

Performance Data



CB10 & CB20 Series

Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM)	400			500			600			700			800			1000		
		Total Pressure	0.038			0.108			0.155			0.206			0.252			0.379		
4x4	0.072	CFM	29			36			43			50			57			72		
		NC	<20			<20			<20			<20			20			20		
		2-Way Throw (ft.)	3	4	7	5	6	8	6	7	10	6	8	12	8	10	15	9	12	17
		1-Way Throw (ft.)	4	5	8	5	7	10	6	8	12	8	10	15	9	12	17	12	15	19
4x6	0.113	CFM	45			56			68			79			90			113		
		NC	<20			<20			<20			<20			20			20		
		2-Way Throw (ft.)	4	5	8	5	6	10	6	8	12	8	10	14	9	12	17	11	14	19
		1-Way Throw (ft.)	5	6	9	5	7	11	7	9	14	9	11	17	11	14	19	13	17	22
6x6	0.176	CFM	70			88			105			123			141			176		
		NC	<20			<20			<20			<20			20			20		
		2-Way Throw (ft.)	5.0	6	9	5	7	11	7	9	13	9	11	16	10	13	19	12	16	21
		1-Way Throw (ft.)	4	6	11	6	8	13	9	11	16	10	13	19	13	16	22	15	19	25
10x6	0.302	CFM	121			151			181			211			242			302		
		NC	<20			<20			<20			<20			20			25		
		2-Way Throw (ft.)	4	6	10	6	8	12	8	10	15	10	12	18	12	15	21	14	18	24
		1-Way Throw (ft.)	5	7	12	8	10	14	9	12	18	11	14	21	14	18	25	16	21	28
8x8	0.326	CFM	130			163			195			228			261			326		
		NC	<20			<20			<20			<20			20			25		
		2-Way Throw (ft.)	5	7	12	7	9	14	9	12	17	11	14	21	14	17	24	16	21	28
		1-Way Throw (ft.)	6	8	14	9	11	16	11	14	20	13	16	24	16	20	28	19	24	32
14x6	0.428	CFM	171			214			257			300			342			428		
		NC	<20			<20			<20			20			25			25-30		
		2-Way Throw (ft.)	6	8	13	9	11	16	10	13	20	13	16	24	16	20	28	9	24	32
		1-Way Throw (ft.)	7	9	15	9	12	19	12	15	23	15	19	28	18	23	32	22	28	37
10x10	0.521	CFM	209			261			313			365			417			521		
		NC	<20			<20			20			20-25			25			25-30		
		2-Way Throw (ft.)	7	9	15	9	12	18	12	15	23	15	18	27	18	23	31	21	27	36
		1-Way Throw (ft.)	8	11	18	11	14	21	14	18	26	17	21	31	20	26	37	24	31	42
12x10	0.630	CFM	252			315			378			441			504			630		
		NC	<20			<20			20			20-25			25			25-30		
		2-Way Throw (ft.)	8	10	17	11	14	21	13	17	26	17	21	31	20	26	36	24	31	41
		1-Way Throw (ft.)	9	12	20	12	16	24	16	20	30	19	24	36	23	30	42	28	36	48
12x12	0.763	CFM	305			382			458			534			611			763		
		NC	<20			<20			20			20-25			25			25-30		
		2-Way Throw (ft.)	9	12	20	12	16	23	16	20	29	18	23	35	22	29	41	27	35	47
		1-Way Throw (ft.)	11	14	23	13	18	27	18	23	34	21	27	41	26	34	48	32	41	54
14x14	1.051	CFM	420			525			630			736			841			1051		
		NC	<20			<20			20			25			25-30			30		
		2-Way Throw (ft.)	10	13	22	13	18	27	17	22	33	21	27	40	25	33	46	31	40	53
		1-Way Throw (ft.)	12	16	26	16	21	31	21	26	39	24	31	46	30	39	54	35	46	62

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Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM)	400			500			600			700			800			1000		
		Total Pressure	0.038			0.108			0.155			0.206			0.252			0.379		
16x16	1.384	CFM	554			692			830			969			1107			1384		
		NC	<20			<20			20			25			25-30			30		
		2-Way Throw (ft.)	11	15	25	15	20	30	20	25	38	23	30	45	29	38	53	35	45	60
		1-Way Throw (ft.)	13	18	29	18	24	35	23	29	44	27	35	53	34	44	62	41	53	70
18x18	1.763	CFM	705			882			1058			1234			1411			1763		
		NC	<20			<20			20			25			25-30			30		
		2-Way Throw (ft.)	13	17	29	17	23	34	23	29	43	26	34	52	33	43	60	40	52	69
		1-Way Throw (ft.)	14	20	34	21	27	40	28	34	50	31	40	60	40	50	70	47	60	80
20x20	2.189	CFM	875			1094			1313			1532			1751			2189		
		NC	<20			<20			20			25			25-30			30		
		2-Way Throw (ft.)	14	20	33	20	26	39	27	33	49	30	39	59	39	49	68	46	59	78
		1-Way Throw (ft.)	16	23	38	25	31	46	30	38	57	36	46	68	45	57	80	53	68	91
24x24	3.177	CFM	1271			1588			1906			2224			2541			3177		
		NC	<20			<20			25			25-30			30			30-35		
		2-Way Throw (ft.)	16	22	37	24	30	45	29	37	56	35	45	67	44	56	78	52	67	89
		1-Way Throw (ft.)	18	26	43	28	35	52	34	43	65	40	52	78	51	65	91	61	78	104
30x30	5.003	CFM	2001			2501			3002			3502			4002			5003		
		NC	<20			<20			25			25-30			30			30-35		
		2-Way Throw (ft.)	18	26	42	27	34	51	33	42	63	41	51	76	50	63	89	59	76	101
		1-Way Throw (ft.)	21	30	49	32	40	59	39	49	74	46	59	89	57	74	103	68	89	118
36x36	7.242	CFM	2897			3621			4345			5069			5794			7242		
		NC	<20			20-25			25-30			30			30-35			35-40		
		2-Way Throw (ft.)	20	29	48	31	39	58	38	48	72	45	58	87	56	72	101	67	87	115
		1-Way Throw (ft.)	24	34	56	35	45	67	45	56	84	51	67	101	65	84	118	80	101	135

Performance Notes:

- 1) Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- 2) Throw data is based on supply air and room air both at isothermal conditions
- 3) Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air
- 4) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006