



ULTRAFAN-PAK-2002



FORWARD CURVE BELT DRIVE



PEERLESS ELECTRIC

MADISON MANUFACTURING COMPANY

AFFILIATE OF PEERLESS-WINSMITH, INC.

PEERLESS ELECTRIC FORWARD CURVE BELT DRIVE ULTRAFAN-PAK-2002 BLOWERS

The Peerless Electric "Ultrafan-Pak-2002" forward curve belt drive blower is a high quality, low cost, heavily constructed and completely self contained unit. The low speed characteristic of the forward curve wheel design makes for an extremely quiet and efficient operating unit. These blowers are designed for use in high volume low and medium pressure, clean air, ventilating and exhaust applications. Wheel sizes range from 8" through 24". The horsepower curve is always maximum at free air delivery and the maximum efficiency is near the peak static pressure.

This self contained unit is designed for ease of access to the motor, drives and bearings. As a result, installation and maintenance costs are minimal for the user.

All units are equipped with a convertible discharge which can be rotated easily to any of the eight 45° positions. Units are available in all AMCA construction classes.

CERTIFIED PERFORMANCE RATINGS

Peerless Electric/ Madison Manufacturing Company certifies that the "ULTRAFAN-PAK-2002" Forward Curve Belt Drive blowers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



CONSTRUCTION FEATURES

WHEELS

Die-formed identical blades machine riveted to die-punched back plate and rim. Dynamically and statically balanced.

MOTOR BASE

Heavy construction assures sturdy base for motor mounting. Pivoted at one end features easy adjustment for belt tension.

BEARINGS

Self-aligning ball bearing pillow blocks. These bearings are designed to operate under the most severe atmospheric conditions.

INLET

Circular angle ring. Rigid streamlined inlet



SHAFT

Ground and polished solid steel key-ways on each end.

MOTOR

Commercial standard Fan and Blower duty motors are job-matched to each requirement. All types of current characteristics, enclosures and bearing construction are available.

FRAME

All welded steel construction. Easy access to motor for servicing.

ADJUSTABLE V-BELT DRIVE

High quality CAST Iron adjustable pitch motor sheaves are standard equipment. V-Belts with ample service factor are also employed. When performance data is specified, BLOWERS are factory set to exact blower speed to meet job requirements. Constant speed drives are also available

HOUSING

All are convertible and may be rotated easily to any of eight 45° positions.

SPECIFICATION GUIDE

Furnish and install where shown on plans, a Peerless Electric forward curve belt drive utility blower. Blower shall be completely assembled and tested as a unit with electric motor, adjustable motor base, adjustable V-belt drive beyond bearings, and drive cover if

unit is mounted outside. Blower wheels shall be forward curved with constantly rising horsepower characteristics.

Housing shall be heavy gauge steel and spot or arc welded together for air-tight construction. Housings on all sizes shall be convertible to any one of eight positions in 45-degree

increments. Inlet shall be unobstructed with venturi design. Blower sizes and capacities shall be as follows:

Size, wheel diameter, motor HP, CFM, O.V., S.P., B.H.P., volts, cycles and phase. Plus any additional features.

ULTRAFAN-PAK ACCESSORIES



Drive Cover



Belt Guard



Shutter

1. Weather Cover

Covers entire drive side frame and motor. Eliminates need for penthouse or other protection outdoors. Fastens securely with four screws.

2. Belt Guard

Covers the drivers and entire frame end. Constructed of heavy gauge expanded metal mesh with welded steel frame. Securely fastened with four screws to blower frame.

3. Automatic Discharge Shutter

Self-contained in adapter sleeve and securely attached to fan discharge. All materials resistant to weather corrosion. Constructed to prevent back-drafts and entrance of rain and snow. Discharge screens are not available with shutters.

Clean-Out Doors

4.

Bolted Door – Removable door for ease of cleaning and inspection. Bolted to housing with hex head bolts and gasketed for tight seal. Quick-Opening Door – Held in place with pressure latches, hinged at the bottom and gasketed. Raised access doors are also available with a standard height of 1" above mounting surface.

5. Vibration Rail Bases

Shock mounting rubber-in-shear rails or pads and spring rails or pads are available as stock items.

6. Other Accessories

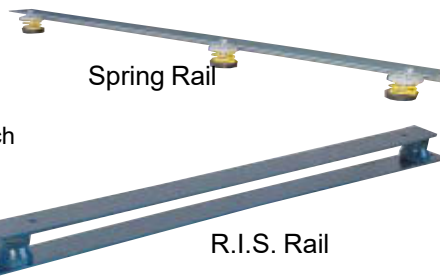
All size blowers are available with extra features such as: drain fittings, inlet or discharge screens, flanged inlets or outlets, and heat slingers. For protective coatings see Catalog 35-300.



BOLTED DOOR



QUICK-OPENING DOOR



Spring Rail

R.I.S. Rail

STANDARDS ADOPTED FOR SPARK-RESISTANT FANS AMCA STANDARD 99-0401-86

Spark Resistant-Type A: AMCA

Standards require that all parts of the fan in contact with the air or gas being handled shall be made of non-ferrous material.

Spark Resistant-Type B: AMCA

Standards require the fan to have the wheel and ring about the opening through which the shaft passes of non-ferrous material. Ferrous hubs, shafts and hardware are permitted. Fans for this condition are furnished with a non-ferrous wheel (except hub and hardware) and a non-ferrous rubbing plate or non-ferrous shaft seal around the shaft opening.

Spark Resistant-Type C: AMCA

Standards require the fan to be so constructed that a shift of the wheel or shaft will not permit two ferrous parts of the fan to rub or strike. Fans for this condition will be furnished with a non-ferrous inlet cone and rubbing plate around the shaft opening.

Note: For all type spark resistant fans, the user shall electrically ground all fan parts. Either A or B construction conforms to requirements of National Board of Fire Underwriters Pamphlet No. 91 for Fans handling flammable vapors. Bearings shall not be placed in the air or gas stream. A non-ferrous material with less than 5% iron or any other material with demonstrated ability to be spark resistant.

The use of these constructions in no way implies a guarantee of safety for any level of spark resistance. Spark resistant construction does not protect against ignition of explosive gases caused by catastrophic failure or from any air-stream material that may be present in a system.

PEERLESS ELECTRIC FORWARD CURVE BELT DRIVE ULTRAFAN-PAK-2002 BLOWERS

SIZE FCB-8

WHEEL DIAMETER - 7 3/4"

TIP SPEED = 1.996 x RPM

MAX. SPEED = 3006 RPM

OUTLET { 8 1/4" x 5 3/8" Outside
 { 0.296 Sq. Ft. Inside

INLET { 8" Dia. Outside
 { 0.338 Sq. Ft. Inside

VOL	VEL	0.25 SP		0.375 SP		0.5 SP		.625 SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
237	800	758	0.02	909	0.03	-	-	-	-
266	900	775	0.03	917	0.04	1049	0.05	-	-
296	1000	798	0.03	931	0.04	1055	0.06	1172	0.07
326	1100	825	0.04	949	0.05	1067	0.06	1178	0.08
355	1200	854	0.04	971	0.06	1083	0.07	1189	0.08
385	1300	886	0.05	997	0.06	1102	0.08	1203	0.09
414	1400	918	0.06	1024	0.07	1125	0.09	1221	0.1
444	1500	955	0.07	1055	0.08	1150	0.1	1243	0.11
474	1600	991	0.08	1088	0.09	1179	0.11	1267	0.13
503	1700	1027	0.09	1121	0.11	1208	0.12	1293	0.14
533	1800	1065	0.1	1156	0.12	1240	0.14	1321	0.16
562	1900	1104	0.12	1191	0.14	1272	0.15	1350	0.17
592	2000	1144	0.13	1228	0.15	1307	0.17	1382	0.19
651	2200	1223	0.17	1303	0.19	1377	0.21	1448	0.23
710	2400	1304	0.21	1380	0.23	1451	0.25	1518	0.28
770	2600	1388	0.26	1461	0.28	1528	0.31	1592	0.33
829	2800	1471	0.32	1541	0.34	1606	0.37	1667	0.39
888	3000	1556	0.38	1623	0.41	1684	0.44	1743	0.46
947	3200	1640	0.45	1705	0.48	1765	0.51	1822	0.54
1006	3400	1726	0.53	1789	0.57	1846	0.6	1901	0.63
1066	3600	1813	0.62	1874	0.66	1930	0.69	1983	0.73
1125	3800	1900	0.72	1958	0.76	2013	0.8	2064	0.84
1184	4000	1986	0.83	2043	0.88	2097	0.92	2147	0.95
1243	4200	2073	0.96	2129	1	2181	1.04	2229	1.08
1302	4400	2162	1.09	2215	1.14	2265	1.18	2312	1.22
1362	4600	2251	1.24	2303	1.29	2351	1.33	2399	1.38
1421	4800	2339	1.4	2389	1.45	2437	1.5	2483	1.55
1480	5000	2428	1.57	2477	1.62	2523	1.67	2568	1.73
1539	5200	2516	1.76	2565	1.81	2610	1.87	2653	1.92
1598	5400	2605	1.96	2652	2.02	2696	2.07	2738	2.13
1658	5600	2695	2.18	2742	2.24	2784	2.3	2826	2.35
1717	5800	2783	2.4	2830	2.47	2872	2.53	2912	2.59
1776	6000	2874	2.65	2918	2.72	2959	2.79	2999	2.85
1835	6200	2963	2.92	3006	2.99	-	-	-	-

Performance shown is for installation type B --- free inlet, ducted outlet.

Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

.75 SP		.875 SP		1.0 SP		1.25 SP		1.50 SP		1.75 SP		2.0 SP		2.5 SP		3.0 SP		3.5 SP		4.0 SP	
RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1285	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1290	0.1	1388	0.12	1482	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1300	0.11	1394	0.13	1485	0.14	1657	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1314	0.12	1404	0.14	1491	0.15	1658	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1331	0.13	1417	0.15	1501	0.17	1662	0.21	1815	0.25	-	-	-	-	-	-	-	-	-	-	-	-
1352	0.14	1434	0.16	1515	0.18	1670	0.22	1819	0.27	-	-	-	-	-	-	-	-	-	-	-	-
1374	0.16	1454	0.18	1531	0.2	1681	0.24	1825	0.28	1963	0.33	-	-	-	-	-	-	-	-	-	-
1400	0.17	1476	0.19	1550	0.21	1695	0.25	1835	0.3	1969	0.35	2098	0.4	-	-	-	-	-	-	-	-
1426	0.19	1500	0.21	1572	0.23	1712	0.27	1846	0.32	1977	0.37	2103	0.42	-	-	-	-	-	-	-	-
1455	0.21	1527	0.23	1596	0.25	1731	0.29	1862	0.34	1988	0.39	2110	0.44	2345	0.55	-	-	-	-	-	-
1517	0.25	1583	0.27	1649	0.3	1775	0.34	1898	0.39	2017	0.44	2133	0.49	2356	0.61	2569	0.73	-	-	-	-
1583	0.3	1646	0.32	1707	0.35	1827	0.39	1942	0.45	2055	0.5	2165	0.55	2377	0.67	2580	0.79	2776	0.93	-	-
1654	0.36	1713	0.38	1771	0.41	1884	0.46	1994	0.51	2100	0.56	2205	0.62	2406	0.74	2600	0.87	2788	1.01	2969	1.15
1726	0.42	1783	0.45	1838	0.47	1946	0.53	2050	0.58	2151	0.64	2250	0.7	2442	0.82	2628	0.95	2808	1.09	2982	1.24
1800	0.49	1854	0.52	1908	0.55	2011	0.6	2109	0.66	2206	0.72	2300	0.78	2485	0.91	2662	1.05	2834	1.19	3002	1.34
1876	0.57	1929	0.6	1980	0.63	2079	0.69	2174	0.75	2266	0.81	2357	0.88	2533	1.01	2703	1.15	2868	1.29	-	-
1954	0.66	2004	0.69	2054	0.72	2149	0.79	2241	0.85	2329	0.92	2416	0.98	2585	1.12	2748	1.26	2907	1.41	-	-
2034	0.76	2083	0.8	2131	0.83	2223	0.9	2311	0.96	2396	1.03	2480	1.1	2642	1.24	2799	1.39	2952	1.54	-	-
2114	0.87	2162	0.91	2207	0.94	2297	1.01	2382	1.08	2464	1.15	2545	1.23	2701	1.37	2853	1.53	3000	1.68	-	-
2195	0.99	2241	1.03	2286	1.07	2371	1.14	2455	1.21	2535	1.29	2613	1.36	2764	1.52	2910	1.67	-	-	-	-
2276	1.12	2321	1.16	2365	1.2	2449	1.28	2529	1.36	2607	1.43	2682	1.51	2829	1.67	2970	1.84	-	-	-	-
2358	1.27	2402	1.31	2445	1.35	2527	1.43	2605	1.51	2680	1.59	2754	1.68	2896	1.84	-	-	-	-	-	-
2443	1.43	2485	1.47	2527	1.51	2606	1.6	2683	1.68	2755	1.77	2828	1.85	2966	2.02	-	-	-	-	-	-
2526	1.59	2567	1.64	2608	1.69	2686	1.78	2760	1.86	2832	1.95	2901	2.04	-	-	-	-	-	-	-	-
2610	1.78	2651	1.82	2690	1.87	2766	1.97	2839	2.06	2909	2.15	2977	2.24	-	-	-	-	-	-	-	-
2695	1.97	2735	2.02	2774	2.07	2847	2.17	2919	2.27	2987	2.36	-	-	-	-	-	-	-	-	-	-
2779	2.18	2818	2.23	2856	2.29	2929	2.39	2998	2.49	-	-	-	-	-	-	-	-	-	-	-	-
2865	2.41	2903	2.46	2941	2.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2951	2.65	2988	2.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

.75 SP		.875 SP		1.0 SP		1.25 SP		1.50 SP		1.75 SP		2.0 SP		2.5 SP		3.0 SP		3.5 SP		4.0 SP		4.5 SP	
RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
668	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
672	0.32	721	0.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
680	0.36	725	0.41	771	0.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
690	0.4	733	0.45	776	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
703	0.45	743	0.5	783	0.55	863	0.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
718	0.5	756	0.55	793	0.6	869	0.71	944	0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-
734	0.56	770	0.61	806	0.66	877	0.77	948	0.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-
752	0.62	786	0.67	820	0.73	887	0.84	954	0.96	1022	1.09	-	-	-	-	-	-	-	-	-	-	-	-
770	0.69	803	0.75	835	0.8	899	0.91	963	1.04	1027	1.17	1091	1.31	-	-	-	-	-	-	-	-	-	-
810	0.85	840	0.91	869	0.97	928	1.08	986	1.21	1044	1.34	1103	1.48	1219	1.79	-	-	-	-	-	-	-	-
851	1.04	880	1.1	907	1.16	961	1.28	1015	1.41	1068	1.55	1122	1.69	1228	2	1335	2.34	-	-	-	-	-	-
894	1.25	921	1.32	947	1.38	998	1.51	1048	1.65	1097	1.79	1147	1.94	1245	2.25	1344	2.59	1442	2.96	-	-	-	-
939	1.5	964	1.57	989	1.64	1037	1.78	1084	1.92	1130	2.07	1176	2.22	1268	2.54	1359	2.88	1451	3.26	1543	3.65	-	-
985	1.78	1009	1.86	1033	1.93	1078	2.08	1123	2.23	1166	2.38	1210	2.54	1295	2.87	1381	3.22	1466	3.59	1551	3.99	1637	4.41
1031	2.1	1054	2.18	1077	2.25	1121	2.41	1163	2.57	1205	2.73	1246	2.89	1326	3.23	1407	3.59	1487	3.97	1567	4.37	1647	4.8
1078	2.45	1100	2.53	1122	2.62	1165	2.79	1205	2.95	1245	3.12	1284	3.29	1361	3.64	1436	4.01	1512	4.4	1587	4.8	1662	5.23
1125	2.84	1147	2.93	1168	3.02	1209	3.2	1248	3.37	1286	3.55	1324	3.73	1397	4.09	1469	4.47	1540	4.87	1611	5.28	1682	5.72
1173	3.27	1194	3.37	1215	3.47	1254	3.66	1292	3.84	1329	4.03	1365	4.21	1435	4.59	1504	4.98	1572	5.39	1639	5.81	-	-
1221	3.75	1242	3.86	1262	3.96	1300	4.16	1337	4.35	1373	4.55	1407	4.74	1475	5.14	1541	5.55	1606	5.96	1670	6.4	-	-
1269	4.28	1289	4.39	1309	4.5	1347	4.71	1383	4.91	1417	5.12	1451	5.32	1516	5.74	1579	6.16	1642	6.59	-	-	-	-
1317	4.85	1338	4.97	1357	5.08	1394	5.3	1429	5.52	1463	5.74	1495	5.96	1558	6.38	1619	6.82	1680	7.27	-	-	-	-
1366	5.47	1386	5.59	1405	5.71	1441	5.95	1475	6.18	1508	6.41	1540	6.63	1601	7.08	1660	7.54	-	-	-	-	-	-
1415	6.14	1434	6.27	1453	6.4	1488	6.65	1522	6.89	1554	7.14	1585	7.37	1645	7.84	-	-	-	-	-	-	-	-
1464	6.87	1483	7.01	1502	7.15	1536	7.41	1569	7.67	1601	7.92	1631	8.16	1689	8.65	-	-	-	-	-	-	-	-
1513	7.66	1532	7.8	1550	7.95	1585	8.23	1617	8.49	1648	8.76	1677	9.02	-	-	-	-	-	-	-	-	-	-
1563	8.5	1581	8.66	1599	8.81	1633	9.1	1665	9.38	1695	9.66	-	-	-	-	-	-	-	-	-	-	-	-
1612	9.4	1630	9.57	1648	9.73	1681	10.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1661	10.4	1680	10.54	1697	10.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GENERAL VENTILATION DATA

Air Changes Recommended for Various Areas

Ventilated Area	Minutes Per Change	Ventilated Area	Minutes Per Change	Ventilated Area	Minutes Per Change
Assembly	3-10	Garages	5-10	Restaurants	3-10
Bakeries	1-3	Kitchens	1-5	Rest Rooms	5-10
Boiler Rooms	1-3	Laundries	1-3	Sales Rooms	2-10
Cafeterias	3-5	Libraries	2-4	Schools	5-10
Churches	2-4	Locker Rooms	4-15	Shops	5-10
Clubs	5-7	Mills	5-8	Stores	5-10
Dormitories	5-8	Offices	5-12	Theatres	3-8
Engine Rooms	2-5	Packing	3-5	Toilets	2-5
Factories	4-10	Plating Rooms	1-5	Transformer	1-5

To determine the fan capacity required by using the above table, calculate the total cubical contents of the area to be ventilated in cubic feet and divide by the rate of air change.

Result will be cubic feet per minute, corresponding to fan ratings. One or more fans may be used to secure desired cubic feet per minute.

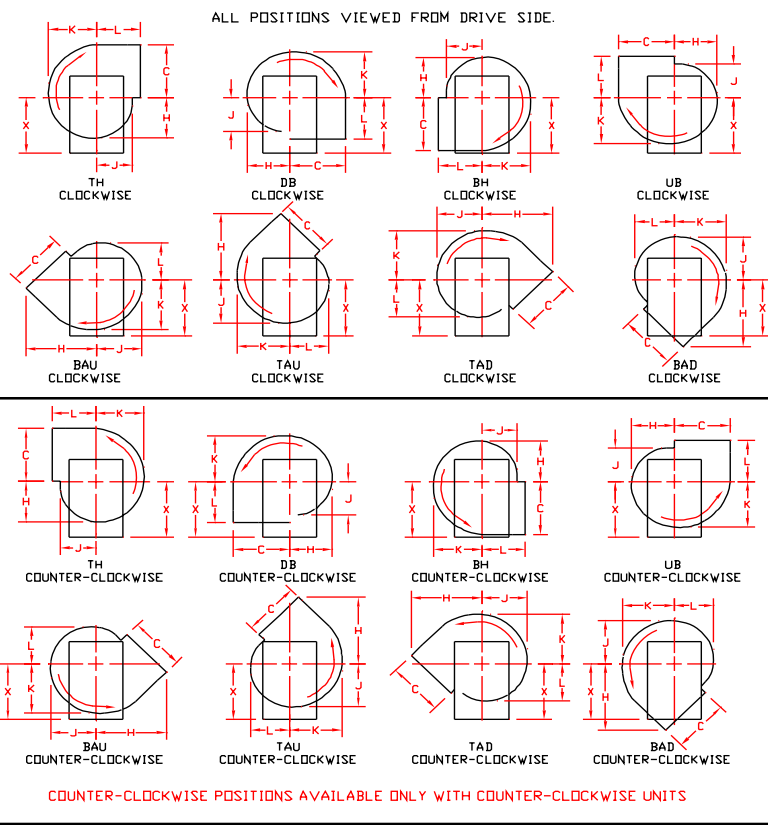
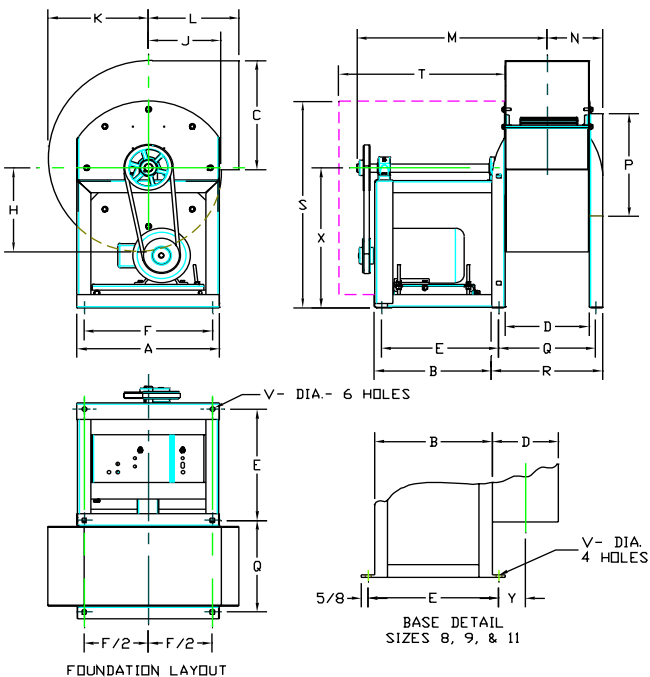
VENTILATION DATA FOR HOODS AND SLOTTED INTAKES

Process	Type of Hood or Slot	Average Intake Velocity
Aluminum Furnace	Enclosed Hood, Open One Side Canopy Hood	150-200 FPM 200-250 FPM
Brass Furnace	Enclosed Hood, Open One Side Canopy Hood	200-250 FPM 250-300 FPM
Chemical Laboratory	Enclosed Hood, Front Opening Down Draft, Table Type	100-150 FPM 150-200 FPM
Degreasing	Canopy Hood Slotted Sides, 2" – 4" Slots	150-200 FPM 1500-2000 FPM
Electric Welding	Portable Hoods, Open Face Open Front Booth	200-250 FPM 100-150 FPM
Foundry Shakeout	Down Draft, Grill Table Open Front Booth	250-450 FPM 150-200 FPM
Flour, Grain, Wood Dust	Canopy Hood Side Slots, 3" – 4"	500 FPM 2000-2500 FPM
Kitchen Ranges	Canopy Hood	125-175 FPM
Metal Spraying	Open Front Booth	150-200 FPM
Paint Spraying	Open Front Booth	100-175 FPM
Paper Drying Machine	Canopy Hood	250-300 FPM
Pickling Tanks	Canopy Hood Slotted Sides	200-250 FPM 250 CFM Per Sq. Ft. of Tank Surface
Plating Tanks	Canopy Hood Slotted Sides	225-250 FPM 250 CFM Per Sq. Ft. of Tank Surface
Rubber Macerator	Canopy Hood Slotted Sides, 2" – 4" Slot	200-250 FPM 2000-2500 FPM
Steam Tanks	Canopy Hood	125-175 FPM
Varnish Tanks	Canopy Hood Slotted Sides, 2" – 4" Slot	225-300 FPM 2000-2500 FPM

To determine blower capacity required, multiply area of slot in square feet by intake velocity to obtain CFM moved. The data above covers average conditions. Total air movement resulting from the above figures is based on average velocity over the entire open face of the hood or grill and in case of exhaust

through side slots, on slotted areas covering both sides of the tank or canopy. Static pressure resistance of entire system should be calculated to accurately select proper blower for each installation.

PEERLESS ELECTRIC FORWARD CURVE BELT DRIVE ULTRAFAN-PAK 2002 BLOWERS ARRANGEMENT #10



FAN SIZE	WHEEL DIA.	SHAFT DIA.	A	B	C*	D	E	F	TH, DB, BH, UB STRAIGHT DISCH.				BAU, TAU, TAD, BAD ANGULAR DISCH.				M	N	P	Q	R	S	T	V	X	Y	MAX. MOTOR FRAME SIZE
									H	J	K	L	H	J	K	L											
8	7-3/4	3/4	9-1/8	13	8-1/4	5-3/8	14-1/4	7-1/2	6	4-5/8	6-3/4	6-7/8	10-3/8	6-1/4	7-3/8	5-1/4	20-1/8	3-3/4	8	-	-	18	18-1/2	7/16	12	2-3/16	145T
9	9	3/4	10-3/8	13	10-3/4	6-1/2	14-1/4	8-3/8	6-3/4	5-5/8	7-3/4	7-1/8	11-5/8	7-1/2	8-1/4	6-1/8	20-3/4	4-5/16	9	-	-	18	18-1/2	7/16	12	2-3/4	145T
11	10-1/2	3/4	12-7/8	13	11-3/4	8	14-1/4	10-3/4	7-7/8	6-3/4	9-1/8	8-1/16	13-1/4	8-7/8	9-5/8	7-1/8	21-1/2	5-1/8	10	-	-	20-1/2	18-1/2	7/16	14	3-1/2	145T
12	12-1/4	1	16-3/8	13-1/2	13-1/4	9-5/8	13-1/2	14-3/4	10-1/8	8-1/2	11-1/2	10-1/2	16-5/8	10-3/4	12-1/2	9-1/8	23-7/8	6-3/8	13-1/4	11-1/4	12-3/4	25-1/4	20	1/2	17	-	182T
13	13-1/2	1	17-5/8	13-1/2	14-5/8	10-3/4	13-1/2	16	11-1/8	9-3/8	12-5/8	11-3/8	18-1/4	11-7/8	13-3/4	10	24-3/8	7	14-1/2	12-3/8	13-7/8	25-7/8	20	1/2	17	-	182T
15	15	1	19-1/4	15-1/2	16-1/4	11-3/4	15-1/2	17-5/8	12-3/8	10-3/8	14-1/8	12-3/8	20-1/8	13-1/4	15-1/4	11-1/8	26-7/8	7-1/2	16-1/8	13-3/8	14-7/8	27-5/8	22	1/2	17-7/8	-	182T
16	16-1/4	1	21-3/8	15	17-3/4	13	15-1/2	19-3/4	13-5/8	11-3/8	15-1/2	13-3/8	21-7/8	14-5/8	16-3/4	12-1/4	27-1/2	8-1/2	17-7/8	14-1/2	17	30-1/8	22	1/2	19-1/2	-	184T
18	18-1/4	1-3/16	23-1/8	17	19-5/8	14-1/4	17-1/2	21-1/2	15	12-5/8	17-1/8	14-5/8	24-1/8	16	18-1/2	13-5/8	30-5/8	9-1/8	19-5/8	15-3/4	18-1/4	33-3/8	25	1/2	21-7/8	-	184T
20	20	1-3/16	25	17	21-1/2	15-7/8	17	23-3/8	16-1/2	13-3/4	18-3/4	15-3/4	26-3/8	17-5/8	20-3/8	14-7/8	31-1/2	10	21-1/2	17-7/8	20-1/8	36-1/4	25	1/2	23-3/4	-	213T
22	22-1/4	1-3/16	27-3/8	16-1/2	24	17-3/8	17	25-3/4	18-1/4	15-1/4	20-7/8	17-1/4	29	19-1/2	22-5/8	16-1/2	32-3/4	10-5/8	23-7/8	19-3/8	22-5/8	39-3/4	26	1/2	26-1/8	-	213T
24	24-1/2	1-7/16	30-1/4	16-1/2	26-1/4	19-1/4	16-3/4	23-5/8	20-1/8	16-7/8	23	19-7/8	32-1/2	21-1/2	24-7/8	18-1/4	33-5/8	11-3/4	26-3/8	21-1/4	24-1/2	42-7/8	26	1/2	27-3/4	-	215T

NOTE: Letters "C" and "D" are outside housing dimensions.
 "C" dimension extends beyond center-line, size #8 (5/16), size #9 (1 9/16) & size #11 (1 1/16)



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