Table 3. Capacity Tables for Warm-Air and Return-Air Branches[a,b]

FIRST STORY

For Uninsulated Metal Ducts	Actual Length (from bonnet to boot) or, (from return plenum to boot) in feet								Warm Air Combination No.	Return Air Combination No.
	1 to 7 ft	8 to 12 ft	13 to 17 ft	18 to 24 ft	25 to 34 ft	35 to 44 ft	45 to 54 ft	55 to 64 ft		
	Col. A	Col. B	Col. C	Col. D	Col. E	Col. F	Col. G	Col. H		
Section A.	7200	6700	6100	5600	4800	4100	3500	3000	41	51
	12500	11700	10800	9900	8500	7400	6400	5500	42	52
40 to 69	16000	15000	14000	13000	11300	9900	8700	7700	43	53
Equivalent	19100	18000	17000	16000	14200	12500	11000	9600	44	54
Ft for										
Fittings	25000	23400	21600	19800	17000	14800	12800	11000	45[c]	55
and	32000	30000	28000	26000	22600	19800	17400	15400	46[c]	56
Register	80000	75000	70000	65000	56500	49500	43500	38500	----	57[c]
Section B.	5500	5100	4800	4500	3900	3400	3000	2600	41	51
	9900	9200	8600	8100	7100	6200	5400	4600	42	52
70 to 99	13100	12300	11600	10900	9700	8500	7500	6500	43	53
Equivalent	16300	15400	14500	13700	12200	10800	9500	8300	44	54
Ft										
	19800	18400	17200	16200	14200	12400	10800	9200	45[c]	55
	26200	24600	23200	21800	19400	17000	15000	13000	46[c]	56
	65500	61500	58000	54500	48500	42500	37500	32500	----	57[c]
Section C.	4400	4200	3900	3700	3200	2900	2600	2300	41	51
	8100	7600	7100	6600	5800	5100	4500	4000	42	52
100 to 139	10800	10100	9600	9000	8000	7100	6200	5400	43	53
Equivalent	13700	12900	12100	11300	10000	8900	7900	7000	44	54
Ft										
	16200	15200	14200	13200	11600	10200	9000	8000	45[c]	55
	21600	20200	19200	18000	16000	14200	12400	10800	46[c]	56
	54000	50500	48000	45000	40000	35500	31000	27000	----	57[c]
Section D.	3900	3700	3500	3300	2900	2500	2200	2000	41	51
	6900	6500	6100	5700	5100	4500	4000	3600	42	52
140 to 189	9300	8700	8100	7600	6800	6000	5300	4700	43	53
Equivalent	11600	11000	10400	9800	8700	7700	6800	6000	44	54
Ft										
	13800	13000	12200	11400	10200	9000	8000	7200	45[c]	55
	18600	17400	16200	15200	13600	12000	10600	9400	46[c]	56
	46500	43500	40500	38000	34000	30000	26500	23500	----	57[c]
Section E.	3300	3100	2900	2700	2500	2200	1900	1700	41	51
	5700	5400	5100	4800	4300	3800	3400	3000	42	52
190 to 250	7800	7300	6900	6500	5700	5000	4400	3900	43	53
Equivalent	9700	9100	8600	8100	7300	6500	5800	5100	44	54
Ft										
	11400	10800	10200	9600	8600	7600	6800	6000	45[c]	55
	15600	14600	13800	13000	11400	10000	8800	7800	46[c]	56
	39000	36500	34500	32500	28500	25000	22000	19500	----	57[c]

For Insulated Ducts	Col. A	Col. B	Col. C	Col. D	Col. E	Col. F	For ducts that are completely insulated with ½ in. thick insulation from Bonnet to Boot, use these column headings.
	1 to 9 ft	10 to 17 ft	18 to 24 ft	25 to 34 ft	35 to 54 ft	55 to 74 ft	

[a] These tables are for use in sizing **both the warm air and the return air branches.**

[b] Frictional resistances and temperature drops in ducts have both been accounted for in these tables.

[c] Use these items only when the building construction, or capacity requirements, necessitate the use of two adjoining stacks or floor registers.

Table 4. Capacity Tables for Warm-Air and Return Air Branches[a,b]

SECOND STORY

For Uninsulated Metal Ducts	Actual Length (from bonnet to boot) or, (from return plenum to boot) in feet								Warm Air Combination No.	Return Air Combination No.
	1 to 7 ft	8 to 12 ft	13 to 17 ft	18 to 24 ft	25 to 34 ft	35 to 44 ft	45 to 54 ft	55 to 64 ft		
	Col. A	Col. B	Col. C	Col. D	Col. E	Col. F	Col. G	Col. H		
Section A.	6300	5700	5200	4800	4100	3500	3100	2800	41	51
	10900	10000	9200	8500	7300	6400	5600	5000	42	52
40 to 69	14000	13000	12100	11400	10000	8800	7800	6800	43	53
Equivalent	17000	15900	14900	13900	12400	11100	9900	9000	44	54
Ft for										
Fittings	21800	20000	18400	17000	14600	12800	11200	10000	45[c]	55
and	28000	26000	24200	22400	20000	17600	15600	13600	46[c]	56
Register	70000	65000	60500	57000	50000	44000	39000	34000	----	57[c]
Section B.	5000	4600	4300	4000	3400	3000	2700	2300	41	51
	9000	8200	7600	7100	6200	5400	4700	4200	42	52
70 to 99	11900	11000	10300	9600	8400	7500	6700	6000	43	53
Equivalent	14800	13900	13000	12200	10800	9600	8500	7500	44	54
Ft										
	18000	16400	15200	14200	12400	10800	9400	8400	45[c]	55
	23900	22000	20600	19200	16800	15000	13400	12000	46[c]	56
	59500	55000	51500	48000	42000	37500	33500	30000	----	57[c]
Section C.	4100	3800	3600	3400	2900	2600	2300	2000	41	51
	7400	6900	6400	6000	5200	4600	4000	3600	42	52
100 to 139	10000	9300	8700	8100	7100	6200	5500	4800	43	53
Equivalent	12500	11600	10800	10100	9000	8000	7200	6500	44	54
Ft										
	14800	13800	12800	12000	10400	9200	8000	7200	45[c]	55
	20000	18600	17400	16200	14200	12400	11000	9600	46[c]	56
	50000	46500	43500	40500	35500	31000	27500	24000	----	57[c]
Section D.	3700	3400	3100	2900	2600	2200	2000	1800	41	51
	6500	6000	5600	5300	4700	4100	3700	3300	42	52
140 to 189	8600	8000	7500	7000	6100	5400	4800	4300	43	53
Equivalent	10900	10100	9400	8800	7800	6900	6100	5400	44	54
Ft										
	13000	12000	11200	10600	9400	8200	7400	6600	45[c]	55
	17200	16000	15000	14000	12200	10800	9600	8600	46[c]	56
	43000	40000	37500	35000	30500	27000	24000	21500	----	57[c]
Section E.	3200	2900	2700	2500	2200	1900	1700	1500	41	51
	5500	5200	4800	4400	3900	3400	3100	2800	42	52
190 to 250	7300	6800	6300	5900	5100	4500	3900	3500	43	53
Equivalent	9100	8500	7900	7500	6600	5900	5200	4700	44	54
Ft										
	11000	10400	9600	8800	7800	6800	6200	5600	45[c]	55
	14600	13600	12600	11800	10200	9000	7800	7000	46[c]	56
	36500	34000	31500	29500	25500	22500	19500	17500	----	57[c]

For Insulated Ducts	Col. A	Col. B	Col. C	Col. D	Col. E	Col. F	Col. G	For ducts that are completely insulated with ½ in. thick insulation from Bonnet to Boot use these column headings.
	1 to 8 ft	9 to 14 ft	15 to 20 ft	21 to 27 ft	28 to 42 ft	43 to 54 ft	55 to 70 ft	

[a] These tables are for use in sizing **both the warm air and the return air branches.**

[b] Frictional resistance and temperature drops in ducts have both been accounted for in these tables.

[c] Use these items only when the building construction, or capacity requirements, necessitate the use of two adjoining stacks or floor registers.