

WATER PRESSURE DROP TABLE

1/2" I.D. Panel Tubing			
GPM/ TUBE	FT PER 100 FT	GPM/ TUBE	FT PER 100 FT
.05	.01	1.55	7.34
.10	.05	1.60	7.78
.15	.10	1.65	8.24
.20	.17	1.70	8.71
.25	.25	1.75	9.19
.30	.35	1.80	9.68
.35	.47	1.85	10.18
.40	.60	1.90	10.70
.45	.74	1.95	11.22
.50	.91	2.00	11.76
.55	1.08	2.05	12.31
.60	1.27	2.10	12.87
.65	1.47	2.15	13.45
.70	1.69	2.20	14.03
.75	1.92	2.25	14.63
.80	2.16	2.30	15.23
.85	2.42	2.35	15.85
.90	2.68	2.40	16.48
.95	2.97	2.45	17.12
1.00	3.26	2.50	17.77
1.05	3.57	2.55	18.44
1.10	3.89	2.60	19.11
1.15	4.23	2.65	19.80
1.20	4.57	2.70	20.49
1.25	4.93	2.75	21.20
1.30	5.30	2.80	21.92
1.35	5.68	2.85	22.65
1.40	6.08	2.90	23.99
1.45	6.49	2.95	24.14
1.50	6.91	3.00	24.90

1/2" O.D. Connecting Tubing		
GPM/ TUBE	TYPE 'L' FT/100 FT	TYPE 'M' FT/100 FT
.10	.10	.08
.20	.36	.29
.30	.76	.61
.40	1.30	1.04
.50	1.96	1.57
.60	2.75	2.20
.70	3.65	2.93
.80	4.68	3.75
.90	5.81	4.66
1.00	7.07	5.66
1.10	8.43	6.76
1.20	9.90	7.93
1.30	11.48	9.20
1.40	13.17	10.55
1.50	14.96	11.99
1.60	16.86	13.51
1.70	18.86	15.11
1.80	20.96	16.80
1.90	23.16	18.57
2.00	25.47	20.42
2.10	27.88	22.34
2.20	30.38	24.35
2.30	32.98	26.44
2.40	35.69	28.60
2.50	38.49	30.85
2.60	41.38	33.17
2.70	44.38	35.57
2.80	47.46	38.04
2.90	50.65	40.60
3.00	53.92	43.22

NOTES: For Panel Tubing.

1. Flow rates below 0.5 GPM (0.8 FPS Velocity) may result in air venting problems, decreased heat transfer due to low velocities, and are not recommended. Flow rates above 3.00 GPM (4.8 FPS Velocity) are not recommended. (Source - Copper Tube Handbook).
2. For 360° interconnects, add 18" to tube length.
3. For range in tables, pressure drop in u-bends may be ignored.
4. Tube I.D. = .504"

$$\text{Water Velocity (FPS)} = \frac{\text{GPM} \times 0.4085}{(\text{ID Inches})^2}$$

For a 1 GPM Flow:

$$\frac{1 \times 0.4085}{(.504)^2} = 1.6 \text{ FPS}$$