

**Performance Data**

**Models: 50F, 50F-NT, 50R-SS and 50FF**

Performance based on nominal sizes shown in bold.

Nominal Duct Size (in.)	Nominal Duct Area sq. ft	Core Area sq. ft	Core Velocity Velocity Pressure 1x1x1 Neg. Ps ½x½x½ Neg. Ps	300			400			500			600			700			800			1000			1200			1400		
				0.006	0.01	0.016	0.006	0.01	0.016	0.022	0.031	0.04	0.022	0.031	0.04	0.031	0.04	0.062	0.031	0.04	0.062	0.04	0.062	0.09	0.04	0.062	0.09	0.062	0.09	0.122
6x6	0.25	0.19	Airflow, cfm NC	57	76	95	114	133	152	170	204	238	272	311	350	384	423	462	496	535	574	608	647	686	719	758	797	836	875	914
8x6	0.33	0.26	Airflow, cfm NC	78	104	130	156	182	208	234	270	306	342	378	414	450	486	522	558	594	630	666	702	738	774	810	846	882	918	954
10x6	0.42	0.34	Airflow, cfm NC	102	136	170	204	238	272	306	340	374	408	442	476	510	544	578	612	646	680	714	748	782	816	850	884	918	952	986
8x8	0.44	0.37	Airflow, cfm NC	111	148	185	222	259	296	333	370	407	444	481	518	555	592	629	666	703	740	777	814	851	888	925	962	1000	1037	1074
12x6	0.50	0.41	Airflow, cfm NC	123	164	205	246	287	328	369	410	451	492	533	574	615	656	697	738	779	820	861	902	943	984	1025	1066	1107	1148	1189
14x6	0.58	0.48	Airflow, cfm NC	144	192	240	288	336	384	432	480	528	576	624	672	720	768	816	864	912	960	1008	1056	1104	1152	1200	1248	1296	1344	1392
16x6	0.67	0.57	Airflow, cfm	171	228	285	342	399	456	513	570	627	684	741	798	855	912	969	1026	1083	1140	1197	1254	1311	1368	1425	1482	1539	1596	1653
12x8			NC	-	-	-	12	18	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113	119	125	131	137	143	149
10x10	0.69	0.59	Airflow, cfm NC	177	236	295	354	413	472	531	590	649	708	767	826	885	944	1003	1062	1121	1180	1239	1298	1357	1416	1475	1534	1593	1652	1711
18x6	0.75	0.63	Airflow, cfm NC	189	252	315	378	441	504	567	630	693	756	819	882	945	1008	1071	1134	1197	1260	1323	1386	1449	1512	1575	1638	1701	1764	1827
20x6	0.83	0.72	Airflow, cfm	216	288	360	432	504	576	648	720	792	864	936	1008	1080	1152	1224	1296	1368	1440	1512	1584	1656	1728	1800	1872	1944	2016	2088
12x10			NC	-	-	-	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150
22x6	0.92	0.77	Airflow, cfm NC	231	308	385	462	539	616	693	770	847	924	1001	1078	1155	1232	1309	1386	1463	1540	1617	1694	1771	1848	1925	2002	2079	2156	2233
24x6	1.00	0.88	Airflow, cfm	264	352	440	528	616	704	792	880	968	1056	1144	1232	1320	1408	1496	1584	1672	1760	1848	1936	2024	2112	2200	2288	2376	2464	2552
12x12			NC	-	-	-	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150
30x6	1.25	1.11	Airflow, cfm	333	444	555	666	777	888	999	1110	1221	1332	1443	1554	1665	1776	1887	1998	2109	2220	2331	2442	2553	2664	2775	2886	2997	3108	3219
18x10			NC	-	-	-	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97	103	109	115	121	127	133	139	145	151
14x14	1.36	1.22	Airflow, cfm NC	366	488	610	732	854	976	1098	1220	1342	1464	1586	1708	1830	1952	2074	2196	2318	2440	2562	2684	2806	2928	3050	3172	3294	3416	3538
36x6	1.50	1.35	Airflow, cfm	405	540	675	810	945	1080	1215	1350	1485	1620	1755	1890	2025	2160	2295	2430	2565	2700	2835	2970	3105	3240	3375	3510	3645	3780	3915
18x12			NC	-	-	-	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97	103	109	115	121	127	133	139	145	151
22x10	1.53	1.37	Airflow, cfm NC	411	548	685	822	959	1096	1233	1370	1507	1644	1781	1918	2055	2192	2329	2466	2603	2740	2877	3014	3151	3288	3425	3562	3699	3836	3973
30x8	1.67	1.49	Airflow, cfm	447	596	745	894	1043	1192	1341	1490	1639	1788	1937	2086	2235	2384	2533	2682	2831	2980	3129	3278	3427	3576	3725	3874	4023	4172	4321
24x10			NC	-	-	-	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97	103	109	115	121	127	133	139	145	151
42x6	1.75	1.59	Airflow, cfm	477	636	795	954	1113	1272	1431	1590	1749	1908	2067	2226	2385	2544	2703	2862	3021	3180	3339	3498	3657	3816	3975	4134	4293	4452	4611
18x14			NC	-	-	-	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97	103	109	115	121	127	133	139	145	151
16x16	1.78	1.62	Airflow, cfm NC	486	648	810	972	1134	1296	1458	1620	1782	1944	2106	2268	2430	2592	2754	2916	3078	3240	3402	3564	3726	3888	4050	4212	4374	4536	4698
24x12	2.00	1.82	Airflow, cfm	546	728	910	1092	1274	1456	1638	1820	2002	2184	2366	2548	2730	2912	3094	3276	3458	3640	3822	4004	4186	4368	4550	4732	4914	5096	5278
18x16			NC	-	-	-	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97	103	109	115	121	127	133	139	145	151
18x18	2.25	2.07	Airflow, cfm NC	621	828	1035	1242	1449	1656	1863	2070	2277	2484	2691	2898	3105	3312	3519	3726	3933	4140	4347	4554	4761	4968	5175	5382	5589	5796	6003
24x14	2.33	2.14	Airflow, cfm NC	642	856	1070	1284	1498	1712	1926	2140	2354	2568	2782	2996	3210	3424	3638	3852	4066	4280	4494	4708	4922	5136	5350	5564	5778	5992	6206
30x12	2.50	2.29	Airflow, cfm NC	687	916	1145	1374	1603	1832	2061	2290	2519	2748	2977	3206	3435	3664	3893	4122	4351	4580	4809	5038	5267	5496	5725	5954	6183	6412	6641
24x16	2.67	2.46	Airflow, cfm NC	738	984	1230	1476	1722	1968	2214	2460	2706	2952	3198	3444	3690	3936	4182	4428	4674	4920	5166	5412	5658	5904	6150	6396	6642	6888	7134
20x20	2.78	2.57	Airflow, cfm NC	771	1028	1285	1542	1799	2056	2313	2570	2827	3084	3341	3598	3855	4112	4369	4626	4883	5140	5397	5654	5911	6168	6425	6682	6939	7196	7453
36x12	3.00	2.75	Airflow, cfm NC	825	1100	1375	1650	1925	2200	2475	2750	3025	3300	3575	3850	4125	4400	4675	4950	5225	5500	5775	6050	6325	6600	6875	7150	7425	7700	7975
30x16	3.33	3.11	Airflow, cfm	933	1244	1555	1866	2177	2488	2799	3110	3421	3732	4043	4354	4665	4976	5287	5598	5909	6220	6531	6842	7153	7464	7775	8086	8397	8708	9019
24x20			NC	-	-	-	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140	146	152
22x22	3.36	3.14	Airflow, cfm NC	942	1256	1570	1884	2198	2512	2826	3140	3454	3768	4082	4396	4710	5024	5338	5652	5966	6280	6594	6908	7222	7536	7850	8164	8478	8792	9106
42x12	3.50	3.22	Airflow, cfm	966	1288	1610	1932	2254	2576	2898	3220	3542	3864	4186	4508	4830	5152	5474	5796	6118	6440	6762	7084	7406	7728	8050	8372	8694	9016	9338
36x14			NC	-	-	-	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140	146	152
24x22	3.67	3.43	Airflow, cfm NC	1029	1372	1715	2058	2401	2744	3087	3430	3773	4116	4459	4802	5145	5488	5831	6174	6517	6860	7203	7546	7889	8232	8575	8918	9261	9604	9947
30x18	3.75	3.50	Airflow, cfm NC	1050	1400	1750	2100	2450	2800	3150	3500	3850	4200	4550	4900	5250	5600	5950	6300	6650	7000	7350	7700	8050	8400	8750	9100	9450	9800	10150

• Static pressures are negative, in inches of water, measured per ANSI/ASHRAE Standard 70-91.

• NC based on room absorption of 10dB, re 10<sup>-12</sup> watts, measured per ANSI/ASHRAE Standard 70-91.