



MAINTENANCE

Lubrication

Motor - Permanently Lubricated ball bearings - no service required.

Rotary Seal - Requires no lubrication after assembly.

*The pump must be drained before servicing or if stored below freezing temperatures. Periodic replacement of seals may be required due to normal carbon wear.

SYMPTOM	PROBLEM	RESOLUTION
No Flow	Insufficient Prime	Prime system with water and purge all air from suction piping.
		Install check valve.
	Insufficient Power	Verify power supply and connection from panel to pump.
		Verify proper voltage. Some models are dual voltage (115/230).
	Flow Restriction	Ensure valves are open.
		Ensure plumbing is clear, including suction strainers, check valves, etc.
Verify check valve orientation and direction of permitted flow.		
Clean out leaves or other debris from basket strainer (if applicable).		
Air leak	Fix air leaks at fittings, connections, strainer basket etc. This typically occurs on the intake side.	
System Incompatibility	Verify hydraulic compatibility: i.e. pump & pipe are sized for the system.	
Low Flow	Air leak	Fix air leaks at fittings, connections, strainer basket etc. This typically occurs on the intake side.
		Verify hydraulic compatibility: i.e. pump & pipe are sized for the system.
	Insufficient Power	Verify power supply and connection from panel to pump.
		Verify proper voltage. Some models are dual voltage (115/230).
	Flow Restriction	Ensure valves are open.
		Ensure plumbing is clear, including suction strainers, check valves, etc.
		Clean out leaves or other debris from basket strainer (if applicable).
	Insufficient Prime	Prime system with water and purge all air from suction piping.
		Verify airtight plumbing on the suction plumbing especially fittings!
		Clean out leaves or other debris from basket strainer (if applicable).
Increase pipe size where possible.		
Cavitation	Decrease suction pipe length, reduce the number of elbows, etc.	
	Verify hydraulic compatibility: i.e. pump and pipe are sized for the system.	
	Verify power supply and connection from panel to pump.	
Sporadic Operation	Insufficient Power	Verify proper voltage. Some models are dual voltage (115/230).
		Poor Ventilation
Excessive Noise	Cavitation	Verify airtight plumbing on the suction plumbing especially fittings!
		Clean out leaves or other debris from basket strainer (if applicable).
		Increase pipe size where possible.
		Decrease suction pipe length, reduce the number of elbows, etc.
	Insufficient Power	Verify power supply and connection from panel to pump.
		Verify proper voltage. Some models are dual voltage (115/230).
	Flow Restriction	Ensure valves are open.
		Ensure plumbing is clear, including suction strainers, check valves, etc.
		Verify check valve orientation and direction of permitted flow.

QUIETDRIVE 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 18 months for QuietDrive products. In the event this product malfunctions within 18 months years from the date of purchase, the sole obligation of QuietDrive (hereinafter referred to as QuietDrive) will be to repair the unit or replace with an equivalent new or factory refurbished unit at QuietDrive discretion, subject to the following conditions:

- 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.
- QuietDrive 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 pumped with pump materials of construction. Purchaser shall also retain and present to QuietDrive evidence of purchaser's compatibility tests under actual operating conditions.
- All warranty repairs must be performed by QuietDrive or a QuietDrive 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 QuietDrive, and are not the responsibility of QuietDrive, 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.

Name: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Model: _____ Serial Number: _____
 Date purchased: _____ Where purchased: _____



Universal Pond Supply
 1021 Old Fallston Road
 Fallston, MD 21047
 410-983-0593

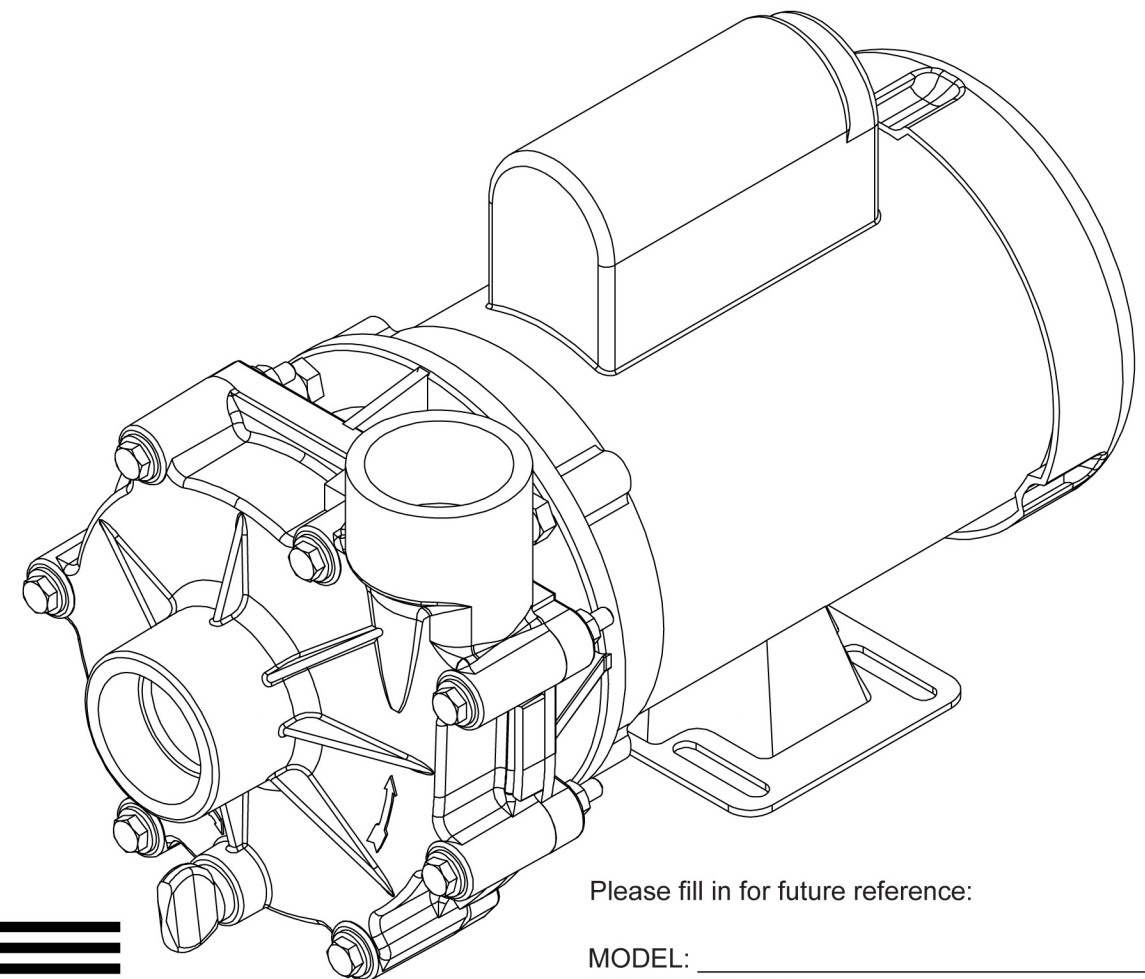
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INSTALLATION AND SERVICE MANUAL (QD3250, QD4450, QD5050, QD6050)

WARNING: Please read completely before you install or operate your new pump! This is an external "out-of-pond" pump! It is NOT submersible! Do NOT allow this pump to become submerged! Never run dry! Max. case pressure.- 65 PSI!

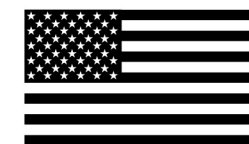
MODEL	QD3250	QD4450	QD5050	QD6050
MAX FLOW (gph)	3300	4500	5100	6100
MAX HEAD (feet)	21'	21'	22'	23'
VOLTS	115/230V	115/230V	115/230V	115/230V
MOTOR HP	1/8	1/6	1/4	1/3
MOTOR	Enclosed	Enclosed	Enclosed	Enclosed
INLET	1 1/2" FNPT	1 1/2" FNPT	1 1/2" FNPT	1 1/2" FNPT
DISCHARGE	1 1/2" FNPT	1 1/2" FNPT	1 1/2" FNPT	1 1/2" FNPT



Please fill in for future reference:

MODEL: _____
 SERIAL NUMBER: _____
 DATE PURCHASED: _____

*Please fill out the warranty registration card in this manual.



Made in the USA