

NATERGARDENING TO THE MA>

POND & FOUNTAIN PUMP

INSTRUCTION MANUAL



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FOR MODELS: 22PV030 - PV250 22PV050 - PV350 22PV075 - PV550

VERSION SEPT 2016



WELCOME TO THE WORLD OF PONDMAX™. YOU MADE THE RIGHT CHOICE INVESTING IN THIS QUALITY PRODUCT. THANK YOU AND ENJOY.

BEFORE USING THIS PRODUCT, PLEASE READ THESE INSTRUCTIONS CAREFULLY AND BECOME FAMILIAR WITH THE UNIT. PLEASE KEEP THESE INSTRUCTIONS IN A SAFE PLACE FOR FUTURE REFERENCE.

TECHNICAL SPECIFICATIONS

DESCRIPTION	PV250	PV350	PV550
MAXIMUM WATER FLOW(GPH)	250	250 350	
MAXIMUM HEAD (Ft)	5.5	6.0	6.5
POWER CONSUMPTION* (W)	18	22	35
VOLTS (V)	115	115	115
FREQUENCY (Hz) AC	60	60	60
FRONT FILTER CAGE: FLOW ADJUSTER	Yes	Yes Yes	
INLET Ø NPT THREAD (inch)	1/2	1/2	1/2
OUTLET Ø NPT THREAD (inch)	1/2 (Barb)	1/2	1/2
CABLE LENGTH (Ft)	24	24 24	
RECOMMENDED FOUNTAIN KIT**	#30 Jet kit	#30 Jet Kit	#30 Jet Kit

* SUBJECT TO VARIATION ACCORDING TO LOAD

** SOLD SEPARATELY

DESIGN HIGHLIGHTS

The PondMax Pond & Fountain Pumps have been manufactured to provide you with the best quality pumps for your water feature. Visit our website to view our range of pond filtration, outdoor/underwater lighting, water treatments and general accessories.

- Can be used submersible or externally.
- Energy efficient.
- Built-In flow adjustment.
- Robust impeller design and ease of access for maintenance.
- Threaded inlet Easy to connect an optional PondMAX SP250 Submersible Prefilter.
- 24Ft outdoor cable.

POND & FOUNTAIN PUMPS

BENEFITS INCLUDE

- PondMax Pond & Fountain Pumps are suitable for use in many different applications including ponds, fountains and other water feature applications. The pumps can be used in either submersible or in-line applications.
- Your pump has a single moving part (an impeller), enabling easy cleaning and maintenance.
- The motor is totally encapsulated in epoxy resin, ensuring safe operation under water.
- Your pump is magnetically driven and relies on water to cool and lubricate it. Therefore no harmful oil or grease lubrication is required.
- PondMax Pond & Fountain Pumps are continuous rated, therefore are designed to operate 24/7.
- An optional fountain kit can be purchased and fitted to the models PV250 – PV550 pumps. When using with a fountain kit, it is strongly recommended to purchase a optional PondMAX SP250 Submersible Prefilter. This assists in straining the particles in the water, to assist the fountain nozzles from becoming blocked up with debris. See your retailer for availability or more information.



IMPORTANT SAFEGUARDS

Correct and safe use of the system requires strict compliance with the safety instructions. For safety reasons, persons less than 16 years of age that are not familiar with these instructions should not use this equipment.

- Any damage to the equipment or unmerited operation will bring dangers to the surrounding precincts. So if there is any damage of the equipment, it must not be used. The equipment should be placed out of reach of children.
- For your own safety, disconnect from the power supply before any maintenance of any equipment is attempted on the tank or water body. Always unplug the pump from the power supply when not in use. Never pull the cable to disconnect the plug from the power supply grasp the plug and pull to disconnect. If required, have a qualified electrician install a weatherproof power supply point near to the pond or water-feature (within the cable length of the appliance).
- Be sure the equipment is submerged completely in the water. The depth should not be greater than 6.5Ft.
- Do not operate the pump if the appliance or any components of the system, such as the power cable, have been damaged. Check appliance for defects regularly.
- For safety, plug the pump into an electrical outlet with a (GCFI) Ground Fault Circuit Interrupter.

- To avoid an electric shock, do not attach the plug to the power supply socket with wet hands. The drip loop method should be used to prevent water from traveling down the cable and onto the plug or power supply. If the plug does get wet, do not unplug the cable. Disconnect the circuit breaker that supplies power to the power supply point. Then unplug and examine the plug and power supply point for presence of water. If the power point has become wet, you should consult an electrician before using the power point again.
- Do not install or store the appliance where it will be exposed to extreme hot or cold temperatures. Do not use in water above 95°F.
- Do not cut the cable as this will result in voiding your warranty.
- Care should be taken to arrange the power cable so
 that it cannot be accidentally tripped over or pulled.
- Do not attempt to repair the electrical appliance yourself. Return to an authorized service centre or place of purchase if a fault occurs, (regular maintenance is not considered repair and is required by user).

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PRODUCT SPECIFIC SAFEGUARDS

- Do not operate the pump without water at any time, permanent damage may occur.
- Pond & Fountain pumps are a magnetically driven pump. Be sure the equipment is submerged completely in the water. If used externally, the pump must have adequate flooded suction at all times, therefore they cannot suck from a water level that is below the inlet level.
- The pump is designed to be used for ponds, fountains and other fresh water features.
- The pump should only be used in clean water only. Do not use the pump in, or with, any chemicals such as a solvent or gasoline.
- All PondMax Pond & Fountain pumps are cooled by water flowing through the inside of the motor body. If the pump flow becomes restricted it will overheat and could cause permanent damage. Large tubing size is strongly recommended to deliver adequate water flow to cool the pump. The pump needs to be cleaned regularly to prevent the pump becoming blocked, thus causing the pump to overheat and burn out. This is not a warrantable event. It is strongly recommended not to select a pump that is too small for the job required. The flow rate through the pump needs to be enough so that a half of the rated max flow is kept running at all times.

INSTALLATION

For your convenience we have provided a built in flow control on the Front Filter Screen. This can be used to adjust the water flow if the flow is too fast for a particular installation. These are mainly used in clean water features with no debris.

 It is advised, that when used in an outdoor environment, to integrate an optional PondMAX SP250 Submersible Prefilter, to provide additional pre-filtration and to protect the pump (available at your local dealer)

PLUMBING GUIDE

For your convenience we have provided two different plumbing installation scenarios.

SUBMERSIBLE USE

- When used inside a pond /fountain environment, follow procedure as outlined below.
- For best results, consult with an expert to make sure you use the correct size of tubing for your pump flow and application.
- Select the outlet hosetail adapter and screw into the top of the pump.
- Now connect the tubing to the hosetail. Remember to use stainless steel hose clamps to fasten the hose

FOUNTAIN KIT SET UP GUIDE

- PondMAX offers optional fountain kits that correlate with these pumps. For suggestions on the correct model, see the specification table on page 2 of this manual.
- NOTE: For the purpose of these guidelines, a PondMAX #30 Jet kit has been selected below as a sample. The installation principle will be similar for the other types.

EXTERNAL USE

When installed outside the pond or fountain, follow proceedure as outlined below.

- For best results in external applications, the pump must have adequate flooded suction at all times (installed outside pond or fountain, below elevation of the surface of water). Also consult with an expert to make sure you use the correct size of tubing for your pump flow and application.
- In external applications it is necessary to remove the Front Filter Screen and Sponge from the pump to expose the threaded inlet. Do this by removing the front filter screen from the front of the pump. Push in the two tabs on either side of the filter screen and pull away from pump. NOTE: You will not need either the Front Filter Screen or Sponge in an external application, so feel free to keep with this instruction manual or discard.
- Select the inlet and outlet hosetail adapters and screw into both ports on the pump.
- Now the pump is ready to be connected to new or existing plumbing configuration. Extra fittings and adapters may be required (available at your local dealer), based on the specific application.
- Make sure that the suction line (inlet side of plumbing) has a suction screen or leaf strainer to catch large debris that could potentially harm pump (ask your local dealer for further information).

POND & FOUNTAIN PUMPS

9. Bell Fountain

Fountain Nozzle

6. Fountain Nozzle Threaded

10. Telescopic Riser with

4. 1" Threaded to 1/2" Threaded

Nipple/Adapter

Threaded Locking Nut

Reducing Adapto

5. Stepped

Mount

Using the appropriate 1/2" Nipple/Adapter (1), attach onto outlet of the pump. Now secure the Dual-Control T Piece (2) onto the threaded portion of 1/2" Nipple/ Adapter. Now on the top of the Dual-Control T Piece (2), connect the Threaded Reducing Adapter (4) on, Now extend 7. Fine Daisv Fountain Nozzle Telescopic Riser with Threaded Locking Nut (10) to the desired height, then secure onto the top (1" thread) of the Threaded Reducing Adapter with the threaded locking nut provided. Align Telescopic Riser with Threaded Locking Nut (10) vertically.



Select the desired nozzle, (7) (8) or (9), and screw into the Fountain Nozzle Threaded Mount. (6) Then attach the Fountain Nozzle Threaded Mount to the Telescopic Riser with Threaded Locking Nut (10).

Locate the Stepped Hosetail (5). Attach this to the side outlet of the Dual-Control T Piece to facilitate an optional accessory, for example; a small waterfall or spitter. Now, utilizing the two different Flow-Adjuster-knobs(3), on either side of the T-Piece, you can vary the flow to the fountain head or the optional small waterfall/spitter outlet separately. Feel free to close off the side outlet of the Dual-Control T Piece, if it is not required. However if it is required, connect tubing to the Hosetail provided and direct the hose to your desired location.

Place the pump in desired location; ensure the pump is on a stable surface that is free of sludge, sand and other debris. Position the device in the pond horizontally, on a solid base, in such a way that it is fully covered with water and ensure that the pump is located, at a depth, in the water, which will not allow it to suck air from the surface. This is known as cavitation. Cavitation is a cause of premature impeller wear.

The fountain nozzle should now be protruding out of the water. Push the plug into the power supply outlet to switch on. Use the power supply switch for turning the unit on and off.

NOTE: PondMAX #30 Jet kit has been selected as a sample. Fountain kit NOT included with pump. O *ffered seperately.*

CLEANING INSTRUCTIONS

Begin by ensuring that the main power supply is disconnected before attempting any maintenance or adjustment of the unit or the water body. Remove the unit from the water. If your unit is connected to a prefilter (optional), it will clog up over time. Please clean regularly (at least once a month) to ensure strong water flow. Failure to maintain the unit could result in a burnt out motor or other damage. This is not a warrantable event.

- All PondMAX Pond & Fountain Pumps are water cooled. If pump becomes restricted, or blocked, it could overheat and cause permanent damage. Regular inspections, cleaning and maintenance of impeller is necessary to ensure longer life.
- If using a fountain kit, take off the fountain set first by unscrewing it from the top of the pump. Examine the nozzles to ensure all ports are unblocked. Clean with a suitable brush if necessary.
- Maintain the filter sponge regularly according to how long it takes for the sponge to get clogged up. When the flow starts to be reduced, check and clean if necessary.
- To unclip the front filter screen from the front of the pump, push in the two tabs on either side of the filter screen and pull away from pump. See below diagram. Take out the sponge (2) and clean. If using an optional submersible prefilter, disasemble, and wash out pad(s) thoroughly. It is recommended that this is done in a bucket of pond water to ensure the good bacteria that are present in the sponge are not killed by the chlorine in tap water. Check for wear and tear of the sponges. Replace if necessary.

2. Dual Control

3. Flow Adjuste

T-Piece

• You can help boost the biological function of your filter sponge with a bacterial additive, available from your local dealer.

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IMPORTANT NOTES

- It is important that this procedure is carried out regularly as the cooling path inside the motor could become clogged. If the impeller assembly becomes worn or damaged it should be replaced (available from your dealer or special order). Failure to do so may cause serious damage to pump motor. Inspect for signs for wear and tear. The impeller set is a wearing consumable part. Replace if necessary.
- Once the cleaning and inspection process is completed, reassemble in the reverse manner. Reinstall the shaft, and then carefully slide the impeller onto the shaft.

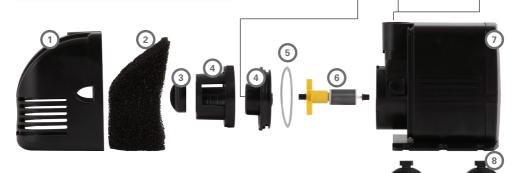
The impeller will pull itself in by magnetic force, this is normal. (Take care not to pinch your fingers). With the impeller in the correct position, carefully place the impeller cover back on, and then rotate clockwise to lock into position. Making sure the ceramic shaft is located properly in the impeller cover center hole.

- Then reinsert the internal sponge back into the filter cage and reattach to the pump or reattach optional prefilter, which ever is applicable to your application.
- Reattach tubing/fountain kit, submerse in water.

EXPLODED VIEW

- 1 Front Filter Screen
- 2 Sponge
- 3 Flow Control Knob
- 4 Volute Assembly
- 5 O-Ring
- 6 Impeller Assembly
- 7 Pump Motor Body
- 8 Suction Cup Feet x4
- 9 3/4" Barbed Adapter for Inlet (See "NOTE" below)
- 10 1/2" Barbed Adapter Fitting (See "NOTE" below)
- 11 3/4" Barbed Adapter Fitting (See "NOTE" below)





NOTE: Parts and features differ from model to model. All images used are for illustrative purposes only. Not all features depicted apply to all models in the range and these are subject to change.



IMPORTANT

These accessories and attachments are recommended for use with your PondMAX product specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use the accessory or attachment for its stated purpose.

POND & FOUNTAIN PUMPS

SPARE PARTS

PART NO.	DESCRIPTION	PV250	PV350	PV550	
1	Front Filter Screen				
2	Sponge	31PV032	31PV052	31PV077	
3	Flow Control Knob				
4	Volute Assembly	31PV031	31PV051	31PV076	
5	O-Ring	31PV030	31PV050	31PV075	
6	Impeller Assembly				
7	Pump Motor Body				
8	Suction Feet x 4	31PV035			
9					
10	Complete Fittings Kit	31PV033	31P\	31PV053	
11					

TROUBLESHOOTING

Problem	Reason	Solution	
	No power	Check that the plug is connected and power point turned on.	
	Sponges and filter media blocked with sludge.	Clean the sponges and filters.	
WATER PUMP NOT WORKING	Impeller is blocked with sludge or lime scale build up.	Clean the impeller as per the instructions.	
	Running without sufficient water.	Submerse the equipment underwater then plug in. Refill if necessary.	
	Blocked impeller chamber or ceramic shaft is broken.	Clean the impeller. Check for wear. Replace if necessary.	
	Blockage in pump.	Clear the blockage.	
	Impeller & shaft worn out.	Replace impeller & shaft.	
WATER PUMP	Impeller broken.	Replace impeller.	
IS NOISY	Water level in feature is too low.	Refill feature with water to appropriate height.	
	Unit inlet is blocked or the water pump outlet is blocked.	Clear all blockages.	
	The height to which you are pumping is too high for the given model of pump.	Select a bigger model.	

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LIMITED WARRANTY

This product is warranted to the initial purchaser to be free of defects in materials and workmanship at the time of initial purchase and for a period of 3 years for PondMAX[™] Pond & Fountain Pumps. Some parts are consumable and may need to be replaced as part of ongoing product maintenance and are not covered entirely by this Warranty. The impeller assembly is a consumable part and has a 1-year warranty. In the event this product malfunctions within 3 years from the date of purchase, the sole obligation of PondMAX[™] International (hereinafter referred to as PondMAX[™]) will be to repair the unit or replace with an equivalent new or factory refurbished unit at PondMAX's discretion, subject to the following condition:

- The malfunction is proved attributable to a defect in materials or workmanship, including repairs performed under this warranty.
 Malfunction for any other reason-including but not limited to misuse, negligence, accident, or tampering with parts, incorrect wiring, or improper installation-will not be remedied under this warranty.
- PondMAX[™] specifically does not guarantee chemical compatibility, and expressly does not warrant units from any problems caused by chemical attack or failure due to incompatibility of fluid being circulated by pump.
- All warranty repairs must be performed by PondMAX[™] or a PondMAX[™] authorized company.
- Purchaser must retain the purchase receipt and present it with this certificate as proof of ownership and entitlement to warranty repairs. Unauthorized repairs will not be compensated by PondMAX[™], and are not the responsibility of PondMAX[™], and if such repairs damage the product, such damages are not remedied under this warranty.
- Purchaser shall bear all shipping, packing and insurance costs and all other costs, excluding labor and parts necessary to effectuate repairs under this warranty.

- This warranty is in lieu of all other express warranties which now or hereafter might otherwise arise with respect to this product. Any and all limited warranties, including the 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 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 implied or express warranty after one year subsequent to the expiration of the duration period of the express written warranty.
- Incidental and consequential damages caused by malfunction, defect, or otherwise, and with respect to breach of any express or implied warranty, are not the responsibility of PondMAX™, and, to the extent permitted by law, are hereby excluded for property damage, loss of livestock and, to the extent not unconscionable, 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.
- This warranty does not apply to any malfunction arising out of any application of this product other than normal use, unless such application is upon request specifically approved in writing by PondMAXTM.
- The provisions of this warranty are severable and if any provision shall be deemed invalid, the remaining provisions shall remain in full force and effect.
- Rights under this warranty are not assignable without the express prior consent in writing by PondMAX[™] and, regardless of the terms of such consent in writing, such assignee shall have no greater rights than his assignor had against PondMAX[™].

Please consult your retailer for quality original PondMAX replacement parts. Visit www.pondmax.com for your nearest dealer.

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