

DIRECT GAS FIRED AIR REPLACEMENT UNITS

Backward Inclined Fan Chart 1 - Table 2

Total External Static Pressure in Inches of Water Column

MODEL	CFM Std. Air	Outlet Velocity FPM	1.00" SP		1.25" SP		1.50" SP		1.75" SP		2.00" SP		2.50" SP		3.00" SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
112	3000	1935	2219	1.4	2303	1.6	2382	1.8	2458	1.9	2530	2.1	2667	2.5	2793	2.8
	3500	2258	2241	1.9	2492	2.1	2570	2.3	2644	2.5	2714	2.75	2845	3.0	2970	3.5
	4000	2581	2609	2.4	2687	2.6	2762	2.8	2834	3.1	2902	3.30	3032	3.8	3152	4.2
	4500	2903	2811	3.0	2887	3.3	2960	3.5	3028	3.8	3095	4.0	3221	4.5	3440	5.0
115	4500	1931	1813	2.2	1881	2.5	1946	2.7	2007	2.9	2065	3.2	2179	3.7	2282	4.2
	5000	2146	1917	2.6	1984	2.9	2047	3.1	2108	3.5	2166	3.7	2274	4.3	2378	4.9
	5500	2361	2023	3.1	2088	3.4	2151	3.7	2211	4.0	2268	4.3	2375	4.9	2475	5.5
	6000	2575	2132	3.6	2195	3.9	2256	4.3	2314	4.6	2371	4.9	2477	5.6	2574	6.3
	6500	2790	2241	4.3	2304	4.6	2363	4.9	2420	5.3	2475	5.7	2579	6.4	2677	7.1
	7000	3004	2351	4.9	2414	5.3	2473	5.7	2528	6.0	2581	6.5	2684	7.3	2780	8.0
118	7000	2028	1590	3.0	1632	3.3	1672	3.6	1718	3.9	1772	4.3	1859	5.0	1940	5.7
	7500	2173	1664	3.4	1707	3.7	1746	4.0	1784	4.4	1823	4.7	1920	5.5	1999	6.2
	8000	2318	1734	3.8	1781	4.2	1821	4.5	1857	4.9	1893	5.2	1972	5.9	2060	6.8
	8500	2463	1812	4.3	1852	4.7	1896	5.1	1934	5.4	1968	5.8	2053	6.5	2117	7.3
	9000	2608	1890	4.8	1927	5.2	1966	5.6	2007	6.0	2043	6.4	2102	7.1	2172	7.9
	9500	2753	1969	5.4	2006	5.8	2041	6.2	2079	6.6	2117	7.1	2182	7.9	2243	8.6
	10000	2898	2048	6.0	2083	6.5	2118	6.8	2151	7.3	2187	7.7	2257	8.6	2316	9.5
	11000	3188	2209	7.5	2242	7.9	2275	8.4	2307	8.8	2338	9.3	2401	10.2	2466	11.2
120	8500	2053	1372	3.6	1419	4.0	1465	4.4	1511	4.8	1555	5.2	1641	5.9	1721	6.8
	9000	2174	1419	4.0	1464	4.5	1508	4.8	1552	5.2	1595	5.6	1678	6.4	1757	7.3
	9500	2295	1465	4.5	1509	4.9	1553	5.3	1595	5.7	1636	6.1	1716	7.0	1793	7.9
	10000	2415	1514	4.9	1557	5.4	1598	5.8	1639	6.2	1679	6.7	1757	7.6	1832	8.5
	11000	2659	1611	5.9	1653	6.4	1692	6.8	1731	7.4	1768	7.8	1841	8.8	1913	9.8
	12000	2899	1713	7.5	1751	7.6	1789	8.1	1825	8.6	1862	9.2	1931	10.2	1997	11.2
122	10000	1953	1267	3.8	1303	4.2	1342	4.6	1389	5.1	1424	5.6	1500	6.5	1587	7.6
	11000	2148	1347	4.5	1383	4.9	1416	5.4	1450	5.8	1490	6.3	1565	7.4	1632	8.3
	12000	2343	1426	5.3	1463	5.8	1498	6.2	1528	6.7	1558	7.2	1628	8.3	1698	9.4
	13000	2539	1510	6.1	1542	6.6	1576	7.2	1609	7.7	1638	8.2	1694	9.2	1758	10.4
	14000	2734	1596	7.0	1626	7.6	1655	8.1	1685	8.7	1718	9.4	1774	10.5	1825	11.5
	15000	2929	1684	8.1	1712	8.7	1736	9.2	1764	9.8	1795	10.5	1855	11.8	1905	12.9
125	13000	2093	1203	5.2	1236	5.7	1266	6.2	1298	6.8	1339	7.4	1405	8.6	1467	9.8
	14000	2254	1268	5.9	1296	6.5	1326	7.0	1354	7.6	1383	8.1	1453	9.5	1514	10.7
	15000	2415	1323	6.7	1354	7.3	1387	7.9	1415	8.6	1442	9.1	1496	10.4	1564	11.9
	16000	2576	1386	7.6	1414	8.2	1443	8.9	1475	9.6	1502	10.2	1552	11.4	1605	12.9
	17000	2737	1451	8.6	1478	9.2	1505	9.9	1532	10.6	1562	11.4	1612	12.7	1659	14.0
	18000	2898	1516	9.6	1543	10.3	1568	11.0	1593	11.8	1618	12.5	1673	14.0	1719	15.4
	19000	3059	1585	10.6	1611	11.6	1636	12.4	1660	13.1	1683	13.9	1683	15.5	1782	17.1

Notes:

1. 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.
2. For higher external static pressures consult head office.
3. Performance is based on standard air (density .075 lb. per cubic foot, 70° F, 29.92" hg. bar). Horsepower data includes drive losses.