Thank you for purchasing your new SKIMZ Recirculating Biopellet Reactor that provides optimum performance with maximum safety and reliability.

Model	Reactor Pump	Body Diameter (mm)	Biopellet Media (ml)	Phosphate/Carbon Media (ml)	For Aquarium	Code
RR93	WP-VSC1200DC	90	up to 700	up to 600	up to 700 L	8248-00
RR113	WP-VSC2000DC	110	up to 1,200	up to 1,000	up to 1,200 L	8249-00
RR153	WP-VSC3000DC	150	up to 2,000	up to 1,800	up to 2,000 L	8250-00

MAINTENANCE

It is recommended to clean the reactor when new media is replaced. The recirculation pump and water outlet control valve should be cleaned to ensure that it does not blocked with debris from the tank or calcium deposits.

Every three months:
Clean the recirculation pump and inspect impeller for potential wear.

Every six months:
1. Remove the media, rinse it under running water.
2. Clean the whole reactor to remove salt creep.
3. Slightly lubricate the O-rings with silicone grease.

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, product warranty within 14 days of the product's purchase date.

Exclusions:
1. 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.
2. Damage caused by tampering, modification or attempted repair by anyone other than the Company.
3. Transfer of product to someone other than the original purchaser.
4. 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:

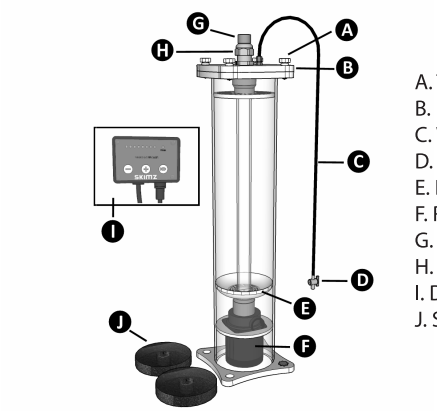
Skimz Singapore LLP
5 Ang Mo Kio Industrial Park 2A
#04-30 AMK Tech II
Singapore 567760

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.

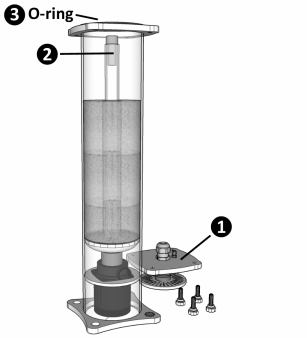
QUICK INSTALLATION GUIDE

DC Recirculating Biopellet Reactor

RR93 • RR113 • RR153



A. Thumbscrew
B. Lid
C. Water outlet tube
D. Water outlet valve (Effluent)
E. Dispersion cone
F. Reactor pump
G. Port Plug (Quick air release)
H. Plug holder
I. DC pump controller
J. Sponge (when reactor is utilize as fluidized reactor)



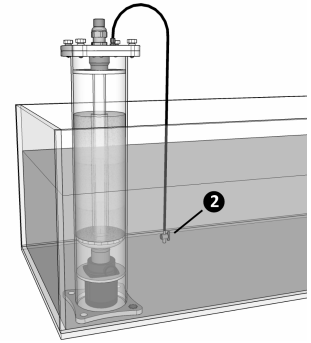
STEP 1

1. Open the lid by removing the thumbscrews anticlockwise.

2. Remove Port Plug from the plug holder than insert Port Plug into the centre flow tube thereafter pour media into the reactor chamber.

3. Make sure there is no debris on the O-ring and all the contacting surfaces of the O ring before placing it in position.

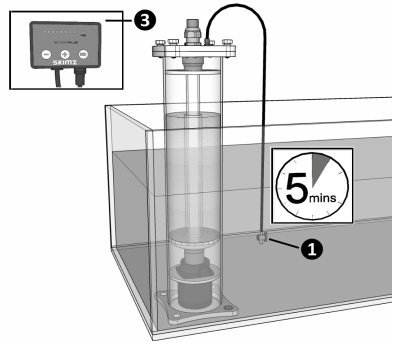
4. Replace Port Plug in the plug holder. Reattach the lid and tighten all screws.



STEP 2

1. Place the reactor in the sump tank.

2. Submerge the Water Outlet Tube in the sump tank.



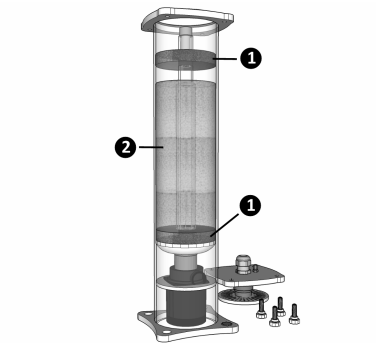
STEP 3

1. Fully open the Water Outlet Valve and submerge it in the water. Turn on the Reactor Pump and let it prime. The average prime time is between 3-5 mins.

2. if you experience the reactor cannot complete priming due to too much air trapped in the pump chamber. Remove Port Plug and add about 500 ml of water to assist the priming process. Replace the Port Plug once priming is completed.

3. Regulate the flow rate until all the media is tumbling, so that it will keep the media free of biofilm.

4. Adjust the water outlet of your effluent according to your bio-load.

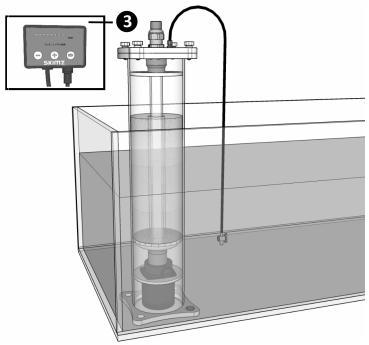


STEP 4

When using this equipment as Fluidized Reactor.

1. Insert the provided sponge at bottom and top of the reacting chamber.

2. This equipment can be used with Phosphate media or activated carbon.



STEP 5

When using this equipment as Fluidized Reactor.

1. Carry out STEP 2 for placement of Reactor.

2. Carry out STEP 3 for priming processes.

3. Adjust the flow rate until the media starts to fluidize.

4. When fluidizing media, we suggest that the flow must not be too strong to avoid media disintegration. A general guide is to provide sufficient flow such that the surface of the media are moving gently.