

Job Description:	HERITAGE HOME BUILDER
Contact:	C.B
Prepared by:	CMB Enginners inc.
Date:	31-Mar-23

Pressure losses may be grossly overstated, particularly if designing with WASTEFLOW Classic
 The letters on the diagram(right) match the letters in section 2 below.

Worksheet - Pump Sizing

Section 1 - Summary from Worksheet 1

Flow required to dose field	1.93 gpm
Flow required to flush field	0.37 gpm
Flow required to dose & flush field	2.30 gpm
Filter	BioDisc-150
No. of Zones	1 zones
Zone valve	-
Dripline	Wasteflow PC - 1/2gph
Dripline longest lateral	437.50 ft.

Section 2	Ft of head	Pressure
A. Flush line - Losses through return line		
Size of flush line in inches	.5 inch	
Length of return line	24 ft.	
Equivalent length of fittings	5 ft.	
Elevation change. (if downhill enter 0)	0 ft.	
Pressure loss in 100 ft of pipe	0.52 ft.	0.22 psi
Total pressure loss from end of dripline to return tank	0.1 ft.	0.06 psi
B. Dripline - Losses through Wasteflow dripline		
Length of longest dripline lateral	272 ft.	
Minimum dosing pressure required at end of dripline	23.10 ft.	10.00 psi
Loss through dripline during flushing	50.33 ft.	21.79 psi
Total minimum required dripline pressure	73.43 ft.	21.79 psi
A+B. Minimum Pressure required at beginning of dripfield		
CALCULATED pressure required at beginning of dripfield	73.58 ft.	31.85 psi
SPECIFIED pressure at beginning of dripfield (from worksht 1)	46.2 ft.	20.00 psi
C. Drip components - Losses through headworks		
Filter	4.6 ft.	2.00 psi
Zone valve pressure loss (not in diagram)	11.55 ft.	5.00 psi
Flow meter pressure loss (not in diagram)	ft.	0.25 psi
Other pressure losses	ft.	- psi
Total loss through drip components	16.17 ft.	7.25 psi
maximum return into system	1.32 gpm	0.72 psi
D. Supply line - Minimum Pressure head required to get from pump tank to top of dripfield		
Size of supply line in inches	.5 inch	
Length of supply line	0 ft.	
Equivalent length of fittings	5 ft.	
Height from pump to tank outlet	5 ft.	
Elevation change. (if downhill enter 0)	0 ft.	
Pressure loss/gain in 100 ft. of pipe	15.26 ft.	6.60 psi
Total gain or loss from pump to field	5.8 ft.	2.49 psi
Total dynamic head	68.1 ft.	29.49 psi
Pump capacity *	2.3 gpm	
Pump Model Number	GLOUDS 20EB0522J	
Voltz / Hp / phase	120 V, 0.5 HP, 1 PHASE	



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