

**The Carnes Model AVBA**, by-pass unit, provides variable air volume to individual zones while by-passing the unneeded air to the ceiling plenum for recirculation.

Although zone air volumes in small buildings may vary greatly, the cost of fan controls many times cannot be justified. Zone variable air volumes are realized with the by-pass unit while the supply fan delivers a constant CFM.

The AVBA is compatible with reverse or direct acting pneumatic or electric thermostats. Zone thermostats directly controlling the by-pass damper assures that only the air that is needed is delivered to the zone.

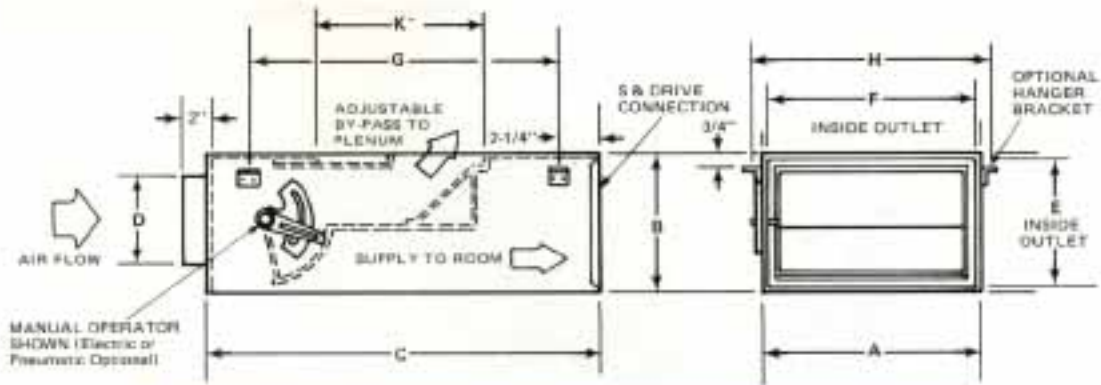
Downstream duct work pressure losses can be matched by adjusting an integral by-pass balancing damper.

Model AVBA units are available in open-end and multi-discharge configurations.

#### **Other Features Include:**

- Air flow capacities to 3,200 CFM.
- Low pressure drop.
- Low sound levels.
- Thermally and acoustically insulated casing.
- Open-end discharge units are provided with S and drive connection for easy installation.
- Multi-discharge units have round outlet connections with integral balancing dampers.
- Balancing damper in by-pass is standard.
- Air flow sensor at inlet is standard.
- Optional hanger brackets.

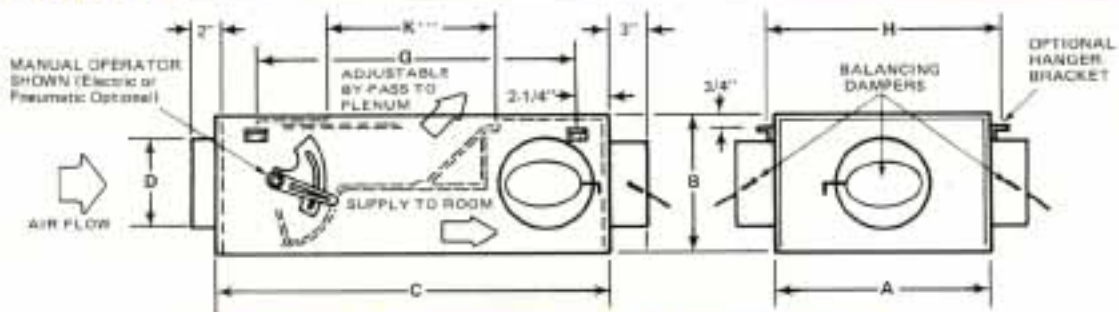
OPEN END DISCHARGE



Size	CFM	A (Inches)	B (Inches)	C (Inches)	D (Inches)	S & Drive Outlet		G (Inches)	H (Inches)	K (Inches)	Weight Lbs.
						E (Inches)	F (Inches)				
02	200	13	8	23 1/2	5	8	13	13 1/2	14	5 1/2	20
04	400	13	8	23 1/2	7	8	13	13 1/2	14	5 1/2	20
06	600	14	10	23 1/2	9	10	14	13 1/2	15	6 1/2	22
08	800	17	10	23 1/2	10	10	17	13 1/2	18	6 1/2	26
12	1200	20	12	27	12	12	20	16 1/2	21	7 1/2	32
16	1600	22	14	29	14	14	22	18 1/2	23	8 1/2	40
24	2400	26	16	31	16	16	26	20 1/2	27	9 1/2	58
32	3200	32	18	40	20	20	32	24 1/2	33	11 1/2	77

○ Indicates elliptical  
\*By-Pass Opening = K x A

MULTI-DISCHARGE



Unit Size	CFM	A (Inches)	B (Inches)	C (Inches)	D (Inches)	G (Inches)	H (Inches)	K (Inches)	Weight Lbs.
02	200	13	8	23 1/2	5	13 1/2	14	5 1/2	22
04	400	13	8	23 1/2	7	13 1/2	14	5 1/2	22
06	600	14	10	23 1/2	9	13 1/2	15	6 1/2	24
08	800	17	10	23 1/2	10	13 1/2	18	6 1/2	28
12	1200	20	12	27	12	16 1/2	21	7 1/2	36
16	1600	22	14	29	14	18 1/2	23	8 1/2	46
24	2400	26	16	31.41"	16	20 1/2	27	9 1/2	64
32	3200	32	18	40	20	24 1/2	33	11 1/2	86

1/2" INCH DIMENSION FOR L AND M ARRANGEMENTS ONLY  
3/4" INCH DIMENSION FOR L AND M ARRANGEMENTS ONLY  
\*By-Pass Opening = K x A  
○ Indicates elliptical

OUTLET ARRANGEMENT — Top View

Unit Size	B	E	N					
	C	G	K	J	P	L	M	S
	D	H						
02	B	B		B				
04	B	B		B				
06	B or B	B or B		B or B				
08	B	B or B	B	B or B	B			
12		B or B	B or B	B or B	B or B			
16		B	B	B	B			
24				B	B	B	B	B
32					B	B	B	B

B indicates B round, E indicates E round.

AVBA-HPV-CO  
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