

WATER POWERED WATER PUMPS

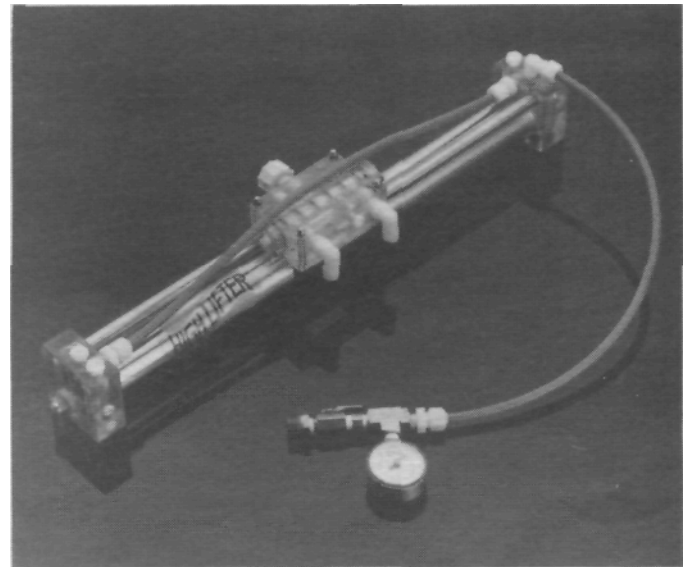


2" water pump model H44 and H49

The High Lifter is a powerful water pump designed to move water uphill without using gasoline or electricity. By harnessing the energy from a head of water, the High Lifter pump drives a portion of this water uphill. Pistons provide the pumping action and water is the only lubricant used.

The High Lifter is an efficient and economical way to handle many water pumping requirements. Ideally suited for hilly and mountainous terrain, it is light weight, quiet, easy to install and capable of extreme lifts with low inlet flows.

Designed to be installed and maintained by the user (with basic, household tools), the High Lifter requires little attention for years of hardworking service.



SPECIFICATION DATA

Positive displacement, piston type, water powered water pump.

Cylinder material: stainless steel
 Valve and head material: acrylic
 Filter: supplied with pump
 Diameter of main cylinder: 2"
 Length: 26"
 Weight: 9 lb
 Inlet connection: 3/4" MNPT
 Outlet connection: 1/2" MNPT

Note: pump ratios can be changed by using a changeover kit.



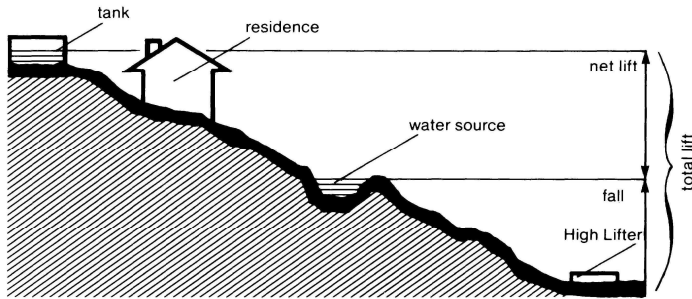
	<u>MODEL</u>	
	H44	H49
Pump ratio (volumetric)	4.5:1	9.1
Max. output/day	1500 gal.	750 gal.
Max. Net lift	440ft.	1000ft.
Max. Total lift	580ft	1140ft.
Max. inlet pressure	60 psi.	60 psi.
Min. inlet pressure	13 psi.	13 psi.
Shipping weight	12 lbs.	12 lbs.
Shipping dimensions	6"x 6"x 28"	

TYPICAL APPLICATIONS

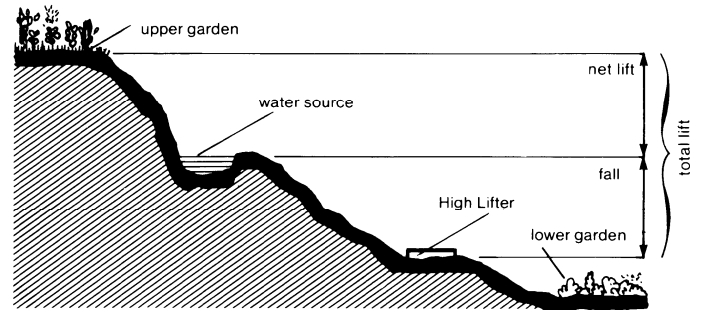
The High Lifter pump can be effectively used for domestic water pumping, garden water supply, irrigation, range cattle, etc. All that is required is a source of water with at least one quart per minute flow, such as a spring, creek, or pond, and a place to locate the pump at a lower elevation than the source.

The High Lifter can be installed using any type of pipe or tubing. Pipelines should be sized to minimize pressure drop due to friction, unless abundant fall is available. The pump itself can be placed in any convenient spot; on the ground or in a shed, etc.

Operation of the pump may be controlled by regulating either the inlet or discharge. The High Lifter will restart itself automatically after any interruption of inlet water.



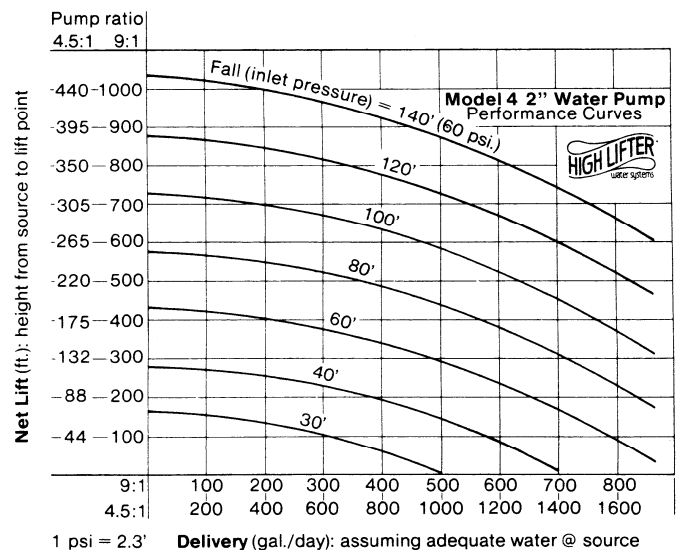
Typical domestic water application using tank for reservoir and for pressure to home.



Typical garden/irrigation application using both pumped water and discharged water. (Tanks not necessary).

PERFORMANCE DATA

As illustrated in the graph to the right, the High Lifter responds to both inlet and output pressure. Because the High Lifter utilizes inlet water pressure to pump water, increased inlet pressure yields greater delivery. Conversely, reducing the output pressure puts less load on the pump, allowing more water to be pumped.



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