

Ductulated

(0.09 - 0.10 pressure drop per 100' EL)

AIRFLOW	SUPPLY OR RETURN			
CFM	DUCT SIZE			
35	4" RD	6" x 2-1/4"		
65	5" RD	10" x 2-1/4"		
108	6" RD	10" x 3-1/4"	5" x 6"	
160	7" RD	12" x 3-1/4"	5" x 8"	
240	8" RD	14" x 3-1/4"	6" x 8"	
300	9" RD	8" x 8"		
400	10" RD	10" x 8"		
500		12" x 8"	10" x 10"	
600		14" x 8"	12" x 10"	
700	12" RD	16" x 8"		
800		18" x 8"	14" x 10"	12" x 12"
1000	14" RD	20" x 8"	16" x 10"	14" x 12"
1200		24" x 8"	18" x 10"	16" x 12"
1300		26" x 8"	20" x 10"	
1400		28" x 8"	22" x 10"	18" x 12"
1500	16" RD	30" x 8"		
1600		32" x 8"	24" x 10"	
1700		34" x 8"		20" x 12"
1800			26" x 10"	
1900		36" x 8"	28" x 10"	22" x 12"
2000	18" RD	38" x 8"	30" x 10"	
2200		40" x 8"	32" x 10"	24" x 12"
2650	20" RD		36" x 10"	30" x 12"

Return air cavity

CFM	Return Air
525	10" joist (16" center)
375	8" joist (16" center)
445	6" truss (24" center)
180	2x4 wall studs (16" center)

OVAL PIPE



Diameter	Actual length of diameter	Height
5"	6"	2-1/2"
6"	7-9/16"	2-7/8"
7"	9-1/8"	3"
8"	10-1/2"	3-1/16"

Comparison of Wall Stack to Oval Pipe			
<p>5" OVAL 3 1/4" X 8"</p>	<p>6" OVAL 3 1/4" X 10"</p>	<p>7" OVAL 3 1/4" X 12"</p>	<p>8" OVAL 3 1/4" X 14"</p>

Branch Duct	Circumference	Area (Sq In)	Capacity (CFM)
5" Round	15.7"	19.6	65
6" Round	18.8"	28.3	108
7" Round	22.0"	38.5	160
8" Round	25.1"	50.2	240
5" Oval	15.7"	17.2	60
6" Oval	18.8"	22.2	78
7" Oval	22.0"	27.3	104
8" Oval	25.1"	32.2	190
3 1/4" x 8" Stack	22.5"	26	82
3 1/4" x 10" Stack	26.5"	32.5	108
3 1/4" x 12" Stack	30.5"	39	134
3 1/4" x 14" Stack	34.5"	45.5	165

Thermal Capacities

CFM	Heating BTU	Cooling BTU	Round (in)	Rectangular (in)	
65	4,400	1,820	5		10 x 2-1/4
108	7,400	3,640	6	5 x 6	10 x 3-1/4
160	11,200	5,560	7	5 x 8	12 x 3-1/4
240	17,400	8,500	8	6 x 8	14 x 3-1/4
300	22,200	11,200	9	8 x 8	
400	30,000	14,400	10	10 x 8	