

**MODEL: APM3
PERFORATED MODULAR CORE DIFFUSER
T-BAR, ROUND NECK**

NOMINAL NECK SIZE	NECK VELOCITY, FPM VP	300	400	500	600	700	800	1000
	TP	.016	.031	.041	.065	.092	.124	.163
	FLOW RATE, CFM	60	80	100	115	135	155	195
6" DIA.	4-WAY	1-1-1	1-1-2	1-1-3	1-1-4	1-2-5	1-2-5	2-3-7
	3-WAY	1-1-3	1-2-5	2-3-6	2-3-7	3-4-9	3-5-10	4-6-13
	2-WAY	1-1-3	1-1-4	1-2-5	1-3-7	1-4-8	2-4-9	3-5-11
	1-WAY	1-1-4	1-1-7	1-2-8	1-4-10	2-5-12	3-7-14	5-8-16
	NC	-	-	16	21	26	30	37
	TP	.015	.027	.043	.062	.084	.110	.171
	FLOW RATE, CFM	105	140	175	210	245	280	350
8" DIA.	4-WAY	1-1-2	1-1-4	1-2-5	1-2-6	1-3-7	2-4-8	3-5-10
	3-WAY	1-2-5	1-3-7	2-4-8	3-5-10	4-6-12	4-7-14	5-8-17
	2-WAY	1-1-4	1-2-6	1-3-8	2-4-9	3-5-11	3-6-13	5-8-16
	1-WAY	1-2-7	1-4-10	2-5-13	4-7-15	5-8-17	6-10-19	8-13-21
	NC	-	13	20	25	30	34	41
	TP	.019	.033	.052	.075	.102	.133	.208
	FLOW RATE, CFM	165	220	270	325	380	435	545
10" DIA.	4-WAY	1-1-4	1-1-6	1-3-7	1-4-9	2-5-10	3-6-12	5-7-13
	3-WAY	1-3-6	2-4-8	3-5-11	4-6-13	5-7-15	6-9-17	7-11-19
	2-WAY	1-1-6	1-3-8	2-5-10	3-6-13	4-7-15	5-8-17	7-10-19
	1-WAY	1-4-10	3-7-14	5-9-18	7-10-20	8-12-21	8-14-23	12-18-26
	NC	-	16	23	28	33	37	44
	TP	.023	.040	.063	.091	.124	.162	.253
	FLOW RATE, CFM	235	315	390	470	550	630	785
12" DIA.	4-WAY	1-1-6	1-2-8	2-4-10	2-5-12	3-7-13	5-8-14	6-10-16
	3-WAY	1-3-8	3-5-11	4-6-13	5-8-15	6-9-17	7-11-18	9-13-20
	2-WAY	1-2-8	2-5-11	3-6-13	5-8-16	6-9-17	7-11-18	9-13-20
	1-WAY	3-7-14	5-9-18	8-12-21	9-14-23	11-17-25	13-19-27	16-21-30
	NC	-	19	26	31	36	40	47
	TP	.027	.049	.076	.110	.148	.196	.304
	FLOW RATE, CFM	320	425	533	640	750	855	1070
14" DIA.	4-WAY	1-2-8	1-4-11	2-5-13	4-8-14	5-9-16	7-11-16	9-13-18
	3-WAY	2-4-10	3-6-12	5-8-13	6-10-15	7-11-16	8-12-17	11-13-19
	2-WAY	1-4-10	3-6-13	5-8-15	6-10-16	7-11-18	8-13-18	11-15-21
	1-WAY	4-8-19	6-13-22	10-16-24	13-19-27	15-20-29	17-22-31	20-24-35
	NC	14	23	30	35	40	44	51
	TP	.033	.059	.092	.132	.180	.235	.368
	FLOW RATE, CFM	420	560	700	835	975	1115	1295
16" DIA.	4-WAY	1-3-10	2-5-13	3-8-15	5-10-16	7-12-17	8-13-19	12-15-21
	3-WAY	3-5-9	5-7-10	6-8-11	7-9-12	8-9-13	8-10-14	9-11-16
	2-WAY	2-5-11	4-8-13	6-10-14	8-11-16	8-12-17	10-13-18	12-14-20
	1-WAY	7-12-21	11-17-24	14-19-27	17-21-30	18-23-32	20-24-35	22-27-39
	NC	15	24	31	36	41	45	52

Balancing:

It is recommended that a commercially available 'Flow Hood' is used for field balancing. The air flow meter directly reads average flow rate with great accuracy at all volumes. It is a much faster and more accurate alternative to time consuming multiple velocity readings, eliminating the use of Ak factors and the calculations required to convert the average velocity into air flow.

FORMERLY MODEL 51-MAC-RD

CFM	Cubic feet per minute
FPM	Feet per minute velocity
TP	Total pressure - inches w.g.
VP	Velocity pressure - inches w.g.
T	Throw in feet
NC	Noise criteria (values) based on 10 dB room absorption, re 10 (to 12th power) watts.

Performance notes:

- Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions
- Data derived from tests conducted in accordance with ISO Standard 5219, ISO Standard 3741 and ADC Test Code 1062 GRDB4.

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PERFORMANCE DATA
**MODEL: APM3
PERFORATED MODULAR CORE DIFFUSER
T-BAR, SQUARE NECK**

NOMINAL NECK SIZE	NECK VELOCITY, FPM VP	300	400	500	600	700	800
	TP	.028	.047	.075	.103	.146	.188
	FLOW RATE, CFM	75	100	125	150	175	200
6" X 6"	4-WAY	3-4-7	4-6-8	5-7-9	6-7-10	6-8-11	7-8-12
	3-WAY	3-5-9	4-7-10	5-8-11	7-9-12	8-10-13	8-10-14
	2-WAY	4-7-12	6-9-14	7-11-15	9-12-17	10-13-18	11-14-19
	1-WAY	6-8-15	7-11-17	9-13-19	11-15-21	13-16-22	14-17-24
	NC	-	-	20	25	32	37
	FLOW RATE, CFM	133	178	222	267	311	356
8" X 8"	4-WAY	3-5-10	4-6-11	5-8-13	6-10-14	8-11-15	9-11-16
	3-WAY	4-6-12	5-8-14	6-10-15	8-12-17	9-13-18	10-14-19
	2-WAY	5-8-15	7-10-18	9-13-20	10-16-22	12-17-24	14-18-26
	1-WAY	6-10-19	9-13-23	11-16-25	13-19-28	15-21-30	17-23-32
	NC	-	-	23	29	35	40
	FLOW RATE, CFM	208	278	347	417	486	556
10" X 10"	4-WAY	4-6-11	5-8-14	6-10-16	8-12-17	9-13-19	10-14-20
	3-WAY	4-7-14	6-9-17	8-11-19	9-14-21	11-16-22	12-17-24
	2-WAY	6-9-18	8-12-23	10-15-25	12-18-28	14-21-30	16-23-32
	1-WAY	7-11-23	10-15-28	13-19-32	15-23-35	18-26-37	20-28-40
	NC	-	17	25	32	37	42
	FLOW RATE, CFM	300	400	500	600	700	800
12" X 12"	4-WAY	4-7-13	6-9-17	7-11-19	9-13-21	10-16-22	12-17-24
	3-WAY	5-8-16	7-11-20	9-13-23	11-16-25	13-19-27	14-20-29
	2-WAY	6-11-21	10-14-27	12-18-30	14-21-33	17-25-36	19-27-38
	1-WAY	8-13-27	12-18-34	15-22-38	18-27-42	21-34-45	23-34-48
	NC	-	19	27	34	39	44
	FLOW RATE, CFM	408	544	681	817	953	1089
14" X 14"	4-WAY	4-8-15	7-10-20	9-13-22	10-15-24	12-18-28	14-20-28
	3-WAY	5-9-18	8-12-24	10-15-27	12-19-29	14-22-31	16-24-34
	2-WAY	7-12-25	11-16-32	14-21-35	16-25-39	19-29-42	22-32-45
	1-WAY	9-15-31	14-21-40	17-25-44	21-31-49	24-36-52	27-40-55
	NC	-	21	29	35	41	46
	FLOW RATE, CFM	469	625	781	938	1094	1250
15" X 15"	4-WAY	5-8-16	7-11-21	9-14-24	11-16-26	13-19-28	15-21-30
	3-WAY	5-10-20	9-13-25	11-16-28	13-20-31	15-23-34	18-25-36
	2-WAY	7-13-26	12-18-34	15-22-38	18-26-42	20-31-45	23-34-48
	1-WAY	9-16-33	15-22-42	18-27-47	22-33-52	26-38-56	29-42-60
	NC	-	21	29	36	41	46
	FLOW RATE, CFM	633	711	889	1067	1244	1422
16" X 16"	4-WAY	5-9-17	8-12-23	10-15-25	12-17-28	14-20-30	16-23-32
	3-WAY	6-10-21	9-14-27	12-17-30	14-21-33	16-24-36	19-27-38
	2-WAY	8-14-28	12-19-36	16-23-40	19-28-44	22-33-48	25-36-51
	1-WAY	10-17-35	16-23-45	19-29-51	23-35-55	24-41-60	31-45-64
	NC	-	22	30	37	42	47
	FLOW RATE, CFM	675	900	1125	1350	1575	1800
18" X 18"	4-WAY	5-10-20	9-13-25	11-16-28	13-20-31	15-23-34	17-25-36
	3-WAY	8-12-23	10-16-31	13-20-34	16-23-37	18-27-40	21-31-43
	2-WAY	8-16-31	14-21-41	17-26-46	21-31-50	24-36-54	28-41-58
	1-WAY	11-20-39	17-29-51	22-33-57	26-39-62	30-46-67	35-51-72
	NC	-	23	31	38	43	48

FORMERLY MODEL MAC-PERF-TB

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| Performance notes:
<ol style="list-style-type: none"> Tested in accordance with ASHRAE Standard 70-1991 "Method of Testing for Rating the Performance of Air Outlets and Inlets." Air flow is in cubic feet per minute, cfm. All pressures are in inches of water. To obtain static pressure, subtract the velocity pressure at the top of the column from the listed total pressure. | <ol style="list-style-type: none"> Throw values are given in feet to terminal velocities of 150 fpm (min.), 100 fpm (middle) and 50 fpm (max.). Throw data is based on supply air and room air being at isothermal conditions. The NC values, sound pressure level, are based on a room absorption of 10 dB re 10⁻¹² watts and one diffuser. Blanks (—) indicate an NC level below 15 dB. |
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