

# PUREME XL XLHOLEDAQUARIUM KIT

Instruction manual Manuale di istruzioni Manuel d'instructions Bedienungsanleitung Handleiding



EASYAQUARIUM

#### Congratulations!

By purchasing an Askoll PURE <sup>LED</sup> Aquarium you will not only enjoy a fully made-in-Italy design that harmonises well with several interior design styles, but you will also be able to rely on a product that concentrates the best of Askoll technology, a company that can boast more than thirty years of experience in the design and production of articles for aquariums and ponds.

In just a few minutes, after starting installation, we are sure that you will appreciate a product conceived in every detail to make any operation easy and fast. You will enjoy even more the moment in which you will be able to dedicate your time to create a nature corner in your new Askoll PURE <sup>LED</sup> Aquarium and you will be able to count on cutting edge devices to preserve the beauty of the aquatic world over time, in a simple way.

Before starting, kindly read and follow the warnings and hints contained in this manual carefully.

To choose fish, plants, and the arrangement suitable for your aquarium, follow the suggestions of a qualified retailer.

To enhance as much as possible the unique style of your Askoll PURE <sup>LED</sup> Aquarium, Askoll recommends using the aquarium stands specifically created for this product line.

N.B.: For ease of reference, this manual shows the PURE  $\mathsf{L}^{\mathsf{LED}}$  model aquarium.

# **1. IMPORTANT SAFETY INFORMATION**

The product has been designed and manufactured in conformity with the current and applicable directives to ensure safe use and operation throughout its life cycle. Using the product incorrectly (not in conformity with the instructions given in this manual) can damage the product and poses a safety risk for the user.

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Before using the product kindly read and understand this instruction manual in all its parts.

This manual is an integral part of the product: keep it for future reference.





#### A WARNING

To avoid electric risk:



Each power cable of the electric devices has to show a drip loop positioned lower than the plug-outlet connection point in order to prevent any drop from reaching such point.



The electric devices plug and outlet should not get wet.



Should the plug or outlet of any of the electric devices become wet, do not disconnect the cable. Disconnect power supply to the electric system acting on the main switch.



Disconnect the plugs of the electric devices from the outlets before handling the product and/or immersing the hands in water.



Never pull the cable of the electric devices to disconnect the plugs from the outlets. To disconnect them, grab the plugs and pull them.



The product has glass components.

Handle with care and place it according to the instructions of this manual avoiding to lean the tank directly on the edges.



To avoid instability risk: check with a level that the support surface of the product is horizontal.

Do not lean the product on inclined surfaces.



After installation, do not move the product. If necessary, move it only if the tank is completely empty.

Do not connect the electric devices of the product to the mains before having completed the installation or having repositioned the same after maintenance operations. Do not use the thermal heater and the pump dry.

#### To avoid the risk of burns:



After disconnecting the plug, let the hot parts of the thermal heater (about 30 minutes) and of the lighting unit (about 5 minutes) cool down, before handling them. On the thermal heater, the warning light indicates only that the heating phase is active. When the warning light is off, it does not mean that the thermal heater is cool.



Check that the water level is always included in the min. and max. level range indicated on the label. After maintenance operations, if necessary, restore the proper water level.

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Use the product exclusively as decorative aquarium for indoor domestic use.



Each component is an integral part of the product. It shall not be used on other products.



Do not use the product for use with foodstuffs.



Do not use the product as terrarium.



Do not use the product, if damaged and/or disassembled.



Do not damage and/or remove the sealant positioned on the joints of the tank glasses (edge seals).



Do not lean any rocks, stones or other heavy decorating elements directly on the bottom of the tank.



Do not place any item on the product.



Verify the integrity of the product before pouring water into the tank.



The thermal heater must always be immersed at least up to the minimum level marked on the same.



Install the electric devices of the product observing the voltage and frequency values shown on the devices and the temperature ones specified among the technical data under **par. 3.3**.



Connect the electric devices to mains protected by a residual current device with a sensitivity  $\leq$  30 mA.



After maintenance operations, if necessary, dry the external parts of the product and the stand.



To protect the polished surfaces of the product from scratches and scrapes, pay utmost care when cleaning and handling the same.

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Do not cut the power cables. Power cables cannot be repaired. If the cable is damaged, the product has to be discarded.



Do not use extension cables. If the length of the power cable of the electric devices is not sufficient, refer to a gualified electrician.



Do not try to repair any product component: in case of damage replace the damaged component with original spare parts (see chap. 9).

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# 3. PRODUCT SPECIFICATIONS

# 3.1. Product identification

Name	Askoll PURELED Aquarium KIT				
Components	Mod.	PURE M LED	PURE L LED	PURE XL LED	PURE XL HC LED
Lighting unit	Mod.	LED UNIT M	LED UNIT L	LED UNIT XL	
	Туре	T-52043	T-52063	T-52083	
Thermal	Mod.	THERM L (100W) THERM L (200W)			THERM L (200W)
heater	Туре	D-38100			D-38200
Pump	Mod.	PURE      PURE      PURE      PURE        PUMP      PUMP      PUMP      PUMP        M      L      XL      XL HC			
	Туре	C-04311			

#### 3.2. Names of components and contents of package

Check that the package contains all the components shown in the following figures.



ΕN

- 4) Light cover
- 5) Filter cover
- 6) Filter cover door

- 10) Lighting unit
- 11) Decorative trim



- 12) Frame
- 13) Thermal heater (with glass tube)
- 14) Heater bracket with suction cups
- **15)**  $CO_2$  tube connection
- 16) Fairlead seat
- 17) Cable guide
- 18) Pump unit
- 19) Intake tube
- 20) Volute
- 21) Delivery for circulation in the tank
- 22) Delivery tube
- 23) Impeller
- 24) Pump gasket
- 25) Pump motor
- 26) Delivery (water outlet nozzle)
- 27) Accessories compartment

- 28) Chemical cartridges (in bag): Model PURE M and L<sup>LED</sup> = 2 3ACTION cartridges Model PURE XL\XL HC<sup>LED</sup> = 4 3ACTION cartridges
- 29) Ceramic cylinders (in bag)
- 30) Chemical filtration separator
- Biological baskets with cover (for ceramic cylinders):
  - Model PURE M<sup>LED</sup> = 1 basket Model PURE L<sup>LED</sup> = 2 baskets
  - Model PURE XL\XL HC LED = 3 baskets
- 32) Baskets for mechanical filtration sponges: Model PURE M<sup>LED</sup> = 1 basket Model PURE L<sup>LED</sup> = 2 baskets Model PURE XL\XL HC<sup>LED</sup> = 3 baskets
- 33) Mechanical filtration sponges

# ΕN

3.3. Technical data

Description		PURE M LED	PURE L LED	PURE XL LED	PURE XL HC LED	
Capacity	L	44	68	94	130	
Capacity	Imp gal	9,68	14,96	20,68	28,6	
Product weight	kg	8,8	14,1	19,2	28,3	
Maximum allowed weight of the aquar- ium	kg	75	120	165	215	
Height	cm	43,5	43,5	43,5	57	
Width	cm	36	56	76	76	
Depth	cm	36	36	36	36	
Water temperature (min. / max.)	°C	from +5 to +35				
PUMP / LIGHTING UNIT / THERMAL HEATER						
Power supply	V / Hz	See data provided on the individ-				
Consumption	W					
IP protection rating		product.				

# 4. PREPARING THE PRODUCT FOR USE

# 4.1. Unpacking



### 

The product has glass components. Handle with care and place it according to the instructions of this manual avoiding to lean the tank directly on the edges.

- 1) Open the carton's top flaps and remove the polystyrene sheet.
- 2) Extract the product as indicated on the packaging itself. Always handle it with care.
- 3) Place it on a flat, smooth and clean surface; take care not to scratch or damage the glass tank bottom.
- 4) Remove the transparent film on the covers and upper frame.
- 5) Remove the lighting and filter covers from the frame (fig. 3) and



- Bemove the pump unit (ing. 4) and place it on a flat sufface.
  Bemove the frame from the tank (fig. 5) and place it on a flat
- Remove the frame from the tank (fig. 5) and place it on a flat, clean surface without scratching it.
- Carefully remove the thermal heater and led driver from their packaging inside the tank, along with the cable guide.
- Dispose of the packaging material in observance of local regulations.
- Check that the product has all the components indicated in par.
  3.2.

# 4.2. Positioning

The product must be positioned with care, in observance of the following instructions:

#### 



To avoid instability risk: check with a level that the support surface of the product is horizontal.

Do not lean the product on inclined surfaces.

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It is advisable to place the product on the foreseen aquarium stand. Alternatively, use a sturdy support able to bear the maximum allowed weight of the aquarium (see technical data **par. 3.3**). Such support must have a levelled, smooth and clean support surface.



In order not to ease algae proliferation: place the product far from heat sources and direct exposure to sunlight.

- Position the product so that the wording "FRONT" is at the front and at a distance from the power outlet which enables each electrical equipment cable to have a drip loop.
- 2) Remove the "FRONT" label and dispose of it as required by local regulations.







# 4.3. Assembly

#### **A** CAUTION



To prevent the risk of scratching the product: clean it exclusively using a soft cloth moistened with water. Do not use abrasive products, toxic substances or detergents.

- 1) Clean the tank with a cloth moistened with water (fig. 6).
- Prepare the tank bottom (sand or other suitable material) according to the arrangement desired.
- 3) Install the thermal heater with its provided bracket (fig. 7). IMPORTANT: For proper installation, make sure the adjustment knob is below the bottom edge of the decorative trim. Place the thermal heater in the aquarium and press its suction caps against the wall so that they adhere. Set the desired water temperature using the adjustment knob referred to the graduated scale in °C (fig. 8).
- 4) Restore the frame to the tank.
- 5) Unwind the thermal heater cable and route it out of the tank via the pump compartment (fig. 9).
- 6) Restore the pump in its compartment, tidy away the thermal heater power cable (fig. 10).
- Pick the baskets for the mechanical filtration sponges. Take out the sponges, rinse them under running water and replace them in the baskets (fig. 11).
- 8) Pick the biological baskets with their cover (fig. 12).
- Pick the ceramic cylinders and a 3ACTION cartridge. For the XL model, use 2 3ACTION cartridges.
- 10) Open the bags containing the ceramic cylinders in a sink, then pour the cylinders into the biological baskets and rinse them under running water; also rinse the 3ACTION cartridge after taking it out of its bag (fig. 13).
- 11) Place the biological baskets, the baskets for the mechanical filtration sponges and the 3ACTION cartridge back into the provided spaces in the frame (fig. 14).
- 12) Dispose of the plastic bags in observance of local regulations.
- Restore the light cover to the frame after removing the sticker securing its power cable (fig. 15).
- 14) Route the power cables for the three electrical devices (lighting unit, pump unit and thermal heater) out of the tank through the fairlead seat (fig. 16).
- 15) Restore the filter cover to the frame and hook up the lighting unit to the led driver with its connector (fig. 17).
- 16) Gather all cables into the provided cable guide (fig. 18).

# 4.4. Installation

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Do not connect the electric devices of the product to the mains before having completed the installation. Do not use the thermal heater and the pump dry.

After installation, do not move the product.

If necessary, move it only if the tank is completely empty.

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Do not lean any heavy objects on the intake tube.

Take ca tom (sa obstruct

Take care not to allow the material on the tank bottom (sand, etc.), leaves, plants and other objects to obstruct the intake grilles at the end of the intake tube.

- 1) Open the light cover and slowly fill the tank 1/3 full, then install the decorations and aquatic flora.
- 2) Slowly fill the tank to between the min and max marks on the label inside the tank itself (fig. 19).
- 3) Close the light cover and check the tank for leaks.

# **5. STARTING UP THE SYSTEM**

# 5.1. Routine operation

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To avoid electric risk, each power cable of the electric devices has to show a drip loop positioned lower than the plug-outlet connection point in order to prevent any drop from reaching such point.

- 1) Read the warnings in Chap. 1.
- After having connected the plug of each electric device verify the operation of the same (in case of malfunction refer to chap. 7):
  - Water should flow out of the delivery.
  - The warning light of the thermal heater should turn on if the water temperature is lower than the setpoint.
  - The programming timer should be on, with its two first digits flashing.

### 5.1.1. Programming the timer and lighting system

PURE LED aquariums are equipped with a new digital timer with a simple interface (fig. 20) which has several functions:

- Light on / off in manual mode.
- Light on / off in automatic mode, at set times.
- Rolling Filtration Timer (RFT), which reminds the user to replace the 3ACTION cartridge every 15 days to keep the aquarium in the best condition.

The timer has three touch sensitive buttons, 4 status icons and 4 digital digits. If you set automatic light on/off times, the unit runs a daily cycle with the following steps:

- 1) Day light on, the brightness slowly increases over around 30 minutes (dawn effect).
- Day light off, the brightness slowly decreases over around 30 minutes (dusk effect).
- 3) Once the day light has turned off completely, the blue night light turns on for about 3 hours (moon effect).
- After three hours, the system shuts off the night light too and all lights stay off until the next daily cycle starts.

You can always turn the light on and off manually, even if the timer is set to automatic mode.

The timer is equipped with a lock function to prevent accidental pressure of the keys. Key locking is activated automatically after 3 min-



#### Askoll PURE Aquarium KIT

utes of inactivity. The locked status is signaled by the "bloc" message that appears as soon as the block is activated and at each subsequent pressing of any keys. To remove the locked status and access the timer functions, it is necessary to press the  $\bigcirc$ ,  $\bigcirc$  and D keys quickly in sequence. Unlocking is confirmed by the appearance of 4 dashes on the clock digits for a few moments. If during the programming phase the current time or the on/off times settings are not completed, the lock will not activate after 3 minutes of key inactivity.

There is also a demo mode (DEMO), which simulates the complete daily cycle in a few seconds to highlight the potential off the led lighting system when controlled by the integrated timer (**point F**).

#### **⚠** IMPORTANT

Turning the light off manually with the button  $\bigcirc$  on the Timer and turning the light off automatically at the set time do not disconnect the lighting unit from the power supply.

The PURE LED aquarium timer does not need batteries. If there is a mains power failure, the system maintains the user settings for at least 12 hours.

# A. Setting the clock time on first start up (hours and minutes)

Once the lighting unit is connected to the power supply, the timer waits for the time to be set (it displays icon  $\bigcirc$  and the two hour digits flash).

If you do nothing, the lighting system is set by default to turn on at 10:00 and turn off at 18:00. To set the on/off times to your preference or to set the only manual mode, refer to point C.

### B. Manual mode

Press O to turn on the day light ( $\circledast$  icon on), the night light ( $\bigcirc$  icon on) and turn the light off completely, in that sequence.

### C. Programming the automatic light on/off times

- Unlock the timer by pressing the ⊙, ⊕ and keys quickly in sequence.
- 3) The time digits will now display "Auto" and icons ☀ and C will flash. To set the only manual mode, press ⊙ until the text "man" displays. Confirm by pressing .
- 4) Once you have set automatic mode "auto", icon <sup>\*</sup>/<sub>★</sub> and the hour digits will flash. Set the on time (hour and minutes) in same way as for the clock time (points 1 and 2, par. A).
- 5) Once you have set the on time, icon **C** and the hour digits will flash. Set the off time (hour and minutes) in same way as for the clock time (points 1 and 2, par. A).
- Once you have finished, the timer will display the clock time again.

7) The timer is now programmed to run the automatic daily light cycle, as indicated at the start of this chapter.

#### D. Changing the clock time (hours and minutes)

If you need to change the clock time, proceed as follows:

- Unlock the timer by pressing the ⊙, ⊙ and keys quickly in sequence.
- 3) The icon  $\bigcirc$  and the hour digits will flash: set the clock time (hours and minutes) as indicated in par. A.

#### E. Turning the RFT function on and off

The RFT is on by default (On). To turn it on/off, proceed as follows:

- Unlock the timer by pressing the ⊙, ⊙ and keys quickly in sequence.
- 3) The clock digits display "On" and icon flashes; press ⊙ to deactivate (OFF) or activate (ON) the RFT function. Confirm by pressing .
- Once you have finished, the timer will display the clock time again.

When the RFT function is on, the timer will flash every 15 days to remind you to do scheduled maintenance. To reset the indication, press 🗐.

#### F. Turning the DEMO function on and off

- Unlock the timer by pressing the ⊙, ⊕ and keys quickly in sequence.
- Hold down buttons (■) and (○) simultaneously until the clock digits display "DEMO" (you must wait for the countdown 5..4..3..2..1
  ⇒ "DEMO" to terminate). The DEMO function is now active.

#### G. Restoring the factory defaults (timer reset)

- Unlock the timer by pressing the ⊙, ⊙ and keys quickly in sequence.
- 3) The timer will now restore the factory default settings.

### 5.1.2. Filtration

#### $\triangle$ CAUTION



Always close the filter cover after the necessary operations have been performed, to prevent algae growing on the filters due to their exposure to direct light.

Aquarium water, to provide the best habitat for fish and plants, must be filtered continuously with mechanical, biological and chemical filtration. **Mechanical filtration**, which uses double layer sponges, removes suspended particulates to keep the water clear. You can always check the degree to which the sponges are soiled by simply opening the filter cover.

**Biological filtration**, done by the nitrifying bacteria which grow in the pores of the ceramic cylinders, minimises the level of toxic chemicals in the water, which are harmful for the aquatic fauna, transforming the ammonia produced by the fish into nitrates. It takes around 4 weeks for a sufficient amount of bacteria for effective purification to develop in the filtration media. This is why the first month of the aquarium's life is critical, and the fish should be added only gradually, to allow the nitrifying bacteria to take hold and multiply to a suitable level.

**Chemical filtration** is done by the 3ACTION cartridge, which contains a special mix of three ingredients:

- Activated carbon for purifying the previously filtered water from bad odours, colourants, pharmacological residues and other undesired compounds.
- Anti-nitrates and anti-phosphates for effectively removing from the water nitrates and phosphates, which are among the major causes of algae proliferation.

Replacing the 3ACTION cartridge regularly (**par. 6.2**) allows the major undesired compounds to be kept under control and effectively combats the growth of algae and keeps the water clear and transparent.

#### REMARK

In seawater aquaria, the nitrate removal function is not effective.

# 5.1.3. Heating



After disconnecting the plug, let the hot parts of the thermal heater (about 30 minutes) and of the lighting unit (about 5 minutes) cool down, before handling them. On the thermal heater, the warning light indicates only that the heating phase is active. When the warning light is off, it does not mean that the thermal heater is cool.

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The thermal heater is factory calibrated. Variables like low ambient temperature, large temperature fluctuations, lack of covers, positioning of the product close to cooling sources, may require a higher power to provide for a better temperature control.



Prevent the bottom (sand or other material), plants and any other items present in the aquarium from getting in contact with the thermal heater. It is necessary to assure a free water circulation around the glass tube.



Install the product close to the pump (fig.9) to ensure that the heated water is distributed evenly and completely throughout the aquarium. The thermal heater allows adjusting aquarium water temperature (from 18°C to 31°C) using the adjustment knob referred to the graduated scale (fig. 8). Once it has been started up for the first time and the water has reached the setpoint, the thermal heater will keep the temperature constant by turning off and on as needed. Wait for the water to reach the temperature set on the thermal heater before putting fish or other animals into the aquarium. Check the temperature with an aquarium thermometer (not provided).

#### REMARK

The thermal heater only guarantees water temperature control when the set temperature is higher than the ambient temperature. The maximum temperature rise ( $\Delta t$ ) of water in relation to the ambient temperature is around 10 °C.

### 5.2. In case of power failure

Power failures have the following effects:

- Gradual reduction, after a few hours, of the effectiveness of the biological filter, thus potentially damaging the aquarium eco-system.
- The timer may need reprogramming if the power failure lasts more than 12 hours or so.
- The water temperature may fall in proportion to the duration of the power failure.

For malfunctions, refer to Chap. 7.

# 6. MAINTENANCE AND CLEANING

#### A WARNING

To avoid electric risk:



Disconnect the plugs of the electric devices from the outlets before handling the product and/or immersing the hands in water.



Never pull the cable of the electric devices to disconnect the plugs from the outlets. To disconnect them, grab the plugs and pull them.

Do not connect the electric devices of the product to the mains before having completed the installation or having repositioned the same after maintenance operations. Do not use the thermal heater and the pump dry.

#### To avoid the risk of burns:



After disconnecting the plug, let the hot parts of the thermal heater (about 30 minutes) and of the lighting unit (about 5 minutes) cool down, before handling them. On the thermal heater, the warning light indicates only that the heating phase is active. When the warning light is off, it does not mean that the thermal heater is cool.

ΕN

#### A WARNING



Check that the water level is always included in the min. and max. level range indicated on the label.

After maintenance operations, if necessary, restore the proper water level.



Do not use detergents or other chemical products which may damage the product's components or contaminate the aquarium itself.



#### 

Always close the filter cover after the necessary operations have been performed, to prevent algae growing on the filters due to their exposure to direct light.

In case of saltwater aquariums, perform a frequent and careful cleaning (at least once a month) of the parts affected by saline condensate.

# 6.1. Maintenance and cleaning jobs

Observe the indicated maintenance and cleaning schedule to keep your product in excellent working order.

Frequen- cy	Part	Job
Every	Mechanical filtration	Visually inspect the sponges; if they are clogged, rinse them out or replace them
week	Tank	Check that the water level is between the MIN and MAX marks and top it up as needed.
Every 15 days	Chemical filtration	Replace the 3ACTION cartridge (2 cartridges for the XL model) ( <b>par. 6.2</b> Rolling Filtration System)
Every month	Mechanical filtration	Replace the mechanical filter sponge (2 sponges for the XL model). For the L and XL models, replace the spong- es closest to the water outlet nozzle (par. 6.2)
Every 6 months	Pump unit	Clean the pump unit (par. 6.3)

# 6.2. Rolling Filtration System

To keep the filters working properly and ensure the best water conditions in the aquarium, Askoll recommends that you replace the sponges and cartridges according to a specific maintenance schedule, the Rolling Filtration System (RFS).

This is very easy to do with the original Askoll maintenance kits, available from your retailer (see product code in **Chap. 9**). Two kits are available:

 Askoll PURE FILTER MEDIA KIT M-L-XL, containing 1 mechanical filtration sponge and 2 3ACTION cartridges (1 kit per month for PURE M and PURE L aquariums, 2 for the PURE XL aquarium);

and:

 Askoll PURE FILTER MEDIA KIT M-L-XL CONVENIENT, containing 4 mechanical filtration sponges and 8 3ACTION cartridges (1 kit every 4 months for PURE M and PURE L aquariums, 1 every 2 months for the PURE XL aquarium);

Replace the sponges and cartridges as follows:

- 1) After disconnecting the plug of each electric device, open the filter cover.
- Remove the sponges and cartridges and dispose of them according to local regulations.
- Replace the sponges and cartridges at the specified intervals (par. 6.1).
- 4) Close the filter cover.

The Askoll PURE LED timer will remind you every 15 days (icon  $\bigcirc$  flashing) to replace the 3ACTION cartridge/s (Rolling Filtration Timer – RFT). To turn off the RFT indication, simply press B.

To turn off the RFT function, refer to par. 5.1.1. - E.

# 6.3. Cleaning and servicing the pump unit

- 1) After disconnecting the plug of each electric device, remove the filter cover and extract the pump unit cable from the fairlead seat and cable guide.
- 2) Extract the pump unit (fig. 21).
- 3) Detach the intake tube and delivery tube (with delivery) from the volute (fig. 22).
- If necessary, replace the pump (dispose of it as indicated in Chap. 10), otherwise go to the next step.





- 5) Turn the pump volute counterclockwise to remove it, then extract **7. TROUBLESHOOTING** the impeller (fig. 23).
- 6) Rinse the impeller under running water (fig. 24).
- 7) Clean the impeller's seat carefully with a non-abrasive brush (fia. 25).
- 8) If necessary, also clean the intake tube, delivery tube and delivery under running water.
- 9) Reassemble and restore the pump carefully along with the other components, proceeding in the reverse order to the disassembly procedure.

# 6.4. Cleaning the lighting unit

- 1) After disconnecting the plug of the lighting unit, remove the filter cover and the light cover.
- 2) Place the covers on a surface protected with a cloth so as not to scratch them.
- 3) If the light cover or the lighting unit (with the timer) need replacing, disassemble the two elements by unscrewing the three screws which keep them together using a suitable Phillips screwdriver (fig. 26).
- 4) Clean the lighting unit with a damp cloth.
- 5) Reassemble and reposition the components carefully repeating the above described procedure in opposite order.

PROBLEM	CAUSE	SOLUTION	
	Missing connection of the led driver to the pow- er outlet	Connect the led driver to the power outlet	
The lighting is not working	Missing connection of the lighting unit to the led driver	Connect the lighting unit to the led driver with its connector	
	Other	Contact your retailer	
	The thermal heater is not plugged into its power outlet	Plug the thermal heater into its power outlet	
Water temperature low	The thermal heater ad- justment knob is set too low	Set the temperature to the correct value (par. 5.1.3)	
	The ambient temperature is too low	Add a supplementary thermal heater	
	Other	Contact your retailer	
	The pump is not plugged into its power outlet	Plug the pump into its power outlet	
No water flow	The pump is jammed	Clean the impeller (par. 6.3)	
	Other	Contact your retailer	
Low water flow	The intake tube, pump, delivery tube or delivery is clogged	Clean the parts (par. 6.3)	



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# 8. STORAGE AND REPACKING

#### To store the product:

- Carefully clean and dry off all parts of the product. The mechanical filtration sponges and the 3ACTION cartridges must be disposed of according to local regulations.
- 2) Store the product and its components in suitable containers.
- Keep the product indoors in a dry place, out of the weather and freezing temperatures.

### 9. OPTIONAL MODULES AND SPARE PARTS

#### 9.1. Optional modules

The product can be fitted with the following optional modules (not included):

Module	Description
ROBOFOOD programmable fish feeder	Battery powered programmable fish feeder which can dispense up to two meals a day
Askoll CO <sub>2</sub> PRO- GREEN SYSTEM CO2 enricher	Dispenses CO <sub>2</sub> into the aquarium to promote plant growth
ASKOLL ROBOFORMULA	Electronic aquarium treatment dispenser with Askoll Formula Azure cartridge for clear water and healthy plants
PURE aquarium stand	Specifically designed, it is the best fitting for the aquarium, enhancing its style and providing a sturdy and suitable support to the same

### 9.2. Spare parts

For part numbers in circles refer to fig. 1 and fig. 2.

				-			
Model		PURE M LED	PURE L LED	PURE XL LED	PURE XL HC LED		
Component			Codes				
PURE PUMP	EUR	AB350050	AB350052	AB350054	AB350098		
pump 20 23 24 25	UK	AB350051	AB350053	AB350055	AB350099		
Impeller 23		AB350056	AB350057	AB090006	AB350100		
	EUR	AB350059					
Led Driver <sup>®</sup>	UK	AB350060					
Lighting unit (with timer) 10		AB350061 AB350062 AB350063			50063		
Thermal heater	EUR		AA230003		AA230004		
THERM (13) (14)	UK	AA230008		AA230009			
Heater bracket wit suction cups (14)	th	AB230001					
Delivery and intak KIT (19 (22 (26)	e	AB350064 AB3501			AB350101		

Model	PURE M LED	PURE L LED	PURE XL LED	PURE XL HC LED
Component		Co	des	
Baskets KIT (n. 1 bi- ological basket for ceramic cylinders, n. 1 basket for mechanica filtration sponges, n. 1 chemical filtration sep- arator) (30) (31) (32)	AB350018			
Cable guide 17		AB3	50022	
white	AB350065	AB350068	AB350071	
Light cover and blac	AB350066	AB350069	AB35	50072
filter cover (4) (5) bur gund	1 1 2 2 5 0 0 6 7	AB350070	AB35	50073
PURE FILTER MEDIA KIT M, L, XL 28 33	AC350013			
PURE FILTER MEDIA KIT M, L, XL CONVEN- IENT 28 33	AC350014			
Askoll PURE MAX MINI ceramic cylinders 100g 29	AC350006			

# **10.PRODUCT DECOMMISSIONING**

On the package and/or in the product, the symbol indicating the separate collection of electric and electronic equipment is printed in a visible, readable and indelible way. It consists of a crossed-out wheeled bin. The user shall convey the discarded product to the collec-



tion centres in his own Municipality or return it to the retailer when purchasing a new equivalent product, on a one-against-one basis. Suitable separate collection, which allows for the following recycling, treatment and compatible environmental disposal of the discarded product, contributes to prevent to affect negatively the environment and the health, besides easing reuse and/or recycling of the material of which the product is made. Abusive disposal of the product by the user implies the application of the administrative sanctions set forth by the regulations in force in the country of disposal.



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