



WATER ENERGY DISTRIBUTORS, INC.

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Supply and Return Pipe Sizing Guide Technical Bulletin 2007-08

GENERAL		NOTES																								
<table border="1"><thead><tr><th>Pipe Size ID (inches)</th><th>Flow Rate (gal/min)</th></tr></thead><tbody><tr><td>$\frac{3}{4}$</td><td>6</td></tr><tr><td>1</td><td>12</td></tr><tr><td>1 $\frac{1}{4}$</td><td>20</td></tr><tr><td>1 $\frac{1}{2}$</td><td>30</td></tr><tr><td>2</td><td>50</td></tr><tr><td>2 $\frac{1}{2}$</td><td>70</td></tr><tr><td>3</td><td>100</td></tr><tr><td>4</td><td>180</td></tr><tr><td>5</td><td>300</td></tr><tr><td>6</td><td>450</td></tr><tr><td>8</td><td>700</td></tr></tbody></table>			Pipe Size ID (inches)	Flow Rate (gal/min)	$\frac{3}{4}$	6	1	12	1 $\frac{1}{4}$	20	1 $\frac{1}{2}$	30	2	50	2 $\frac{1}{2}$	70	3	100	4	180	5	300	6	450	8	700
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<p>Note: Applicable for plastic or copper pipe per effective 100 foot run. Size pipe for maximum flow at lowest applicable temperature during heating cycle and for highest applicable temperature during cooling cycle.</p> <p>Size soft plastic pipe with insertion fittings one size larger.</p> <p>Design velocity – 5 fps, assumed point of turbulent and noisy flow. Suction pipe size shall not be less than pump fitting.</p> <p>Derived From: Standards of the Hydraulic Institute</p>																										