

MODEL: CB
 CURVED BLADE DIFFUSER
 SURFACE MOUNT

NOMINAL NECK SIZE	NECK VELOCITY, FPM	100	200	300	400	500	600	700	800	900	1000
	VP	.001	.002	.006	.010	.016	.022	.031	.040	.051	.062
	TP	.003	.014	.031	.056	.090	.131	.175	.225	.290	.355
	FLOW RATE, CFM	20	40	60	80	100	120	140	160	180	200
6" X 6"	4-WAY	-	-	4-5-9	5-8-13	6-9-15	8-11-18	9-13-21	10-15-24	11-17-27	12-18-29
	3-WAY	-	-	4-6-10	6-9-14	7-10-16	8-12-20	10-14-23	11-15-25	12-18-29	13-20-32
	2-WAY	-	-	5-7-11	6-9-15	8-11-18	9-14-22	10-16-25	12-18-29	13-20-32	15-22-35
	1-WAY	-	-	6-9-14	8-11-18	9-14-22	11-16-26	12-19-30	14-21-34	16-24-38	18-26-42
	NC	-	-	-	16	22	27	31	34	37	40
	FLOW RATE, CFM	35	70	105	140	175	210	245	280	315	350
8" X 8"	4-WAY	-	3-4-7	4-6-10	6-9-15	8-11-18	9-13-21	10-16-25	12-18-28	13-19-31	14-21-34
	3-WAY	-	3-5-8	5-7-12	6-9-15	8-12-19	10-14-23	11-16-26	14-19-30	14-21-33	15-23-37
	2-WAY	-	4-6-9	5-8-13	7-11-17	9-13-21	10-16-25	12-18-29	14-21-33	15-23-37	12-26-41
	1-WAY	-	4-6-10	7-10-16	9-13-21	10-16-25	12-19-30	15-22-35	17-25-40	18-27-44	20-31-49
	NC	-	-	11	18	24	29	33	37	39	42
	FLOW RATE, CFM	60	125	185	250	310	370	435	495	560	620
10" X 10"	4-WAY	2-3-4	4-6-9	5-8-13	7-11-17	9-13-21	10-16-25	12-18-28	13-20-32	15-22-36	17-25-40
	3-WAY	2-3-5	4-6-9	6-9-14	8-11-18	9-14-22	11-17-27	13-19-31	14-21-34	16-24-39	18-27-43
	2-WAY	2-3-5	4-6-10	6-9-15	8-12-20	10-16-25	12-18-29	14-21-34	16-24-38	18-27-43	20-29-47
	1-WAY	2-4-6	5-7-12	8-11-18	10-15-24	12-19-30	15-22-35	17-26-41	19-29-46	21-32-51	24-36-57
	NC	-	-	-	21	27	32	36	39	42	45
	FLOW RATE, CFM	85	175	260	350	435	520	610	695	785	870
12" X 12"	4-WAY	2-3-5	4-6-9	6-9-14	8-12-19	10-14-23	11-17-27	13-19-31	15-22-35	16-24-39	18-27-43
	3-WAY	2-3-5	4-6-10	6-9-15	8-12-20	10-16-25	12-18-29	14-21-33	15-23-37	17-26-41	19-29-46
	2-WAY	2-4-6	5-7-11	7-11-17	9-14-22	11-17-27	13-20-32	15-23-37	18-26-42	20-31-49	22-32-52
	1-WAY	3-4-7	6-9-14	8-12-20	11-16-26	13-20-32	16-24-39	19-29-45	21-31-50	25-35-56	26-39-63
	NC	-	-	15	22	28	33	37	40	43	46
	FLOW RATE, CFM	125	250	375	500	625	750	875	1000	1120	1250
14" X 14"	4-WAY	2-3-5	4-6-10	6-9-15	8-12-20	10-16-25	12-18-29	14-21-34	16-24-38	18-27-43	20-29-47
	3-WAY	2-4-6	5-7-11	7-10-16	9-14-22	11-17-27	13-20-32	15-23-37	17-26-41	19-29-46	21-32-51
	2-WAY	2-4-6	5-7-12	8-11-18	10-15-24	12-19-30	15-22-35	17-26-41	19-29-46	21-32-51	24-36-57
	1-WAY	3-5-8	6-9-15	9-14-22	12-18-29	15-22-35	18-26-42	20-30-48	23-34-55	26-39-62	29-43-69
	NC	-	-	16	24	30	34	38	42	45	48
	FLOW RATE, CFM	155	305	460	610	765	920	1070	1220	1380	1530
16" X 16"	4-WAY	2-4-6	5-7-11	7-10-16	9-13-21	11-16-26	13-19-31	15-22-36	17-25-40	19-28-45	21-31-50
	3-WAY	2-4-6	5-7-12	7-11-17	10-14-23	12-18-28	14-21-33	16-24-39	18-27-44	20-31-49	22-34-54
	2-WAY	3-4-7	5-8-13	8-12-19	10-16-25	13-20-32	15-23-37	18-27-43	20-30-48	23-34-55	25-37-60
	1-WAY	3-5-8	7-10-16	10-14-23	12-19-30	15-23-37	18-27-44	21-32-51	24-36-58	27-41-65	30-46-73
	NC	-	-	17	25	31	36	40	43	46	49

FORMERLY MODEL V-440

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.

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 CURVED BLADE DIFFUSER
 SURFACE MOUNT

NOMINAL NECK SIZE	NECK VELOCITY, FPM	100	200	300	400	500	600	700	800	900	1000
	VP	.001	.002	.006	.010	.016	.022	.031	.040	.051	.062
	TP	.003	.014	.031	.056	.090	.131	.175	.225	.290	.355
	FLOW RATE, CFM	210	420	630	840	1050	1260	1470	1690	1890	2100
18" X 18"	4-WAY	2-4-6	5-7-11	8-11-18	10-14-23	12-18-28	14-21-34	16-24-39	18-27-44	20-31-49	23-34-55
	3-WAY	2-4-6	5-7-12	8-11-18	10-15-24	12-18-29	15-22-35	17-25-40	19-28-45	21-32-51	24-36-57
	2-WAY	3-4-7	6-9-14	8-12-20	11-17-27	14-21-33	16-24-39	19-28-45	21-31-50	24-36-57	26-39-63
	1-WAY	3-5-8	7-10-16	10-15-24	13-20-32	16-24-39	19-29-46	22-34-55	26-39-62	29-44-70	33-50-80
	NC	-	-	19	26	32	37	41	44	47	50
	FLOW RATE, CFM	270	535	805	1070	1340	1610	1880	2140	2410	2680
20" X 20"	4-WAY	3-4-7	5-8-13	8-12-19	10-16-25	12-19-30	15-22-36	18-26-42	20-29-47	22-32-52	25-37-59
	3-WAY	3-4-7	6-9-14	8-12-20	11-16-26	14-21-33	16-24-39	19-28-45	21-31-50	24-36-57	26-39-63
	2-WAY	3-5-8	6-9-15	9-14-22	12-18-29	15-22-36	20-30-48	20-31-49	23-35-56	26-39-62	29-44-70
	1-WAY	4-6-9	8-11-18	11-17-27	15-22-35	18-27-43	21-32-51	25-37-59	28-41-66	31-47-75	35-53-85
	NC	-	-	20	27	33	38	42	45	48	51
	FLOW RATE, CFM	290	575	865	1155	1440	1730	2020	2305	2595	2885
22" X 22"	4-WAY	3-4-7	5-8-13	8-12-18	11-16-25	13-18-30	15-22-36	17-26-42	19-30-48	22-34-53	25-38-60
	3-WAY	3-4-7	6-9-14	9-13-20	11-16-26	14-20-33	16-24-39	18-28-45	21-31-50	24-37-57	27-40-64
	2-WAY	3-5-8	7-10-16	10-15-23	12-18-29	16-23-37	18-27-44	20-31-49	23-35-56	26-41-63	29-45-71
	1-WAY	4-6-10	8-12-18	12-17-27	15-20-37	18-27-44	21-32-51	25-38-60	28-42-67	32-49-77	36-54-86
	NC	-	-	19	27	32	37	41	44	47	50
	FLOW RATE, CFM	365	730	1100	1460	1820	2190	2560	2920	3280	3650
24" X 24"	4-WAY	3-4-7	6-9-14	8-12-20	11-17-27	14-21-33	16-24-39	19-28-45	21-31-50	24-36-57	27-40-64
	3-WAY	3-5-8	6-9-15	9-14-22	12-18-28	15-22-35	18-26-42	20-30-48	23-34-55	25-38-61	28-42-68
	2-WAY	3-5-8	7-10-16	10-15-24	13-20-32	16-24-39	19-29-46	22-34-54	25-37-60	28-42-68	32-48-76
	1-WAY	4-6-10	8-12-20	12-18-29	15-23-37	19-29-46	23-34-55	27-40-64	30-45-72	34-51-82	38-57-92
	NC	-	-	21	29	35	38	43	47	50	53

FORMERLY MODEL V-440

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