

HIGH SPEED WAVE II SERIES

Owners Manual

Important Safety Instructions

Please read all instructions completely before you install or operate your new pump. Save this manual for future reference.

General Specification

Housing-Corrosion resistant polypropylene.

Motors-Industrial Baltor motor with TEFC for quiet operation and true 56 frame motor.

For High Speed Wave II Series 230v, please see instruction manual on motor.

Warnings

This pump and motor unit should be installed by a qualified, licensed or certified electrician or serviceman in accordance with all applicable state and local codes and ordinances, and in accordance with the National Electrical Code. Improper installation may create a mechanical or electrical hazard which could cause damage to property and which could result in serious injury or death.

In order to avoid serious injury or death, always disconnect power to the motor, at the circuit breaker before servicing the pump.

Installation

Proper installation of your WAVE Pump will help it to provide you with years of trouble free service.

Position the pump as near to the source and as low as is practical. This will help avoid cavitations and maximize your pumps performance.

Protect the motor from excessive heat and moisture. It is best to provide shade from direct sun, and insure that it has proper ventilation. Excessive heat will shorten the motor life and void the warranty.

Protect the motor against dirt, water and all foreign matter. If the motor has been flooded, do not operate it until it has been checked by an authorized motor technician, and has been found to be safe to operate. **If the motor is damaged by dirt, moisture, flood or corrosion it voids the warranty.** Mount the motor to a stable base where it won't get submerged.

The pump ports are 2" NPT female on both the suction and discharge ports. The fittings used to connect to the housing should be plastic. (We have provided you with unions, for better connection and easy installation.) All plumbing lines should be self supported and properly aligned. This will prevent undue

stress to the housing. We recommend sealing the pipe joints with the unions included, not Teflon tape.

Electrical

Make sure the power is disconnected at the breaker before wiring the motor.

Make sure that the motor is wired so that it matches the supply voltage (eg. 115 or 230 volt). If they do not match it will damage your motor and void the warranty.

Use a wire of adequate gauge to prevent electrical line losses. The use of heavier gauge wire will allow the motor to run cooler and more efficiently, by eliminating excessive voltage drop.

Make sure all connections are clean and tight. Properly ground the motor. (There is normally a green ground terminal located on the inside of the motor connection box.) Make sure the ground wire is properly connected to an electrical service ground.

Connect the pump permanently to an adequately sized circuit. It is best to have a dedicated circuit that won't suffer voltage drop from other loads.

Caution

1. The polished and lapped faces of the seal could be damaged if not handled with care.
2. DO NOT run the pump dry

Limited Warranty

WAVE Pumps warrants its HIGH SPEED WAVE II SERIES of centrifugal pumps to be free of defects in material and/or workmanship at the time of purchase. Prior to packaging, all WAVE Pumps have been tested at 115v and 60 Hz for approximately 15 minutes to ensure good quality control. In the event this product malfunctions within one year from the date of purchase, the sole obligation of WAVE Pumps will be to repair or replace the product. To qualify for two years of warranty you must return the warranty paper, and a copy of the receipt within 10 days, with the date of purchase and the name of company that you purchased the pump from.

THIS LIMITED WARRANTY IS SUBJECT TO THE FOLLOWING CONDITIONS AND EXCLUSIONS:

1. WAVE Pumps must perform all warranty repairs. Purchaser must retain the purchase receipt and present it with the original copy of this certification as proof of ownership and entitlement to warranty repairs. Unauthorized repairs will not be compensated by WAVE Pumps, and are not the responsibility of WAVE Pumps. If such repairs damage the product, such damage is not redeemable under this warranty.
2. Problems or damage resulting from failure to comply with instructions in the owner's manual, improper plumbing and positioning, flooding, corrosion or salt build up, incompatibility with fluid chemistry and

running unit dry are not covered under this warranty. Malfunction for any other reason-including but not limited to misuse, negligence, accident, tampering with parts, incorrect wiring, or improper installation-will not be redeemed under this warranty.

3. If the label, on the pump, has been tampered with or damaged, then the warranty will be void. Likewise, if the pump has been opened, the warranty will be void as well.

4. Due to the different chemicals, temperature, conditions of the water, etc. that are used and that may affect the condition of the seal, WAVE Pumps seals are only limited to a 10 day guarantee.

5. Purchaser shall bear all shipping, packing, and insurance costs and all other costs, excluding labor and parts necessary to effectuate repairs under this warranty.

6. Periodic check-ups are not covered by this warranty.

7. This is the sole and exclusive manufacturer's warranty. Any and all implied warranties, including any warranties of merchantability and fitness for particular purpose, shall have no greater duration than the duration period of the express written warranty applicable to this product, and shall terminate automatically upon the expiration of such duration period. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. No action shall be brought for breach of any express warranty subsequent to the expiration of this express written warranty. Except as is otherwise provided by applicable law, no action on a warranty implied at law, no action on a warranty implied at law shall be commenced more than one year following the date of purchase.

8. Incidental and consequential damages (specifically including, but not limited to, damages for loss of profits or damages relating to down time of people or equipment) caused by malfunction, defect, or otherwise, and with respect to breach of any express or implied warranty, are not the responsibility of WAVE Pumps, and, to the extent permitted by law, are hereby excluded both for property damage and, to the extent not prohibited by applicable law, for personal injury damage. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

9. The provisions of this warranty are sever-able and if any provision shall be deemed invalid, the remaining provisions shall remain in full force and effect.

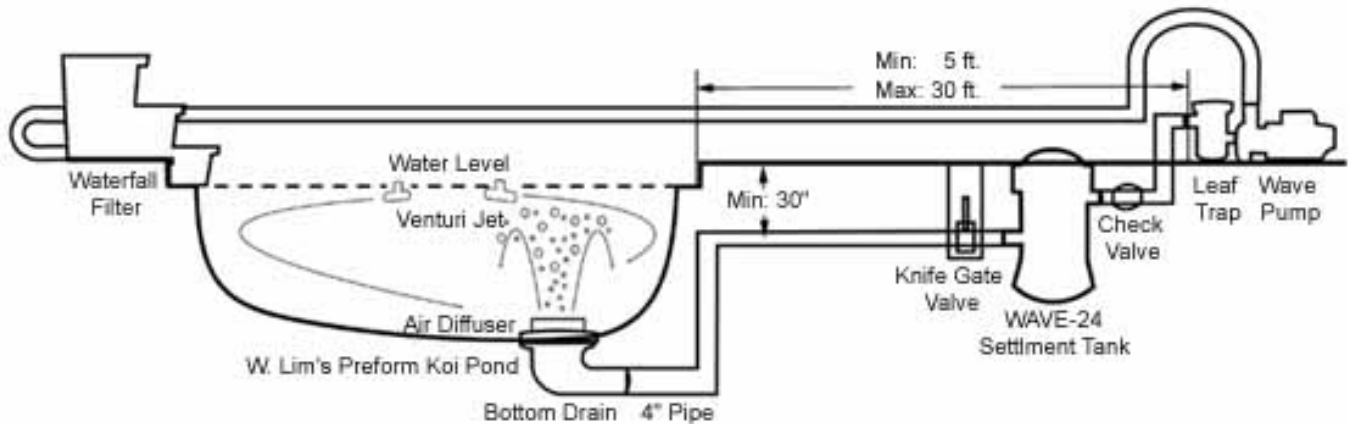
10. Rights under this warranty are not assigned without the express prior consent in writing by WAVE Pumps. Regardless of the terms of any consent in writing, the assignees shall have no greater rights than his assignor had against WAVE Pumps. Any purported assignment without the consent of WAVE Pumps shall be null and void.

11. This contract shall be governed by and in accordance with the laws of the state of California.

12. This limited warranty is incorporated by reference into the contract of purchase for the products supplied by WAVE Pumps to purchase under said contract.

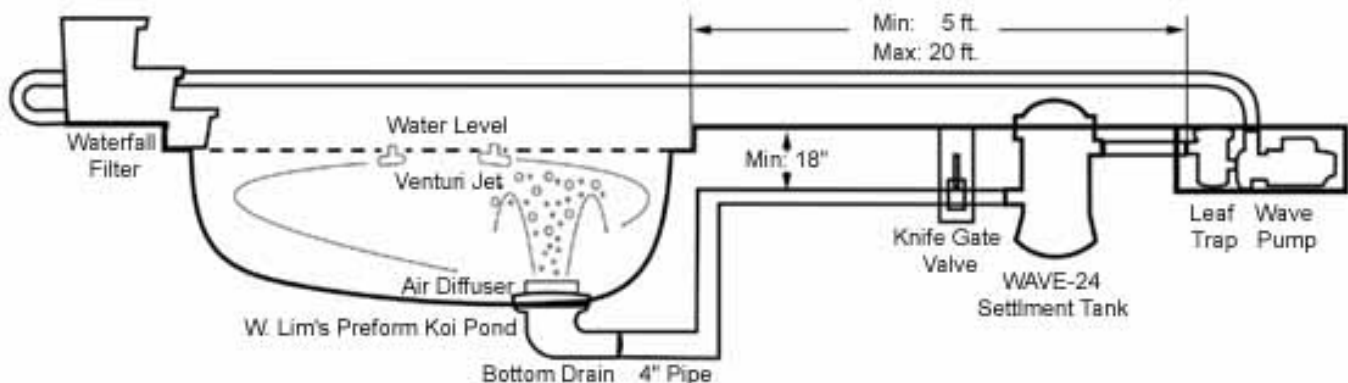
SIMPLE WAYS TO INSTALL THE WAVE PUMP

For the preference of having the WAVE Pump above water level (ground level), simply use a Check Valve between the Settlement Tank & Leaf Trap. The Check Valve has to be at least 12" below the water level. The Wave Pump pumps water through the Biological Filter to the waterfall filter then back to the pond.



(Exhibit A)

For the preference of having your WAVE Pump below the water level, you would need a pump housing to protect the WAVE Pump, and the Leaf Trap, **from being flooded by rainwater**. In this case, with the pump housing, a Check Valve is not necessary. **Make sure you have a drain in the pump housing in case of rain.** The WAVE Pump pumps water through the Biological Filter, to the waterfall filter then back to the pond.



(Exhibit B)