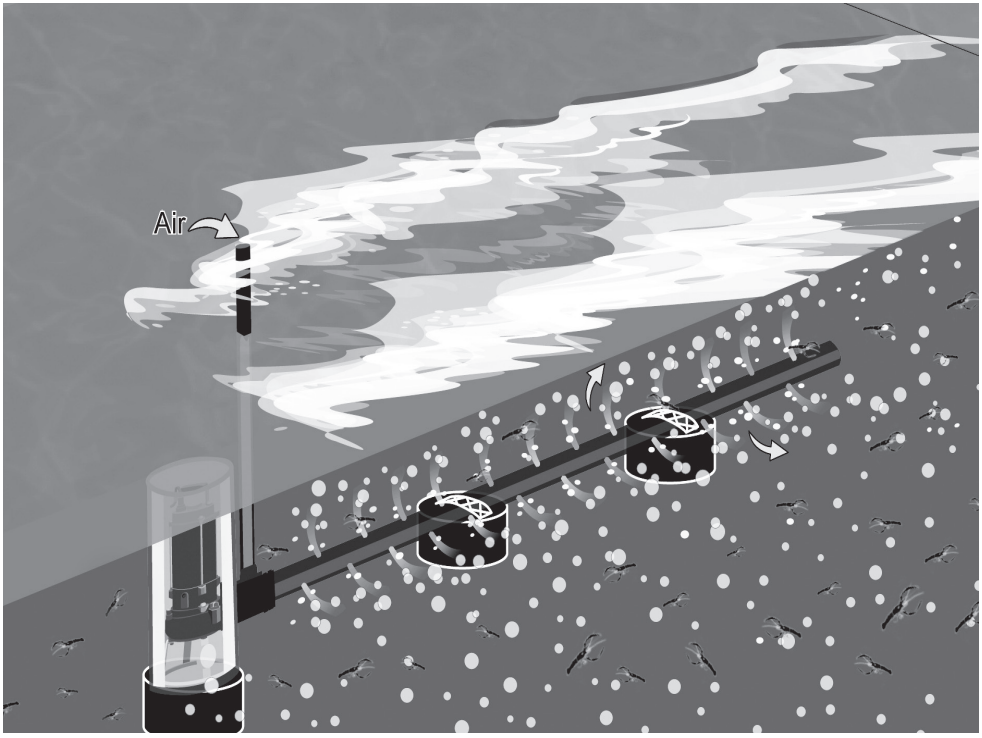
HCP PUMP

Instruction Manual

Submersible Ejector



Introduction

Thanks for you purchasing HCP Submersible Pump.

- Be sure to read thoroughly and understand completely this Instruction Manual before installation and operation of this pump.
- Improperly handling this pump or operating this pump in unsuitable environment may reduce product performance and result in accident, personal injury or casualty.
- Make sure to deliver over this Instruction Manual to the technician of operation,maintenance, and inspection who serve this product. Make sure to store this Instruction Manual in safe place where is accessible easily for further reference.
- Contact with supplier where this this pump was purchased or the local authorized dealer. Improperly handling this pump may reduce product performance and result in accident, personal injury and casualty.
- Please do observe all instructions and information which are provided from Warnings, Cautions and Notes in this Instruction Manual.

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1 Product Introduction

- The J Series Submersible Ejector is equipped with special designed mix chamber which can bring in large0volume of air, produce strong water current, fine air bubble and eventually increase the oxygen dissolved in water. Conventional paddlewheel aerator is often used to produce water current and increasing dissolved oxygen level on water surface. By contrast, the submersible ejector, which is located on the bottom of pond, is used to provide extra water current on the bottom of pond. By working together, the pond water is circulated completely and efficiently. And It improves watersurface oxygen and enhance aerobic capacity under the bottom. This will reduce ammonia and nitrite level, and improving water quality.
- The J Series Submersible Ejector is able to generate strong water current (with dissolved oxygen) and cover large area on pond.
- A pond come with high dissolved oxygen and water circulation is good for fish and shrimp farming. An 8~10 meter aeration pipe and installation depth of 1.2 meter is recommended.

2 Components

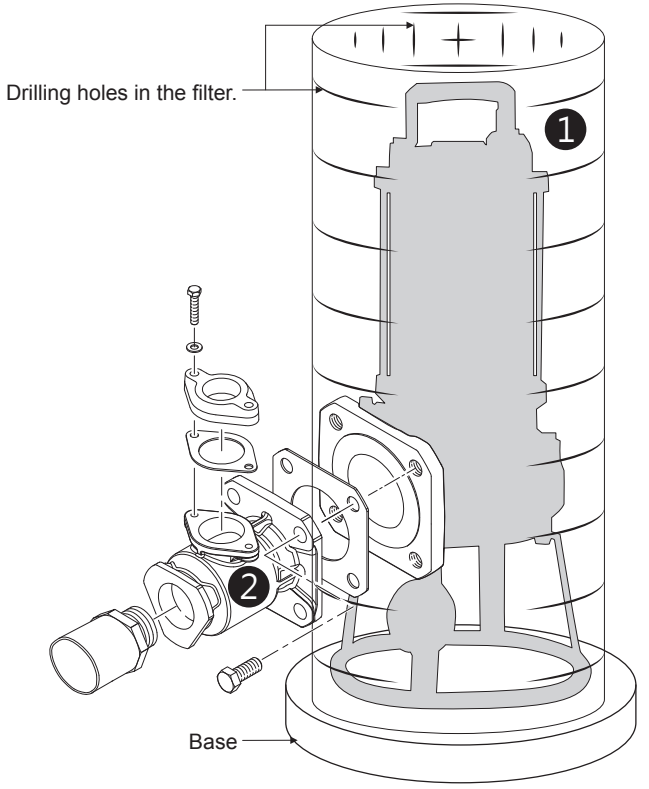
Submersible Ejector

- Choose pump model FN-A1 MULTI-FUNCTIONAL AQUATIC PUMPS.
- Choose J Type Mix Chamber Assembly (J-1 $^{1}/_{4}$ B-2")
- 2 inch PVC Expansion Pipe. 10 meter pipe is recommended for 3 HP model. 8 meter pipe is recommended for 2 HP model.
- 1 $^{1}/_{4}$ inch Suction Pipe
- 2 inch Ball Valve

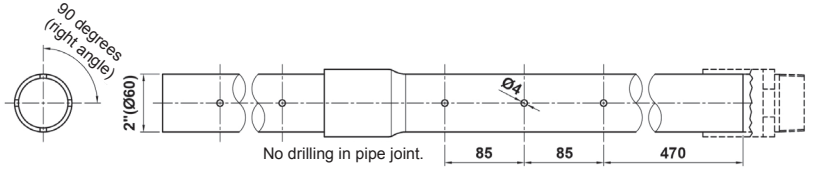
3 Assembly

1. Drilling holes in the filter. Installing pump in filter.

2. Installing Mix Chamber Assembly and PVC joint.



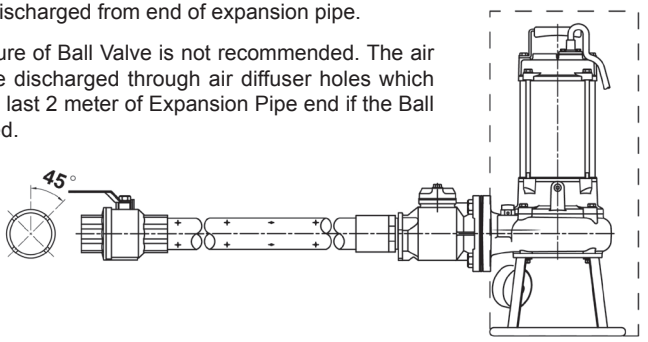
3. Drilling air diffuser hole: 1) select 4 mm(5/32") bit ; 2) firstly drilling 4 holes (in both opposite sides and in right angle) at 470 mm from PVC joint to pump; 3) follow by drilling 4 holes by every 85 mm distance until the end of expansion pipe. 4) No drilling in pipe joint.

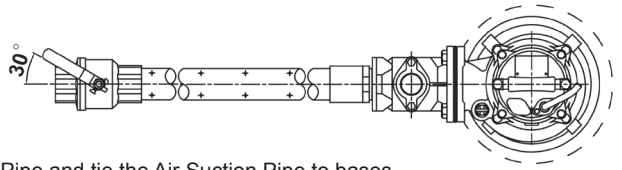


4 When inserting PVC Expansion Pipe into Mix Chamber, the air diffuser hole has to be in 45 degrees as shown in drawing as below.

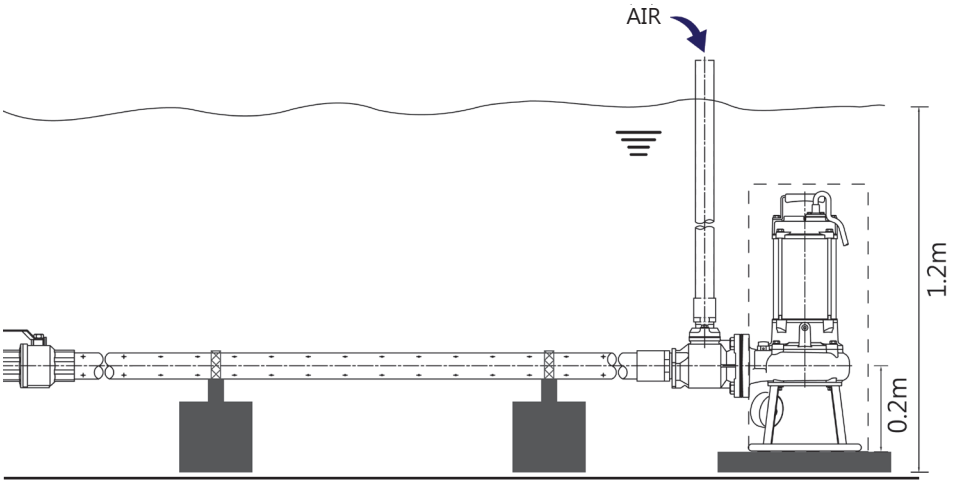
Installing a 2 inch ball valve in the end of Expansion Pipe. Setting Ball Valve in 30 degrees (or adjust degree according to actual pump performance). Ball valve is used to reduce water (and air bubble) which is discharged from end of expansion pipe.

Remark: Full closure of Ball Valve is not recommended. The air bubble can not be discharged through air diffuser holes which are located on the last 2 meter of Expansion Pipe end if the Ball Valve is fully closed.





5 Installing Air Suction Pipe and tie the Air Suction Pipe to bases.



※ We reserve the right to alter specifications of product at any time without giving prior notice.

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