

# afras Booster Pump Installation Instructions



The **afras** booster pump is a high pressure water pump for pool cleaner. The booster pump is flooded suction (not self-priming) and should only be used when the pool circulation pump is on. Do not run the pump when the circulation pump is not running.

## Important Information:

**To reduce risk of electrical shock: Read and follow all instructions**

## General Safety:

Electrical specification: 115 VAC, single phase, 60 hz.  
Water Temperature Range: Max. 104° F.

Operation Position: As shown above.

Pump should always be electrically grounded to a suitable electrical ground. Use solid copper bonding conductor, not smaller than No. 8 AWG (8.4 mm<sup>2</sup>), 6 AWG (13.3 mm<sup>2</sup>) in Canada, to connect the motor to all metal parts of the pool, spa or hot tub structure, all electrical equipment, and all metal conduit and metal piping within 5 ft (1.5 m) of the inside walls of the swimming pool, spa or hot tub.

Install a circuit Breaker.

Drain all water from the pump before servicing.

All wiring and electrical work and hook up should be performed by a licensed electrician and must comply with the latest local codes and latest National Electrical Code (NEC).

## Warning:

This pump is designed to pump only water and is not intended for pumping any other liquids. The booster pump motor is equipped with an automatic reset thermal protector and may start unexpectedly. Make sure the pump is secured in position to prevent movement. Failure to do so could cause piping to break, pump to fail, etc. This could result in property damage and/or personal injury.

Always disconnect the power source before attempting to install, service, relocate or maintain the pump. Never touch the pump, pump motor, water, or discharge piping when the pump is connected to an electrical power. Never handle a pump or pump motor with wet hands, or when standing on wet or damp surfaces or in water. Fatal electrical shock could occur.

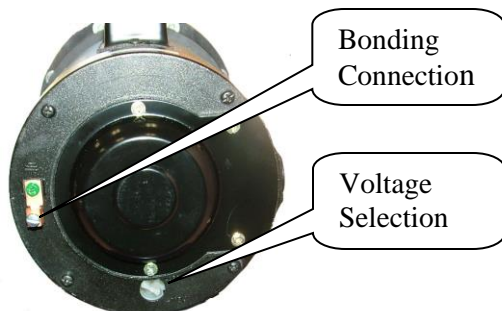
Do not permit children to handle this product.

Use this pump only with permanently installed pools, and hot tubs and spas.

## Installation

### Electrical

The booster pump motor is factory wired for 120 volts, but can be wired for either 120 or 240 volts. To rewire, follow the instructions on the name plate located on the back of the motor.



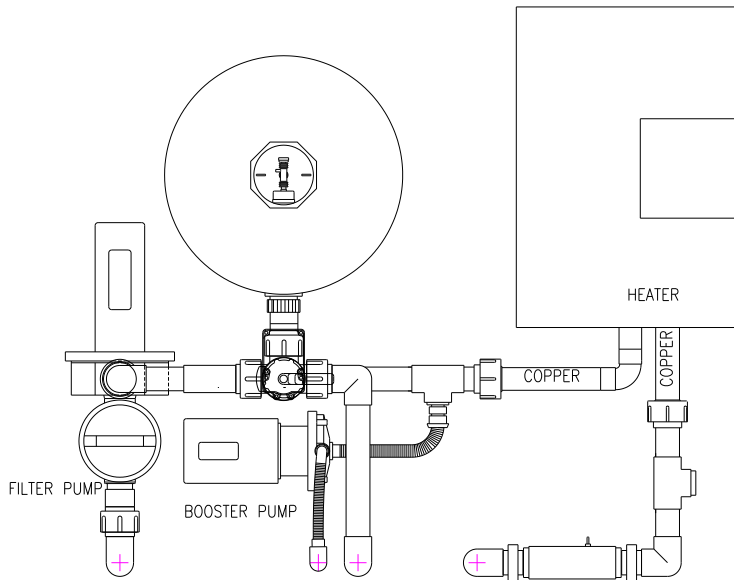
A separate time clock (in addition to the filtration system time clock) is recommended to control the On/Off functions of the booster pump. A manual switch can also be used.

If a time clock is used, set it to turn the pump on 30 minutes to an hour after the pool circulation pump is turned on, and turn the pump off at least 30 minutes to an hour before the circulation pump shuts off. The time clock settings need to be checked periodically to make sure they are properly synchronized.

## Plumbing

The **afras** Booster Pump should be installed in the discharge side of circulation pump.

Plumb the booster pump inlet higher, upstream, and have maximum distance from the electro-chlorinator.



To ensure proper water flow:

Use rigid PVC pipe with a minimum ID diameter of 3/4", However, 1-1/2" is recommended, for the dedicated return line. **afras** is not responsible for damages caused by the use of the wrong pipe. The booster pump inlet connection line should be at least 3/4" pipe.

Checking Water Flow:

After the system is plumbed, verify water flow to the booster pump by turning on the circulation pump and disconnecting the inlet supply line at the pump. Water should flow from the line.

If there is no flow:

1- Verify that the installation is correct. 2- Install a ball valve on the return line after the booster pump inlet. 3- Use smaller eyeball fittings in the pool return.

## Winterizing

If installed in an area prone to freezing temperatures, the pump should be drained and plumbing must be disconnected from the inlet and outlet ports of the booster pump.

### **afras** Booster Pump Limited Warranty:

This limited warranty is extended to the original consumer purchaser of this **afras** Booster Pump manufactured by **afras** Industries, Inc., 766 Hampshire Rd. Westlake Village, CA. Unit A. **afras** warrants the Booster Pump including all parts and components to be free of defects in material and workmanship. If you have a question regarding your **afras** Booster Pump, please feel free to call or write us. Be sure to include the serial number of your unit. The warranty commences on the date of installation of the pump and shall remain in effect for a period of one year. This limited warranty does not apply if the failure is caused or contributed by any of the following: improper handling, improper storage, abuse, unsuitable application of the unit, lack of reasonable and necessary maintenance, winter freezing, or repairs made or attempted by other than **afras**. **afras** will repair or replace, at its option, a unit or part proved to be defective within the warranty period and under the conditions of the warranty. Consumer must deliver or ship the unit or the warranty parts, freight prepaid to **afras** (after proper authorization). Authorization to return a unit must be obtained from the **afras** Customer Service. For your convenience, If further directions or instructions should be required, contact the Customer Service at 1-805-230-0011. Be sure to insure your shipments against loss or damage in transit. **afras** is not responsible for the cost of removal of the unit, damages due to removal, any other expenses incurred in shipping the unit or parts to or from the factory, the installation of the repaired or replacement unit. The consumer must bear these expenses. This warranty does not cover repair or replacement of a unit except at our factory. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL SUCH OTHER WARRANTIES ARE DISCLAIMED EXCEPT TO THE EXTENT ANY IMPLIED WARRANTY MAY BE IMPOSED BY STATE CONSUMER LAW. ANY SUCH IMPLIED WARRANTY IMPOSED BY STATE CONSUMER LAW IS LIMITED IN DURATION TO ONE (1) YEAR FROM DATE OF PURCHASE. IN NO EVENT SHALL **afras** BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE OR KIND OR FOR DAMAGES TO PERSONS OR PROPERTY, INCLUDING ANY DAMAGE RESULTING FROM THE USE OF THE **afras** BOOSTER PUMP. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.