

Performance Data



931 Series

Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM) Velocity Pressure	300 0.004	400 0.008	500 0.013	600 0.018	700 0.025	800 0.033	1000 0.051	1200 0.074	1400 0.1
6x4	0.122	CFM	36	49	61	73	85	97	122	146	170
		NC	<20	<20	<20	20	25	30	35	40	40
		Throw (ft.)	4 4.5 5.5	5 6 8	6 7 9	7 8 12	8 9 13	11 12 14	12 13 19	13 14 22	16 18 24
10x4	0.210	CFM	63	84	105	126	147	168	210	252	293
		NC	<20	<20	<20	20	25	30	35	40	45
		Throw (ft.)	4 5 6	5 6.5 8.5	8 8.5 9.5	7 8.5 11	10 11 15	11 12 16	13 14 20	14 16 24	18 20 29
8x6 12x4	0.260	CFM	78	104	130	156	182	208	260	312	364
		NC	<20	<20	<20	20	25	30	35	40	45
		Throw (ft.)	5 5.5 6.5	6 7 9	8 9 11	9 10 14	11 12 16	12 13.5 18	14 16 24	16 18 28	19 22 32
14x4	0.298	CFM	89	119	149	179	208	238	298	357	417
		NC	<20	<20	<20	20	25	30	35	40	45
		Throw (ft.)	5 6 7	6 7.5 9.5	9 10 12	10 11 15	12 14 19	13 15 20	16 18 27	18 21 33	21 24 38
10x6 16x4	0.329	CFM	99	132	165	198	231	264	329	395	461
		NC	<20	<20	<20	20	25	30	35	40	45
		Throw (ft.)	5 6.5 7.5	7 8 10	10 11 13	11 12 16	13 14.5 20	14 16 22	17 19 29	19 22 34	22 26 40
12x6 18x4	0.399	CFM	120	159	199	239	279	319	399	478	558
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw (ft.)	6 7 9	9 10 12	10 11.5 14.5	12 13.5 18	14 16 22	16 18 24	19 22 32	22 26 38	25 30 44
10x8 14x6	0.449	CFM	135	180	225	270	314	359	449	539	629
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw (ft.)	7 8 10	10 11 13	11 13 16	14 16 21	15 17 23	18 20 27	20 23 35	24 28 42	27 33 49
12x8 16x6	0.544	CFM	163	217	272	326	381	435	544	652	761
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw (ft.)	8 8.5 11	10 11.5 13.5	12 13.5 17	14 16 22	16 18 25	18 20 28	21 24 36	25 29 45	28 34 52
10x10 18x6	0.569	CFM	171	228	285	341	398	455	569	683	797
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw (ft.)	8 8.5 11	10 11.5 14.5	12 14.5 18	15 17 23	18 20 27	19 22 30	22 26 38	26 31 47	29 36 54
14x8	0.638	CFM	191	255	319	383	447	510	638	766	893
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw (ft.)	8 9 11.5	11 13 16	14 16 19	16 18 24	19 21 28	20 23 31	23 27 39	27 32 48	30 37 55
12x10	0.689	CFM	207	275	344	413	482	551	689	826	964
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw (ft.)	8 9.5 12	12 13.5 17	15 17 20	17 19 25	19 22 29	21 24 32	24 28 40	27 33 49	31 38 56
16x8	0.732	CFM	220	293	366	439	513	586	732	879	1025
		NC	<20	<20	<20	20	25	30	35-40	40-50	>50
		Throw (ft.)	9 10 12.5	12 14 17	15 17 20	17 19 25	20 23 30	22 25 33	25 29 41	29 35 51	32 40 58

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12x12 14x10	0.834	CFM	250	333	417	500	583	667	834	1000	1167
		NC	<20	<20	<20	20	25	30	35-40	40-50	>50
		Throw (ft.)	9 10 12.5	12 14 18	16 18 21	18 20 26	20 23 34	23 26 35	25 30 46	30 36 55	33 42 65
16x10 20x8	0.965	CFM	290	386	483	579	676	772	965	1158	1351
		NC	<20	<20	<20	20	25	30	35-40	40-50	>50
		Throw (ft.)	9 11 13.5	13 15 19	17 19 23	19 21 28	21 24 35	24 28 38	27 33 50	33 41 59	38 47 70
18x10	1.047	CFM	314	419	524	628	733	838	1047	1257	1466
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50
		Throw (ft.)	10 11.5 14	14 16 20	18 20 24	19 22 29	22 25 36	25 29 39	28 34 51	34 42 60	39 48 71
14x14 20x10	1.148	CFM	345	459	574	689	804	919	1148	1378	1608
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50
		Throw (ft.)	10 11.5 14.5	14 16 20	18 20 24	19 22 30	23 26 37	25 30 40	29 35 53	34 42 62	40 49 73
18x12 26x8	1.268	CFM	380	507	634	761	887	1014	1268	1521	1775
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50
		Throw(ft.)	11 12.5 15	14 16 20	18 20 24	20 23 32	23 27 38	26 31 42	29 35 55	35 43 65	43 53 75
16x14	1.318	CFM	396	527	659	791	923	1055	1318	1582	1846
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50
		Throw (ft.)	11 12 15	15 17 21	19 21 24	20 23 33	24 28 39	27 32 43	30 36 56	36 44 66	44 55 77
16x16	1.514	CFM	454	605	757	908	1060	1211	1514	1816	2119
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50
		Throw (ft.)	12 13 16	16 18 22	19 22 26	22 25 35	25 30 41	28 34 46	32 39 60	38 47 71	46 57 83
24x12	1.702	CFM	511	681	851	1021	1191	1362	1702	2042	2383
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50
		Throw (ft.)	13 14.5 18	17 19 23	20 23 28	23 27 37	27 32 43	29 36 48	34 42 64	41 50 76	48 59 89
18x18	1.929	CFM	579	772	965	1158	1350	1543	1929	2315	2701
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50
		Throw (ft.)	13 14.5 19	18 20 24	21 24 30	24 28 38	27 32 44	30 37 51	36 44 66	43 53 79	50 62 94
30x12	2.136	CFM	641	855	1068	1282	1495	1709	2136	2564	2991
		NC	<20	<20	20	25	30	30-35	35-40	45-50	>50
		Throw (ft.)	14 16 20	19 22 26	22 26 32	25 30 40	29 35 47	32 40 54	38 47 71	46 57 85	53 66 98
24x24	3.478	CFM	1043	1391	1739	2087	2435	2782	3478	4174	4869
		NC	<20	20	25	30	30-35	35-40	45-50	>50	>50
		Throw (ft.)	20 23 29	24 29 35	27 33 45	31 38 52	36 44 60	42 52 78	50 62 94	60 73 109	69 85 126

Performance Notes:

- Performance data calculated with blades set at 0°
- Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- Throw data is based on supply air and room air both at isothermal conditions
- Effective core areas listed in chart are defined as the measurement of space between the blades actually utilized by the air
- Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006