



H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca

RLSS PROTEIN SKIMMER MANUAL

R.L.S.S., abbreviation of Reef Life Support Systems, is a brand name and product line of professional reef keeping or marine fish keeping equipment. For better use of your products and having the full satisfaction, please read follow information. If you still have question, please contact your retailer or our technical service team.

Features:

- High efficiency design on protein skimmer, especially on air intake ability and bubble generation.
 - With Waveline DC pump, variable skimming ability and air intake levels can be provided.
 - FEED model for feeding fish and coral in convenient usage.
 - Twist on/off collection cup for easy installation and cleaning.
-
- Waveline DC Skimmer Pumps, DC3000, DC5000, DC10000, were upgraded to new Waveline DC Skimmer pumps, DC4000, DC6000, DC10000II and DC12000.
 - The new Waveline DC Skimmer pump will have higher RPM and higher air suction volume compared to old models.
 - Customer who is having old model DC pump skimmer is possible to upgrade to new Waveline pump skimmers.



H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca

Products Package Contents

Before start to use your RLSS protein skimmer, please check if the follow contents are all in your package, otherwise, please contact your retailer.



R Series Internal Models(R6-i, R8-i, R10-i)

1. Waveline pump with pinwheel;
 2. Foam Collection Cup;
 3. Protein Skimmer body;
 4. Air Valve pipe;
 5. Air intake venturi;
 6. Air silicone soft hose;
- * other pipes will be provided in External models (R8-e, R10-e, R12-e) and Universal models (R8-u, R10-u, R12-u)

DB Series internal models (DB8-i, DB10-i, DB12-i)



1. Waveline DC pump;
2. Air valve pipe;
3. Foam Collection Cup;
4. Skimmer body with DB (Direct Bubbling) System inside;



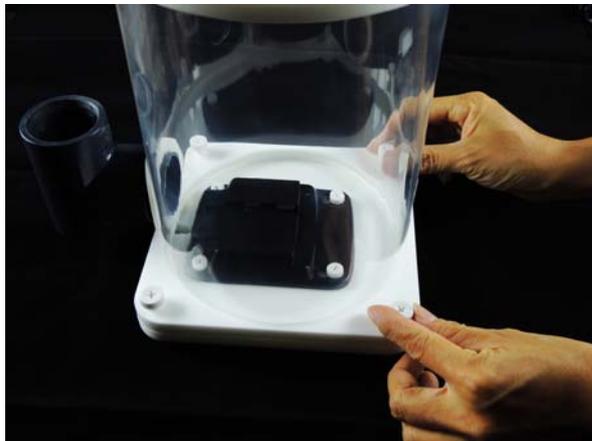
H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca

How to install a R series Protein Skimmer



1. Take out and unpack skimmer body.



2. Unscrew the 4 White plastic nuts on the bottom of skimmer body.



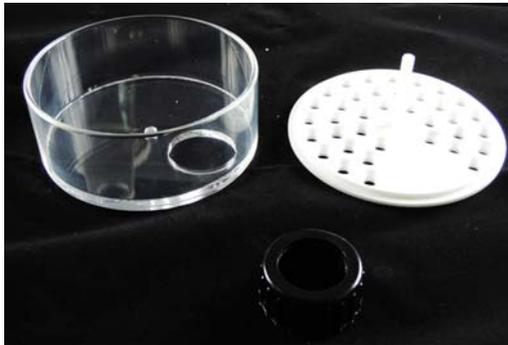
H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca

3. Slide in the Waveline skimmer pump



4. Take out Reaction Chamber and Diffuser Plate and install Diffuser Plate.





H2O SYSTEMS INC.

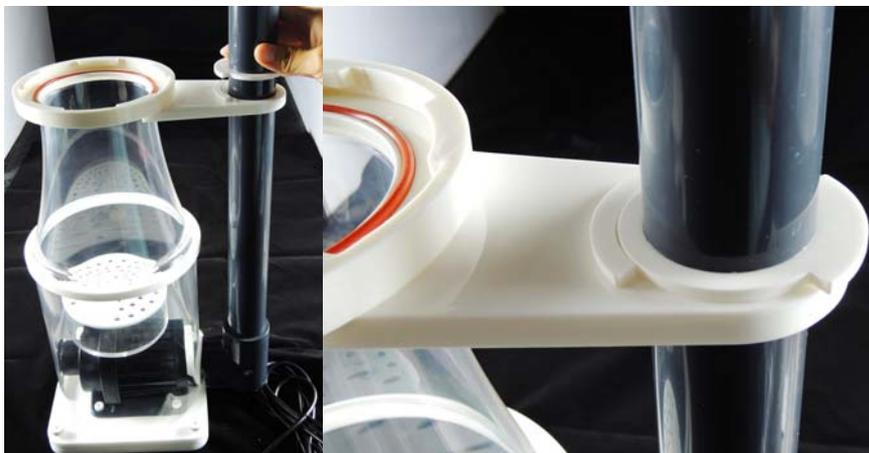
Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca



5. Install the skimmer body back to the base plate by fasten the screw nuts.



6. Insert the air valve adjusting pipe and air silencer onto holder.





H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca

* You can adjust the skimmer water level (inside the skimmer) by turning this pipe. Normally lower skimmer water level can achieve condensed bubble ("Dry Skimmates")

7. Insert air silencer onto the air silencer holder.



8. Screw up the air intake venturi into the water inlet of Waveline pump. Make sure the tip on venturi upward. Connect the air silicone soft hose and the air silencer downward tip.





H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca



9. Twist up or slide in the Foam Collection Cup onto the skimmer body neck, then finish the installation.





H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca

How to install a DB series protein skimmer (DB8-i, DB10-i, DB12-i)

1. Unbox and take out DB protein skimmer body.



2. Unscrew the nuts on skimmer base and take out the skimmer body, then pull out the air silicone soft hose.





H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca

3. Take out attached Waveline DC pump and its screw driver, unscrew the Titanium Screw of all 4 nuts.



4. Seat the Waveline DC pump vertically downward, fasten the 4 Titanium Screw Nuts then install the skimmer pump onto the bubbling plate.





H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca

5. Pull the power cord and air hose out of skimmer body through cord hole and air hose hole, install the skimmer body by fasten the 4 White nuts.



6. Connect the air soft hose to the air silencer downward tip.

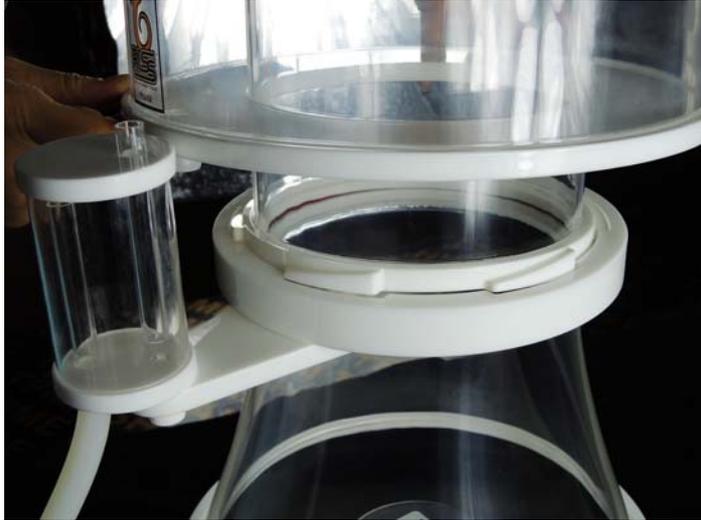




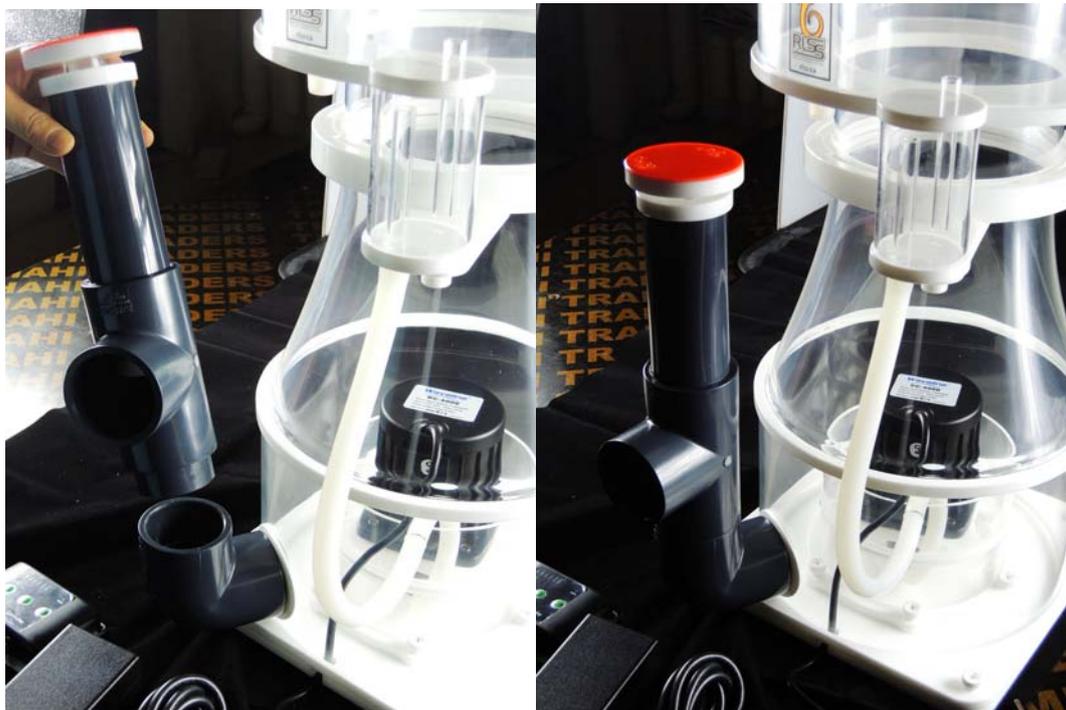
H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca

7. Twist on the Foam Collection up.



8. Insert the air/water valve pipe.



- Protein Skimmer water level (inside skimmer) can be adjusted to high water level by turning to "H" direction and low water level by turning to "L" direction.



H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca

9. Connect all cables of Waveline DC pump and finish the installation.



How to Set Up a RLSS Protein Skimmer

RLSS protein skimmers are designed to be used as internal in-sump use skimmer or external use skimmer.

Model R6-i, R8-i, R8-u, R10-i, R10-u, R12-u are respectively for 6 inches, 8 inches, 10 inches, 12 inches skimmer body internal use protein skimmer.

Model R8-u, R10-u, R12-u are respectively for all universal skimmer body, which allow user to upgrade or downgrade the skimmer pump by change the pump itself. A out-seat skimmer pump, connecting skimmer body with unique silicone hose will maximize the bubble generating area and let skimmer have higher processing ability.

Model R8-e, R10-e, R12-e are respectively for 8 inches, 10 inches, 12 inches skimmer body external use protein skimmer. They might need to additional have feeder pump for water inlet/outlet.

Model DB8-i, DB10-i, DB12-i, are respectively for 8 inches, 10 inches, 12 inches skimmer body internal use protein skimmer with DB Systems. (Direct Bubbling System that is with special designed open volute and bubbles generation chamber.

- *for use a internal protein skimmer*

Wash or flush your new skimmer before put it into your sump for avoiding any possible contamination to your tank. Then set the sump's water level to recommend 18-22cm height, put RLSS internal skimmer into the sump and let water flow into skimmer slowly.



H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca

Turn on skimmer pump and skimmer pump will ramp up slowly, then bubbles will begin to accumulate. Press "+" button on controller, the skimmer pump will generate more bubble by sucking more air into skimmer, on the contrary press the "-" button on controller to slow down the pump and decrease the bubbles.

Adjust the air/water valve pipe by twist the red cap or the pipe itself for higher or lower skimmer water level. Lower skimmer water level will let skimmer have more height to rise the bubble and then achieve condensed skimmates.

Press "Feed" button on controller, you will have 30 minutes to feed the fish or corals, or clean up the skimmer. After 30 minutes, skimmer pump will resume to run again slowly and come back to previously configuration.

Twist the pipe on air silencer, the air intake volume can be adjusted. Normally, protein skimmer need to have the highest air intake, except for some situation, like the air sucking noise happened.

After skimmer set up in sump, you will find a stable and fine air bubble will be risen from the protein water level to the collection cup neck slowly.

How to maintain a RLSS protein skimmer

Once RLSS protein skimmer begins to run in stable, the skimmer needs few maintance.

Please check and drain or clean up the foam collection cup in every 6-7 days typically.

Please check if any gravel likes block the air intake venturi and clean up if necessary.

Please check the skimmer pump shaft every 6 months and clean it if possible. (Please see Waveline DC pump manual for dismantling the pump's shaft)

Disposal of RLSS Protein Skimmer

RLSS protein skimmers body are made from PMMA, skimmer pipes are made from PVC and skimmer air hose and sealing O-ring are made from silicone



H2O SYSTEMS INC.

Mississauga, Canada L4Y 4G6
Phone: +1 416 565 3572 Fax: +1 888 338 2909
www.rlss.ca

rubber. Please discard your mission-end skimmer according to your local recycling regulations.

Please discard the skimmer pump as mentioned in "Waveline DC pump manual".

RLSS protein skimmers will be committed by H2O SYSTEMS INC., to use most environmental materials to manufacture within our designers and producers' knowledgements.

RLSS protein skimmers Products' Specification

Please refer to our webpage: www.rlss.ca

LIMITED WARRANTY

This product is guaranteed for a period of 12 months from date of purchase for material or manufacturing defects. Certificate of guarantee must be filled out completely by resale dealer and must accompany equipment along with the receipt in case it is submitted for repair. Guarantee consists in guaranteed substitution of defective parts. Guarantee is considered to void in case of improper use, or damages caused by improper handling or negligence on the part of the buyer. All equipments must be sent postage paid.

DISTRIBUTED BY:

H2O SYSTEMS INC.
Mississauga, Ontario, Canada. L4Y 4G6
Tel: +1 416 565 3572
Fax: +1 888 338 2909
Web: www.rlss.ca