Model	Scuma MKB 130 DC	Scuma MKB 160 DC	Scuma MKB 200 DC	Scuma MKB 250 DC
Height	478 mm	538 mm	560 mm	580 mm
Footprint	140x152mm	170x182mm	223x210mm	273x260mm
Diameter	130 mm	160 mm	200 mm	250 mm
Pump	Reef Motion 1,5KDC	Reef Motion 2,3KDC	Reef Motion 4KDC	Reef Motion 8KDC
Air injection	720 l/h	1120 l/h	1500 l/h	2800 l/h
Power consumption	18w	28w	35w	70w
Aquarium up to	500 litros	1000 litros	1800 litros	2900 litros
Sump water level	Entre 100 - 160 mm	Entre 100-200 mm	Entre 150-250 mm	Entre 150-250 mm
Reference	7700130	7700160	7700202	7700252
EAN Code	8436036490041	8436036490058	8436036490393	8436036494636

BLAU aquaristic

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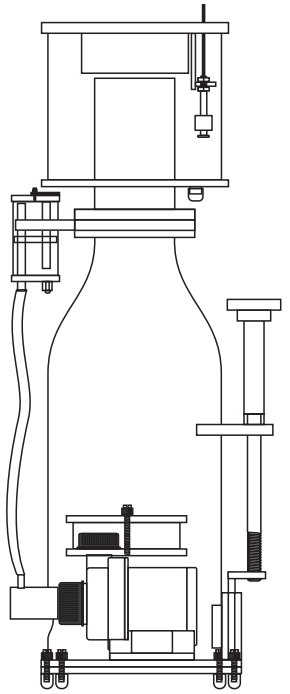
ENGLISH

Users Guide



Scuma MKB 130 DC
Scuma MKB 160 DC
Scuma MKB 200 DC
Scuma MKB 250 DC

BLAU aquaristic

Scuma MKB 130 DC, 160 DC, 200 DC and 250 DC

The Blau Aquaristic Scuma MKB series represent the latest vanguard of protein skimmers placed into the sump. They have an optimum performance and take up a minimum of space.

Before the installation and use of this skimmer, we recommend read and understand this instructions.

Features:

- Acrylic body in the shape of classic milk bottle, for an optimum performance.
- Thanks to its thoughtful design, it takes up as little space as possible (internal pump and knife gate valve).
- Direct-current pump with power controller from 0 to 100%.
- Three regulation levels for a better skim control: power of the pump, air intake and water output.
- The silencer bracket turns 360º allowing its better position.
- Silencer with ozone intake.
- Silicon feet anti-vibration.
- Level sensor for avoid the cup overflow.
- Fully demountable for an improved cleaning.
- Silent functioning.
- Maximum air injection.

Composition:

- Skimmer body
- Skimmer cup
- Reef motion DC pump with pinwheel impeller
- Pump power source/power adapter (AC 100-240v 50/60Hz 24v)
- Level sensor
- Silencer
- Bubble diffuser plate
- Air and ozone tubes
- Anti-vibration silicon feet

Installation:

- It should be installed into the sump or an aquarium which carries this function.
- For an optimum performance place it in a compartment with a stable water level and with the recommended water height.
- Place the power adapter and the DC controller in a dry place.
- Avoid the entrance of scraps or materials that would damage the pinwheel impeller.
- Mount the protein skimmer following the attached framework.

Assembly:

- Remove the skimmer base by loosening the screws and turning the piece until the screw's heat can get out by the holes of the base.
- Place the pump in its base. Put the injector ring in the water inlet. Open the bubble diffuser loosening the screw. Set the bubble diffuser to the pump through the provided nut, the diffuser should be centred in relation to the skimmer base. Close the cover of the diffuser with the screw so that the part without holes cases above the pump exit.
- Lock the skimmer base placing the body over the base and tightening the screw.
- Place the air injector in the pump output ring. Place the white silicone tube in the air injector inlet.
- Place the silencer in its bracket and connect the air tube injector to the silencer.
- Place the level sensor in its support into the skimmer cup, at the desired lecel. And connect it to the pump.

Start-up:

- Connect the pump to the controller, connect the controller to the power adaptor and then plug it to the electric network.
- It has different options for regulate the protein skimmer:

a) Regulation through knife gate valve in the exit. To more closed, highest water level into the skimmer and most liquid will be the skim.

b) Regulation of the air intake by the silencer gate. Not always we can achieve a better skimming with a maximum input. An excess of air can produce turbulences and a poor functioning of the pump. Generally it's necessary to connect the skimmer with the maximum air intake valve opening and slowly closing until observe an optimum mix in the protein skimmer body (white colour). A smaller entrance of air brings a higher entrance of water, consequently when we close the air intake, the water level increases into the skimmer.

c) Regulation by the power of the pump. Obviously a power increase achieves a greater water flow. When the water level in the sump is higher than expected, it may be worth decrease the power of the pump.

- Generally, a better skimming is achieved placing the inner water level into the skimmer's neck; but it depends of different factors as the organic matter in suspension.
- Due to the nature of the acrylic material of the protein skimmer, a good skimming should not happen on the first days.
- Water changes or additives introduction can produce temporary skimming mismatches. The level sensor will stop the pump in case of overflow.

Maintenance:

- For a proper skimming, clean the pump neck as often as possible.
- For safety, unplug the pump before any kind of maintenance.
- The detritus accumulation can affect the proper functioning, a periodic cleaning is needed.
- It is normal that salt deposits will appear in the air injector which decreases its effectiveness. Stopping the pump for an hour can help to undo the salt deposits. In case of severe obstruction, it is useful to disassemble the injector and immerse it in warm water or eve water mixed with vinegar.
- Use a sponge or a soft cloth for clean the plastic parts of the protein skimmer, never use aggressive agents which could scratch the plastic.

Ozone use:

- This protein skimmer allows use ozone.
- Ozone injection must be made by its specific intake in the silencer.
- An excessive use of ozone can be harmful for the aquarium life. Use it in small doses and through a controller.

Warning:

1- Do not run the pump dry.

2- Keep the controller and the power source far from water splashes.

Warranty:

This product has a warranty of 2 years for any manufacturing defect.

The warranty does not cover:

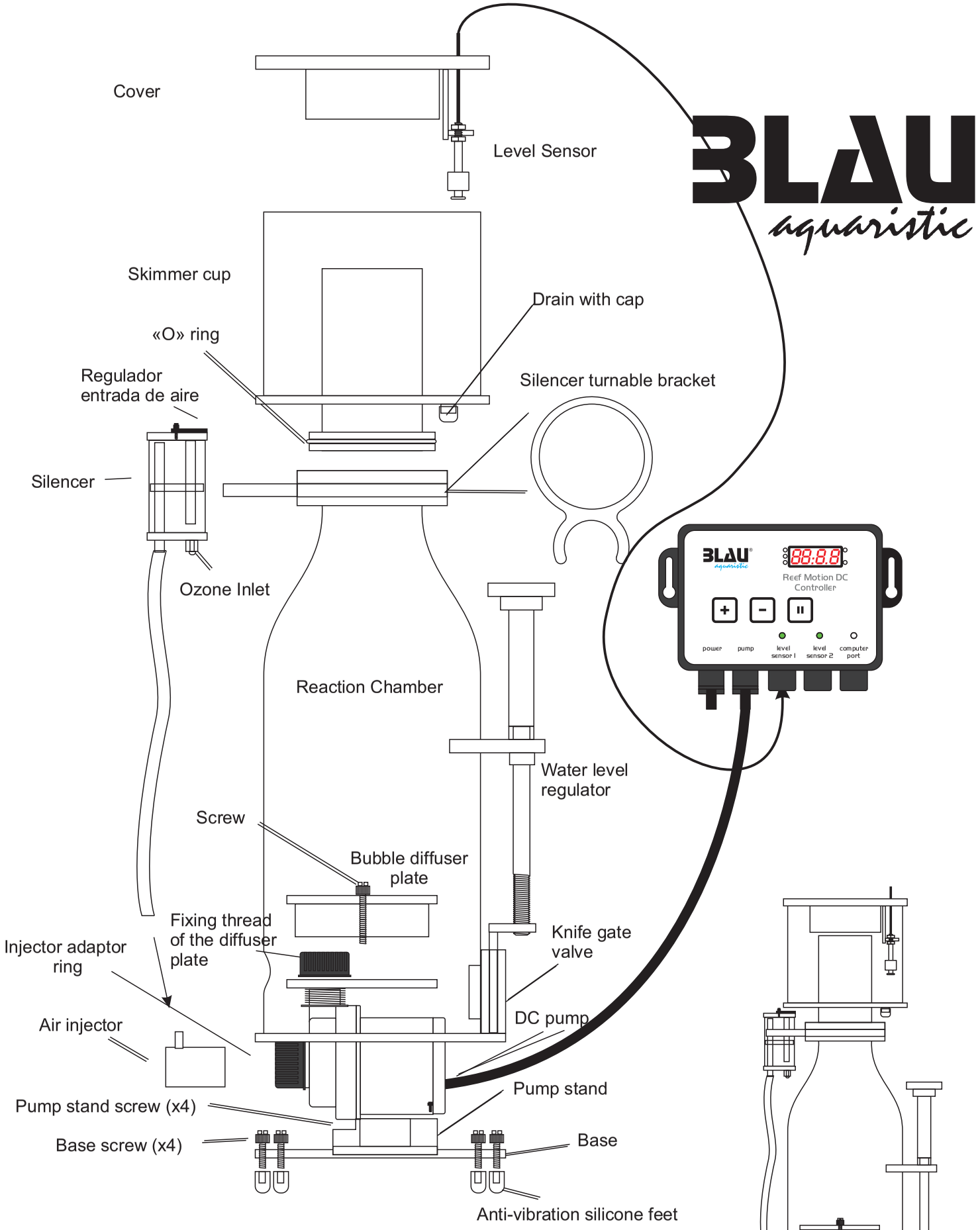
-Product failures caused by a wrong use.

-Product failures caused by a wrong installation.

-Product failures due to a continuous operation.

-Transport costs to the repair centre.

For use the warranty, it is necessary accompany the product with his purchasing receipt.



Blau Aquaristic Scuma MKB 130DC - 160DC 200 DC and 250 DC Assembly diagram