



Engineering Data for 903, 904, 933, 934 (Double Deflection A) Series

SIZE	VELOCITY		300	400	500	600	700	800	1000	1200	1400
	DUCT PT.		0.004	0.008	0.013	0.018	0.025	0.033	0.051	0.074	0.1
8x6 12x4	Eff. Area 0.241 ft ²	CFM	75	95	120	145	170	195	240	290	340
		NC	<20	<20	<20	20	25	30	35	40	45
		Throw(ft.)	5.5 6 6.5	7 8 9	9 10 11	10 12 14	12 14 16	13.5 16 18	16 19 22	18 21 24	21 24 27
10x6 16x4	Eff. Area 0.314 ft ²	CFM	95	125	155	190	220	250	315	375	440
		NC	<20	<20	<20	20	25	30	35	40	45
		Throw(ft.)	6.5 7 7.5	8 9 10	11 12 13	12 14 16	14.5 17 20	16 19 22	19 24 29	22 28 34	26 33 40
12x6 18x4	Eff. Area 0.380 ft ²	CFM	115	150	190	230	265	305	380	455	530
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw(ft.)	7 8 9	10 11 12	11.5 13 14.5	13.5 16 18	16 19 22	18 21 24	22 27 32	26 32 38	30 37 44
10x8 14x6	Eff. Area 0.449 ft ²	CFM	135	180	225	270	315	360	450	540	630
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw(ft.)	8 9 10	11 12 13	13.5 15 17	15.5 18 21	17 20 23	20 23 27	23 29 35	28 35 42	33 41 49
12x8 24x4	Eff. Area 0.538 ft ²	CFM	160	215	270	325	375	430	540	645	755
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw(ft.)	9 10 11	11.5 13 14.5	14.5 16 18	17 20 23	20 23 27	22 26 30	26 32 38	31 39 47	36 45 54
10x10 18x6	Eff. Area 0.560 ft ²	CFM	170	225	280	335	390	450	560	670	785
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw(ft.)	8 9 10	10 11 12	12.5 14 15.5	14.5 17 20	17 20 23	20 23 27	22 28 34	27 34 41	31 39 47
12x12 14x10	Eff. Area 0.806 ft ²	CFM	240	320	405	485	565	645	805	965	1130
		NC	<20	<20	<20	20	25	30	35-40	40-50	50>
		Throw(ft.)	9 10 11	11.5 13 14.5	15.5 17 19	17 20 23	20 23 27	22 26 30	26 33 40	32 40 48	37 46 55
14x12 20x8	Eff. Area 0.887 ft ²	CFM	265	355	445	530	620	710	890	1065	1240
		NC	<20	<20	<20	20	25	30	35-40	40-50	50>
		Throw(ft.)	10 11 12	12.5 14 15.5	16 18 20	18 21 24	21 25 29	24 28 32	29 36 43	34 43 52	40 50 60
14x14 20x10	Eff. Area 1.12 ft ²	CFM	335	450	560	670	785	895	1120	1345	1570
		NC	<20	<20	20	25	30	30-35	35-40	40-45	50>
		Throw(ft.)	11.5 13 14.5	16 18 20	20 22 24	22 26 30	26 31 37	30 35 40	35 44 53	42 52 62	49 61 73
18x12 26x8	Eff. Area 1.17 ft ²	CFM	350	470	585	700	820	935	1170	1405	1640
		NC	<20	<20	20	25	30	30-35	35-40	40-45	50>
		Throw(ft.)	11.5 13 14.5	16 18 20	20 22 24	23 27 31	26 31 37	31 36 41	35 44 53	42 53 64	53 62 74



Engineering Data for 903, 904, 933, 934 (Double Deflection A) Series

SIZE	VELOCITY		300	400	500	600	700	800	1000	1200	1400
	DUCT PT.		0.004	0.008	0.013	0.018	0.025	0.033	0.051	0.074	0.1
24x12 28x10	Eff. Area 1.65 ft ²	CFM	495	660	825	990	1155	1320	1650	1980	2310
		NC	<20	<20	20	25	30	30-35	35-40	40-45	50>
		Throw(ft.)	14.5 16 18	19 21 23	23 26 29	27 32 37	32 37 43	36 42 48	42 53 64	50 63 76	59 74 89
18x18 32x10	Eff. Area 1.89 ft ²	CFM	565	755	945	1135	1325	1510	1890	2270	2645
		NC	<20	<20	20	25	30	30-35	35-40	40-45	50>
		Throw(ft.)	14.5 16 18	20 22 24	24 27 30	28 33 38	32 38 44	37 44 51	44 55 66	53 66 79	62 77 94
30x12 26x14	Eff. Area 2.10 ft ²	CFM	630	840	1050	1260	1470	1680	2100	2520	2940
		NC	<20	<20	20	25	30	30-35	35-40	45-50	50>
		Throw(ft.)	16 18 20	22 24 26	26 29 32	30 35 40	35 41 47	40 47 54	47 59 71	57 71 85	66 82 98
36x12 32x14	Eff. Area 2.49 ft ²	CFM	745	995	1245	1495	1745	1990	2490	2990	3485
		NC	<20	<20	20	25	30	30-35	35-40	45-50	50>
		Throw(ft.)	17 19 21	23 26 29	29 32 35	33 39 45	38 45 52	44 52 60	52 65 78	62 78 94	73 91 109



Engineering Data for 903, 904, 933, 934 (Double Deflection B) Series

SIZE	VELOCITY		300	400	500	600	700	800	1000	1200	1400																		
	DUCT PT.		0.004	0.008	0.013	0.018	0.025	0.033	0.051	0.074	0.1																		
8x6 12x4	Eff. Area 0.216 ft ²	CFM	65			85			110			130			150			175			215			260			300		
		NC	<20			<20			<20			20			25			30			35			40			45		
		Throw(ft.)	3.5	4	4.5	5.5	6	6.5	6.5	7	7.5	7	8	9	8.5	10	11.5	9.5	11	12.7	11	14	17	13.5	17	20	16	20	24
10x6 16x4	Eff. Area 0.281 ft ²	CFM	85			110			140			170			195			225			280			335			390		
		NC	<20			<20			<20			20			25			30			35			40			45		
		Throw(ft.)	4.5	5	5.5	6.5	7	7.5	7	8	9	8.5	10	11.5	11	13	15	12	14	16	13.5	17	20	16	20	24	19	24	29
12x6 18x4	Eff. Area 0.341 ft ²	CFM	100			135			170			205			240			275			340			410			475		
		NC	<20			<20			<20			20			25			30			35			40			45-50		
		Throw(ft.)	5.5	6	6.5	6.5	7	7.5	8	9	10	9.5	11	12.5	11	13	15	13	15	17	15	19	23	18	23	28	21	26	31
10x8 14x6	Eff. Area 0.402 ft ²	CFM	120			160			200			240			280			320			400			480			565		
		NC	<20			<20			<20			20			25			30			35			40			45-50		
		Throw(ft.)	5.5	6	6.5	7	8	9	9	10	11	10	12	14	13	15	17	14.5	17	20	17	21	25	20	25	30	23	29	35
12x8 24x4	Eff. Area 0.482 ft ²	CFM	145			195			240			290			335			385			480			580			675		
		NC	<20			<20			<20			20			25			30			35			40			45-50		
		Throw(ft.)	6.5	7	7.5	8	9	10	10	11	12	11	13	15	13	15	17	15	18	21	18	22	26	22	27	32	25	31	37
10x10 18x6	Eff. Area 0.502 ft ²	CFM	150			200			250			300			350			400			500			600			705		
		NC	<20			<20			<20			20			25			30			35			40			45-50		
		Throw(ft.)	5.5	6	6.5	7	8	9	9	10	11	10	12	14	12	14	16	14	16	18	16	20	24	19	24	29	22	28	34
12x12 14x10	Eff. Area 0.722 ft ²	CFM	215			290			360			435			505			580			720			865			1010		
		NC	<20			<20			<20			20			25			30			35-40			45-50			50		
		Throw(ft.)	6.5	7	7.5	9	10	11	11	12	13	12	14	16	14.5	17	20	16	19	22	19	24	29	23	29	35	26	33	40
14x12 20x8	Eff. Area 0.795 ft ²	CFM	240			320			400			475			555			636			795			955			1115		
		NC	<20			<20			<20			20			25			30			35-40			45-50			50		
		Throw(ft.)	11	12	13	13.5	15	17	17	19	21	20	23	27	23	27	31	27	31	36	30	39	46	37	46	55	43	54	65
14x14 20x10	Eff. Area 1.00 ft ²	CFM	300			400			500			600			700			800			1000			1200			1400		
		NC	<20			<20			20			25			30			30-35			35-40			40-45			50>		
		Throw(ft.)	8	9	10	11	12	13	13.5	15	17	14.5	17	20	17	20	23	20	23	27	23	29	35	28	35	42	33	41	50
18x12 26x8	Eff. Area 1.05 ft ²	CFM	315			420			525			630			735			840			1050			1260			1470		
		NC	<20			<20			20			25			30			30-35			35-40			40-45			50>		
		Throw(ft.)	8	9	10	11	12	13	13.5	15	17	15	18	21	18	21	24	20	24	28	23	29	35	28	35	42	33	41	49



Engineering Data for 903, 904, 933, 934 (Double Deflection B) Series

SIZE	VELOCITY		300	400	500	600	700	800	1000	1200	1400
	DUCT PT.		0.004	0.008	0.013	0.018	0.025	0.033	0.051	0.074	0.1
24x12 28x10	Eff. Area 1.48 ft ²	CFM	445	590	740	890	1035	1185	1480	1775	2070
		NC	<20	<20	20	25	30	30-35	35-40	40-45	50>
		Throw(ft.)	10 11 12	12.5 14 15.5	16 18 20	18 21 24	21 25 29	24 28 32	23 29 35	34 43 52	40 50 60
18x18 32x10	Eff. Area 1.69 ft ²	CFM	505	675	845	1015	1185	1350	1690	2030	2365
		NC	<20	<20	20	25	30	30-35	35-40	40-45	50>
		Throw(ft.)	10 11 12	13.5 15 17	17 19 21	19 22 25	22 26 30	25 30 35	30 37 44	36 45 54	42 52 62
30x12 26x14	Eff. Area 1.88 ft ²	CFM	565	750	940	1130	1315	1505	1880	2255	2630
		NC	<20	<20	20	25	30	30-35	35-40	45-50	50>
		Throw(ft.)	13.5 15 17	18 20 22	23 25 28	26 31 36	31 36 41	35 41 47	41 51 61	49 61 73	57 71 85
36x12 32x14	Eff. Area 2.23 ft ²	CFM	670	890	1115	1340	1560	1785	2230	2675	3120
		NC	<20	<20	20	25	30	30-35	35-40	45-50	50>
		Throw(ft.)	11.5 13 14.5	16 18 20	20 22 24	23 27 31	26 31 36	31 36 41	36 45 54	43 54 65	50 62 74



Engineering Data for 903, 904, 933, 934 (Double Deflection C) Series

SIZE	VELOCITY		300	400	500	600	700	800	1000	1200	1400
	DUCT PT.		0.005	0.01	0.016	0.023	0.031	0.041	0.064	0.093	0.125
8x6 12x4	Eff. Area 0.190 ft ²	CFM	55	75	95	115	135	150	190	230	265
		NC	<20	<20	<20	20	25	30	35	40	45
		Throw(ft.)	2.5 3 3.5	3.5 4 4.5	4.5 5 5.5	5 6 7	6 7 8	7 8 9	8 10 12	9.5 12 14.5	10.5 13 15.5
10x6 16x4	Eff. Area 0.248 ft ²	CFM	75	100	125	150	175	200	250	300	350
		NC	<20	<20	<20	20	25	30	35	40	45
		Throw(ft.)	2.5 3 3.5	4.5 5 5.5	5.5 6 6.5	6 7 8	7 8 9	7.5 9 10.5	9 11 13	11 14 17	13 16 19
12x6 18x4	Eff. Area 0.300 ft ²	CFM	90	120	150	180	210	240	300	360	420
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw(ft.)	3.5 4 4.5	4.5 5 5.5	5.5 6 6.5	6 7 8	7 8 9	8.5 10 11.5	9.5 12 14.5	11 14 17	13.5 17 20
10x8 14x6	Eff. Area 0.355 ft ²	CFM	105	140	180	215	250	285	355	425	495
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw(ft.)	3.5 4 4.5	4.5 5 5.5	6.5 7 7.5	7 8 9	8.5 10 11.5	9.5 10 11.5	10.5 13 15.5	13 16 19	15 19 23
12x8 24x4	Eff. Area 0.425 ft ²	CFM	130	170	210	255	300	340	425	510	595
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw(ft.)	3.5 4 4.5	5 5.5 6.5	6.5 7 7.5	7 8 9	8.5 10 11.5	9.5 11 12.5	11 14 17	13.5 17 20	16 20 24
10x10 18x6	Eff. Area 0.442 ft ²	CFM	135	175	220	265	310	355	442	530	620
		NC	<20	<20	<20	20	25	30	35	40	45-50
		Throw(ft.)	3.5 4 4.5	4.5 5 5.5	6.5 7 7.5	7 8 9	7.5 9 10.5	9.5 11 12.5	10.5 13 15.5	13 16 19	15 19 23
12x12 14x10	Eff. Area 0.638 ft ²	CFM	190	255	320	385	445	510	640	765	895
		NC	<20	<20	<20	20	25	30	35-40	40-45	50>
		Throw(ft.)	4.5 5 5.5	5.5 6 6.5	7 8 9	8.5 10 11.5	9.5 11 12.5	11 13 15	13 16 19	15 19 23	18 22 26
14x12 20x8	Eff. Area 0.701 ft ²	CFM	210	280	350	420	490	560	700	840	980
		NC	<20	<20	<20	20	25	30	35-40	40-45	50>
		Throw(ft.)	4.5 5 5.5	5.5 6 6.5	7 8 9	8.5 10 11.5	9.5 11 12.5	11 13 15	13 16 19	15 19 23	16 20 24
14x14 20x10	Eff. Area .885 ft ²	CFM	265	355	440	530	620	710	885	1060	1240
		NC	<20	<20	20	25	30	30-35	35-40	40-45	50>
		Throw(ft.)	4.5 5 5.5	6.5 7 7.5	8 9 10	9.5 11 12.5	10 12 14	12 14 16	14.5 18 22	17 21 25	20 25 30
18x12 26x8	Eff. Area .924 ft ²	CFM	275	370	460	555	645	740	925	1110	1295
		NC	<20	<20	20	25	30	30-35	35-40	40-45	50>
		Throw(ft.)	5.5 6 6.5	6.5 7 7.5	8 9 10	9.5 11 12.5	11 13 15	13 15 17	15 19 23	18 22 26	21 26 31



Engineering Data for 903, 904, 933, 934 (Double Deflection C) Series

SIZE	VELOCITY		300	400	500	600	700	800	1000	1200	1400
	DUCT PT.		0.005	0.01	0.016	0.023	0.031	0.041	0.064	0.093	0.125
24x12 28x10	Eff. Area 1.30 ft ²	CFM	390	520	650	780	910	1040	1300	1560	1820
		NC	<20	<20	20	25	30	30-35	35-40	40-45	50>
		Throw(ft.)	5.5 6 6.5	7 8 9	9 10 11	10 12 14	13 15 17	14.5 17 20	17 21 25	20 25 30	23 29 35
18x18 32x10	Eff. Area 1.49 ft ²	CFM	445	595	745	895	1045	1190	1490	1790	2085
		NC	<20	<20	20	25	30	30-35	35-40	40-45	50>
		Throw(ft.)	6.5 7 7.5	9 10 11	11 12 13	12 14 16	14.5 17 20	16 19 22	19 24 29	23 29 35	26 33 40
30x12 26x14	Eff. Area 1.66 ft ²	CFM	500	665	830	995	1160	1330	1660	1990	2325
		NC	<20	<20	20	25	30	30-35	35-40	45-50	50>
		Throw(ft.)	7 8 9	9 10 11	11 12 13	12 15 17	14.5 17 20	17 20 23	20 25 30	24 30 36	28 35 42
36x12 32x14	Eff. Area 1.98 ft ²	CFM	595	790	990	1190	1385	1585	1980	2375	2770
		NC	<20	<20	20	25	30	30-35	35-40	45-50	50>
		Throw(ft.)	7 8 9	10 11 12	12.5 14 15.5	14.5 17 20	16 19 22	19 22 25	22 28 34	26 33 40	31 39 47