

MODEL: APDBS
 PERFORATED FIBERGLASS DUCTBOARD DIFFUSER
 T-BAR, ROUND NECK (FIELD CUT)

NOMINAL NECK SIZE	NECK VELOCITY, FPM	300	400	500	600	700	800	1000	1200
	TP	.008	.010	.015	.023	.031	.040	.052	.063
	TP	.008	.013	.021	.030	.040	.052	.081	.118
	FLOW RATE, CFM	60	80	100	120	140	160	200	235
6" DIA.	4-WAY	2	2	3	3	4	5	6	7
	3-WAY	2	3	4	4	5	7	7	8
	2-WAY	3	4	4	5	6	8	8	9
	1-WAY	4	4	5	6	7	8	9	10
	FLOW RATE, CFM	80	108	135	160	190	215	270	320
7" DIA.	4-WAY	2	3	3	4	4	7	7	7
	3-WAY	2	4	4	5	5	8	8	8
	2-WAY	3	4	5	6	6	9	9	9
	1-WAY	4	4	5	7	7	10	10	10
	FLOW RATE, CFM	105	140	175	210	245	280	350	420
8" DIA.	4-WAY	2	2	3	4	6	8	9	11
	3-WAY	2	2	4	5	7	9	10	12
	2-WAY	3	3	5	6	8	10	11	13
	1-WAY	4	4	6	7	9	11	12	14
	FLOW RATE, CFM	155	175	220	215	310	355	440	530
9" DIA.	4-WAY	2	2	4	6	6	8	9	10
	3-WAY	3	3	5	6	7	10	10	12
	2-WAY	3	4	6	7	8	11	11	13
	1-WAY	4	5	7	8	9	12	12	15
	FLOW RATE, CFM	165	220	270	325	380	435	545	655
10" DIA.	4-WAY	3	3	5	5	6	8	10	12
	3-WAY	3	4	6	6	7	10	12	14
	2-WAY	4	5	7	7	8	11	13	15
	1-WAY	5	6	8	8	9	12	14	16
	FLOW RATE, CFM	235	315	390	470	550	630	705	945
12" DIA.	4-WAY	3	5	7	8	9	10	12	13
	3-WAY	4	6	8	9	10	11	11	14
	2-WAY	5	7	9	10	11	12	14	15
	1-WAY	6	8	10	11	12	13	15	16
	FLOW RATE, CFM	320	415	530	817	740	850	1060	1270
14" DIA.	4-WAY	5	6	9	11	12	13	13	13
	3-WAY	6	7	10	12	13	15	15	14
	2-WAY	7	8	11	13	15	16	17	16
	1-WAY	8	9	12	14	16	17	18	17
	FLOW RATE, CFM	420	560	750	840	980	1180	1400	1660
16" DIA.	4-WAY	5	7	10	11	13	14	16	16
	3-WAY	6	8	12	13	14	16	17	16
	2-WAY	6	9	13	15	15	16	19	18
	1-WAY	7	10	14	16	17	19	20	20

FORMERLY MODEL FR-4104

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:

1. Tested in accordance with ASHRAE Standard 70-1991 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. All pressures are in inches of water.
3. Throw values listed are based on surface mounted units, with the air patterns benefiting from the extended surface effect. Minimum throw values refer to a terminal velocity (V_t) of 150 fpm ($V_t=150$), middle to 100 fpm ($V_t=100$) and maximum to 50 fpm ($V_t=50$), with a cooling temperature differential of 20°F. The throw values may be increased or decreased 20% by changing the vane settings.
4. The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts.
5. These data are based on an opening of about 1/8" between the frame and the first vane, and progressively wider spacings between vanes away from the frame. The setting will cause the air to be discharge parallel to the face of the diffuser (horizontal discharge if installed in ceiling). If the vanes are adjusted to the full open position, the listed NC values will be reduced by 7 and the total pressure will be 0.30 times that shown in the tables.
6. Blanks (-) indicates NC levels below 15 dB.