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# OPERATING INSTRUCTIONS

## BIOLOGICAL PART WASHER

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Instructions on: [www.instructionsos.com](http://www.instructionsos.com)



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## 1 INFORMATION

We thank you for acquiring this biological, solvent-free part washer. The parts washer unit combines the action of a neutral pH water-based cleaning solution with tablets of special micro-organisms that biodegrade hydrocarbons and regenerate the cleaning bath.

### 1.1 PRODUCT REFERENCES

**BLUELIQUID**: Cleaning solution for which the washer has been adapted.

**BLUETAB** : Micro-organism tablet.

**OCEAN SUNSET** : Degreasing parts washer.



### 1.2 WARNINGS

#### CAUTION



Please read these instructions carefully before using the unit. To be used only with the liquid and tabs provided by the supplier.

- 1- The parts washer must ONLY be connected to a 230 Volt supply with a ground terminal and ground fault circuit interrupter. Maximum power consumed by the parts washer is 1,100 W.
- 2- Do not use electric extension leads.
- 3- **Do not pour any pollutants (solvent, oil, grease, engine oil, diesel fuel or petrol) directly into the parts washer. Pouring solvent-based products into the parts washer may destroy its internal organs.**
- 4- **Never add or pour in any products such as solvents, biocides or disinfectants, alcohols, halogenated agents, inflammable products, acid, bases, boiling water, esters or toxic products. Pouring these products into the parts washer may destroy its internal organs and be dangerous for health.**
- 5- The operator must use gloves and safety glasses
 

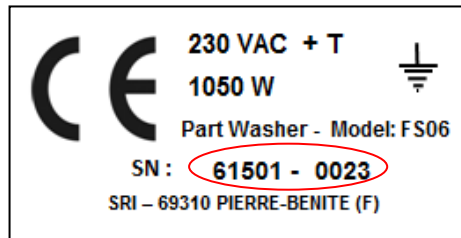


- 6- To work with a complete security, this equipment have to be enlightened with a minimum lighting of 100 LUX.
- 7- Do not modify any elements on the parts washer. It has been designed for use with our cleaning solution and our micro-organism tablets.
- 8- Leave the parts washer switched on to maintain the oxygenation and temperature levels required for the hydrocarbon-degrading micro-organisms to develop satisfactorily.
- 9- Low level detection: The parts washer is equipped with an automatic low-level control system. It runs with a liquid level of between 45 and 80 liters, when the level drops below 45 liters, the pump and heater stop automatically. In this case, the level must be topped up with 20 or 40 liters of our ready-to-use degreasing solution and micro-organism tablets.
- 10- When the parts washer is switched on, following a power cut, it will go automatically into safety mode. Press the heating button for the unit to be fully operational.
- 11- Unplug the parts washer:
  - . before draining.
  - . during cleaning.
- 12- Do not dismantle the pump or any other components without disconnecting the parts washer and leaving it sufficient time to cool down.
- 13- Limit soaking time for all sensitive metals. Never leave a part to soak over-night.

### 1.3 GENERAL INFORMATION

The parts washer meets all safety requirements stipulated in the following directives:

- "Machines" directive 2006/42/EC;
- "Low voltage" directive 2006/95/EC;
- Directive 2004/108/EC on electromagnetic compatibility.

For assistance, please contact your commercial agent and with every request specify the serial number glued to the back of the machine:



### 1.4 HANDLING / TRANSPORTING / MOVING THE PARTS WASHER

- For moving or transporting the parts washer, drain it into empty cleaning solution cans (See procedure §5).
- Place the parts washer vertically on a 600 x 800 mm palette (The parts washer should never be transported lying flat).
- Protect the parts washer with an appropriate packaging.
- Film the palette to prevent it from tipping over during transport.

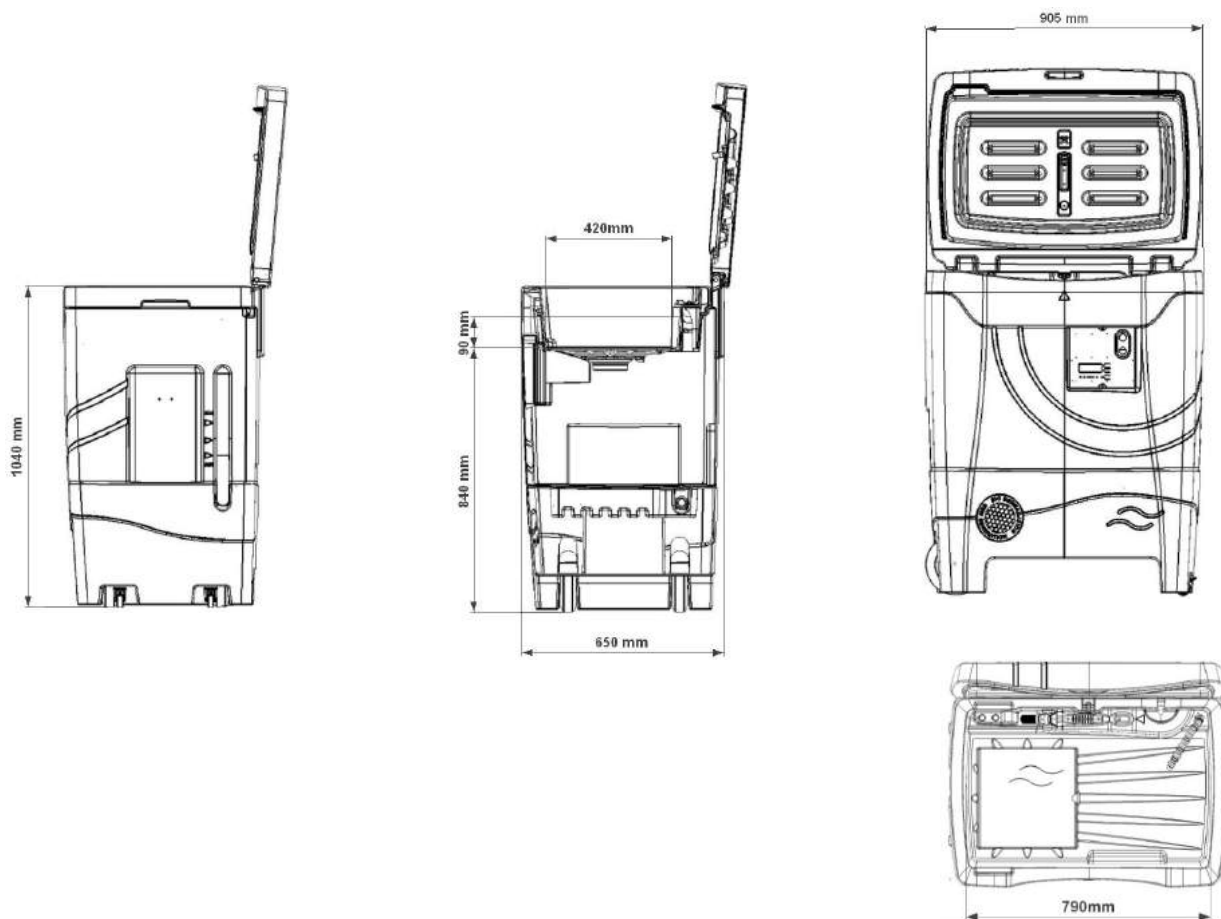
### 1.5 CHARACTERISTICS

<b>Maximum power</b>	1050 watts.
<b>Noise level</b>	< 50 dBa.
<b>Weight when empty (without cleaning solution)</b>	46 Kg
<b>Tank material</b>	Medium density polyethylene (PEMD).
<b>Power supply</b>	230 V + T Ground, protected by a 30mA fault circuit breaker
<b>Nominal operating temperature</b>	38°C
<b>Overall dimensions</b>	905 x 650mm - h: 1080mm (lid closed).
<b>Usable cleaning tank dimensions</b>	790 x 420 x 200 mm
<b>Filtration</b>	SS basket filter 700µ / external SS filter 140µ
<b>Tank Capacity</b>	55 to 100 liters
<b>Soaking area Capacity</b>	30 liters. Soaking height 90 mm.
<b>Minimum level without soaking</b>	55 liters in the tank.
<b>Minimum level with soaking</b>	87 liters (55 liters in the tank + 30 liters in the soak-tank + 2 liters of product in the piping).
<b>Tool-holder flow (brush alone)</b>	3.4 liters / mn (with clean filter)

#### ELECTRICITY CONSUMPTION \*

\*MEASUREMENTS MADE OVER 24 HOURS WITH THE BATH AT 38° AND CONTAINING 60 LITERS OF PRODUCT

<b>At an ambient temperature of 18 °C</b>	Consumption is 250 w/h with 60 liters of product.
<b>At an ambient temperature of 23 °C</b>	Consumption is 200 w/h with 60 liters of product.
<b>With 12 h in ECO mode</b>	Consumption is reduced by 25 % over 24h.



## 2 PREPARING THE PARTS WASHER

### 2.1 PREPARATION & INSPECTION

- Remove the two sets from the two cardboards:
  - Set 1: Basis of the parts washer
  - Set 2: Tank, lid and sink.
- Double check that the parts washer has not suffered from any damage during transport and installation.

### 2.2 PUTTING ELEMENTS INTO POSITION

1. Assemble the tank, lid and sink on the basis.
2. Open the lid and unpack the pump that is on the tank.
3. Take off the pump, the soak tank cover (waves engraved), the soak tray bung and the SS basket filter.
4. Remove the sink unclipping the black hose under the sink and removing the brush hose from its indentation.



5. Make sure the electric kit is fitted in the adapted slide / compartment.



6. Deposit the pump on the bottom of the tank, in the appropriate place (between the 4 cones) and connect its electric cable to the kit: join the green-ring connector and turn it until it gets inside the kit connector.




#### CAUTION



You may have to make a complete turn to find the notch.  
Do not force, it just goes in smoothly.

7. Once connected properly, screw the green ring to fix the connector.
8. Connect the pump to the filter with the quick connector.



- |  |  |
|--|--|
| <p>9. Place the electric kit hose in the adapted groove.</p>   |   |
| <p>10. Position the sink to its standard position. Beforehand, re-clip the black hose under the sink and replace the brush hose in its indentation.</p>      |    |
| <p>11. Place back the SS basket filter, the soak tray bung (indexes should be positioned with ribs to the top) and the soak tank cover (waves engraved).</p> |  |

### 2.3 FILLING THE PARTS WASHER

- 1- Empty the cans into the tank.

#### CAUTION

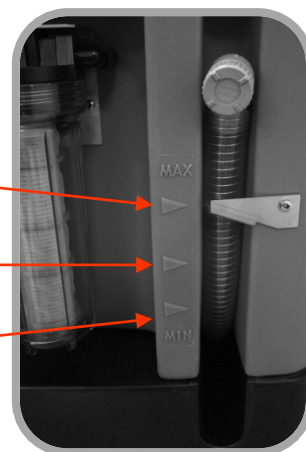
Do not throw the empty cans away. They may be useful for recovering the cleaning solution if ever the unit needs to be drained.



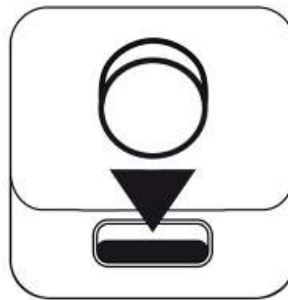
100 liters

80 liters

60 liters

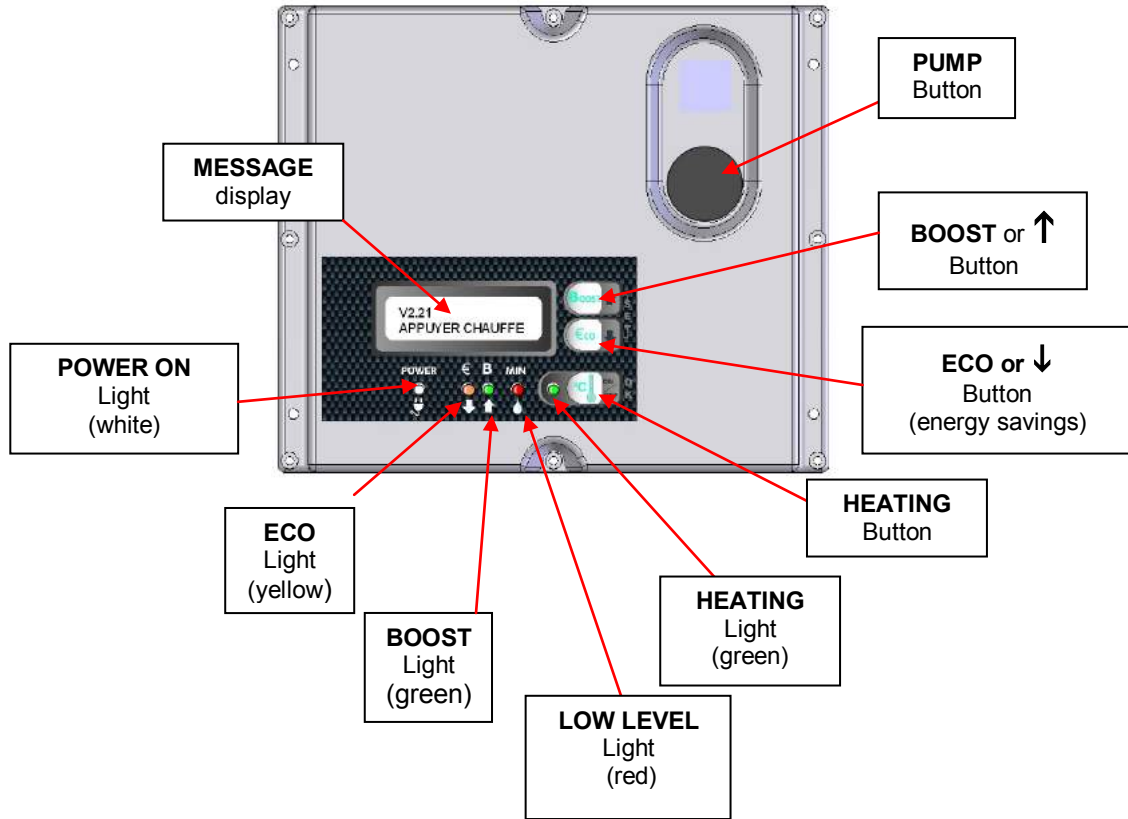


- 2- Insert a micro-organism tablet into the rectangular opening provided for the purpose.



- 3- Note the date on the servicing datasheet.

### 3 CONTROL BOX

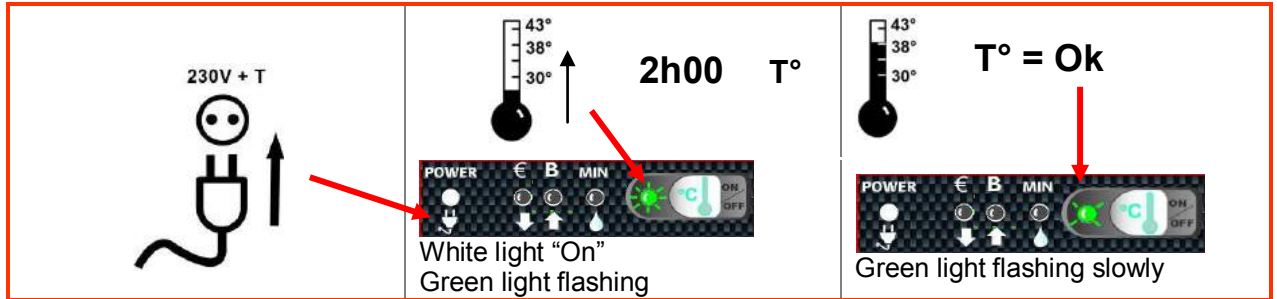




## 4 START-UP

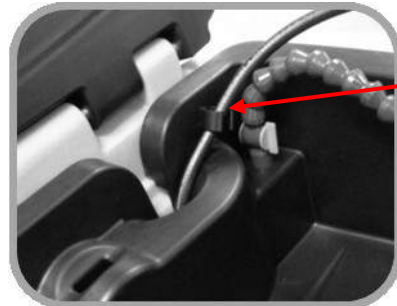
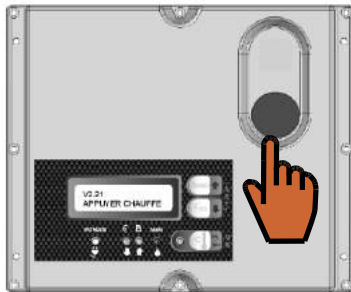
### 4.1 SWITCHING ON:

After the parts washer has been filled with cleaning solution, heating will start automatically when the unit is switched on and stop when the operating temperature has been reached.



### 4.2 USING THE PARTS WASHER:

Press the pump control button, then clean your parts with the tool-holder and brush.



Tool-holder  
hose clip

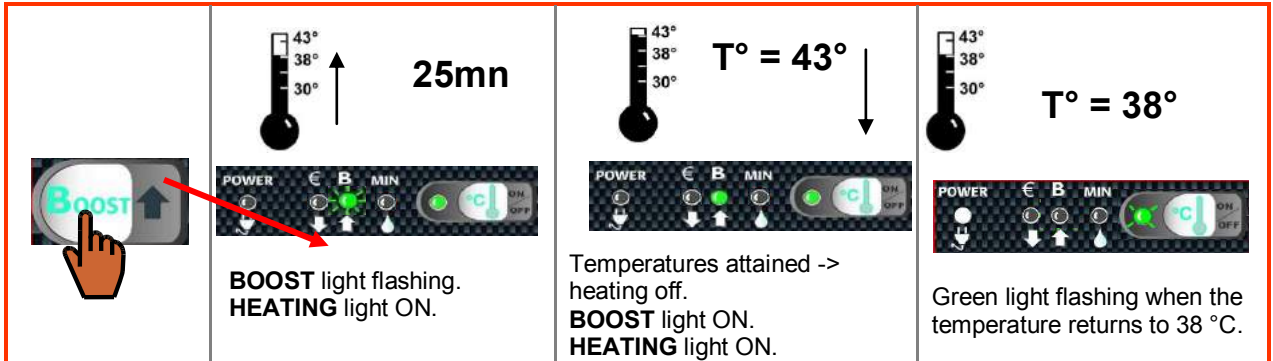
A clip is provided to make it easier to guide the tool-holder hose.

#### CAUTION

This clip is not designed for attaching the tool-holder!

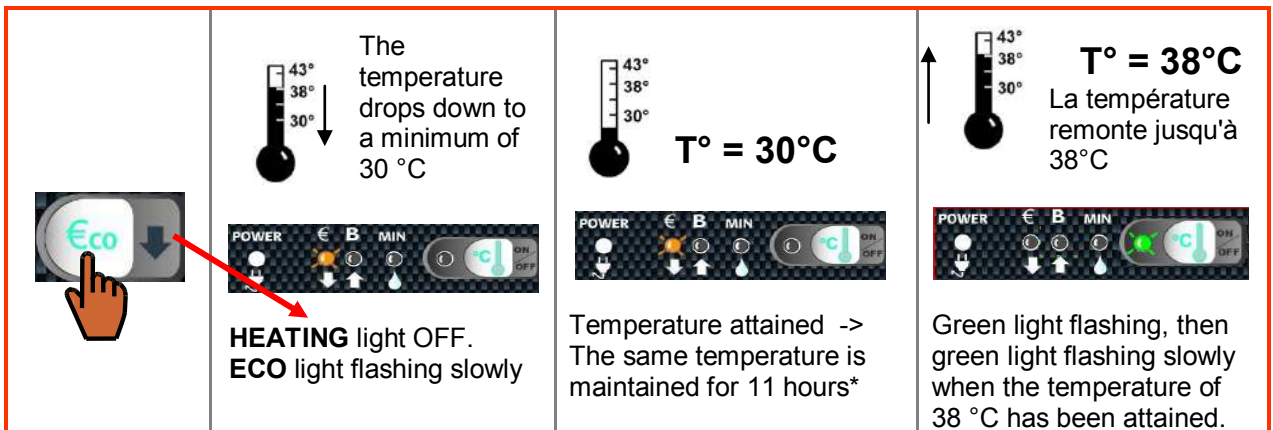
### 4.3 BOOST MODE (temporary temperature increase of 5 °C)

The higher temperature is to be used when severely fouled parts need to be cleaned.



### 4.4 ECO MODE (TEMPORARY REDUCTION IN TEMPERATURE DOWN TO 30 °C)

ECO mode enables the temperature of the bath to be reduced for **reducing electricity** consumption for 11 h\* Beyond this time, the temperature will return to its normal operating level.



\* time adjustable – see paragraph 7.2

## 4.5 SOAKING

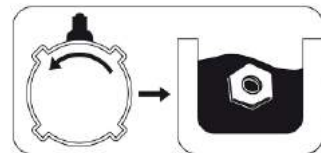
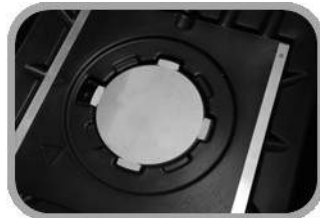
### PRECAUTIONS



- Carry out tests for validating the cleaning protocol (compatibility of materials, soaking time, etc.), especially for sensitive metals such as zinc, brass and aluminium alloys (including those containing silicon).
- *Never leave a part to soak over-night.*
- *Limit soaking time to a minimum.*

### SOAKING OPERATION:

- 1- Close the tank drain by placing the plug in position with one of its lugs opposite the hollow used for raising the plate.



- 2- Close the soak-tank with the rectangular cover.
- 3- Put the part in the tank.
- 4- Press the pump control button to fill the tank and leave it in operation so that the solution is maintained at the right level for soaking.

- 5- Open the tap of the semi-rigid hose.



### CAUTION



- Check that there is no residue (chips, sand, etc.) in the area where the plug is to be placed. Clean with the brush if necessary.
- Make sure that there is nothing blocking the overflow opening.
- The plug with the four lugs is designed to provide a liquid flow that is sufficient for the solution to be renewed, and kept at the right temperature and for the soak-tank to empty when the pump is stopped.
- For soaking, the plug must be positioned the right side up.

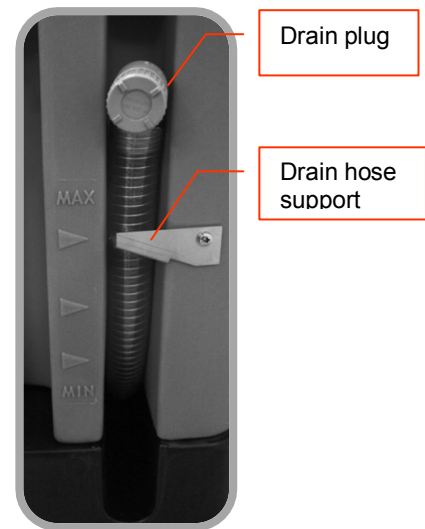


## 5 TANK

### LIQUID LEVELS:

Level-checking: Unscrew the drain plug to let air enter the top of the hose.

- 100 liters: Top filling level (upper arrow).
- 80 liters: 80L filling level (middle arrow).
- 55 liters: Low-level detection level (lower arrow).



### CAUTION









There must be 80 liters of liquid in the machine for using the soak function and remaining above the minimum level.




### DRAINING:

- 1- Lift the parts washer up (on a pallet, pallet-jack, ...).
- 2- Undo the drain hose support element at the back of the parts washer.
- 3- Put an empty can in position ready for use.
- 4- Remove the plug on the hose and pour the used product into the can(s).
- 5- The product must be recycled as per regulations in force.
- 6- Clean the tank if necessary.

## 6 MEMO

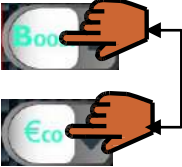
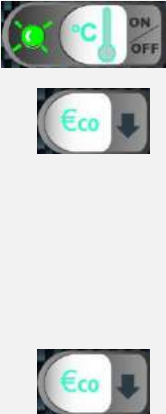


- Nominal operating temperature: Operating temperature at 38 °C +/- 1 °C.
- BOOST temperature: Nominal temperature + 5°C, limited to 45 °C.
- ECO temperature: 29 °C / 30 °C.

L I G H T S	H E A T I N G		When the green light is OFF, the heating is off.
			When the green light flashes at normal speed, the bath is being heated.
			When the green light is on and flashes at long intervals (ON for 0.1 s, OFF for 2.5 s) this indicates that the bath is being maintained at nominal temperature.
	L E V E L S		When the red light is OFF, there is enough liquid in the system.
			When the red light is ON, the liquid level is low. → Extra product must be added.
	B O O S T		When the green <b>BOOST</b> light is flashing, the temperature is rising above its normal operating level.
		When the green <b>BOOST</b> light is ON and steady and the <b>HEATING</b> light is also ON and steady, the <b>BOOST</b> temperature has been reached and the temperature of the bath is higher than its normal operating temperature..	
E C O		When the orange light flashes slowly, the parts washer is in <b>ECO</b> mode.	

B U T T O N S	B O O S T		<ul style="list-style-type: none"> <li>- <b>BOOST ON/OFF</b> (Increases the <b>HEATING</b> temperature by 5 °C above the nominal operating temperature).</li> <li>- Increases the value of the parameter (parameter setting mode)</li> </ul>
	E C O		<ul style="list-style-type: none"> <li>- <b>ECO ON/OFF</b> (Lowers the temperature down as far as 30 °C).</li> <li>- Reduces the value of the parameter (parameter setting mode)</li> </ul>
	H E A T I N G		<ul style="list-style-type: none"> <li>- <b>HEATING ON/OFF</b></li> <li>- Validates the parameter</li> <li>- Safeguards the parameter</li> <li>- Exits the parameter-setting mode (Press for over 2seconds)</li> </ul>

## 7 VIEWING & MODIFYING PARAMETERS.

### 7.1 PARAMETER-VIEWING MODE

	Control		Message on display screen																
E N T R Y		<p>To enter the parameter-viewing mode, press sharply on the 2 <b>BOOST</b> and <b>ECO</b> buttons at the same time.</p> <p>The bath temperature and the length of operation in ECO mode will be displayed.</p>	<table border="1"> <tr> <td>V4.5</td> <td>37°C</td> </tr> <tr> <td>ECO TIME</td> <td>18H</td> </tr> </table>	V4.5	37°C	ECO TIME	18H												
V4.5	37°C																		
ECO TIME	18H																		
E V E N T S		<p>The "EVENTS" message will appear by pressing the °C <b>-ON/OFF</b> button</p> <p>Press the ↓ button for viewing the events that have been memorized.</p> <p>→ If no events have occurred over the last 48 hours, a "No error" message will be displayed.</p> <p>→ If an event has occurred over the last 48 hours, the first event will be displayed.</p> <ul style="list-style-type: none"> <li>- By pressing the ↓ button a second time, the time since the event will be displayed.</li> <li>- By pressing the ↓ button a third time, the next event will be displayed.</li> </ul>	<table border="1"> <tr> <td>V4.5</td> <td>37°C</td> </tr> <tr> <td>EVENTS</td> <td></td> </tr> </table> <table border="1"> <tr> <td>V4.5</td> <td>37°C</td> </tr> <tr> <td>No error</td> <td></td> </tr> </table> <table border="1"> <tr> <td>V4.5</td> <td>37°C</td> </tr> <tr> <td>ADD PRODUCT</td> <td></td> </tr> </table> <table border="1"> <tr> <td>V4.5</td> <td>37°C</td> </tr> <tr> <td>01:35:20</td> <td></td> </tr> </table>	V4.5	37°C	EVENTS		V4.5	37°C	No error		V4.5	37°C	ADD PRODUCT		V4.5	37°C	01:35:20	
V4.5	37°C																		
EVENTS																			
V4.5	37°C																		
No error																			
V4.5	37°C																		
ADD PRODUCT																			
V4.5	37°C																		
01:35:20																			
L A N G U A G E S		<p>Press the °C <b>-ON/OFF</b> button for viewing the language.</p>	<table border="1"> <tr> <td>V4.5</td> <td>37°C</td> </tr> <tr> <td>ITALIAN</td> <td></td> </tr> </table>	V4.5	37°C	ITALIAN													
V4.5	37°C																		
ITALIAN																			
E X I T	 <p>2 sec</p>	<p>Press the °C <b>-ON/OFF</b> button for 2 seconds to exit the viewing mode.</p> <p>→ If no buttons are pressed the unit will return to normal mode after 10 s.</p>																	

7.2 CHANGING PARAMETERS



**CAUTION**

Before entering the parameter-setting mode, HEATING must be switched off (HEATING light OFF).

	Control		Message on display screen								
ENTRY	<p>2.5 seconds</p>	<p><b>To enter the parameter-setting mode:</b>                      Press for 2.5s on the <b>BOOST</b> and <b>ECO</b> buttons at the same time.</p> <ul style="list-style-type: none"> <li>→ The bath temperature and the time of operation in ECO mode will be displayed.</li> <li>→ "MODIF" will be displayed as long as the parameter-setting mode is activated.</li> </ul>	<table border="1"> <tr> <td>V4.5 MODIF</td> <td>37°C</td> </tr> <tr> <td>ECO TIME</td> <td>11H</td> </tr> </table>	V4.5 MODIF	37°C	ECO TIME	11H				
V4.5 MODIF	37°C										
ECO TIME	11H										
ECO		<p><b>Modifying ECO time:</b>                      Press button  or button  for modifying the length of ECO time. If no change is required, press the °C - ON/OFF button.</p>	<table border="1"> <tr> <td>V4.5 MODIF</td> <td>37°C</td> </tr> <tr> <td>ECO TIME</td> <td>14H</td> </tr> </table>	V4.5 MODIF	37°C	ECO TIME	14H				
V4.5 MODIF	37°C										
ECO TIME	14H										
		<p>The parameter for the ECO mode TIME is safeguarded and the EVENT message is displayed by pressing the °C - ON/OFF button</p> <p>(→ Press the °C - ON/OFF button for 2s to exit the parameter-setting mode).</p>									
EVENTS	 	<p><b>Event-viewing:</b>                      Use identical to the EVENT section in §</p> <p><b>Erreur ! Source du renvoi introuvable..</b></p> <p>The language parameter is displayed by pressing the "ON/OFF button.</p> <p>(□ Press the °C - ON/OFF button for 2s to exit the parameter-setting mode).</p>	<table border="1"> <tr> <td>V4.5 MODIF</td> <td>37°C</td> </tr> <tr> <td>EVENTS</td> <td></td> </tr> </table>	V4.5 MODIF	37°C	EVENTS					
V4.5 MODIF	37°C										
EVENTS											
LANGUAGES		<p><b>Changing languages:</b>                      The different languages are displayed by pressing the  or  buttons.</p> <p>The "language" parameter is safeguarded by pressing the °C - ON/OFF button. The "ECO TIME" message will be displayed</p>	<table border="1"> <tr> <td>V4.5 MODIF</td> <td>37°C</td> </tr> <tr> <td>ITALIAN</td> <td></td> </tr> </table> <table border="1"> <tr> <td>V4.5 MODIF</td> <td>37°C</td> </tr> <tr> <td>ECO TIME</td> <td>14H</td> </tr> </table>	V4.5 MODIF	37°C	ITALIAN		V4.5 MODIF	37°C	ECO TIME	14H
V4.5 MODIF	37°C										
ITALIAN											
V4.5 MODIF	37°C										
ECO TIME	14H										
EXIT		<p>Press the °C - ON/OFF button for 2s to exit the parameter-setting mode.</p> <p>→ If no buttons are pressed the unit will return to normal mode after 15 s.</p>	<table border="1"> <tr> <td>V4.5</td> <td>37°C</td> </tr> <tr> <td>ADD PRODUCT</td> <td></td> </tr> </table>	V4.5	37°C	ADD PRODUCT					
V4.5	37°C										
ADD PRODUCT											

## 8 MAINTENANCE

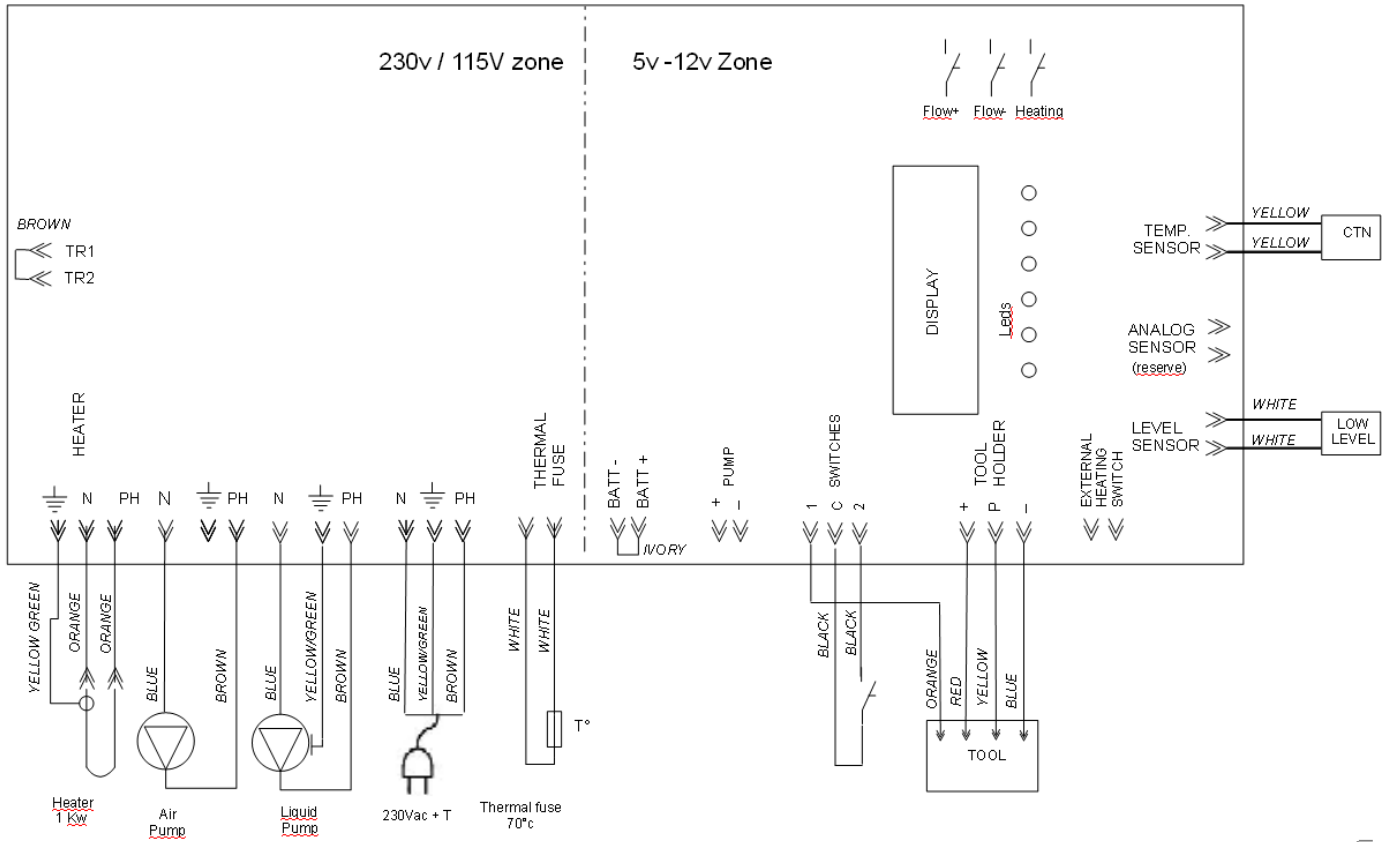
### 8.1 REGULAR SERVICING

- Clean the filters whenever they are clogged so as to make sure that the product flows into the tank correctly. Filter is located at the right of the parts washer.
- Add micro-organism tablets as per the schedule on the servicing datasheet supplied with the machine.

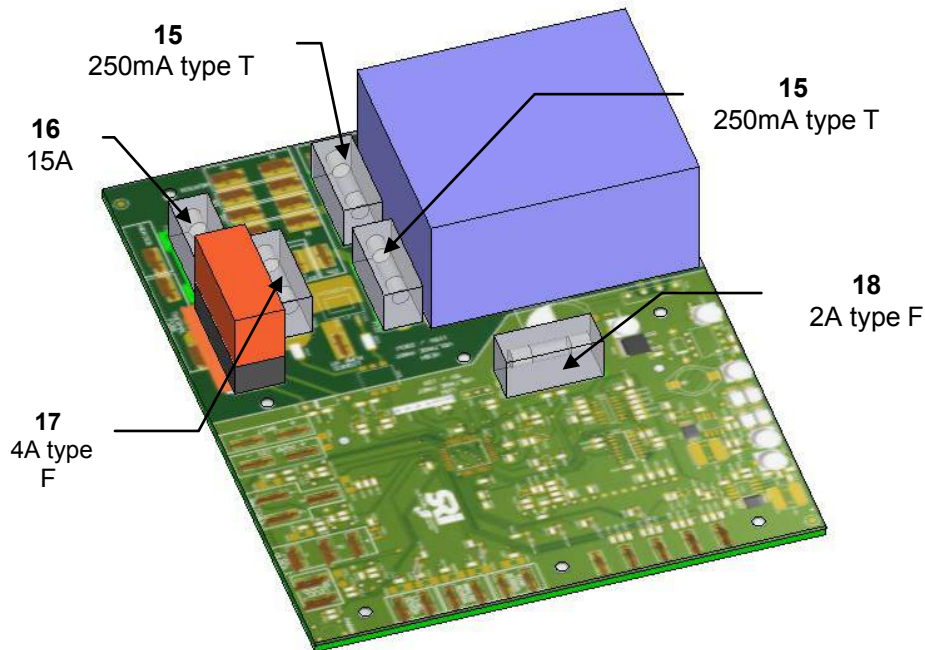


## 8.2 ELECTRICAL DIAGRAM

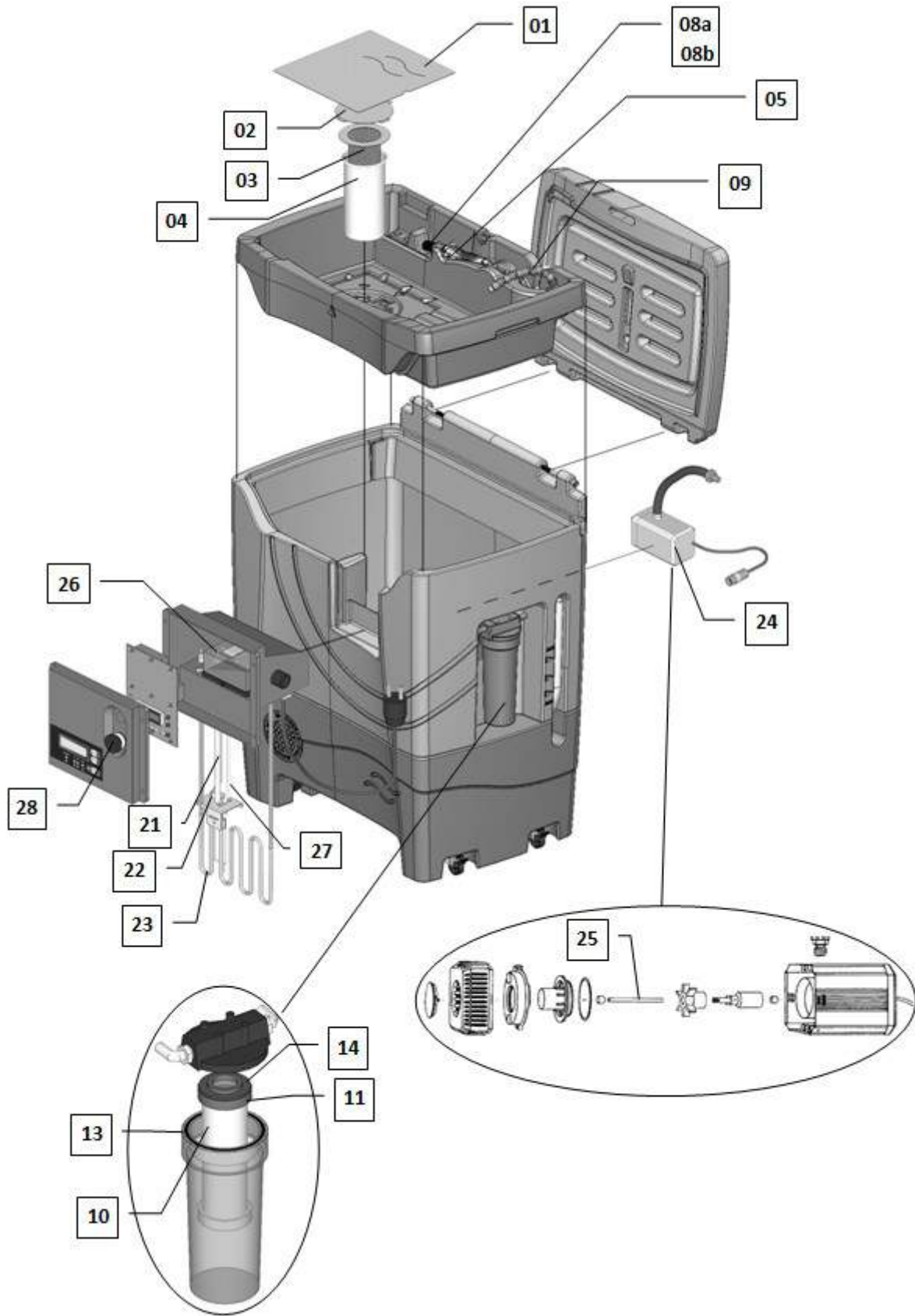
Electrical connections inside the control box



## 8.3



EXPLODED VIEW



## 8.4 SPARE PARTS LIST

<b>01</b>	Soak tank cover	CSEQFOFC 065-001	<b>20</b>	FS06 Electric Kit without pump	CSEQFO 00055-2
<b>02</b>	Soak tray stopper	CSEQFO 000066	<b>21</b>	Temperature sensor	CSEQFO 000122-1
<b>03</b>	Basket filter 700µ	CSEQFO 000289	<b>22</b>	FS00 Level detector	CSEQFO 000035
<b>04</b>	Sock filter 50µ	CSEQFO 000125	<b>23</b>	FS06 Resistance	CSEQFO 000384
<b>05</b>	Tool holder set FS06	CSEQFO 000111-4	<b>24</b>	Circulation pump with pipe	CSEQFO 000190-1
<b>06</b>	Connector Quick JB	CSEQFO 000103	<b>25</b>	Pump axel	CSEQFO 000345
<b>08a</b>	Screwable brush - Hard Brush FO 5/10e°	CSEQFO 000102-4	<b>26</b>	Air pump	CSEQFO 000187-1
<b>08b</b>	Screwable brush - Soft Brush FO 4/10e° (option)	CSEQFO 000102-3	<b>27</b>	Air-pump hose	CSEQFO 000282
<b>09</b>	Semi-rigid Hose	CSEQFO 000523	<b>28</b>	Push button	CSEQFO 000053
<b>10</b>	Reusable nylon filter 100µ	CSEQFO 000123	<b>29</b>	Fuses kit (250mA T, 2A F, 4A F, 6,3A)	CSEQFO 000011
<b>11</b>	Nylon net armour	CSEQFO 000433	<b>30</b>	Fuse (4A F)	
<b>12</b>	Removal key for filter	CSEQFO 000537	<b>31</b>	Fuse (250mA T)	
<b>13</b>	O-ring for filter tank	CSEQFO 000160	<b>32</b>	Fuse (2A F)	
<b>14</b>	Joint Ø 32x45 2mm	CSEQFO 000447	<b>33</b>	Fuse (6,3A F - 230v)	
<b>15</b>	Strainer for pump 1200 L/h	CSEQFO 000518		<i>Option :</i> Washbasin lid	CSEQFO 000349

## 8.5 WARRANTY

All parts on the parts washer are guaranteed for 1 year excepting normal wear parts (brush, filters, hoses, etc.) and any parts that may have been damaged by incorrect use, negligence or accident. The guarantee will run as from the parts washer's date of invoice.

The degreasing parts washer has been designed for use as described in the operating instructions. Any modification made to the parts washer will lead to the guarantee being declared null and void. This also applies if any consumables are used other than those indicated in paragraph 1.1.

The manufacturer cannot be held in any way liable for any damage caused by using the parts washer in any way other than the way recommended in the operating instructions, in technical datasheets and in the safety data concerning associated products.

The manufacturer reserves the right to modify the design of his products for improving them at any time.

## 9 WASTE MANAGEMENT OF THE SOLUTION AND THE UNIT






### 9.1 WASTE MANAGEMENT OF THE SOLUTION

Solution cannot be directly placed into pipings or traditional waste. User must liaise with waste management companies.

### 9.2 WASTE MANAGEMENT OF THE UNIT

At the end of life of the unit, user must proceed elimination of the unit in accordance with the regulations. User should take care of the general cleaning elements and separate parts constituting the parts washer: stainless steel parts, rubber parts, electronic card... These parts should then be sent or collected by specialised waste management companies.

**APPENDIX 1 : DIAGNOSIS**

Problem	Possible causes	Action
<p>Nothing runs. No lights are ON. The air pump does not run (no noise comes from the kit)</p> 	<p>The parts washer is not connected to the mains, or the electrical supply to the workshop is faulty.</p>	<p>Plug in the unit, or call for maintenance staff.</p>
<p>Nothing runs. No lights are ON. The air pump does not run (but noise comes from the kit)</p> 	<p>One of the 2 fuses inside the control box has blown (fuses no. 17).</p>	
<p>The heating does not run. The pump does not run The °C light is OFF. The red “MIN” light is ON.</p> 	<p>There is not enough product.</p>	<p>Add product Press the heating button.</p>
<p>Heating does not run. The pump runs. The °C light is OFF. The red “MIN” light is OFF.</p> 	<p>There is not enough product for operating in soaking mode (See § 5-).</p>	<p>Add product Press the heating button.</p>
<p>The pump does not run. The red “MIN” light is OFF.</p> 	<p>The brush is clogged.</p>	<p>Remove the brush and clean the input opening.</p>
	<p>The pump rotor is jammed.</p>	<p>Dismantle the pump rotor. Check the shaft and clean its housing (See Appendix 4 for dismantling the pump)</p>

## APPENDIX 2: REMOVING AND REFITTING THE ELECTRIC KIT

Tools required: None

### CAUTION



- ➔ Unplug the parts washer before the operation.
- ➔ **Warning:** Electric connector of the pump to never be in contact with the liquid into the tank.

#### REMOVING

**1** Lift up the sink, unclip the black hose under the semi-rigid hose.



**2** Remove the brush hose from its indentation and remove the sink

**3** Disconnect the pump hose and electric cable.



**4** Disconnect the pump electric cable.

**5** Take off the pump.

**6** Slide up the electric kit to take it off.



#### REFITTING (see §2.2)

**1** Fit the electric kit in its adapted slide / compartment.



**2** Deposit the pump on the bottom of the tank

**3** Connect the pump electric cable to the kit

**4** Connect the pump to the filter entry hose..



**5** Place the power cord in the adapted groove until the bottom of the sink.



**6** Clip the black hose under the sink

**7** Place back the brush hose in its indentation.

**8** Position the sink to its standard position.



**APPENDIX 3: DISMANTLING THE PUMP**

**1** Lift up the sink, unclip the black hose under the semi-rigid hose.



**2** Remove the brush hose from its indentation and remove the sink

**7** Remove grid **2** on the pump (cut the black plastic collar if necessary)

**8** Remove parts **3**  
Remove the assembly comprising parts **4** to **7** (photo)



**CAUTION:**  
The axel is fragile

**3** Disconnect the pump hose and electric cable.



**4** Disconnect the pump electric cable.

**5** Take off the pump.

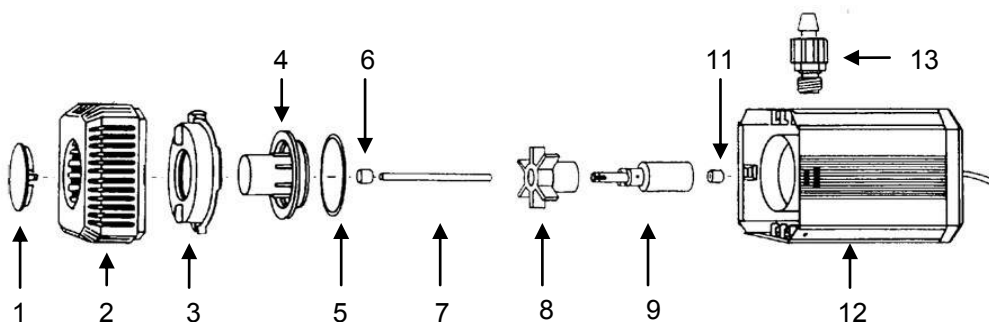
**9** Remove the rotor assembly parts by pulling on the blade  
Remove the white axel.



**6** Slide up the electric kit to take it off.



For re-fitting, proceed in reverse order.



**NOTES :**

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**YOUR CONTACT**



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