

Performance Data



CSW Industrials Companies

850-0 Series

Size	Eff. Area (ft ²)	Eff. Area (ft ²)	Velocity Duct Pt.	300	400	500	600	700	800	900	1000	1200
				0.006	0.010	0.016	0.023	0.031	0.040	0.051	0.063	0.090
6x4	0.078	0.078	CFM	23	31	39	47	54	62	70	78	93
			NC	<20	20	25	25	30	30	35	35	40
			Spread	3.5	5	8	6	8	10	11	12	15
			Throw	1 2 2	1 2 3	2 2.5 4	2 3 4	3 3.5 5	4 4.5 6	4 4.5 7	4 5 7	5 6 9
8x4	0.108	0.108	CFM	33	43	54	65	76	87	98	108	130
			NC	<20	20	25	25	30	30	35	35	40
			Spread	4	6	7	9	10	12	13	15	18
			Throw	1 2 2	2 2.5 3.5	3 3.5 4.5	3 4 5	4 4.5 6	4 5 7	5 6 8	5 6 9	5 6 9
10x4	0.140	0.140	CFM	42	56	70	84	98	112	126	140	168
			NC	<20	20	25	25	30	30	35	35	40
			Spread	5	7	8.5	10	12	14	15	17	20
			Throw	1 2 3	2 2.5 4	3 3.5 5	4 4.5 6	4 5 7	5 6 8	5 6 9	5 6.5 10	7 8 12
12x4	0.171	0.171	CFM	51	68	85	102	120	137	154	171	205
			NC	<20	20	25	25	30	35	35	40	40
			Spread	5.5	7	9	11	13	15	17	19	22
			Throw	2 2.5 3.5	3 3.5 4.5	4 4.5 5.5	4 5 7	5 6 8	5 6 8	6 6.5 9.5	6 7 11	8 9 13
14x4	0.202	0.202	CFM	61	81	101	121	141	161	182	202	242
			NC	<20	20	25	25	30	35	35	40	40
			Spread	6	8	10	12	14	16	18	20	24
			Throw	2 2.5 4	3 3.5 5	4 4.5 6	4 5 7	5 6 8	6 7 9	6 7 11	7 8 12	8 9.5 15
8x6	0.184	0.184	CFM	55	73	92	110	128	147	165	184	220
			NC	<20	20	25	25	30	35	35	40	40
			Spread	5.5	7	9	11	13	15	17	19	22
			Throw	2 2.5 3.5	3 3.5 4.5	4 4.5 5.5	4 5 7	5 6 8	5 6 8	5 6.5 9.5	6 7 11	8 9 13
10x6	0.236	0.236	CFM	71	94	118	142	165	189	212	236	283
			NC	<20	20	25	25	30	35	35	40	40
			Spread	6	9	11	13	15	17	19	22	26
			Throw	2 2.5 4	3 3.5 5	4 4.5 6	5 6 8	6 7 9	6 7 11	7 8 12	8 9 13	9 10.5 16
12x6	0.288	0.288	CFM	87	115	144	173	202	231	260	288	346
			NC	<20	20	25	30	35	35	40	40	
			Spread	5	7	9	14	16	19	21	23	26
			Throw	1 2 2	3 3.5 4.5	4 4.5 5.5	5 6 8	6 7 9	6 7.5 10.5	7 8.5 12.5	8 9.5 14.5	9 11 17
14x6	0.341	0.341	CFM	102	136	170	205	239	273	307	341	409
			NC	<20	20	25	30	35	35	40	40	
			Spread	7	10	12	14.5	17	19	22	24	29
			Throw	2 3 4	4 4.5 6	5 5.5 7	5 6 8	6 7 9	7 8.5 12	8 9 13	8 9.5 15	10 11.5 17
16x6	0.393	0.393	CFM	118	157	197	236	275	315	354	393	472
			NC	<20	20	25	30	35	35	40	40	45
			Spread	9	12	16	18	21	24	26	30	36
			Throw	3 4 5	5 5.5 6.5	6 6.5 8	6 7 9.5	7 8.5 11.5	8 10 13	9 10.5 15.5	9 11 17	12 14 20
18x6	0.446	0.446	CFM	134	178	223	267	312	357	401	446	535
			NC	<20	20	25	25	30	35	40	40	40
			Spread	10	13	16	20	23	26	30	33	39
			Throw	4 4.5 6	6 6.5 8	6 7 9	7 8.5 12	8 10 14	9 11 15	10 12 18	11 13 19	13 16 24
20x6	0.498	0.498	CFM	149	199	249	299	349	399	448	498	598
			NC	<20	20	25	30	35	40	40	40	45
			Spread	10	13	16	20	23	26	30	33	39
			Throw	4 4.5 5.5	6 6.5 7.5	6 7 9	7 8.5 11.5	8 10 15	9 11 16	11 13 19	12 14 20	14 17 25
24x6	0.603	0.603	CFM	181	241	302	362	422	482	543	603	724
			NC	<20	20	25	30	35-40	40	40-45	40-45	>45
			Spread	10	13	16	20	23	26	30	33	39
			Throw	4 4.5 6	6 6.5 8	6 7 9	7 8.5 12	8 10 16	9 11 17	12 14 20	13 15 21	15 18 26

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Size	Eff. Area (ft ²)	Eff. Area (ft ²)	Velocity Duct Pt.	300 0.006	400 0.010	500 0.016	600 0.023	700 0.031	800 0.040	900 0.051	1000 0.063	1200 0.090															
10x8	0.303	0.303	CFM	91	121	152	182	212	243	273	303	364															
			NC	<20	20	25	30	35	35	40	40	45															
			Spread	8	11	14	17	20	22	24	28	33															
			Throw	3	3.5	5	4	5	6	6	6.5	8	6	7	9	7	8.5	12	8	9.5	13	8	9.5	15	9	11	17
12x8	0.371	0.371	CFM	111	148	185	222	260	297	334	371	445															
			NC	<20	20	25	30	35	35	40	40	45															
			Spread	9	12	16	18	21	24	26	30	36															
			Throw	3	4	5	5	5.5	6.5	6	7	8.5	7	7.5	10.5	7	8.5	11.5	8	10	14	9	11	18	10	12	18
14x8	0.438	0.438	CFM	131	175	219	263	307	351	394	438	526															
			NC	<20	20	25	30	35	40	40	45																
			Spread	9	12	16	19	22	25	28	31	38															
			Throw	3	4	5.5	5	5.5	7	6	7	8.5	7	8	11	7	9	14	8	10	15	10	12	19	10	13	20
16x8	0.506	0.506	CFM	152	202	253	303	354	405	455	506	607															
			NC	<20	20	25	30	35	40	40	45																
			Spread	10	13	16	20	23	26	30	33	39															
			Throw	4	4.5	6	6	6.5	8	6	7	9	7	8.5	12	8	10	16	9	11	17	10	12	20	11	13	22
18x8	0.573	0.573	CFM	172	229	287	344	401	458	516	573	688															
			NC	<20	20	25	30	35-40	40	40-45	40-45	>45															
			Spread	10	13	16	20	23	26	30	33	39															
			Throw	4	4.5	5.5	6	6.5	7.5	6	7	9	7	8.5	11.5	8	10	17	9	11	18	11	13	21	12	14	24
6x6	0.109	0.109	CFM	33	43	54	65	76	87	98	109	130															
			NC	<20	20	25	25	30	30	35	40	40															
			Spread	7	9.5	12	14	16	19	21	24	28															
			Throw	2	2.5	3.5	3	3.5	4.5	4	4.5	5.5	4	5	7	5	6	8	5	6	8	5	6.5	9.5	6	7	11
8x8	0.220	0.220	CFM	66	88	110	132	154	176	198	220	264															
			NC	<20	20	25	25	30	30	35	40	40															
			Spread	7	9.5	12	14	16	19	21	24	28															
			Throw	2	3	4	4	4.5	5.5	5	5.5	6.5	5	6	8	6	7	9	7	7.5	10.5	8	9	13	8	9.5	14.5
10x10	0.394	0.394	CFM	118	158	197	236	276	315	354	394	473															
			NC	<20	20	25	25	30	30	35	40	40															
			Spread	7	9.5	12	14	16	19	21	24	28															
			Throw	3	4	5	5	5.5	6.5	6	7	8.5	7	7.5	10.5	7	8.5	11.5	8	10	14	9	11	18	10	12	18
12x12	0.597	0.597	CFM	179	239	298	358	418	477	537	597	716															
			NC	<20	20	25	25	30	30	35	40	40															
			Spread	7	9.5	12	14	16	19	21	24	28															
			Throw	4	4.5	6	6	6.5	8	6	7	9	7	8.5	12	8	10	16	9	11	17	10	12	20	11	13	22
14x14	0.835	0.835	CFM	250	334	417	501	584	668	751	835	1002															
			NC	<20	20	25	25	30	30	35	40	40															
			Spread	7	9.5	12	14	16	19	21	24	28															
			Throw	5	5	6	7	7	9	7	8	10	8	10	13	9	12	20	10	13	21	13	15	24	14	16	28

Performance Notes:

- 1) Throw value was measured in feet for a terminal velocity 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