

Thank you for purchasing your new SKIMZ Protein Skimmer that provides optimum performance with maximum safety and reliability.

Model	Body Diameter (mm)	Skimmer Pump	Total Watts	For Aquarium	Code
SM 163	160	VSC3000-DC	8 - 20	up to 1200 L	8043-00
SM 203	200	VSC5000-DC	15 - 35	up to 2000 L	8044-00
SM 253	250	VSC10000-DC	31 - 84	up to 3000 L	8045-00

SAFETY INSTRUCTIONS

Check that the voltage shown on the label of the pump corresponds to the voltage of the main supply.

Disconnect all electrical appliances from the main before placing your hands in the water.

The pump is protected against overheating. Never allow the pump to run dry.

MAINTENANCE

It is recommended to clean the pumps every 3 months. Check and clean the impeller, and if necessary soak the pump and impeller in white vinegar to dissolve any calcium deposits.

WARRANTY POLICY

Skimz Singapore LLP (Company) warrants this product to the original purchaser against defective material and workmanship that occurs during normal use of the body for two (2) years and one (1) year warranty on the pump. Company will, at Company's option, either repair or replace without charge.

PRODUCTS COVERED BY WARRANTY

All Skimz equipment is covered by warranty from the date of purchase. To be effective, register your product at: www.skimz.sg/support/register.html within 14 days of the product's purchase date.

Exclusions:

Damage resulting from accident, misuse, lack of reasonable care, subjecting the product to abnormal working conditions or any other failure not resulting from defects in materials or workmanship.

Damage caused by tampering, modification or attempted repair by anyone other than the Company.

Transfer of product to someone other than the original purchaser.

Bring the product to your nearest Skimz dealer or ship the product, together with a copy of the purchase receipt or other evidence of purchase to:

Skimz Singapore LLP
5 Ang Mo Kio Industrial Park 2A
#04-30 AMK Tech II
Singapore 567760

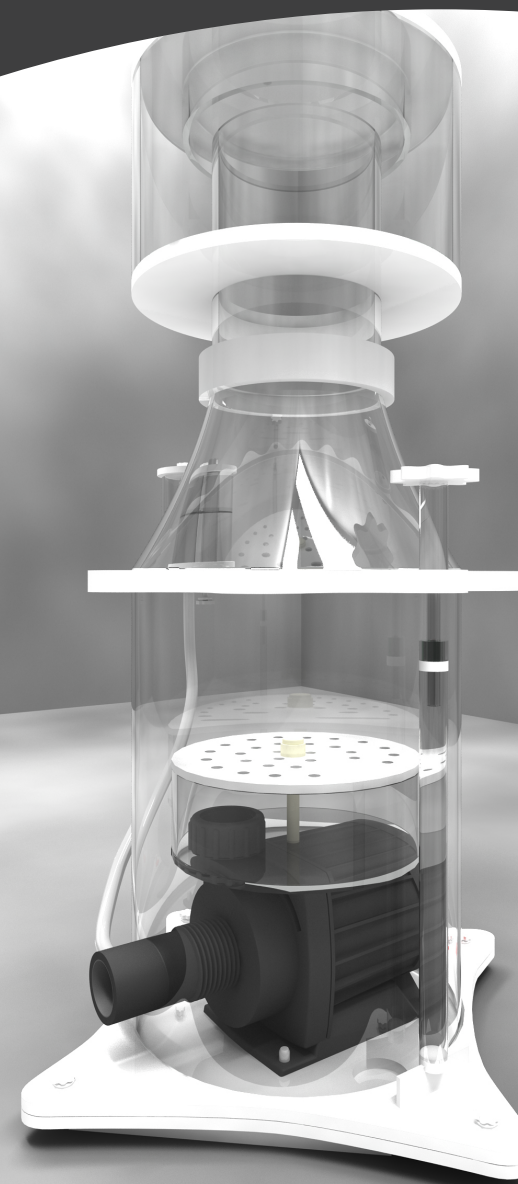
You must pay any postage, shipping charges, insurance costs and other expenses to return the product to Skimz. However, if the necessary repairs are covered by the warranty, Company will pay the return shipping charges.

This product is qualified in accordance with the respective regulations and guidelines and meet EC standards.



QUICK INSTALLATION GUIDE

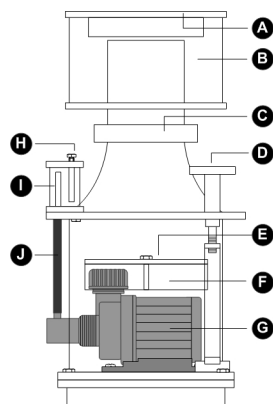
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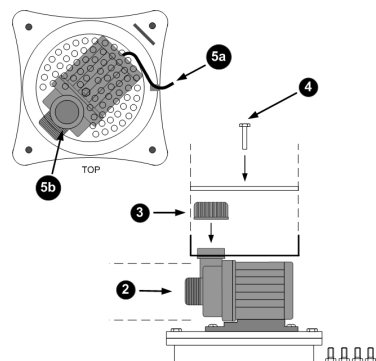
SM 163
SM 203
SM 253

PROTEIN SKIMMER internal



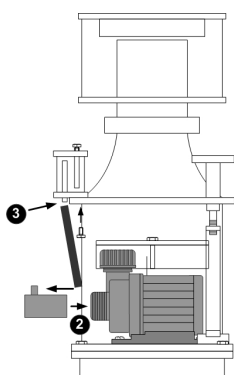


- A. Lid for collection cup
- B. Collection cup
- C. Twist-lock fitting (Bayonet)
- D. Micro-adjustable valve
- E. Bubble plate lid
- F. Bubble plate chamber
- G. Skimmer pump
- H. Air intake tap
- I. Air intake silencer
- J. Air tube



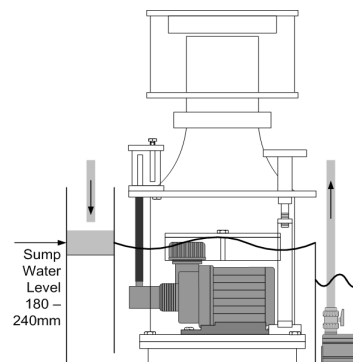
STEP 1

1. Detach the skimmer body by removing the thumbscrews.
2. Slide the skimmer pump into the mounting support.
3. Attach the bubble plate chamber and tighten it to the skimmer pump.
4. Assemble the bubble plate lid.
5. Before you reattach the skimmer body, check the following:
 - a. The skimmer pump wire is inserted into the groove of the skimmer base.
 - b. Check the bubble plate lid direction as shown on the diagram where the holes are away from pump output.
 - c. Open the micro-adjustable valve fully (clockwise).



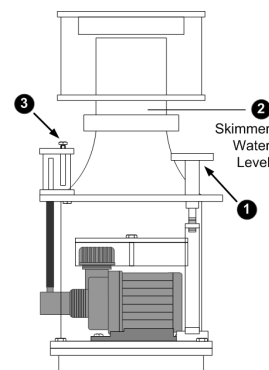
STEP 2

1. Reattach the skimmer body and tighten the thumbscrews.
2. Insert the venturi assembly to the intake of the skimmer pump.
3. Assemble the air intake silencer and connect the air tube as shown in the diagram.



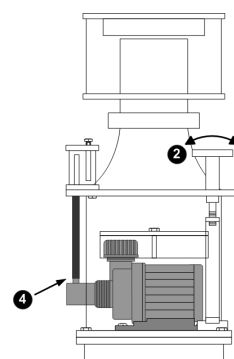
STEP 3

1. Position the skimmer in the sump.
2. For optimal performance, the water in the sump should be between 180 and 240mm.
3. An auto water top up system or a separate skimmer compartment in the sump is recommended to maintain the water level and skimmer consistency. Fluctuations in water level will affect the performance.



STEP 4

1. Ensure that the micro-adjustable valve is fully opened and start the skimmer pump.
2. Close the micro-adjustable valve until the skimmer water level is between the bayonet and bottom of the collection cup.
3. Set the air intake tap halfway and leave it to settle down for a day or so (initial break-in period).
4. When foam formation begins after break-in period, fine adjustment to the skimmer can be done via adjustment of air intake tap and micro-adjustable valve for optimum performance.



STEP 5

1. For dry skimming foam, turn the micro-adjustable valve clockwise.
2. For wet skimming foam, turn anti-clockwise.
3. Skimz Skimmer can be operated with ozone up to max. 50 mg/h per pump via a suitable silicon hose. The guideline for ozone dosing is 5 to 10 mg/h for each 100 L of aquarium water.
4. Install a T-joint to the skimmer pump air inlet. Run one side of the T to the ozone unit and the other to air intake silencer. You can adjust the air intake tap to produce sufficient suction on the ozone side to pull the ozone into the skimmer passively.