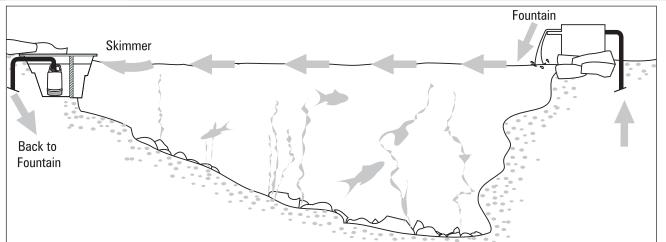
## Water Feature Pump Data Worksheet

Complete worksheet then fax to 970.263.2277 or email to msi@munrocompanies.com

Complete worksheet men tax to 770.200.2277 of children managiment occumpations.								
Name: Company:					Phone:			
Add	dress:				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							
	Voltage: 110 Volt 220 Volt 440 Volt		Gravity:   Waterfall   Skimme		Skimmer	Check manufacturer's specifications to determine PSI for filters.		
	Phase: Single P	Phase Three Phase	Pressure:	Pressure	☐ Sand	determine 131 for milets.		
Feature	□ Pond □ Fountain				□ Pond-less			
	Calculating GPH Required for Water Features							
	Depth in Inches					۸ ما ماند: م	Additional arms for each to see Et	
ŧ	Depin in menes	1	3		5	Additional gpm for each ft over 5 ft		
2	1	2420	6420		10790		2615	
U	1 1/4	2970	9025		15025		3025	
Weir Chart	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	
Fountain						tain		





Phone: 970.242.6810