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## PUMP SELECTION GUIDE

Selecting the appropriate pump for a water feature will provide ideal water flow and maximize pump life．

Use this guide to make it quick and easy to select the right pump for your Aquascape ecosystem pond or Pondless ${ }^{\circledR}$ Waterfall．


EcoWave Pond Pumps


SLD Adjustable Flow Pond Pumps


AquaSurge ${ }^{\circledR}$
Pond Pumps


AquascapePRO Pond Pumps


## Ecosystem Ponds

1．Pond Volume Calculation：To maintain proper filtration and support pond fish，we recommend selecting a pump that turns over／filters the total gallons in the pond at least once every hour．Use the following formula to calculate the total volume of water contained in your pond．Note：this calculation factors in rocks and curved edges to provide a more accurate calculation for most ecosystem ponds．
Length（ft．）$\times$ Width（ ft ．）$\times$ Average Depth（ ft. ）$\times 7.48 \times 0.8=$ Total Gallons

## Example：

8 ft ．$\times 11 \mathrm{ft} . \times 1.5 \mathrm{ft}$ ．Avg．Depth $\times 7.48 \times 0.8=790$ Total Gallons
2．Waterfall Width：We recommend 125 gallons per hour（GPH）for every inch of waterfall width．Higher flow rates can be used to provide more dramatic water flows．Use this simple formula to calculate the minimum flow rate for the width of your waterfall．

Waterfall Width（in．）x $125(\mathrm{GPH})=$ Minimum Waterfall Flow Rate Example：
24 in．wide waterfall $\times 125(G P H)=3,000(G P H)$ Minimum Waterfall Flow Rate
3．Choose the higher of the two numbers（Total Gallons and Minimum Waterfall Flow Rate）to determine your recommended flow rate．

## Pondless ${ }^{\circledR}$ Waterfall

1．Waterfall Width：We recommend 125 gallons per hour（GPH）for every inch of waterfall width．Higher flow rates can be used to provide more dramatic water flows．Use this simple formula to calculate the minimum flow rate for the width of your waterfall．
Waterfall Width（in．）$\times 125$（GPH）$=$ Recommended Flow Rate

## Example：

24 in．wide waterfall x $125($ GPH $)=3,000($ GPH $)$ Recommended Flow Rate


After finding your recommended flow rate，it＇s time to calculate head height．

## Head Height

The calculation below is a simple way to estimate approximate head height and allow you to use pump performance specifications below to select the correct pump for your application．
（Elevation in feet）＋（Pipe Length in feet $\div 10)=$ Approximate Head Height
Elevation：Height difference from water level in the feature to the top of the waterfall
Pipe Length：Total length of pipe

## Example：

Elevation： 3 feet
Pipe length： 20 feet
$(3 \mathrm{ft})+.(20 \mathrm{ft} . \div 10)=5 \mathrm{ft}$ ．of head height


Refer to the following pump flow chart to select a pump that is compatible with your calculated head height.

## Example:

Recommended Flow Rate: 3,000 gallons per hour (GPH)
Head Height: 5' head height
Follow the $5^{\prime}$ marker and identify pumps producing approximately $3,000 \mathrm{GPH}$. If several options are identified, please see back page.

| BEST Operating Zone | MAXIMUM Operating Zone | DO NOT Operate Zone |
| :--- | :--- | :--- |




## EcoWave Pond Pumps

Benefit: Maximum Electrical Efficiency
Location: Skimmer Filters and Pondless ${ }^{\circledR}$
Waterfall Applications
These magnetically-driven pumps provide incredible electrical efficiency and are ideal for low head height applications.


## SLD Adjustable Flow Pond Pumps

Benefit: Solids-Handling, Reliability, and WiFi Compatible Models
Location: Skimmer Filters and Pondless ${ }^{\circledR}$ Waterfall Applications

These asynchronous pumps provide superior reliability with less maintenance, and the ability to control the flow using the included receiver or your smart phone or tablet.


## AquaSurge Pond Pumps

Benefit: Electrical Efficiency, Reliability, and WiFi Compatible Models
Location: Skimmer Filters and Pondless ${ }^{\circledR}$ Waterfall Applications

These asynchronous pumps provide powerful flow with extreme energy-efficiency, providing significant savings throughout the year.


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## AquaForce Solids-Handling Pond Pumps

## Benefit: Electrical Efficiency

Location: Directly in the Pond
An asynchronous motor and protective pump cage makes these pumps energy-efficient and ideal for setting directly into the pond.


## PL and PN Pond Pumps <br> Benefit: Solids-Handling <br> Location: Skimmer Filters and Pondless ${ }^{\circledR}$ Waterfall Applications <br> These direct-drive pumps provide high flow rates and handle large solids effectively, reducing clogging and maintenance.

## Pipe Diameter

Pipe diameter limits the amount of flow that can travel through the piping in a water feature.
Select a pump that is compatible with the pipe diameter of the project. We recommend using flexible PVC or kink-free pipe.


| Model | 1/2" | 3/4" | $1 "$ | 1.25" | 1.5" | 2" | 31 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EcoWave Pond Pumps 2000, 3000, 4000, 5000 |  |  |  |  |  |  |  |
| AquaSurge ${ }^{\text {P }}$ Pond Pumps 2000, 3000, 4000, 5000 |  |  |  |  |  |  |  |
| AquaSurge ${ }^{\circledR}$ 2000-4000 Adjustable Flow Pond Pump |  |  |  |  |  |  |  |
| AquaSurge ${ }^{\circledR}$ 4000-8000 Adjustable Flow Pond Pump |  |  |  |  |  |  |  |
| AquaForce Pond Pumps 1000, 1800, 2700, 3600, 5200 |  |  |  |  |  |  |  |
| AquaForce 4000-8000 Adjustable Flow Pond Pumps |  |  |  |  |  |  |  |
| SLD 4000-7000 Adjustable Flow Pond Pumps |  |  |  |  |  |  |  |
| SLD 5000-9000 Adjustable Flow Pond Pumps |  |  |  |  |  |  |  |
| AquascapePRO Pumps 3000, 4500 |  |  |  |  |  |  |  |
| AquascapePRO Pumps 7500 |  |  |  |  |  |  |  |
| AquascapePRO Pumps 10000 |  |  |  |  |  |  |  |
| PL Pond Pumps 3-PL 3000, 5-PL 5000 |  |  |  |  |  |  |  |
| PL \& PN Pond Pumps 8-PN 5500, 9-PL 7000 |  |  |  |  |  |  |  |
| PN Pond Pump 12-PN 10000 |  |  |  |  |  |  |  |

## Need more information? Want to place an order? Contact your participating Aquascape distributor TODAY!

For help locating a distributor, contact Aquascape Customer Care at (866) 877-6637 US/(866) 766-3426 CAN.
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[^0]:    AquascapePRO Pond Pumps
    Benefit: Solids-Handling
    Location: Skimmer Filters and Pondless ${ }^{\circledR}$ Waterfall Applications
    These direct-drive pumps provide high flow rates and work efficiently in higher head height applications.

