

Water Feature Pump Data Worksheet

Name:	Phone:
Address:	City/State/Zip:

GPH	Pumping Requirements: To size a pump, first figure how big the water feature will be. Use table attached, then divide the figure by 60 to get GPM		_____ GPM	
	Total Dynamic Head (TDH)	Elevation: a. Suction Lift When using a submersible pump suction lift should be "0". When using a non-submersible pump, measure vertical distance from water level to pump inlet. (Total measurement in feet) b. Elevation Change To figure elevation, measure the vertical distance from the surface of water to the highest point of discharge. (Total measurement in feet)		(a) _____ FEET (b) _____ FEET
		Friction Loss: To estimate friction loss, keep velocity feet per second at 5' +/- 1' to first determine ideal pipe size. Then using friction loss chart, calculate loss per 100' of pipe based on flow + pipe size determined above. Multiply loss per 100' by number of 100' sections of pipe. (Total measurement in feet)		_____ FEET
		PSI - Pounds Per Square Inch Determine the pressure required to run both the fountain head and/or pressure filters (refer to the manufacturer's specifications). PSI x 2.31 = HEAD IN FEET		_____ FEET
		Total Dynamic Head (TDH): Total the sum of elevation, friction loss and PSI. This total equals TDH in feet.		_____ TDH

Misc.	Electrical:			Filtration:			Check manufacturer's specifications to determine PSI for these filters.
	Voltage:	<input type="checkbox"/> 110 Volt	<input type="checkbox"/> 220 Volt	<input type="checkbox"/> 440 Volt	Gravity:	<input type="checkbox"/> Waterfall	
	Phase:	<input type="checkbox"/> Single Phase	<input type="checkbox"/> Three Phase		Pressure:	<input type="checkbox"/> Pressure	<input type="checkbox"/> Sand

Feature	<input type="checkbox"/> Pond <input type="checkbox"/> Fountain <input type="checkbox"/> Pondless		
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Weir Chart	Length (L) of weir in feet				
	Head in Inches	1	3	5	Additional gpm for each ft over 5 ft
	1	2420	6420	10790	2615
	1 1/4	2970	9025	15025	3025
	1 1/2	3895	11820	19770	3970
	1 3/4	4860	14400	24900	5015
	2	5910	18120	30360	6120
	2 1/4	7020	21660	36300	7320
	2 1/2	8170	25320	42360	8580
	2 3/4	9420	29100	48900	9900
	3	10670	33120	55560	10020

