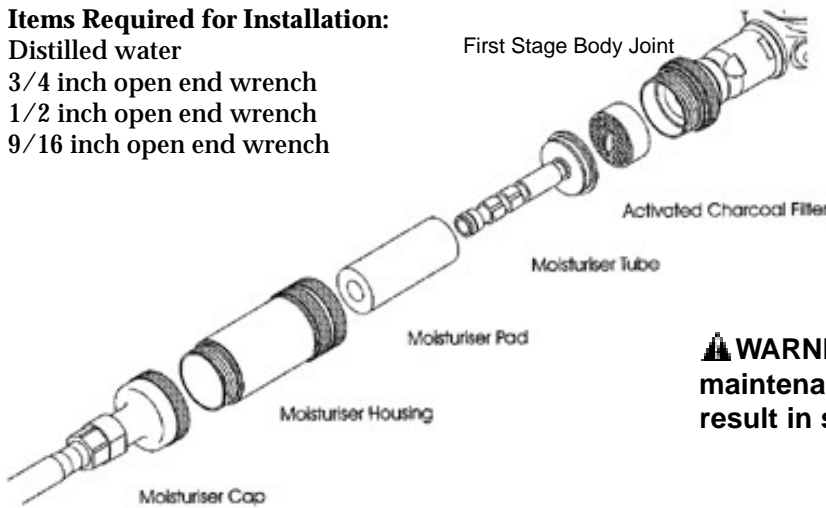

Apollo Bio-Filter: Clean Air System

Instructions for Installation, Maintenance, and Use

Items Required for Installation:

Distilled water
3/4 inch open end wrench
1/2 inch open end wrench
9/16 inch open end wrench



The Apollo Bio-Filter was designed to both moisturize and cleanse high pressure compressed air for use by scuba divers. The system is easy to install and maintain.

⚠️ WARNING: Improper installation, use, or maintenance of the Apollo Bio-Filter could result in serious injury or death.

Definition of Signal Words Used in these Instructions

⚠️ DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠️ WARNING: Indicates a potentially hazardous situation which, if not avoided could result in death or serious injury.

⚠️ CAUTION: indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

⚠️ WARNING:The Bio-Filter is only for recreational air diving use to depths not in excess of 130 feet of seawater/ 40 meters. Do not use the Bio-Filter with enriched air nitrox or for any other mixed gas diving.

⚠️ WARNING: Only use distilled water in the Moisturizer Pad.

Installation Instructions



Step 1: Disconnect the regulator hose from the first stage of your regulator.



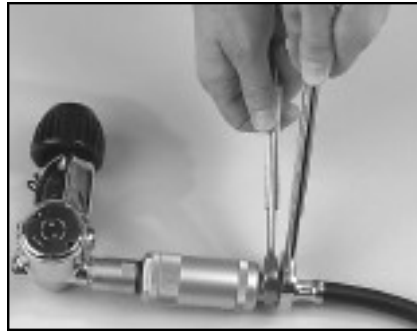
Step 2: Carefully, thread the Bio-Filter First Stage Body Joint into the low pressure port where the regulator hose was connected to the first stage.



Step 3: Tighten the First Stage Body Joint to 5.16 foot pounds/ 7 newton meters. If you do not have access to a torque wrench, tighten only until snug. Do not overtighten.



Step 4: Carefully thread the hose into the Moisturizer Cap on the Bio-Filter.



Step 5: Use two wrenches to tighten the regulator hose. One wrench is used to hold the Moisturizer Cap steady while the second wrench is used to tighten the hose. The hose should be tightened to 5.16 foot pound/ 7 newton meters, or until snug. Do not overtighten.



Step 6: Unscrew the Moisturizer Cap from the Bio-Filter.



Step 7: Unscrew the Moisturizer Housing from the First Stage Body Joint.



Step 8: Soak the Moisturizer Pad in distilled water. Squeeze out the excess water once it is completely soaked through.



Step 9: Install the Moisturizer Pad on the Moisturizer Tube inside the Moisturizer Housing.



Step 10: When the Moisturizer Pad is properly installed it should look like this. Thread the Moisturizer Housing back onto the Moisturizer Cap and tighten until snug. Do not use any tools to tighten this connection.



Step 11: Pick up the Activated Charcoal Filter by the tab on its top. Install the Activated Charcoal Filter in the First Stage Body Joint.



Step 12: Thread the Moisturizer Housing onto the First Stage Body Joint and tighten until snug. Do not use any tools to tighten this connection.



Step 13: Attach the regulator to a scuba cylinder valve and slowly turn the air on.



Step 14: Press the purge button on the regulator several times briefly to remove any excess moisture from the Bio-Filter. Test breathe the regulator. The air supplied should not be overly "wet." You may need to experiment to get the moisture level right for you.



Step 15: Listen for any leakage of air from the Bio-Filter. If you detect any leakage, turn off the tank, purge the regulator, and check the assembly to locate the source of the leak. You can also check for leaks by spraying the Bio-Filter with a mild solution of soapy water.



Step 16: Between dives, add water to the Moisturizer Pad using the provided squirt bottle. Do not oversaturate the pad.

⚠ WARNING: Never attempt to disassemble the Bio-Filter while the regulator is pressurized. If the filter is disassembled while it contains pressure, the parts could become airborne and cause severe personal injury.

⚠ WARNING: Do not use the Bio-Filter if air is leaking from the filter. Any leakage could cause your air supply to be depleted more rapidly.

⚠ DANGER: Do not use the Bio-Filter at temperatures at or below 40 degrees F. Temperatures in this range could cause your regulator to freeze. This could cause the regulator to free-flow leading to a rapid loss of air.

Use of the Activated Charcoal Filter Alone



Step 1: Unscrew the Moisturizer Housing from the Moisturizer Cap and First Stage Body Joint.



Step 2: Install the activated charcoal filter.



Step 3: Screw together the Moisturizer Cap and the First Stage Body Joint. Be sure to pressurize and check for leaks before diving.

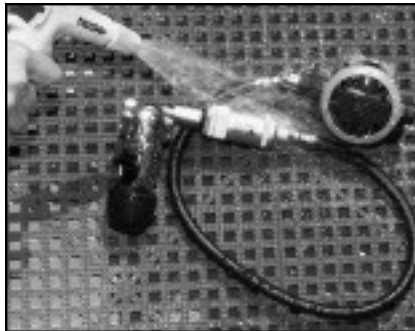
In cold weather, where it is unsafe to use the Moisturizer Pad, it is possible to use the Activated Charcoal Filter by itself to help keep contaminants out of the breathing system.

Precautions and Maintenance

To get the most life out of your Bio-Filter, and to help ensure your safety, be sure to follow all proper maintenance procedures. Your Bio-Filter should be inspected and serviced by your dealer on an annual basis.



⚠ WARNING: Never lift your scuba tank by the Bio-Filter! This could damage the filter.



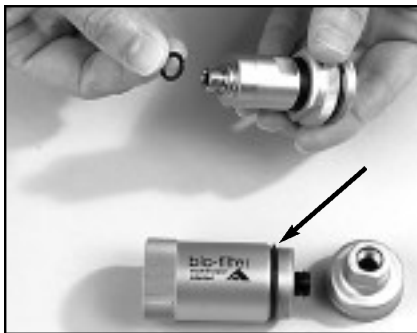
Be sure to rinse the exterior of your Bio-Filter thoroughly when you rinse your regulator after diving.



At the end of your diving day, disassemble the Bio-Filter and remove the Moisturizer Pad. Allow the interior of your Bio-Filter to dry completely before assembling your regulator for storage. Purge the regulator to remove any moisture from the hose before storage.

Allow the Pad to dry completely before storage. Do not dry in direct sunlight.

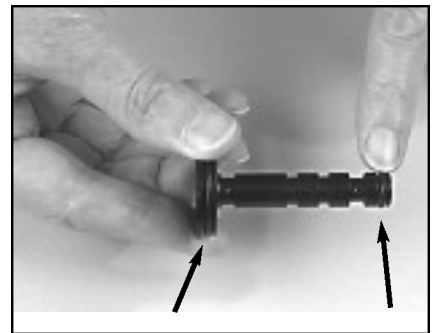
User Serviceable O-Rings



There are 5 user serviceable o-rings in the Bio-Filter that should be cleaned and lubricated on a periodic basis. Any food grade silicone lubricant is considered acceptable. All user serviceable o-rings should be replaced once a year.



The o-rings that receive the most frequent handling are the o-rings on the Moisturizer Housing and the large O-ring on the First Stage Body Joint. These should be lubricated regularly.



To remove the o-rings from the Moisturizer Tube, use the end of a credit card or pinch them between your fingers. Do not use a screwdriver or other sharp object.

⚠ WARNING: Never use a sharp object like a screwdriver or knife to remove o-rings from your Bio-Filter. Use of these types of devices may damage the o-ring or the sealing surface. This will cause the Bio-Filter to leak air.



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