Table 6. Return Pipe Capacities for Low Pressure Systems

Capacity Expressed in Square Feet of Equivalent Direct Radiation

(Reference to this table will be by column letter *M* through *EE*)

This table is based on pipe size data developed through the research investigations of The American Society of Heating and Air-Conditioning Engineers.

Pipe Size Inches	Capacity of Return Mains and Risers																	
	Mains																	
	1/32 Psi or 1/16 Oz Drop per 100 Ft			1/24 Psi or 3/16 Oz Drop per 100 Ft			1/16 Psi or 1 Oz Drop per 100 Ft			1/8 Psi or 2 Oz Drop per 100 Ft			1/4 Psi or 4 Oz Drop per 100 Ft			1/2 Psi or 8 Oz Drop per 100 Ft		
	Wet	Dry	Vac.	Wet	Dry	Vac.	Wet	Dry	Vac.	Wet	Dry	Vac.	Wet	Dry	Vac.	Wet	Dry	Vac.
M	*N*	*O*	*P*	*Q*	*R*	*S*	*T*	*U*	*V*	*W*	*X*	*Y*	*Z*	*AA*	*BB*	*CC*	*DD*	*EE*
3/4	.....	.....	.....	.....	.....	326	.....	.....	400	.....	.....	568	.....	.....	800	.....	.....	1,130
1	500	248	.....	580	285	570	700	320	700	1,000	412	994	1,400	460	1,400	.....	.....	1,980
1 1/4	850	520	.....	990	595	976	1,200	670	1,200	1,700	868	1,700	2,400	962	2,400	.....	.....	3,390
1 1/2	1,350	822	.....	1,570	943	1,550	1,900	1,060	1,900	2,700	1,360	2,700	3,800	1,510	3,800	.....	.....	5,370
2	2,800	1,880	.....	3,240	2,140	3,260	4,000	2,300	4,000	5,600	2,960	5,680	8,000	3,300	8,000	.....	.....	11,300
2 1/2	4,700	3,040	.....	5,300	3,470	5,450	6,700	3,800	6,700	9,400	4,900	9,510	13,400	5,450	13,400	.....	.....	18,900
3	7,500	5,840	.....	8,500	6,250	8,710	10,700	7,000	10,700	15,000	9,000	15,200	21,400	10,000	21,400	.....	.....	30,200
3 1/2	11,000	7,880	.....	13,200	8,800	13,000	16,000	10,000	16,000	22,000	12,900	22,700	32,000	14,300	32,000	.....	.....	45,200
4	15,500	11,700	.....	18,300	13,400	18,000	22,000	15,000	22,000	31,000	19,300	31,200	44,000	21,500	44,000	.....	.....	62,190
5	.....	.....	.....	.....	.....	31,500	.....	.....	38,700	.....	.....	54,900	.....	.....	77,400	.....	.....	109,000
6	.....	.....	.....	.....	.....	50,450	.....	.....	62,000	.....	.....	88,000	.....	.....	124,000	.....	.....	175,000
	Risers																	
3/4	.....	190	.....	.....	190	570	.....	190	700	.....	190	994	.....	190	1,400	.....	.....	1,980
1	.....	450	.....	.....	450	976	.....	450	1,200	.....	450	1,700	.....	450	2,400	.....	.....	3,390
1 1/4	.....	990	.....	.....	990	1,550	.....	990	1,900	.....	990	2,700	.....	990	3,800	.....	.....	5,370
1 1/2	.....	1,500	.....	.....	1,500	3,260	.....	1,500	4,000	.....	1,500	5,680	.....	1,500	8,000	.....	.....	11,300
2	.....	3,000	.....	.....	3,000	5,450	.....	3,000	6,700	.....	3,000	9,510	.....	3,000	13,400	.....	.....	18,900
2 1/2	.....	.....	.....	.....	.....	8,710	.....	.....	10,700	.....	.....	15,200	.....	.....	21,400	.....	.....	30,200
3	.....	.....	.....	.....	.....	13,000	.....	.....	16,000	.....	.....	22,700	.....	.....	32,000	.....	.....	45,200
3 1/2	.....	.....	.....	.....	.....	17,900	.....	.....	22,000	.....	.....	31,200	.....	.....	44,000	.....	.....	62,200
4	.....	.....	.....	.....	.....	31,500	.....	.....	38,700	.....	.....	54,900	.....	.....	77,400	.....	.....	109,000
5	.....	.....	.....	.....	.....	50,500	.....	.....	62,000	.....	.....	88,000	.....	.....	124,000	.....	.....	175,000

Table 7. Return Pipe Capacities for Low Pressure Systems

Capacity Expressed in Pounds per Hour

(Reference to this table will be made by column letter *M* through *EE*)

This table is based on pipe size data developed through the research investigations of The American Society of Heating and Air-Conditioning Engineers.

Pipe Size Inches	Capacity of Return Mains and Risers																	
	Mains																	
	1/16 Psi or 1/8 Oz Drop per 100 Ft			1/24 Psi or 3/16 Oz Drop per 100 Ft			1/16 Psi or 1 Oz Drop per 100 Ft			1/8 Psi or 2 Oz Drop per 100 Ft			1/4 Psi or 4 Oz Drop per 100 Ft			1/2 Psi or 8 Oz Drop per 100 Ft		
	Wet	Dry	Vac.	Wet	Dry	Vac.	Wet	Dry	Vac.	Wet	Dry	Vac.	Wet	Dry	Vac.	Wet	Dry	Vac.
M	*N*	*O*	*P*	*Q*	*R*	*S*	*T*	*U*	*V*	*W*	*X*	*Y*	*Z*	*AA*	*BB*	*CC*	*DD*	*EE*
3/4	.....	.....	.....	.....	.....	42	.....	.....	100	.....	.....	142	.....	.....	200	.....	.....	283
1	125	62	.....	145	71	143	175	80	175	250	103	249	350	115	350	.....	.....	494
1 1/4	213	130	.....	248	149	244	300	168	300	425	217	426	600	241	600	.....	.....	848
1 1/2	338	206	.....	393	236	388	475	265	475	675	340	674	950	378	950	.....	.....	1,340
2	700	470	.....	810	535	815	1,000	575	1,000	1,400	740	1,420	2,000	825	2,000	.....	.....	2,830
2 1/2	1,180	760	.....	1,580	868	1,360	1,680	950	1,680	2,350	1,230	2,380	3,350	1,360	3,350	.....	.....	4,730
3	1,880	1,460	.....	2,130	1,560	2,180	2,680	1,750	2,680	3,750	2,250	3,800	5,350	2,500	5,350	.....	.....	7,560
3 1/2	2,750	1,970	.....	3,300	2,200	3,250	4,000	2,500	4,000	5,500	3,230	5,680	8,000	3,580	8,000	.....	.....	11,300
4	3,880	2,930	.....	4,580	3,350	4,500	5,500	3,750	5,500	7,750	4,830	7,810	11,000	5,380	11,000	.....	.....	15,500
5	.....	.....	.....	.....	.....	7,880	.....	.....	9,680	.....	.....	13,700	.....	.....	19,400	.....	.....	27,300
6	.....	.....	.....	.....	.....	12,600	.....	.....	15,500	.....	.....	22,000	.....	.....	31,000	.....	.....	43,800
	Risers																	
3/4	.....	48	.....	.....	48	143	.....	48	175	.....	48	249	.....	48	350	.....	.....	494
1	.....	113	.....	.....	113	244	.....	113	300	.....	113	426	.....	113	600	.....	.....	848
1 1/4	.....	248	.....	.....	248	388	.....	248	475	.....	248	674	.....	248	950	.....	.....	1,340
1 1/2	.....	375	.....	.....	375	815	.....	375	1,000	.....	375	1,420	.....	375	2,000	.....	.....	2,830
2	.....	750	.....	.....	750	1,360	.....	750	1,680	.....	750	2,380	.....	750	3,350	.....	.....	4,730
2 1/2	.....	.....	.....	.....	.....	2,180	.....	.....	2,680	.....	.....	3,800	.....	.....	5,350	.....	.....	7,560
3	.....	.....	.....	.....	.....	3,250	.....	.....	4,000	.....	.....	5,680	.....	.....	8,000	.....	.....	11,300
3 1/2	.....	.....	.....	.....	.....	4,480	.....	.....	5,500	.....	.....	7,810	.....	.....	11,000	.....	.....	15,500
4	.....	.....	.....	.....	.....	7,880	.....	.....	9,680	.....	.....	13,700	.....	.....	19,400	.....	.....	27,300
5	.....	.....	.....	.....	.....	12,600	.....	.....	15,500	.....	.....	22,000	.....	.....	31,000	.....	.....	43,800