

# Compare Pond Pumps

Drs. Foster & Smith Educational Staff

Selecting the correct pump is essential, whether you choose to power a waterfall or simply circulate water through your filter. Most beginning pond-keepers buy pumps for filtration. When choosing a pump for filtration, the gph (gallons per hour) of the pump is the most important consideration. In addition, the type of pond you have will determine what power your pump will need.

**How big is your pond?** When you know the volume of water in your pond, you know how many gallons per hour a pump must be able to handle in order to move the water to provide sufficient circulation. This includes components that affect the volume of the water. As a general rule, circulate pond water a minimum of once every hour. Insufficient circulation can cause areas of stagnant water, low oxygen levels, and many other problems, which eventually lead to an unhealthy pond.

**How far do you need the pump to push the water?** To determine the appropriate pump for your particular pond, there are several factors to consider. For example: Are you moving up an incline, through a filtration pump, or other equipment; how far are you pumping the water; how much tubing are you using; and how many elbows, bends, and other plumbing fittings do you need? Such factors will influence the maximum head height required for your system.

**How much energy are you using?** If you are concerned about energy usage, as most of us are, choose the pump with the lowest wattage that will fit your needs.

**What other equipment are you using?** Consider what other equipment you may be using and look at additional fittings you might need for tubing and other plumbing supplies. Pipe thread fittings come in MPT (male), FPT (female), or barbed (fit into female fittings to convert them into male fittings). Pumps run 24 hours a day and are the chief piece of equipment responsible for keeping your pond healthy. Read product descriptions carefully to make sure you are making the correct pump choice.

[Quiet One](#)

[Pondmaster  
Mag-Drive](#)

[Self-Priming  
External Pumps](#)

[Dual  
Direct  
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[Mag-Drive  
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Model	Max gph	Max head	Inlet•Outlet Fittings	Watts	Cord Length
<a href="#"><u>Quiet One</u></a>					
<b>800</b>	220	4 ft 4"	sponge•1/2" Insert	13.5	20 ft
<b>1200</b>	296	6 ft 1"	sponge•1/2" MPT	25.5	20 ft
<b>2200</b>	594	10 ft 6"	sponge•1" MPT	45.0	20 ft

<b>3000</b>	819	10 ft 4"	sponge•1" MPT	55.0	20 ft
<b>4000</b>	991	10 ft 1"	sponge•1" MPT	65.0	20 ft
<b>5000</b>	1,400	11 ft 6"	sponge•1" MPT	115.0	20 ft
<b>6000</b>	1,664	11 ft 6"	sponge•1" MPT	135.0	20 ft
<b>9000</b>	2,040	16 ft 4"	basket in•1.5" MPT	125.0	20 ft
<b>16000</b>	3,915	14 ft 8"	basket in•1.5" MPT	185.0	20 ft

### [Pondmaster Mag-Drive Utility Pump](#)

<b>PM 1.9</b>	190	7 ft	3/8", 1/2"•1/4"	19	10 ft
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### [Pondmaster Mag-Drive Pumps](#)

<b>PM 5</b>	500	10 ft 6"	1/2" in•out	49	18 ft
<b>PM 7</b>	700	11 ft 6"	1/2" in•out	60	18 ft
<b>PM 9.5</b>	950	12 ft 6"	3/4" in•out	93	18 ft
<b>PM 12</b>	1,200	13 ft 6"	3/4" in•out	110	18 ft
<b>PM 18</b>	1,800	16 ft 6"	3/4" in•out	150	18 ft
<b>PM 24</b>	2,400	18 ft	1" in•out	265	18 ft

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<b>Model</b>	<b>Max gph</b>	<b>Max head</b>	<b>Inlet•Outlet Fittings</b>	<b>Watts</b>	<b>Cord Length</b>
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### [Self-Priming External Pumps](#)

<b>1/6 HP</b>	3,000	12 ft	1-1/2" FPT in•out	409	no cord
<b>1/2 HP</b>	3,600	38 ft	1-1/2" FPT in•out	793	no cord
<b>3/4 HP</b>	4,860	50 ft	1-1/2" FPT in•out	1,058	no cord
<b>1 HP</b>	5,760	53 ft	1-1/2" FPT in•out	1,380	no cord

### [Dual Direct Drive](#)

<b>1900</b>	1,900	18 ft	1-1/4" in•out	250	16 ft
<b>3100</b>	3,100	29 ft	1-1/4" in•out	675	16 ft
<b>4300</b>	4,280	30 ft	1-1/4"•1-1/2" in•out	700	16 ft

<b>Model</b>	<b>Max gph</b>	<b>Max head</b>	<b>Inlet•Outlet Fittings</b>	<b>Watts</b>	<b>Cord Length</b>
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### [Mag-Drive Waterfall Pumps](#)

<b>2000</b>	2,000	14 ft	1-5/8" slip, 1-1/2" barbed in•out	150	20 ft
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<b>3000</b>	3,000	15 ft	1-5/8" slip, 1-1/2" barbed in out	235	20 ft
<b><u><a href="#">HY-Drive Waterfall Pumps</a></u></b>					
<b>3200</b>	3,250	12 ft	1-3/4"•1-1/2"	150	20 ft
<b>4000</b>	4,000	15 ft	1-3/4"•1-1/2"	210	20 ft
<b>4800</b>	4,750	20 ft	1-3/4"•1-1/2"	280	20 ft
<b>EP850</b>	850	12 ft.	NA•1"	60	16 ft.
<b>EP1350</b>	1350	15 ft.	NA•1"	90	20 ft.
<b>EP1750</b>	1750	20 ft.	NA•1"	130	20 ft.
<b>EP2200</b>	2200	20 ft.	NA•1"	190	26 ft.
<b>EP3200</b>	3200	20 ft.	NA•1"	260	26 ft.
<b>EP4700</b>	4700	17 ft	1-1/2"•1-1/2"	280	20 ft.
<b>EP6700</b>	6700	19 ft	1-1/2"•1-1/2"	520	20 ft.
<b>EP9700</b>	10,000	38 ft.	2"•2"	700	30 ft.
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<b>Model</b>	<b>Max gph</b>	<b>Max head</b>	<b>Inlet•Outlet Fittings</b>	<b>Watts</b>	<b>Cord Length</b>
<b><u><a href="#">Little Giant Out-of-Pond Pumps</a></u></b>					
<b>1/8 HP 1740</b>	1740	10 ft.	2"•1-1/2"	137	8 ft.
<b>1/8 HP 2760</b>	2760	11 ft.	2"•1-1/2"	174	8 ft.
<b>1/8 HP 4260</b>	4260	20 ft	1-1/2"•1-1/2"	257	8 ft.
<b>1/4 HP 5820</b>	5820	21 ft.	1-1/2"•1-1/2"	370	8 ft.
<b><u><a href="#">Solar Pump Kits</a></u></b>					
<b>Mini</b>	40	1 ft 7"	NA•1/2"	1.7	16 ft
<b>Maxi</b>	105	3 ft	NA•1/2"	5	16 ft
<b><u><a href="#">TetraPond Debris Handling Pump</a></u></b>					
<b>DHP3600</b>	3,6909	11 ft	N/A•1-1/4" to 1-1/2"	199	20 ft
<b>DHP4200</b>	4,235	13 ft	N/A•1-1/4" to 1-1/2"	199	20 ft
<b><u><a href="#">Total Pond Floating UV Filter with Pump</a></u></b>					
<b>Pond Boss™</b>	238	6 ft 6"	N/A	28	16 ft
<b><u><a href="#">Total Pond Submersible Pump with UV</a></u></b>					
<b>Pond</b>	700	11 ft 6"	N/A•3-1/4"	120	16 ft

<b>Waterfall</b>	1,300	16 ft 6"	N/A•1"	240	16 ft
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<b><a href="#">Stainless Steel Submersible Pumps</a></b>					
<b>1/5 HP</b>	2,900	21 ft	N/A•1-1/4"	355	19 ft
<b>1/3 HP</b>	3,450	25 ft	N/A•1-1/2"	455	19 ft
<b>1/2 HP</b>	5,000	30 ft	N/A•2"	590	19 ft
<b>3/4 HP</b>	5,300	36 ft	N/A•2"	847	19 ft
<b>1 HP</b>	7,000	36 ft	N/A•2"	1,210	19 ft
<b><a href="#">High Efficiency Stainless Steel Pumps</a></b>					
<b>1/4 HP</b>	2,900	21 ft	N/A•2" FPT	333	20 ft
<b>1/3 HP</b>	3,900	27 ft	N/A•2" FPT	460	20 ft
<b>1/2 HP</b>	4,900	32 ft	N/A•2" FPT	644	20 ft
<b>1 HP</b>	5,900	43 ft	N/A•2" FPT	1093	20 ft
<b><a href="#">TetraPond Water Garden Pump</a></b>					
<b>325</b>	325	7 ft 2"	N/A•5/8"	22	12 ft
<b>550</b>	550	7 ft 2"	N/A•7/8"	42	12 ft
<b>1000</b>	1,000	8 ft	N/A•7/8"	80	16 ft
<b>1900</b>	1,900	16 ft	N/A•1-1/8"	185	16 ft