

DIRECT GAS FIRED AIR REPLACEMENT UNITS

Backward Inclined Fan Chart 2 - Table 2

Total External Static Pressure in Inches of Water Column

MODEL	CFM Std. Air	Outlet Velocity FPM	1.0" SP		1.25" SP		1.5" SP		1.75" SP		2.0" SP		2.50" SP		3.00" SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
127	15000	1989	1031	5.9	1062	6.5	1091	7.1	1127	7.8	1163	8.6	1221	9.8	1276	11.2
	16000	2122	1071	6.6	1103	7.2	1131	7.8	1159	8.5	1190	9.2	1257	10.8	1310	12.1
	17000	2254	1112	7.2	1145	8.0	1174	8.7	1201	9.3	1229	10.1	1290	11.7	1347	13.3
	18000	2387	1156	8.0	1185	8.8	1216	9.6	1243	10.3	1268	11.0	1318	12.5	1381	14.3
	19000	2519	1201	8.9	1229	9.7	1256	10.5	1286	11.3	1312	12.1	1356	13.6	1408	15.3
	20000	2652	1243	9.7	1270	10.6	1297	11.4	1323	12.3	1351	13.2	1399	14.8	1446	16.4
	22000	2917	1337	11.6	1362	12.7	1384	13.6	1409	14.5	1433	15.2	1482	17.3	1529	19.3
130	19000	2040	942	7.6	970	8.3	996	9.1	1022	9.9	1058	10.9	1111	12.6	1160	14.2
	20000	2148	972	8.3	1001	9.1	1027	9.7	1051	10.7	1077	11.6	1138	13.6	1186	15.3
	22000	2363	1034	9.8	1060	10.7	1088	11.6	1112	12.6	1135	13.4	1181	15.2	1238	17.5
	24000	2577	1098	11.4	1123	12.5	1147	13.5	1172	14.6	1196	15.6	1239	17.5	1281	19.4
	26000	2792	1164	13.4	1186	14.4	1211	15.6	1233	16.7	1255	17.8	1301	20.0	1340	22.0
	28000	3007	1231	15.6	1254	16.7	1276	17.9	1298	19.4	1319	20.3	1361	22.8	1403	25.4
133	22000	1952	834	8.5	859	9.4	884	10.3	916	11.4	944	12.5	990	14.3	1038	16.4
	24000	2129	878	9.9	905	10.9	928	11.8	951	12.8	975	13.8	1030	16.2	1074	18.3
	26000	2307	925	11.3	950	12.5	975	13.6	997	14.6	1018	15.6	1064	17.9	1114	20.5
	28000	2484	937	12.9	996	14.1	1019	15.4	1043	16.6	1064	17.7	1103	19.9	1147	22.5
	30000	2661	1022	14.8	1044	16.0	1066	17.3	1087	18.6	1110	19.9	1149	22.4	1185	24.7
	32000	2839	1072	16.8	1093	18.1	1114	19.4	1134	20.8	1154	22.2	1194	25.0	1231	27.5
	34000	3016	1122	19.0	1143	20.4	1163	21.8	1182	23.3	1202	24.7	1240	27.7	1278	30.6
136	28000	2030	744	10.4	771	11.7	793	12.7	813	13.7	835	14.8	888	17.5	935	19.9
	30000	2175	777	11.7	799	12.9	824	14.3	845	15.4	848	15.5	905	18.9	955	21.7
	32000	2320	810	13.0	831	14.4	852	15.7	876	17.1	896	18.3	932	20.7	974	23.5
	34000	2465	845	14.7	865	15.9	885	17.4	905	18.8	928	20.3	965	22.8	998	25.4
	36000	2610	880	16.3	899	17.7	918	19.1	937	20.6	956	22.1	996	25.2	1029	27.8
	38000	2755	915	18.2	934	19.6	953	21.1	971	22.6	988	24.2	1026	27.4	1062	30.5
	40000	2900	949	20.1	968	21.6	987	23.2	1004	24.8	1022	26.4	1055	29.7	1092	31.2
140	34000	2027	674	12.7	699	14.1	718	15.4	737	16.6	756	18.0	805	21.2	847	24.2
	36000	2146	699	13.9	720	15.5	742	16.9	761	18.3	778	19.6	819	22.7	863	26.0
	38000	2265	724	15.3	744	16.9	764	18.5	785	20.1	802	21.5	836	24.3	878	27.8
	40000	2385	749	16.7	768	18.3	786	19.9	806	21.7	826	23.4	858	26.2	891	29.4
	45000	2683	813	20.9	831	22.6	848	24.4	865	26.2	881	28.1	917	32.0	948	35.4
	50000	2981	879	25.9	896	27.8	913	29.8	928	31.7	944	33.7	974	37.7	1005	42.0
144	40000	1952	598	14.6	618	16.2	636	17.6	654	19.2	676	21.1	719	24.7	759	28.5
	45000	2196	642	17.7	660	19.6	680	21.6	697	23.3	713	24.9	745	28.4	787	32.8
	50000	2240	688	21.3	705	23.3	721	25.3	737	27.4	756	29.7	786	33.3	814	37.1
	55000	2984	736	25.5	780	31.7	767	29.9	782	32.1	797	34.3	830	39.1	857	43.2
	60000	2928	784	30.4	800	32.8	815	35.1	829	37.5	843	39.6	871	44.8	901	50.1
148	50000	2012	552	18.6	572	20.7	588	22.5	603	24.4	619	26.4	660	31.1	695	35.6
	55000	2213	586	21.7	602	24.0	620	26.5	636	28.6	650	30.6	679	34.8	716	40.0
	60000	2414	621	25.4	636	27.8	651	30.2	667	32.8	683	35.4	710	39.7	736	44.4
	65000	2615	656	29.5	671	32.0	685	34.6	699	37.2	713	39.9	743	45.5	768	50.2
	70000	2816	692	34.2	707	36.9	721	39.6	734	42.4	747	45.2	772	51.0	801	57.0
	75000	3018	729	39.3	743	42.3	757	45.2	769	48.1	782	51.0	806	57.0	830	63.5

Notes:

- The capacities shown include the internal resistance of the basic burner/fan unit. Resistance of ductwork, inlet cowls, filter boxes, dampers, etc. must be calculated and totalled to determine the total external static pressure.
- For higher external static pressures consult head office.
- Performance is based on standard air (density .075 lb. per cubic foot, 70° F, 29.92" hg. bar). Horsepower data includes drive losses.