

MODELS: APM1, APM5  
 PERFORATED MODULAR CORE DIFFUSER  
 SURFACE MOUNT, SQUARE NECK

NOMINAL NECK SIZE	NECK VELOCITY, FPM VP	300	400	500	600	700	800
	TP	.028	.047	.075	.103	.146	.188
	<b>FLOW RATE, CFM</b>	<b>59</b>	<b>79</b>	<b>78</b>	<b>118</b>	<b>137</b>	<b>157</b>
6" X 6"	4-WAY	2-3-7	3-4-8	4-5-8	4-7-9	5-7-10	6-8-11
	3-WAY	3-4-8	4-5-9	4-7-10	5-8-11	6-8-12	7-9-13
	2-WAY	4-5-10	5-7-12	6-9-13	7-10-15	8-11-16	9-12-17
	1-WAY	4-7-13	6-9-15	7-11-17	9-13-18	10-14-20	12-15-21
	NC	-	-	19	25	31	35
	<b>FLOW RATE, CFM</b>	<b>105</b>	<b>140</b>	<b>175</b>	<b>209</b>	<b>244</b>	<b>279</b>
8" X 8"	4-WAY	2-4-8	3-5-10	4-6-11	5-8-12	6-9-13	7-10-14
	3-WAY	2-5-9	4-6-12	5-8-13	6-9-15	7-11-16	8-12-17
	2-WAY	3-6-12	5-8-16	7-10-18	8-12-20	9-14-21	11-16-23
	1-WAY	4-8-15	7-10-20	8-13-22	10-15-25	12-18-27	14-20-28
	NC	-	-	22	28	34	38
	<b>FLOW RATE, CFM</b>	<b>164</b>	<b>218</b>	<b>273</b>	<b>327</b>	<b>382</b>	<b>436</b>
10" X 10"	4-WAY	2-5-9	4-6-12	5-8-14	6-9-15	7-11-17	8-12-18
	3-WAY	3-5-11	5-7-14	6-9-17	7-11-18	8-13-20	10-14-21
	2-WAY	3-7-14	6-10-19	8-12-22	10-14-25	11-17-27	13-19-28
	1-WAY	4-9-18	8-12-24	10-15-28	12-18-31	14-21-33	16-24-35
	NC	-	16	24	30	36	41
	<b>FLOW RATE, CFM</b>	<b>236</b>	<b>314</b>	<b>393</b>	<b>471</b>	<b>550</b>	<b>628</b>
12" X 12"	4-WAY	2-5-11	4-7-14	6-9-17	7-11-18	8-12-20	9-14-21
	3-WAY	3-6-13	5-8-17	7-11-20	8-13-22	10-15-24	11-17-26
	2-WAY	4-8-17	7-11-22	9-14-27	11-17-29	13-20-32	15-22-34
	1-WAY	5-11-21	9-14-28	12-18-34	14-21-37	16-25-40	19-28-43
	NC	-	18	26	32	38	43
	<b>FLOW RATE, CFM</b>	<b>321</b>	<b>428</b>	<b>535</b>	<b>641</b>	<b>748</b>	<b>855</b>
14" X 14"	4-WAY	3-6-12	5-8-16	7-10-20	8-12-21	9-14-23	11-16-25
	3-WAY	3-7-15	6-10-19	8-12-24	10-15-26	11-17-28	13-19-30
	2-WAY	4-10-19	8-13-26	11-16-31	13-19-34	15-23-37	17-26-40
	1-WAY	5-12-24	10-16-32	13-20-39	16-24-43	19-28-46	22-32-50
	NC	-	19	27	34	39	44
	<b>FLOW RATE, CFM</b>	<b>368</b>	<b>491</b>	<b>614</b>	<b>736</b>	<b>859</b>	<b>982</b>
15" X 15"	4-WAY	3-6-13	5-9-17	7-11-21	9-13-23	10-15-25	11-17-27
	3-WAY	3-8-15	6-10-21	9-13-25	10-15-28	12-18-30	14-21-32
	2-WAY	5-10-21	8-14-28	11-17-34	14-21-37	16-24-40	18-28-43
	1-WAY	6-13-26	10-17-34	14-22-42	17-26-46	20-30-50	23-34-53
	NC	-	20	28	35	40	45
	<b>FLOW RATE, CFM</b>	<b>419</b>	<b>559</b>	<b>698</b>	<b>838</b>	<b>977</b>	<b>1117</b>
16" X 16"	4-WAY	3-7-14	5-9-18	8-11-22	9-14-25	11-16-27	12-18-28
	3-WAY	4-8-16	6-11-22	9-14-27	11-16-29	13-19-32	15-22-34
	2-WAY	5-11-22	8-15-29	12-18-36	15-22-39	17-26-42	20-29-45
	1-WAY	6-13-27	11-18-37	15-23-45	18-27-49	21-32-53	24-37-57
	NC	-	21	29	35	41	46
	<b>FLOW RATE, CFM</b>	<b>530</b>	<b>707</b>	<b>884</b>	<b>1060</b>	<b>1237</b>	<b>1414</b>
18" X 18"	4-WAY	3-7-15	6-10-20	9-13-25	10-15-28	12-18-30	14-20-32
	3-WAY	4-9-18	7-12-25	10-15-30	12-18-33	14-21-36	16-25-38
	2-WAY	5-12-25	9-16-33	14-20-40	16-25-44	19-29-48	22-33-51
	1-WAY	7-15-31	12-20-41	17-26-50	20-31-55	24-36-60	27-41-64
	NC	-	22	30	37	42	47

FORMERLY MODEL MAC-PERF-S

**Performance notes:**

1. Tested in accordance with ASHRAE Standard 70-1991 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cubic feet per minute, cfm.
3. 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.
4. Throw values are given in feet to terminal velocities of 150 fpm (min.), 100 fpm (middle) and 50 fpm (max.).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. The NC values, sound pressure level, are based on a room absorption of 10 dB re 10<sup>-12</sup> watts and one diffuser.
7. Blanks (—) indicate an NC level below 15 dB.