

# JEBO<sup>®</sup>

## 180 HANG ON SKIMMER

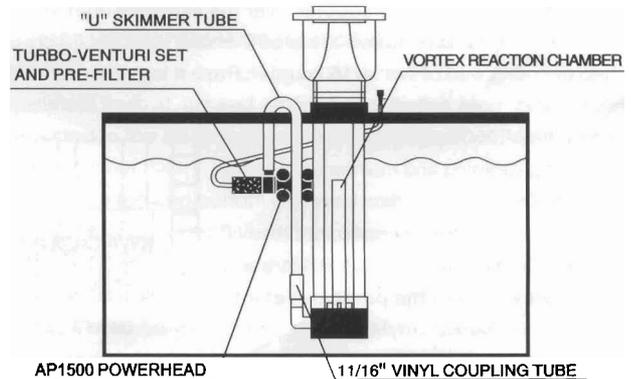


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When the skimmer works, oxygen enters the pump chamber and is stirred, pressed by the impellers. Abundant mini bubbles produced here mix with water enter vortex chamber and rotate at high speed. The mini bubbles fully mix with water here and then release. Through the tension effect of the mini bubbles, protein, heavy metal elements, fibers and other organic element will be powerfully absorbed. As a result, water will be purified and oxygen will be added.



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**Important Note:** Before unit is installed, it should be inspected for leaks. This can be done by covering the hole in the inlet tube with thumb or finger and then filling the unit with water.

**FOR A HANG-ON TANK INSTALLATION:**

4 inches of clearance are needed between the edge of the tank and the wall.

**FOR HANG-ON INSTALLATION FOLLOW THESE STEPS:**

1. Unpack and inspect all parts to insure that everything listed is present.
2. All parts of the skimmer body and pump that touch water should be rinsed in fresh water before final installation. **TAKE TIME TO DO THIS STEP NOW.**
3. Place the 11/16 vinyl tube coupler over the skimmer inlet at the base of the skimmer unit. Insert the elbow end of the "U" skimmer tube into the other end of the 11/16 coupler. Push it together until the two rigid pieces meet. (see figure 1.)

4. Unpack the AP1500 pump and turbo-venturi set. (For pump cleaning and maintenance, refer to the AP1500 pump instruction sheet.)
5. Insert the 1/2 vinyl tube coupler into the "U" end of the "U" skimmer tube until it is snug (about half way). Insert the pump outlet into the other end of the 1/2 vinyl tube. Press it in until it is very snug. (Refer to cover illustration.)

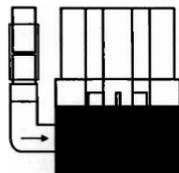


Figure 1

6. To assemble turbo-venturi set, poke hole through end of foam pre-

filter. Thread air tube through hole. attach pump end of air tube to turbo-venturi and air valve set to other end. Slide turbo-venturi into pump inlet. (See figure2.) slide foam pre-filter over turbo-venturi.

**Important Maintenance tip:** Please clean the air tube connection to the Venturi regularly. Clean it monthly for best performance and to prevent overflowing.

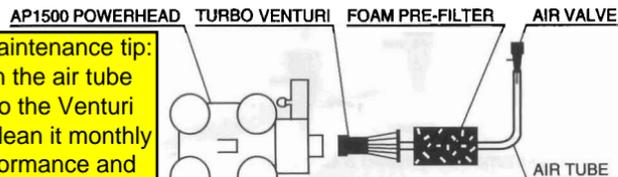


Figure 2

7. Place entire assembly into the desired location. A triple suction cup mount can be used to attach the pump to the inside of the aquarium glass.

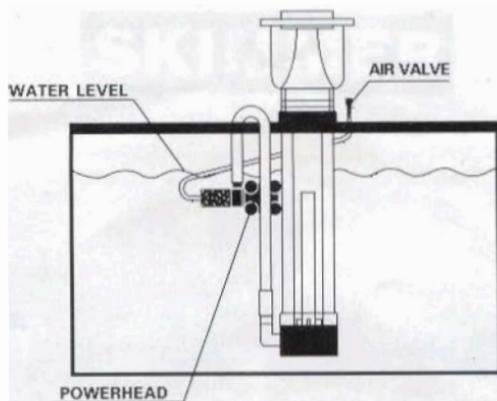
**ADJUSTMENT / MAINTENANCE INSTRUCTIONS**

After the skimmer is first plugged in, remove the top portion of the adjustment bulb at the end of the turbo-venturi seaving the bottom connected to the air line. This will provide maximum air intake and minimum water flow.

Connect the top and bottom of the adjustment bulb and twist them together until the water level in the skimmer is even with the bottom of the collection cup tube. The skimmer should give optimal performance at this level.

**NOTE:** The turbo-venturi air injection system works optimally when submersed about 2 to 3 inches beneath the surface of the aquarium water. Try to keep your aquarium filled to this level.

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**IMPORTANT!!!****IMPORTANT NOTE FOR SET UP JEBO 180 PROTEIN SKIMMER**

1. Run the powerhead inside water at all time.
2. Place powerhead at Approximate 2-3 inches under the water level for best result of operation.
3. Adjust the air valve to set the ideal amount of bubbles go into the chamber.

**REMEMBER:** When making air adjustments, adding air reduces water flow.

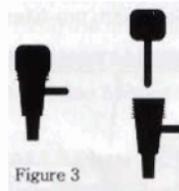


Figure 3

The hang on skimmer may need a two or three day break-in period before significant production begins. If the aquarium is new, it may take even longer for proteins and organics to build up in the system and be collected by the hang on skimmer.

**The most important thing to remember is to empty and clean the collection cup regularly.** empty the cup when you notice that there is an about an inch of greenish-brown fluid collected. Clean the cup and the riser tube after emptying. (see figure4) Note: The hang on skimmer has an o-ring where the collection cup seats into the outer cylinder. ( This part is already installed when the hang on skimmer is assembled.) The o-ring may need to be replaced if it is lost or fails to provide an adequate seal.

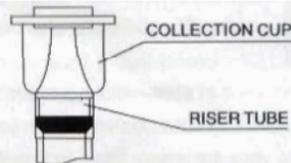


Figure 4

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