COLUMBIA HYDRONICS COMPANY

"Circulating Satisfaction in the Northwest"

11800 N.E. 60th Way ● P.O. Box 821050 ● Vancouver, WA 98682

☎ PH: (360) 883-2600 FAX: (360) 883-2607 www.columbiahydronics.com

Pressure Booster Worksheet

Job Name:	West Wind	Location:	Portland
Engineer:	MFIA		
Contact:		Sales Engineer:	
Phone:		Phone:	

Calculated Design Load:	140	GPM
Utility Supply Water Pressure:	68	PSI

Supply Pressure Calculations

Water Meter Loss:	7	PSI
Backflow Preventer Loss:	8	PSI
Friction Loss (Main to Booster):	6	PSI
Static Loss (Main to Booster):		PSI
Static Gain (Main to Booster):		PSI
Total Supply Pressure Available:	47	PSI
or, manual enter Total Available Pressure here:		PSI

Discharge Pressure Calculations

Static Lift (in feet): *(top fixture elevation - booster inlet elevation)*	82	Feet
Friction Loss: *(highest loss circuit in building supply)*	15	PSI
PSI required at highest point: *(check fixture requirements; normally 30 PSI)*	30	PSI
Drawdown differential allowance: *(required for 'No-Flow Shutdown' ~ 10 PSI)*	10	PSI
Internal Package Loss: *(usually figure 4 - 6 PSI for internal valves)*	5	PSI
Total Discharge Pressure Required:	96	PSI

Package Pressure Boost Required: 49 PSI