C59 | Enthärt. Auswaschung 3 | Wash out 3 (softener) | 0 | 9 | 1K | Imp. | - | -- | - | - | - | - | - | - | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | C59 | | |
| C60 | Härte H01 (1-7dH) | Degree of hardness H01 | 0 | 999 | 1 | Liter | - | 140 | - | 140 | - | 140 | - | 140 | -- | 140 | - | 140 | - | 140 | - | 140 | - | 140 | - | 140 | - | 140 | - | 140 | - | 140 | - | C60 | | |
| C61 | Härte H02 (8-14dH) | Degree of hardness H02 | 0 | 999 | 1 | Liter | - | 80 | - | 80 | - | 80 | - | 80 | -- | 80 | - | 80 | - | 80 | - | 80 | - | 80 | - | 80 | - | 80 | - | 80 | - | 80 | - | C61 | | |
| C62 | Harte H03 (15-21dH) | Degree of hardness H03 | 0 | 999 | 1 | Liter | - | 40 | - | 40 | - | 40 | - | 40 | -- | 40 | - | 40 | - | 40 | - | 40 | - | 40 | - | 40 | - | 40 | - | 40 | - | 40 | - | C62 | | |
| C63 | Härte H04 (22-30dH) | Degree of hardness H04 | 0 | 999 | 1 | Liter | - | 20 | - | 20 | - | 20 | - | 20 | -- | 20 | - | 20 | - | 20 | - | 20 | - | 20 | - | 20 | - | 20 | - | 20 | - | 20 | - | C63 | | |
| C64 | Boilerfüllung Spülung 1 | Filling booster rinse 1 | 0 | 999 | 1 | Imp. | - | -- | - | - | - | - | - | - | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | C64 | | |
| C65 | Boilerfüllung Spülung 2 | Filling booster rinse 2 | 0 | 9 | 1K | Imp. | - | -- | - | - | - | - | - | - | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | C65 | | |
| C66 | Boilerfüllung Spülung 3 | Filling booster rinse 3 | 0 | 999 | 1 | Imp. | - | -- | - | - | - | - | - | - | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | C66 | | |
| C67 | Boilerfüllung Spülung 4 | Filling booster rinse 4 | 0 | 999 | 1 | Imp. | - | -- | - | - | - | - | - | - | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | C67 | | |
| C68 | Boilererstbefüllung 1 | Initial fill 1 booster | 0 | 999 | 1 | Imp. | - | -- | - | - | - | - | - | - | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | C68 | | |
| C69 | Boilererstbefüllung 2 | Initial fill 2 booster | 0 | 9 | 1K | Imp. | - | -- | - | - | - | - | - | - | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | C69 | | |
| C70 | Taktung Vorspülbehälter spülen | Prewash box (pulsing wash out) | 0 | 999 | 1 | Imp. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | C70 | | | |
| C71 | Aufforderung Hygieneprog. | Demand of hygiene cycle | 0 | 999x10 | 10 | wash | - | -- | - | - | - | - | - | - | -- | - | 250 | 250 | 250 | 250 | - | -- | - | - | - | - | - | - | - | - | - | - | - | C71 | | |
| C72 | Anzahl Hygiene Programme | Number of hygiene cycles | 0 | 999 | 1 | wash | - | -- | - | - | - | - | - | - | -- | - | 0 | 0 | 0 | 0 | - | -- | - | - | - | - | - | - | - | - | - | - | - | C72 | | |
| C73 | Zählerstand Waschungen 1 | Counter 1: wash program | 0 | 999 | 1 | wash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C73 | | | |
| C74 | Zählerstand Waschungen 1x1K | Counter 1x1K: wash program | 0 | 999 | 1K | wash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C74 | | | |
| C75 | Serviceintervall | Service interval | 0 | 999 | 1 | wash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C75 | | | |
| C76 | Serviceintervall x 1K | Service interval x 1K | 0 | 999 | 1K | wash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C76 | | | |
| C77 | Gesamtwasserzähler 1 | Counter 1: total water cons. | 0 | 999 | 1 | Liter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C77 | | | |
| C78 | Gesamtwasserzähler 1x1K | Counter 1x1K: total water cons. | 0 | 999 | 1K | Liter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C78 | | | |
| C79 | Wasserzähler 2 | Water counter 2 | 0 | 999 | 1 | Liter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C79 | | | |
| C80 | Wasserzähler 2 x 1K | Water counter 2x1K | 0 | 999 | 1K | Liter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C80 | | | |
| C81 | Taktungen abpumpen 2 | Pulsing draining 2 | 2 | 15 | 1 | Ablauf | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 2 | 2 | 2 | C81 | | | |
| C82 | Füllmenge max. | Water contents max. | 0 | 999 | 1 | Liter | 35 | 35 | 35 | 35 | 45 | 45 | 45 | 45 | 45 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 70 | 70 | 70 | 70 | 110 | 110 | 110 | 110 | 35 | 35 | 25 | 25 | C82 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | Program number: | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | 026 | 026 | 029 | 030 | | | |
|--------------------------------|-----------------------------------|--------------------------------------|------|------|------|------|------|------|-------|------|-------|-------|--------|------|-------|-------|--------|------|------|------|-------|------|-------|-------|--------|-------|--------|--------|---------|-----------|------------|--------------|--------------|-----|
| Drucksensor Tank:(B4) | Pressure sensor wash tank: | Min | Max | Step | Unit | AMX | AMXS | AMXR | AMXRS | AMXX | AMXXS | AMXXR | AMXXRS | AUXX | AUXXS | AUXXR | AUXXRS | AUP | AUPS | AUPR | AUPRS | AMXT | AMXTS | AMXTR | AMXTRS | AUXXT | AUXXTS | AUXXTR | AUXXTRS | AM900-10N | AMS900-10N | Baraid S 500 | Baraid S 800 | |
| F11 | AL - Fehler | AL - draining failure | 0,5 | 3,5 | 0,01 | Volt | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | F11 | | |
| F12 | Füllanz. 1 / Heizung / WP Ablauf | Fill ind. 1/en. heater./ WP draining | 0,5 | 3,5 | 0,01 | Volt | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,60 | F12 |
| F13 | Unterdruckabschaltung | Vacuum switch off | 0,5 | 3,5 | 0,01 | Volt | -- | -- | -- | -- | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | F13 | |
| F14 | Füllanz. 2 | Fill indication 2 | 0,5 | 3,5 | 0,01 | Volt | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,25 | 1,25 | 1,25 | 1,25 | 1,25 | 1,25 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | F14 | | |
| F15 | Abpumpen 1 | Draining 1 | 0,5 | 3,5 | 0,01 | Volt | 1,05 | 1,05 | 1,05 | 1,05 | 1,60 | 1,60 | 1,60 | 1,60 | 1,95 | 1,95 | 1,95 | 1,95 | 1,95 | 1,95 | 1,05 | 1,05 | 1,05 | 1,05 | 1,95 | 1,95 | 1,95 | 1,95 | 1,95 | 1,95 | 1,95 | 1,95 | F15 | |
| F16 | Tank voll | Wash tank full | 0,5 | 3,5 | 0,01 | Volt | 1,00 | 1,00 | 1,00 | 1,00 | 1,55 | 1,55 | 1,55 | 1,55 | 1,90 | 1,90 | 1,90 | 1,90 | 1,90 | 1,90 | 1,00 | 1,00 | 1,00 | 1,00 | 1,90 | 1,90 | 1,90 | 1,90 | 1,90 | 1,90 | 1,90 | F16 | | |
| F17 | UL Aus | Overflow off | 0,5 | 3,5 | 0,01 | Volt | 1,05 | 1,05 | 1,05 | 1,05 | 1,60 | 1,60 | 1,60 | 1,60 | 2,05 | 2,05 | 2,05 | 2,05 | 2,05 | 2,05 | 1,05 | 1,05 | 1,05 | 1,05 | 2,05 | 2,05 | 2,05 | 2,05 | 2,05 | 2,05 | 2,05 | F17 | | |
| F18 | UL Ein | Overflow on | 0,5 | 3,5 | 0,01 | Volt | 1,30 | 1,30 | 1,30 | 1,30 | 1,90 | 1,90 | 1,90 | 1,90 | 2,25 | 2,25 | 2,25 | 2,25 | 2,25 | 2,25 | 1,30 | 1,30 | 1,30 | 1,30 | 2,25 | 2,25 | 2,25 | 2,25 | 2,25 | 2,25 | 1,30 | 1,30 | F18 | |
| F19 | Tank voll im Hyg / BC-Programm | Wash tank full (hygiene cycle) | 0,5 | 3,5 | 0,01 | Volt | 1,20 | 1,20 | 1,20 | 1,20 | 1,20 | 1,20 | 1,20 | 1,20 | 1,55 | 1,55 | 1,55 | 1,55 | 1,55 | 1,55 | 1,20 | 1,20 | 1,20 | 1,20 | 1,65 | 1,65 | 1,65 | 1,65 | 1,65 | 1,65 | 1,65 | 1,65 | F19 | |
| F20 | Abpumpen Basic-Clean | Draining basic-clean | 0,5 | 3,5 | 0,01 | Volt | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | F20 | | | | |
| Drucksensor Boiler:(B3) | Pressure sensor booster: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F21 | Reserve | Reserve | 0,5 | 3,5 | 0,01 | Volt | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | F21 | | | |
| F22 | Heizung | Enabling heater | 0,5 | 3,5 | 0,01 | Volt | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | F22 | | |
| F23 | Füllung AUS | Filling off | 0,5 | 3,5 | 0,01 | Volt | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | F23 | | |
| F24 | Füllung Ein | Filling on | 0,5 | 3,5 | 0,01 | Volt | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | 0,88 | F24 | | |
| F25 | Reserve | Reserve | 0,5 | 3,5 | 0,01 | Volt | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | F25 | | | |
| F26 | Regelhysteres Druck | Pressure control hysteresis | 0,00 | 1,00 | 0,01 | Volt | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | F26 | | | |
| F27 | Spannungsänderung ext. Füllung | Voltage change (ext. filling) | 0,0 | 3,5 | 0,01 | Volt | 0,10 | 0,10 | 0,10 | 0,10 | 0,10 | 0,10 | 0,10 | 0,10 | 0,10 | 0,10 | 0,10 | 0,10 | 0,10 | 0,10 | 0,10 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | F27 | | |
| F28 | Unteres Level Vorspülbehälter | Reserve | 0,0 | 3,5 | 0,01 | Volt | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | F28 | | |
| F29 | Oberes Level Vorspülbehälter | Reserve | 0,0 | 3,5 | 0,01 | Volt | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | 0,68 | F29 | | |
| F30 | Reserve | Reserve | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | F30 | | | | |
| F31 | Reserve | Reserve | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | F31 | | | | |
| F32 | B1 Füllung 1 Basic-Clean | B1 filling 1 basic-clean | 0 | 99 | 1 | °C | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 90 | 90 | 90 | 90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | F32 | | | |
| F33 | B1 Füllung 2 Basic-Clean | B1 filling 2 basic-clean | 0 | 99 | 1 | °C | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 80 | 80 | 80 | 80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | F33 | | | |
| F34 | B2 Tank Basic-Clean | B2 tank basic-clean | 0 | 99 | 1 | °C | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 70 | 70 | 70 | 70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | F34 | | | |
| F35 | Reserve | Reserve | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | F35 | | | | |
| F36 | Reserve | Reserve | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | F36 | | | | |
| Schaltfunktionen: | Switching functions: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S01 | Haubenstart | Hoodstart | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | S01 | | |
| S02 | Thermostop B1 - Boiler | Thermostop B1 | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | S02 | | |
| S03 | Thermostop B2 - Tank | Thermostop B2 | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S03 | | | |
| S04 | Haubenlift | Hoodlift | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | S04 | | | |
| S05 | Enthärter | Softener | 0 | 1 | 1 | | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- | 1 | S05 | | | |
| S06 | Chemiesensorik | Chemical sensor system | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | S06 | | |
| S07 | Eingänge S07/08 deaktivieren | Deactivate inputs S07/08 | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | S07 | | | |
| S08 | Program P01 | Program P01 | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | S08 | | | |
| S09 | Program P03 | Program P03 | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | S09 | | |
| S10 | Program P04 | Program P04 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URDATENTABELLE

URDATENTABELLE

Gesamtaufzeit (total program time):

| Program number: | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Program I | 75,0 | 75 | 75 | 60 | 60 | | | | | | | | | | |
| Program II | 150 | 150 | 150 | 120 | 120 | | | | | | | | | | |

Zeiten:

| | Timer: | Min | Max | Step | Unit | 602-10 | 602-11 | 602S-11 | 612-10 | 612S-10 | | | | | |
|-----|-----------------------------------|--------------------------------|-----|------|------|--------|--------|---------|--------|---------|------|--|--|--|--|
| C01 | Wartezeit Start | Waiting period start | 0 | 999 | 1 | sec | 1 | 1 | 1 | 1 | | | | | |
| C02 | Waschzeit P01 | Wash time P01 | 0 | 999 | 1 | sec | 46 | 49 | 49 | 34 | 34 | | | | |
| C03 | Waschzeit P02 | Wash time P02 | 0 | 999 | 1 | sec | 121 | 124 | 124 | 94 | 94 | | | | |
| C04 | Spülzeit | Rinse time | 0 | 99 | 0,5 | sec | 12,0 | 9,0 | 9,0 | 9,0 | 9,0 | | | | |
| C05 | Abpumpen 1 | Drain 1 | 0 | 999 | 1 | sec | 10 | 10 | 10 | 10 | 10 | | | | |
| C06 | Abpumpen 2 | Drain 2 | 0 | 999 | 1 | sec | 65 | 65 | 65 | 65 | 65 | | | | |
| C07 | Abpumpen 3 | Drain 3 | 0 | 999 | 1 | sec | 20 | 20 | 20 | 20 | 20 | | | | |
| C08 | Abpumpen 4 | Drain 4 | 0 | 999 | 1 | sec | 6 | 6 | 6 | 6 | 6 | | | | |
| C09 | Tropfzeit | Dripping time | 0 | 999 | 1 | sec | 15 | 15 | 15 | 15 | 15 | | | | |
| C10 | Vorheizung Boiler | Pre-heating booster | 0 | 999 | 1 | sec | 10 | 10 | 10 | 10 | 10 | | | | |
| C11 | Vordosierung Reiniger | Pre-dosage detergent | 0 | 100 | 1 | sec | 11 | 11 | 11 | 11 | 11 | | | | |
| C12 | Waschdosierung Reiniger 1 | Wash-dosage detergent 1 | 0 | 50 | 0,5 | sec | 10,5 | 10,5 | 10,5 | 10,5 | 10,5 | | | | |
| C13 | Vordosierung Klarspüler | Pre-dosage rinse aid | 0 | 100 | 1 | sec | 15 | 15 | 15 | 15 | 15 | | | | |
| C14 | Waschdosierung Klarspülung 1 | Wash-dosage rinse aid 1 | 0 | 50 | 0,5 | sec | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | | | | |
| C15 | Wartezeit Ende | Waiting period end | 0 | 100 | 1 | sec | 1 | 1 | 1 | 1 | 1 | | | | |
| C16 | Thermostop Boiler | Thermostop booster | 0 | 100 | 1 | min | 20 | 20 | 20 | 20 | 20 | | | | |
| C17 | Boilererstbefüllung (Druckboiler) | Initial fill booster | 0 | 99 | 1 | sec | 30 | 30 | 30 | 30 | 30 | | | | |
| C18 | Spülzeit Füllprogramm | Rinse time fill program | 0 | 99 | 1 | sec | 12 | 15 | 15 | 15 | 15 | | | | |
| C19 | Spülzeit Ablaufprogramm | Rinse time drain program | 0 | 99 | 1 | sec | 12 | 20 | 20 | 20 | 20 | | | | |
| C20 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |
| C21 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |
| C22 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |
| C23 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |
| C24 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |
| C25 | Regeneration (Besalzung) | Regeneration | 0 | 999 | 1 | sec | --- | --- | 25 | --- | 25 | | | | |
| C26 | Besalzung nachdrücken | Resqueezing | 0 | 10 | 0,1 | sec | --- | --- | 0,6 | --- | 0,6 | | | | |
| C27 | Einwirkzeit | Residence time | 0 | 999 | 1 | sec | --- | --- | 120 | --- | 120 | | | | |
| C28 | Pause bis zum Nachdrücken | Break to resqueezing | 0 | 999 | 1 | sec | --- | --- | 10 | --- | 10 | | | | |
| C29 | Pause zw. den Auswaschungen | Break between wash outs | 0 | 999 | 1 | sec | --- | --- | 10 | --- | 10 | | | | |
| C30 | Regelhysterese Temperatur | Temperature control hysteresis | 0 | 5 | 1 | °C | 1 | 1 | 1 | 1 | 1 | | | | |

URDATENTABELLE

| Program number: | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Program I | 75,0 | 75 | 75 | 60 | 60 | | | | | | | | | | |
| Program II | 150 | 150 | 150 | 120 | 120 | | | | | | | | | | |

Gesamtaufzeit (total program time):

| Zähler: | Counters: | Min | Max | Step | Unit | | | | | | | | | | |
|---------|--------------------------------|-------------------------|-----|------|------|------|------|------|------|------|------|--|--|--|--|
| C31 | Enthärt. Auswaschung 1 | Wash out 1 (softener) | 0 | 999 | 1 | Imp. | --- | --- | 100 | --- | 100 | | | | |
| C32 | Enthärt. Auswaschung 2 | Wash out 2 (softener) | 0 | 999 | 1 | Imp. | --- | --- | 100 | --- | 100 | | | | |
| C33 | Enthärt. Auswaschung 3 | Wash out 3 (softener) | 0 | 999 | 1 | Imp. | --- | --- | 400 | --- | 400 | | | | |
| C34 | Härte H01 (1-7dH) | Degree of hardness H01 | 3 | 100 | 1 | wash | --- | --- | 20 | --- | 20 | | | | |
| C35 | Härte H02 (8-14dH) | Degree of hardness H02 | 3 | 100 | 1 | wash | --- | --- | 15 | --- | 15 | | | | |
| C36 | Härte H03 (15-21dH) | Degree of hardness H03 | 3 | 100 | 1 | wash | --- | --- | 10 | --- | 10 | | | | |
| C37 | Härte H04 (22-30dH) | Degree of hardness H04 | 3 | 100 | 1 | wash | --- | --- | 5 | --- | 5 | | | | |
| C38 | Boilerfüllung Spülung 1 | Filling booster rinse 1 | 0 | 9999 | 1 | Imp. | --- | --- | --- | --- | --- | | | | |
| C39 | Boilerfüllung Spülung 2 | Filling booster rinse 2 | 0 | 9 | 1K | Imp. | --- | --- | --- | --- | --- | | | | |
| C40 | Boilererstbefüllung 1 | Initial fill 1 booster | 0 | 9999 | 1 | Imp. | 1800 | 1800 | 1800 | 1800 | 1800 | | | | |
| C41 | Boilererstbefüllung 2 | Initial fill 2 booster | 0 | 9 | 1K | Imp. | --- | --- | --- | --- | --- | | | | |
| C42 | Abpumpwiederholung Ablaufprog. | Draining replication | 0 | 10 | 1 | | 6 | 6 | 6 | 6 | 6 | | | | |
| C43 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |
| C44 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |
| C45 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |
| C46 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |
| C47 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |
| C48 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |
| C49 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |
| C50 | Reserve | Reserve | | | | | --- | --- | --- | --- | --- | | | | |

| Temperaturen: | Temperatures: | | | | | | | | | | | | | | |
|---------------|---------------------|------------------------|---|----|---|----|----|----|----|----|--|--|--|--|--|
| F01 | B2 Tank Standby 1 | B2 wash tank standby 1 | 0 | 99 | 1 | °C | 63 | 63 | 63 | 63 | | | | | |
| F02 | B2 Tank Waschung 1 | B2 wash tank washing 1 | 0 | 99 | 1 | °C | 61 | 61 | 61 | 61 | | | | | |
| F03 | B1 Boiler Füllstart | B1 booster fillstart | 0 | 99 | 1 | °C | 85 | 85 | 85 | 85 | | | | | |
| F04 | B1 Boiler Standby 1 | B1 booster standby 1 | 0 | 99 | 1 | °C | 80 | 80 | 80 | 80 | | | | | |
| F05 | B1 Boiler Spülung 1 | B1 booster rinse 1 | 0 | 99 | 1 | °C | 83 | 83 | 83 | 83 | | | | | |

URDATENTABELLE

Gesamtaufzeit (total program time):

| Program number: | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Program I | 75,0 | 75 | 75 | 60 | 60 | | | | | | | | | | |
| Program II | 150 | 150 | 150 | 120 | 120 | | | | | | | | | | |

Drucksensor (B3/B4):

| | Pressure sensor(B3/B4): | Min | Max | Step | Unit | | | | | | | | | | |
|-----|------------------------------|-----|-----|------|------|------|------|------|------|------|--|--|--|--|--|
| F06 | Tankheizungsfreigabe | 0,5 | 3,5 | 0,01 | Volt | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | | | | | |
| F07 | Heizungsfreigabe bei Wschung | 0,5 | 3,5 | 0,01 | Volt | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | | | | | |
| F08 | Abpumpen 1 | 0,5 | 3,5 | 0,01 | Volt | --- | --- | --- | --- | --- | | | | | |
| F09 | Tank voll | 0,5 | 3,5 | 0,01 | Volt | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 | | | | | |
| F10 | Reserve | | | | | --- | --- | --- | --- | --- | | | | | |
| F11 | Heizungsfreigabe | 0,5 | 3,5 | 0,01 | Volt | --- | 0,60 | 0,60 | 0,60 | 0,60 | | | | | |
| F12 | Boiler voll | 0,5 | 3,5 | 0,01 | Volt | --- | 0,90 | 0,90 | 0,90 | 0,90 | | | | | |
| F13 | Reserve | | | | | --- | --- | --- | --- | --- | | | | | |
| F14 | Reserve | | | | | --- | --- | --- | --- | --- | | | | | |
| F15 | Reserve | | | | | --- | --- | --- | --- | --- | | | | | |

Temperaturanzeigen

Temperature gauges

| | | | | | | | | | | | | | | | |
|-----|----------------------|----------------------|---|-----|---|----|-----|-----|-----|-----|--|--|--|--|--|
| F16 | Reserve | Reserve | 0 | 100 | 1 | °C | --- | --- | --- | --- | | | | | |
| F17 | (B1) A2 / H24 (rot) | (B1) A2 / H24 (rot) | 0 | 100 | 1 | °C | 35 | 35 | 35 | 35 | | | | | |
| F18 | (B1) A2 / H25 (rot) | (B1) A2 / H25 (rot) | 0 | 100 | 1 | °C | 45 | 45 | 45 | 45 | | | | | |
| F19 | (B1) A2 / H26 (rot) | (B1) A2 / H26 (rot) | 0 | 100 | 1 | °C | 55 | 55 | 55 | 55 | | | | | |
| F20 | (B1) A2 / H27 (rot) | (B1) A2 / H27 (rot) | 0 | 100 | 1 | °C | 65 | 65 | 65 | 65 | | | | | |
| F21 | (B1) A2 / H28 (grün) | (B1) A2 / H28 (grün) | 0 | 100 | 1 | °C | 70 | 70 | 70 | 70 | | | | | |
| F22 | (B1) A2 / H29 (grün) | (B1) A2 / H29 (grün) | 0 | 100 | 1 | °C | 75 | 75 | 75 | 75 | | | | | |
| F23 | Reserve | Reserve | 0 | 100 | 1 | °C | --- | --- | --- | --- | | | | | |
| F24 | (B2) A2 / H14 (rot) | (B2) A2 / H14 (rot) | 0 | 100 | 1 | °C | 30 | 30 | 30 | 30 | | | | | |
| F25 | (B2) A2 / H15 (rot) | (B2) A2 / H15 (rot) | 0 | 100 | 1 | °C | 35 | 35 | 35 | 35 | | | | | |
| F26 | (B2) A2 / H16 (rot) | (B2) A2 / H16 (rot) | 0 | 100 | 1 | °C | 40 | 40 | 40 | 40 | | | | | |
| F27 | (B2) A2 / H17 (rot) | (B2) A2 / H17 (rot) | 0 | 100 | 1 | °C | 45 | 45 | 45 | 45 | | | | | |
| F28 | (B2) A2 / H18 (grün) | (B2) A2 / H18 (grün) | 0 | 100 | 1 | °C | 50 | 50 | 50 | 50 | | | | | |
| F29 | (B2) A2 / H19 (grün) | (B2) A2 / H19 (grün) | 0 | 100 | 1 | °C | 55 | 55 | 55 | 55 | | | | | |

URDATENTABELLE

Gesamtaufzeit (total program time):

| Program number: | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Program I | 75,0 | 75 | 75 | 60 | 60 | | | | | | | | | | |
| Program II | 150 | 150 | 150 | 120 | 120 | | | | | | | | | | |

Schaltfunktionen:

Switching functions:

| | | | | | | | | | | | | | | | |
|-----|----------------------------|-------------------------------|---|---|---|--|-----|-----|-----|-----|-----|--|--|--|--|
| S01 | Thermostop B1 | Thermostop B1 | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | | | |
| S02 | Enthärter | Softener | 0 | 1 | 1 | | --- | --- | 1 | --- | 1 | | | | |
| S03 | Boilererstbefüllung | Initial fill booster | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | | | |
| S04 | Spülpumpe | Rinse pump | 0 | 1 | 1 | | 0 | 1 | 1 | 1 | 1 | | | | |
| S05 | Autostart | Automatic start | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | | | | |
| S06 | Verriegel.Tankheiz.-WP | Locking tank heater-wash pum. | 0 | 1 | 1 | | 0 | 0 | 0 | 0 | 0 | | | | |
| S07 | Verriegel.Tankheiz.-Boiler | Locking tank heater-booster | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | | | |
| S08 | Düsengefeuchtung | Nozzle wetting | 0 | 1 | 1 | | 0 | 1 | 1 | 1 | 1 | | | | |
| S09 | Haubenstart | Hoodstart | 0 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | | | |
| S10 | Reserve | Reserve | 0 | 1 | 1 | | --- | --- | --- | --- | --- | | | | |
| S11 | Reserve | Reserve | 0 | 1 | 1 | | --- | --- | --- | --- | --- | | | | |
| S12 | Reserve | Reserve | 0 | 1 | 1 | | --- | --- | --- | --- | --- | | | | |
| S13 | Reserve | Reserve | 0 | 1 | 1 | | --- | --- | --- | --- | --- | | | | |
| S14 | Reserve | Reserve | 0 | 1 | 1 | | --- | --- | --- | --- | --- | | | | |
| S15 | Reserve | Reserve | 0 | 1 | 1 | | --- | --- | --- | --- | --- | | | | |
| S16 | Reserve | Reserve | 0 | 1 | 1 | | --- | --- | --- | --- | --- | | | | |

NOTES

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