

# D & D MARINE ENTERPRISES



The  
**Uni Max**  
Line  
By D & D Marine Enterprises Inc.

## Typhoon Hang On Skimmer

D & D Marine Enterprises Inc. , 176 Tracy Lane, Bagdad KY 40003

502-747-8562

[www.danddmarine.com](http://www.danddmarine.com)

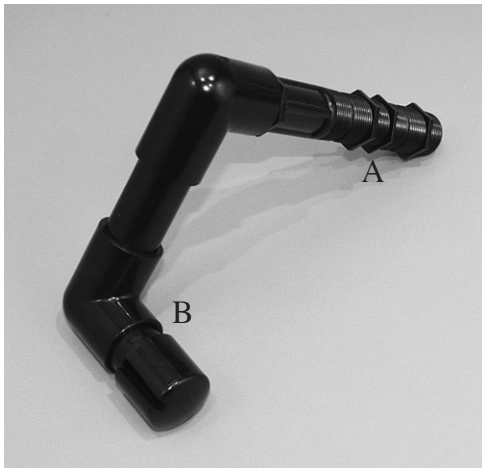
# Parts Diagram

Check to insure you have all parts as shown

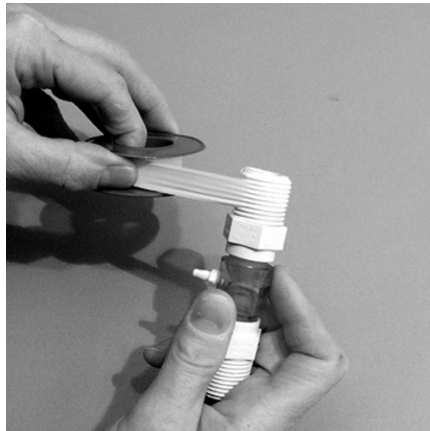


## ASSEMBLY & START UP

STEP 1 Assemble parts A,B as shown below. Make certain all threads are tefloned with thread tape. See Teflon Diag to right.



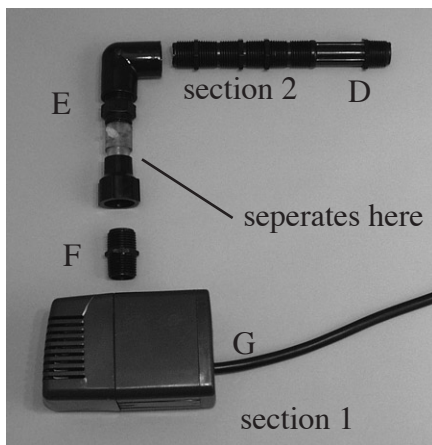
Wrap tape counter clock wise up the thread



STEP 2 - Cut part "A" to reach across the tank wall. Make it just long enough to reach so that the skimmer will be supported. This can be cut with a hacksaw blade or utility knife. Then thread the parts together as show below. Make certain all threads are tefloned.



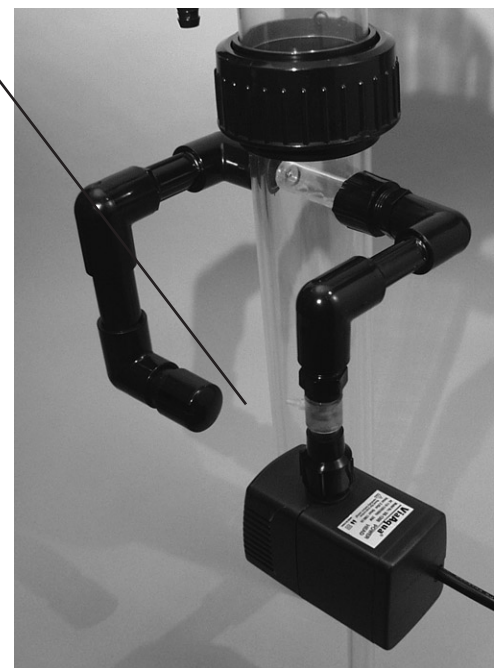
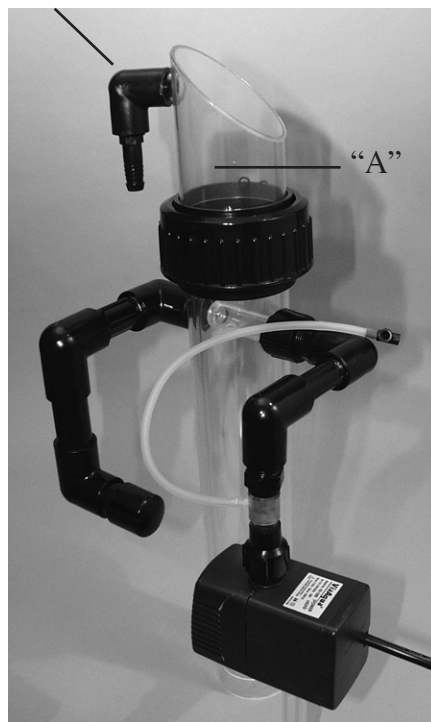
STEP 3 - Gather parts D,E,F&G. Cut part "D" to reach across the tank wall allowing room for the pump to fit against the tank inside. Teflon all threads. Assemble all parts as shown below, and separate the venturi halves as shown, this makes putting the pump into the tank easier.



Rotate slot to face up towards the surface at about 45 degrees. Slot wide open.

Step 4 - Thread section 1 into skimmer body as shown on the right. After hanging the skimmer on the tank press section 2 into section 1. Attach air hose, and waste outlet as shown below.

Step 5 - With the skimmer on the tank, and the water return slot fully open, plug the pump in. Wait a few minutes then slowly close the water outlet slot to raise the water level to line "A" shown to the right. Make certain to attach waste hose to waste outlet and place into a jug such as an 1 gallon milk jug.



# Maintenance

There are only a few things that your skimmer will require for maintenance. First and most important is keeping the venturi clean. This may vary greatly depending upon how much light is hitting the venturi in any given installation. Try to shield the venturi from as much direct light as possible. To clean the venturi remove it from the skimmer and soak it in vinegar for about two hours. After it has soaked use a Q Tip in the ends to remove debris. Repeat soaking if needed. **DO NOT SCRATCH THE INSIDE OF THE VENTURI.**

The only other cleaning is to occasionally remove the angular concentrator top and rinse. This is not required it will not effect the way the skimmer performs. After the top has been removed a few times you will need to re-teflon the threads.

You may also remove the inner core of the skimmer for claeaning. This is done by unthreading the inlet tube and sliding it out the side of the unit. Next remove the concentrator top and lift the core out of the body. Simply reverse this process to reassemble the skimmer as shown below.



## Trouble shooting

Your skimmer is designed to be as simple as possible to operate. There are only a few things which can be at issue.

First, if after time you begin seeing large bubbles and fewer fine bubbles. This is generally an indicator that the venturi needs to be cleaned. Also check the air intake line to the venturi for obstructions, and open the pump and clean the inside.

Second, if you see a reduction in the amount of foam on top of the unit. This again will generally go back to the venturi. Follow the steps listed above. (A temporary drop in foam can be caused by having your hands in the tank for long periods, as well as some additives.)

Third, Excessive bubble pass into the tank. Make certain that the return water slot is aimed at a 45 degree angle to the surface of the tank. You can also adjust the air inlet needle valve if needed. Some bubble pass is normal with any hang on skimmer, however the Typhoon should be minimal. Some tank additives that have slime coat protectants, such as Novaqua, or Stress Coat, will cause a skimmer to over react and blow tremendous amounts of air into the tank.

Fourth, water level too high or too low. Adjust the outlet water slot open or closed, this will control the water level in your skimmer.

# Limited Lifetime Warranty

**Your D & D Marine Enterprises product has been built to the highest quality and standards. It should be treated with the same care as any fine instrument.**

## Limited lifetime warranty

If your D & D Marine Enterprises Inc. products has been manufactured using UniMax technology. ( This will be indicated on box labels as well as instrction manuals.). D & D Marine Enterprises will warrant any UniMax welds to be free from defect or leaks for the lifetime of the product and to the original purchaser. D & D Marine will repair or replace ( at its option ) your product free of charge within the first year. During the remainder of this warranty a fee will be charged for the cost of return shipping only.

## 5 YEAR PRODUCT WARRANTY

Your D & D Marine Enterprises product is warranted to be free of defects in workmanship and materials for 5 years from date of purchase. This warranty applies only to products purchased from an authorized dealer. In case of product defect in either workmanship or materials, D & D Marine will repair or replace ( at its option ) your product free of charge within the first year. The following four years A fee will be charged for the cost of return shipping only.

## WHAT YOUR WARRANTY DOES NOT COVER

Your D & D Marine product warranty does not cover damage or failure resulting from: normal wear, accidents, misuse or abuse, lack of reasonable care, lose of parts, abnormal usage, faulty installation, improper maintenance, or the alteration or affixing of any unauthorized attachments. Your warranty does not extend to costs of removal or reinstallation of the product. Nor does it cover any consequential damage.

## HOW TO OBTAIN WARRANTY SERVICE

**IF WARRANTY SERVICE IS REQUIRED, SEND YOUR PRODUCT WITH THE ATTACHED REGISTRATION CARD. YOU MUST FILL IN THE SERIAL NUMBER ON THE CARD FOR WARRANTY SERVICE TO BE PROVIDED. PROOF OF PURCHASE MUST BE ATTACHED WITH A CLEAR DATE OF PURCHASE. IF THE UNIT IS BEYOND THIS FIRST YEAR OF WARRANTY SERVICE A CHECK FOR \$10.00 MUST BE INCLUDED TO COVER RETURN SHIPPING.**

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## WARRANTY SERVICE CARD (Return with product for service)

Name; \_\_\_\_\_ Phone number (day time) \_\_\_\_\_

Street; \_\_\_\_\_ City; \_\_\_\_\_ State; \_\_\_\_\_

Zip Code; \_\_\_\_\_ Store where purchased & Address \_\_\_\_\_

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