

Operating Instructions for Low Flow with Power Booster III Controller®

Use with Proactive Environmental Products® International LLC

12 Volt Plastic Engineered MEGA-MONSOON® Pump

Congratulations on purchasing Proactive Environmental Products® International LLC LOW FLOW WITH POWER BOOSTER III CONTROLLER (Item # PA-1085)! Simply connecting the Low Flow with Power Booster III Controller® to the 12 volt plastic engineered Mega-Monsoon® Pump will allow a consistent flow of water that will be discharged from the pump. Proactive Environmental Products® International LLC proprietary Constant Voltage Boosting Technology (CVBT) is built into the Low Flow with Power Booster III Controller®. So this means, the Low Flow with Power Booster III Controller will “boost” the battery voltage to the designated preset voltage limiter incorporated in the Low Flow with Power Booster III Controller. Furthermore, the Low Flow with Power Booster III Controller will automatically configure the correct amperage requirement that is necessary to energize the 12 volt plastic engineered Mega-Monsoon, thus, never allowing over volting or over amping the 12 volt plastic engineered Mega-Monsoon pump.

How to Set Up the Low Flow with Power Booster III Controller (Item # PA-10850):

1. **Option #1.** Use a 85 amp portable AGM battery or larger amp AGM hour capacity battery.
Option #2. You can use this controller hooked up to your vehicle battery while your vehicle is running.
2. Set the dial to the lowest possible setting. Now, simply connect the positive wire lead from the LOW FLOW WITH POWER BOOSTER III CONTROLLER to the positive battery terminal and the negative wire lead from the LOW FLOW WITH POWER BOOSTER III CONTROLLER to the negative battery terminal.
3. Next connect the pump’s connector to the LOW FLOW WITH POWER BOOSTER III CONTROLLER connector and now you are ready to use the controller.
4. Now, slowly turn the dial clockwise on controller to increase the flow to the desired flow rate. Remember, as you turn the dial clockwise the pump will discharge more fluid. Turning the dial counter clockwise decreases the flow of liquid. It is that simple!!

How to sample as low as 40 ml a minute or less:

If you desire to sample as low as 40 ml a minute or less, then you can incorporate the low flow control valve (item # PA-14080), which is sold as a separate item. Simply insert this valve into the discharge portion of the 3/8” id polyethylene tubing and turn controller to desired flow and slowly adjust the valve to achieve 40 ml or less per minute of discharged liquid. The low flow control valve is not mandatory to use, it will allow the user to achieve a low flow that is more manageable to fill and top off a 40 ml VOA vial.

PLEASE NOTE:

When the flow control dial is set to the lowest possible setting the controller will produce zero volts. When the dial is set to the highest possible setting the controller will produce 24 volts. The LOW FLOW WITH POWER BOOSTER III CONTROLLER is for use exclusively with the 12 volt plastic engineered MEGA-MONSOON High Performance Pump and cannot be used with any other pump.

WARNING!!

THIS UNIT GETS EXTREMELY HOT! PLEASE HOLD HANDLE WHEN USING! This product is to be used ONLY for groundwater monitoring/sampling. Do not use around flammable gases or flammable liquids!!

Helpful Tips

1. This system has a low voltage disconnect at 11 volts. In short, this system will shut off and then turn on every few seconds (pulsate) if the output voltage drops to 10.75 volts or lower. At times the unit will lose power, therefore making the pump noticeably sluggish and ultimately the discharge output will be a considerably lower flow. What this means is the battery is reaching a “critical low level” so stop using the unit immediately and please recharge your battery within 24 hours.
2. If you decide not to leave your vehicle running while using this controller with the pump in use, then please start your vehicle every 15 minutes, and leave running for 5 minutes to charge up your vehicle battery.

If your pump fails to work, please follow the trouble shooting guide below.

1. Batter has very low voltage. Check battery level. Must be 11 volts minimum.
2. Blown fuse in controller-needs to be replaced.
3. Make sure your pump is operational.
4. Make sure all connectors are plugged into correct outlets and make sure controller dial is turned all the way up (turned clockwise all the way until it stops).
5. If the pump should ever “pulsate”, then your battery is critically low (below 11 volts). In short the controller is telling you to charge your battery.

Limited Warranty Information

Products manufactured by Proactive Environmental Products® International LLC are warranted to the original user only to be free of defects in material and workmanship for a period of 180 days from the date of purchase, provided, however, that if a motor module is built into, affixed to, or provided with any covered product, then the warranty period for such motor module shall be limited to Sixty (60) days from the date of purchase. Proactive Environmental Products® International LLC liability under this warranty shall be limited to repairing or replacing at Proactive Environmental Products® International LLC option, without charge, F.O.B. Proactive Environmental Products® International LLC factory or authorized service station, any defective product manufactured by Proactive Environmental Products® International LLC. Proactive Environmental Products® International LLC will not be liable for any costs of removal, installation, shipping, transportation, or any other charges which may arise in connection with a warranty claim. Products which are sold but not manufactured by Proactive Environmental Products® International LLC are subject to the warranty provided by the manufacturer of said products and not by Proactive Environmental Products® International LLC warranty. Proactive Environmental Products® International LLC shall not be liable under this limited warranty or otherwise for wear and tear items or issues (including, but not limited to, seals, bearings, wiring, warping, and bending), damage to products caused by abnormal operating conditions, accident, abuse, negligence, misuse, unauthorized alteration or repair, or if the product was not installed in accordance with Proactive Environmental Products® International LLC printed installation and operating instructions.

Obtaining Service: To obtain service under this warranty, the defective product must be returned to the distributor or dealer from which it was purchased or directly to Proactive Environmental Products® International LLC, subject to an evaluation fee established by Proactive Environmental Products® International LLC for each defective product, with the following information: proof of purchase with product serial numbers printed on invoice, installation date, failure date, and supporting installation data (example: How was it installed...was it installed using a solar system.. was it installed using a 12 volt deep cycle marine battery... was it installed using a step-down transformer of some sort?). Unless otherwise provided, the distributor or dealer will contact Proactive Environmental Products® International LLC for instructions. Any defective product to be returned for warranty services shall be delivered freight prepaid to Proactive Environmental Products® International LLC factory or an authorized service station; documentation supporting the warranty claim and/or a Return Material Authorization must be included if so instructed. Proactive Environmental Products® International LLC requires that all customers notify the distributor or dealer or Proactive Environmental Products® International LLC, as applicable, prior to returning a product under the Proactive Environmental Products® International LLC warranty program, and any such product will only be accepted if it has been thoroughly cleaned and decontaminated and is properly packaged. In the event a product is returned to the distributor or dealer from which it was purchased or directly to Proactive Environmental Products® International LLC and the buyer/user does not take return receipt of the product within six (6) months after such return for warranty service because of buyer’s/user’s failure to communicate, failure to fulfill any warranty obligation, or otherwise, not including such a failure by Proactive Environmental Products® International LLC, then such product shall become the sole and exclusive property of Proactive Environmental Products® International LLC and it may sell, dispose of, or transfer such product at its discretion.

If a product should fail within the warranty specified, please contact your authorized Proactive Environmental Products® International LLC Distributor or call Proactive Environmental Products® International LLC direct at 1.941.322.8504.

Should any failure to conform to this warranty appear within the term of initial sale, the manufacturer shall upon notification thereof and substantiation that the product with replacement parts or accessories has been maintained, correct such defects by suitable repair or replacement at its own expense, purchaser being responsible for shipping and handling charges only. The Proactive Environmental Products® International LLC warranty does not include shipping or an obligation to provide another unit while the original product is being repaired or replaced. The Proactive Environmental Products® International LLC warranty does not apply to any product used as rental equipment or contaminated by materials harmful to such products. The Proactive Environmental Products® International LLC warranty does not apply to parts failure due to neglect in cleaning or unauthorized servicing of the product, nor does it cover failure of a part caused by misuse or inappropriate use of the product.

Legal Disclaimer: Except for its obligation to replace or repair defective products outlined above, Proactive Environmental Products® International LLC shall not be liable to buyer, or to anyone claiming under buyer, for any obligations or liabilities, including, but not limited to, obligations or liabilities arising out of breach of contract or warranty, negligence or other tort or any theory of strict liability, with respect to the products or Proactive Environmental Products® International LLC acts or omissions or otherwise, and buyer shall hold harmless and indemnify Proactive Environmental Products® International LLC for any such claim. The above limited warranty covers only replacement or repair of defective products at Proactive Environmental Products® International LLC factory or authorized service station and does not include the cost of field services (including, but not limited to, travel and living expenses), labor, inspection, removal or installation of new or replacement products, or normal maintenance. To the fullest extent permitted by law, Proactive Environmental Products® International LLC shall not, in any event, be liable for incidental, compensatory, exemplary, punitive, consequential, indirect, special or other damages, including, but not limited to, loss of use, loss of income, loss of profits, loss of time, loss of sales, injury to persons or property, liability buyer incurs with respect to any other person, or any other type or form of consequential damage or economic loss.

Some jurisdictions do not allow for the exclusion or limitation of incidental or consequential damages and some jurisdictions do not allow limitations on how long implied warranties may last. It is the buyer’s responsibility to determine if a certain jurisdiction’s rules may apply. Therefore, the above limitations or exclusions may not apply to you and it is your responsibility to determine whether the aforementioned limitations to the limited warranty apply and to the extent such limitations may apply in your jurisdiction. This warranty gives you specific legal rights and you may also have other rights which vary from jurisdiction to jurisdiction.

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