### Step 1: Determine Head Height

<table>
<thead>
<tr>
<th>Component</th>
<th>Formula or Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fountain</td>
<td>Distance in feet from pond surface to top of fountain head.</td>
</tr>
<tr>
<td>Waterfall</td>
<td>Distance in feet from pond surface to top of waterfall.</td>
</tr>
<tr>
<td>Hosing</td>
<td>Add 1 foot of head height for every 10 feet of hosing.</td>
</tr>
</tbody>
</table>

**Total (A+B+C) Head Height**

### Step 2: Determine Flow Rate (GPH)

#### A. Calculate Pond Volume
- **Square or rectangular**
  \[
  \text{Length (ft.)} \times \text{width (ft.)} \times \text{Average depth (ft.)} \times 7.5 = \text{Gal.}
  \]
- **Round**
  \[
  0.785 \times \text{top diameter (ft.)} \times \text{bottom diameter (ft.)} \times \text{depth (ft.)} \times 7.5 = \text{Gal.}
  \]

Pond water should circulate every 2 hours. Divide pond volume (gallons) above by 2.

**B. Width of Waterfall at top of Waterfall**

75 to 100 GPH (gallons per hour) required per inch of width of waterfall.

**Total GPH**

### Step 3: Select Your Pump

To select your pump, find the first column that shows your desired head height. Move horizontally across chart until the flow rate is equal or greater to the GPH your pond needs. This is the minimum size pump needed.

**PowerJet**
- For Fountain and Waterfall

### Step 4: Select Your Filter and Optional UV Sterilizer

- **PowerJet**
  - For Fountain and Waterfall

**PowerFalls**
- Filter size appropriate to 1000 gallon pond

**PowerFlow**
- External Biological Filter up to 1500 gallon pond

**PowerFlow® Outdoor**
- UV Filter with 11W UV sterilizer included up to 700 gallon pond

**PowerFlow® 1400 UV Filter**
- with 25W UV sterilizer included up to 1400 gallon pond

**PowerFlow® 2100 UV Filter**
- with 25W UV sterilizer included up to 2100 gallon pond

**PowerFlow® 3200 UV Filter**
- with 25W UV sterilizer included up to 3200 gallon pond

**Filter Fits up to 5000 gallon pond**

**PowerFlow® 5000**
- Skimmer Filter up to 5000 gallon pond

**PowerFlow® MAX 5000**
- 35 watt UV Sterilizer

**PowerFalls® External**
- 25W UV Sterilizer

**PowerJet® 3500**
- 3500 GPH

**PowerJet® 4500**
- 4500 GPH

**PowerJet® 6000**
- 6000 GPH

**PowerJet® 9000**
- 9000 GPH

**PowerJet® 12500**
- 12500 GPH

**PowerJet® 18000**
- 18000 GPH

**PowerJet® 25000**
- 25000 GPH

### Additional Information

- **5/24/19**
- www.agapanponds.com
- Printed in Canada