M.K. Plastics
CORPORATION

SERVING THE NEEDS OF MODERN INDUSTRY

DHK

MEDIUM PRESSURE
FRP CENTRIFUGAL FAN

DHK-NW

HIGH PRESSURE
FRP CENTRIFUGAL FAN

We are pleased to provide you with this Engineering brochure for the DHK Medium Pressure and DHK-NW High Pressure Centrifugal Fiberglass Fans. The information contained within is also available on the M.K. Plastics Electronic Catalog (CD ROM). This CD includes information on all of the M.K. Plastics fans, exhaust systems and their components, and is available from your technical sales representative or M.K. Plastics directly. We look forward to assisting you with your important application.

For over 40 years, M.K. Plastics has been engineering, designing, and fabricating thermoplastic and FRP ventilation components and systems for institutional and industrial applications. Founded in 1963, today M.K. Plastics has facilities and offices in Montréal, Québec, Canada; Spiez, Switzerland; Troy, OH and Mooers, NY, USA. In major cities throughout the United States, M.K. Plastics is represented by technical sales representatives.

Other quality corrosion resistant fans are available from M.K. Plastics Corp. Your local M.K. Plastics representative will be pleased to provide you with technical information upon your request.

Axijet® High Plume Dilution Fan
Axijet® *LEADLAG***TM** Exhaust Fan Control System
KVC High Plume Fan
Plastifer® Venturi Exhaust System
CNW Centrifugal Fiberglass Fan
PRVS High Pressure/Low Volume Centrifugal Blower
AXTC Centrifugal Tubular Inline Fan
AXT Axial Tubular Propeller Fan
AXB Axial Bifurcated Propeller Fan
AXPR Axial Panel Propeller F an
RBK Roof Upblast & Sidewall Centrifugal Exhaust Fan
FRP & PVC Control Dampers & Gravity Backdraft Dampers
FRP & PVC Duct and Fittings
MIST ELIMINATORS

INTRODUCTION

M.K.Plastics Corporation's DHK is a Fiberglass Backward Curved Centrifugal Fan assembly, in which the impeller and housing are completely fabricated of fiberglass reinforced plastic (FRP). It offers non-overloading, high efficiency, low noise and economy for corrosive atmospheres. A revolution in fiberglass fan manufacturing, the impeller of the DHK is the result of years of R & D. The impeller is highly efficient, that has backward curved, air-foil blades, manufactured out of solid fiberglass. This innovative design has no metal in the air stream, for superior corrosion resistance and long life.

M.K. PLASTICS QUALITY ASSURANCE

Each DHK fan is statically & dynamically balanced to AMCA Standards 204-96 and test run with vibration measurements taken before shipment.

M.K. Plastics Corporation certifies that all DHK models shown herein are licensed to bear the AMCA seal for air and sound. The ratings shown are based upon tests and procedures performed in accordance with AMCA standards 211 and 311 and comply with the requirements of the AMCA Certified Ratings Program.

Sound Performance data is available on the M.K. Plastics DHK and DHK-NW Selection Programs. These selection Programs are on the M.K. Plastics Electronic Catalog (CD ROM) or by visiting our website (www.mkplastics.com).

DESIGN AND CONSTRUCTION

- Fourteen sizes are available from DHK 1225 to DHK 6000, with capacities from 700 to 88,000 CFM and up to 22" S.P. Available in Class I, II & III at 100% wheel width and Class II, III & IV at 66% wheel width (NW).

- The DHK impeller is a self cleaning, molded backward curved design on 1225 and 1500 sizes and backward curved air-foil design on 1825 to 6000 sizes. This allows for stability to efficiently exhaust large volumes of air at high pressures.

- The fans are manufactured with high quality, corrosion resistant resins and are fiberglass reinforced, able to withstand temperatures up to 210 deg. F, subject to the exhaust chemicals and their concentration. UV inhibitors are added to the resins and are flame retardant class 1 flame spread rating of 25 or less. The housings are smooth, both exterior for aesthetic appearance and interior for unrestricted airflow.

- The DHK housings have round slip-connection inlets for quick installation of round ducts and undrilled rectangular flanged outlets (rectangular-to-round FRP outlet transitions are available). Inlet flanges and flange drilling are also available.

- The DHK stands are corrosion resistant, 'Plastifer', baked epoxy powder coating, designed to withstand harsh environmental conditions.

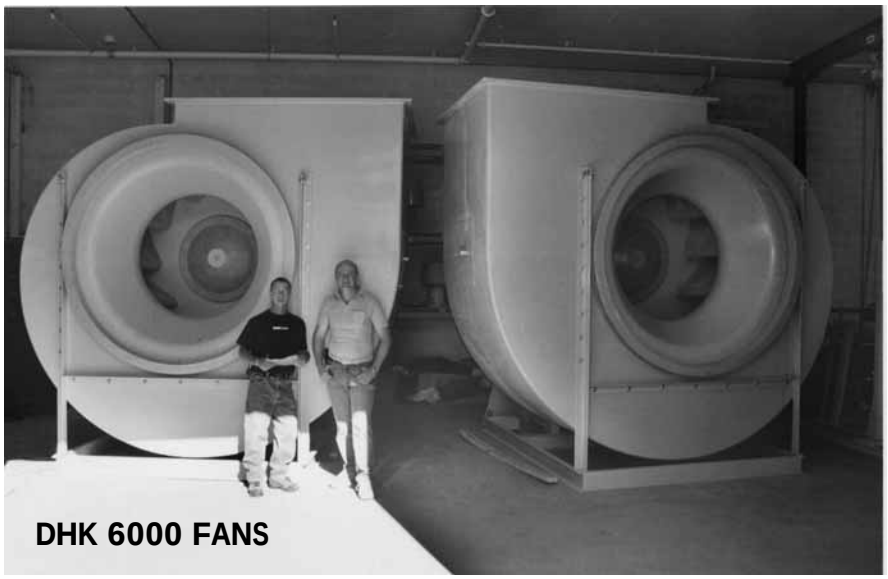
- The standard fan shaft is carbon steel (C1045) and isolated from the corrosive airstream by the FRP impeller hub and internally by a FRP cap and O-ring. A 304 or 316 stainless steel shaft is available when required.

- Airstream hardware is standard 304 stainless steel and is encapsulated in FRP.

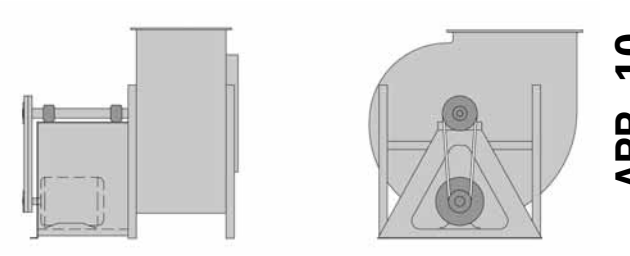
- Bearings are heavy duty, self-aligning, ball or roller type, in cast iron pillow block housings, complete with extended lubrication fittings to the exterior of the fan housing. Bearings are sized for L10-200,000 hrs operational life.

- A neoprene hub seal is available on all DHK fans to minimize air leakage. A Teflon shaft seal is also available for more severe environments. A Patent Pending Vacuum Seal is offered to eliminate any leakage when exhausting toxic or hazardous fumes.

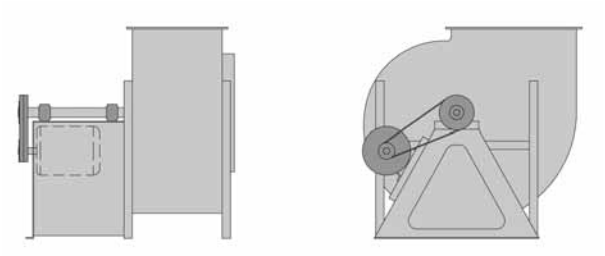
- Available in belt drive arrangements #1, #9 and #10, direct drive arrangement #4 and direct coupled arrangement #8.



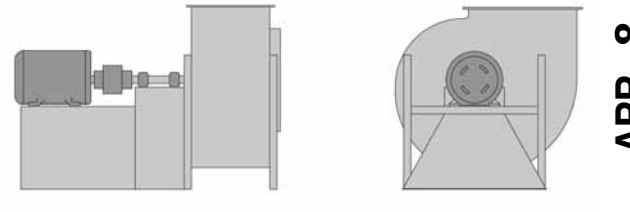
DHK 6000 FANS



ARR. 10



ARR. 9



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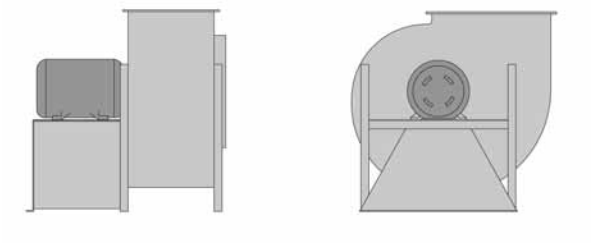

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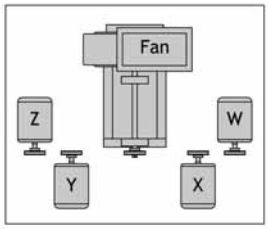
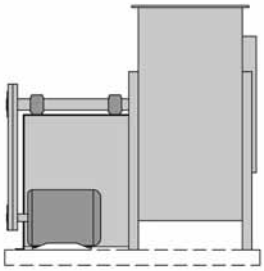
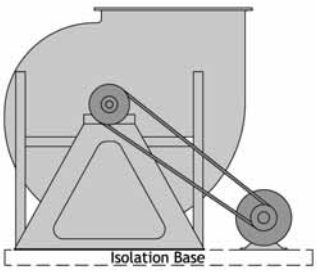


Motor position and fan rotation are determined from drive side



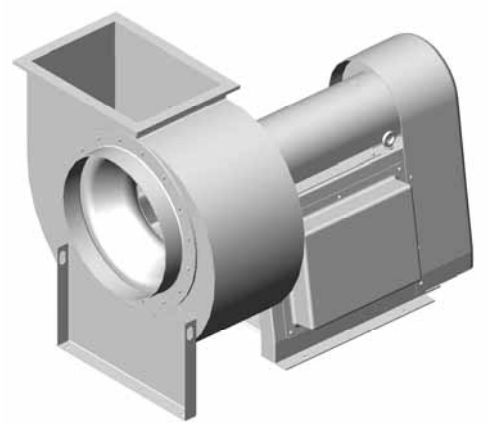


ARR. 1

*FAN POSITION - VIEW FROM DRIVE SIDE

1 CCW BH	2 CW BH	3 CW TH	4 CCW TH	5 CCW UB	6 CW UB	7 CW DB
8 CCW DB	9 CCW TAD	10 CW TAD	11 CW TAU	12 CCW TAU	13 CCW BAU	14 CW BAU

*Bottom Angular Down (CW/CCW-BAD) position is available. Contact MK Plastics for details.



SPECIFICATIONS AND WEIGHTS

DHK (100% Width)
SIZES 1225 THROUGH 6000

DHK-NW (66% Width)
SIZES 1825 THROUGH 6000

FAN SIZE	MAXIMUM RPM		WHEEL WR^2 (LBS-FT^2)		SHAFT	MOTOR FRAME			WEIGHT (LBS) WITHOUT MOTOR		
						MINIMUM	MAXIMUM	MAXIMUM			
	DHK	DHK-NW	DHK	DHK-NW	SIZE (in)	ARR. 4	ARR.4	ARR.1,9,10	ARR. 4	ARR.1,9	ARR.10
1225	2545	-	1	-	1	56	184T	182T	75	115	105
1500	2147	-	2	-	1	143T	215T	184T	105	155	140
1825	3363	3956	11	10	1-7/16	143T	256T	213T	312	360	350
2225	2756	3243	28	27	1-7/16	182T	286T	215T	540	595	580
2450	2503	2945	43	40	1-11/16	182T	286T	254T	750	770	790
2700	2268	2668	63	57	1-11/16	182T	286T	254T	840	865	885
3000	2045	2406	77	71	2-3/16	213T	326T	256T	925	950	970
3300	1859	2187	166	148	2-3/16	254T	365T	284T	1220	1250	1265
3650	1678	1975	303	264	2-7/16	256T	365T	286T	1300	1340	1350
4025	1523	1792	514	442	2-7/16	-	-	324T	-	2075	-
4450	1378	1621	795	691	2-15/16	-	-	324T	-	2415	-
4900	1252	1473	1307	1134	2-15/16	-	-	326T	-	2910	-
5425	1131	1330	2128	1838	3-7/16	-	-	364T	-	3395	-
6000	1021	1201	3362	2905	3-7/16	-	-	365T	-	4585	-

NOTE: For arrangement #8, please consult the factory

Dimensions and specifications are subject to change.
Certified prints are available.

DHK 6000 FANS BEING PREPARED FOR SHIPPING

Class I | CLASS II | CLASS III | CLASS IV

DHK 1225

13.50" Wheel Diameter Max. Motor Frame: 143T Outlet Area: 0.89 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		1.25		1.5		1.75		2		2.25		2.5		3		3.5	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
700	787	1381	0.20	1495	0.24	1599	0.29	1701	0.35	1803	0.41	1899	0.47	1991	0.53	2161	0.67	2323	0.81
800	899	1453	0.23	1557	0.28	1657	0.34	1753	0.39	1843	0.45	1929	0.51	2020	0.58	2191	0.72	2347	0.87
900	1011	1529	0.27	1626	0.32	1722	0.38	1809	0.44	1899	0.50	1984	0.57	2061	0.63	2220	0.77	2376	0.93
1000	1124	1620	0.32	1705	0.37	1794	0.43	1879	0.50	1959	0.56	2038	0.63	2117	0.70	2267	0.84	2407	0.99
1100	1236	1711	0.37	1794	0.43	1870	0.49	1953	0.56	2029	0.62	2107	0.70	2176	0.77	2325	0.92	2461	1.08
1200	1348	1809	0.44	1885	0.50	1961	0.56	2029	0.63	2105	0.70	2179	0.77	2249	0.85	2382	1.01	2517	1.17
1300	1461	1909	0.51	1979	0.57	2053	0.64	2120	0.71	2185	0.78	2253	0.86	2323	0.94	2453	1.10		
1500	1685	2111	0.67	2181	0.75	2244	0.83	2309	0.91	2370	0.99	2429	1.07	2485	1.15				
1600	1798	2217	0.77	2282	0.85	2344	0.94	2405	1.02	2464	1.10	2520	1.18						
1700	1910	2323	0.88	2387	0.97	2444	1.05	2505	1.15										
1800	2022	2431	1.01	2491	1.10														

DHK 1500

16.00" Wheel Diameter Max. Motor Frame: 145T Outlet Area: 1.35 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		1.25		1.5		1.75		2		2.25		2.5		3		3.5	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	741	1170	0.28	1267	0.35	1355	0.42	1435	0.49	1525	0.58	1605	0.67	1682	0.76	1823	0.94	1963	1.15
1100	815	1216	0.31	1303	0.39	1390	0.46	1470	0.54	1547	0.62	1625	0.71	1701	0.80	1843	1.00	1973	1.20
1200	889	1261	0.35	1344	0.42	1423	0.50	1505	0.59	1581	0.67	1651	0.76	1717	0.84	1863	1.05	1993	1.26
1300	963	1309	0.39	1388	0.47	1469	0.55	1538	0.64	1614	0.73	1685	0.82	1753	0.91	1881	1.10	2013	1.33
1400	1037	1364	0.44	1435	0.52	1513	0.61	1582	0.69	1651	0.79	1717	0.88	1787	0.98	1911	1.18	2031	1.39
1600	1185	1476	0.55	1544	0.64	1609	0.73	1670	0.82	1738	0.92	1801	1.02	1861	1.13	1981	1.34	2095	1.57
1800	1333	1594	0.69	1657	0.78	1719	0.88	1776	0.98	1829	1.07	1890	1.18	1949	1.30	2059	1.53		
2000	1481	1714	0.85	1775	0.95	1829	1.05	1885	1.16	1938	1.27	1991	1.38	2038	1.48				
2200	1630	1841	1.04	1894	1.14	1947	1.26	2001	1.38	2053	1.49	2103	1.61						
2400	1778	1969	1.26	2022	1.38	2072	1.50	2120	1.62										
2500	1852	2032	1.38	2082	1.50	2134	1.63												

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

Class I | CLASS II | CLASS III | CLASS IV

DHK 1825

19.31" Wheel Diameter Max. Motor Frame: 256T Outlet Area: 2.05 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		2		3		4		6		8		10		12		14	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	976	1001	0.48	1247	0.89	1461	1.36												
3000	1463	1261	0.92	1453	1.47	1629	2.05	1793	2.68	2089	4.04	2359	5.55						
3500	1707	1405	1.25	1579	1.86	1738	2.50	1891	3.20	2164	4.67	2417	6.27	2655	8.02	2867	9.81		
4000	1951	1552	1.62	1717	2.35	1861	3.07	2001	3.82	2255	5.41	2491	7.11	2713	8.93	2926	10.88	3125	12.93
4500	2195	1700	2.13	1859	2.94	1995	3.73	2114	4.51	2363	6.26	2582	8.08	2791	10.01	2985	12.01	3182	14.18
5000	2439	1853	2.71	2003	3.61	2134	4.51	2251	5.38	2470	7.19	2685	9.17	2879	11.20	3067	13.31	3243	15.52
5500	2683	2009	3.41	2147	4.38	2273	5.37	2385	6.33	2590	8.30	2795	10.39	2984	12.58	3161	14.83	3334	17.16
6000	2927	2166	4.22	2296	5.29	2414	6.33	2526	7.44	2720	9.51	2905	11.72	3091	14.04	3263	16.44		
6500	3171	2325	5.17	2444	6.30	2561	7.47	2667	8.63	2859	10.95	3026	13.20	3201	15.65				
7000	3415	2484	6.25	2597	7.47	2709	8.74	2811	9.99	2997	12.51	3163	14.94						
7500	3659	2642	7.46	2753	8.81	2857	10.15	2955	11.47	3137	14.20	3299	16.82						

DHK-NW 1825

19.31" Wheel Diameter Max. Motor Frame: 286T Outlet Area: 1.78 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	6		8		10		12		14		16		18		20		22	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2500	1405	2137	3.59	2389	4.86	2617	6.20	2829	7.65	3033	9.10	3226	10.59	3407	12.12	3579	13.70	3743	15.32
3000	1686	2259	4.32	2495	5.73	2707	7.22	2914	8.78	3107	10.41	3285	12.09	3455	13.85	3626	15.58	3789	17.36
3500	1967	2397	5.16	2617	6.72	2823	8.34	3013	10.04	3193	11.80	3372	13.64	3539	15.51	3699	17.46	3849	19.43
4000	2248	2543	6.14	2755	7.84	2947	9.62	3143	11.46	3307	13.35	3469	15.31	3626	17.32	3785	19.40		
4500	2529	2709	7.33	2901	9.12	3088	11.04	3261	13.04	3429	15.07	3589	17.16	3741	19.32	3885	21.52		
5000	2810	2879	8.68	3061	10.63	3234	12.64	3403	14.77	3561	16.96	3711	19.18	3863	21.50				
5500	3091	3059	10.30	3229	12.32	3391	14.48	3549	16.71	3705	19.05	3851	21.44						
6000	3372	3245	12.12	3407	14.32	3561	16.58	3705	18.89	3851	21.34								
6500	3653	3435	14.14	3587	16.56	3735	18.94	3876	21.41										
7000	3934	3631	16.47	3773	19.00	3911	21.55												
7500	4215	3828	19.06																

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

Class I | CLASS II | CLASS III | CLASS IV

DHK 2225

23.56" Wheel Diameter Max. Motor Frame: 286T Outlet Area: 2.96 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		2		3		4		6		8		10		12		14	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3500	1182	888	0.90	1073	1.58	1237	2.34	1389	3.16										
4000	1351	964	1.13	1132	1.86	1287	2.69	1423	3.55	1684	5.51								
4500	1520	1041	1.41	1195	2.21	1341	3.09	1473	4.02	1716	6.06	1935	8.30						
5000	1689	1117	1.70	1266	2.60	1401	3.54	1523	4.51	1753	6.66	1967	9.02	2163	11.57				
6000	2027	1279	2.49	1414	3.55	1529	4.60	1645	5.74	1855	8.15	2047	10.68	2226	13.38	2401	16.29	2561	19.29
7000	2365	1444	3.51	1572	4.76	1679	5.98	1779	7.23	1970	9.83	2149	12.67	2317	15.6	2470	18.60	2628	21.91
8000	2703	1614	4.79	1731	6.22	1832	7.62	1926	9.03	2095	11.90	2267	14.98	2423	18.19	2572	21.50	2711	24.84
9000	3041	1788	6.41	1891	7.97	1991	9.60	2079	11.19	2241	14.37	2388	17.61	2543	21.15	2682	24.70		
10000	3378	1961	8.34	2059	10.15	2152	11.92	2235	13.66	2393	17.29	2531	20.80	2664	24.44				
11000	3716	2136	10.67	2229	12.68	2314	14.61	2394	16.52	2546	20.58	2679	24.39						
12000	4054	2317	13.53	2400	15.62	2481	17.81	2557	19.88	2701	24.20								

DHK-NW 2225

23.56" Wheel Diameter Max. Motor Frame: 324T Outlet Area: 2.65 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	6		8		10		12		14		16		18		20		22	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3750	1416	1755	5.37	1961	7.29	2151	9.33	2322	11.45	2487	13.62	2647	15.85	2795	18.15	2935	20.50	3067	22.87
4250	1605	1820	6.07	2016	8.13	2197	10.29	2369	12.57	2526	14.93	2673	17.39	2820	19.85	2961	22.37	3095	24.95
4750	1794	1893	6.90	2082	9.06	2253	11.35	2414	13.73	2573	16.26	2720	18.87	2857	21.52	2989	24.31	3120	27.03
5250	1983	1970	7.75	2151	10.09	2320	12.52	2475	15.06	2622	17.70	2767	20.42	2905	23.24	3035	26.13	3159	29.09
5750	2172	2051	8.72	2226	11.20	2387	13.77	2541	16.45	2684	19.23	2814	22.02	2953	25.04	3083	28.08	3207	31.19
6250	2361	2137	9.82	2305	12.40	2461	15.14	2609	17.96	2751	20.89	2882	23.85	3007	26.93	3131	30.10		
7000	2644	2278	11.72	2428	14.44	2579	17.37	2717	20.36	2853	23.57	2982	26.73	3107	30.05	3223	33.37		
7750	2927	2422	13.91	2564	16.79	2701	19.89	2838	23.14	2967	26.50	3089	29.96	3209	33.46				
8500	3210	2567	16.38	2709	19.58	2835	22.76	2961	26.20	3087	29.76	3205	33.37						
9250	3494	2726	19.28	2855	22.69	2981	26.19	3097	29.70	3209	33.35								
10000	3777	2885	22.51	3005	26.18	3123	29.81	3238	33.61										

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

Class I | CLASS II | CLASS III | CLASS IV

DHK 2450

25.94" Wheel Diameter Max. Motor Frame: 324T Outlet Area: 3.59 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		2		3		4		6		8		10		12		14	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	1393	891	1.44	1044	2.37	1179	3.37	1305	4.45	1537	6.85								
6000	1671	1009	2.04	1143	3.10	1267	4.23	1381	5.44	1589	8.01	1782	10.82	1961	13.90				
7000	1950	1126	2.76	1255	4.04	1361	5.27	1467	6.57	1663	9.44	1839	12.44	2009	15.71	2169	19.19	2316	22.80
8000	2228	1251	3.72	1370	5.15	1472	6.56	1563	7.99	1749	11.10	1911	14.30	2069	17.78	2214	21.33	2361	25.22
9000	2507	1378	4.89	1485	6.43	1585	8.09	1670	9.61	1838	12.96	1997	16.50	2143	20.19	2284	24.04	2411	27.90
10000	2786	1506	6.27	1609	8.05	1701	9.83	1785	11.60	1935	15.13	2085	18.88	2228	22.91	2359	26.99	2485	31.13
11000	3064	1635	7.92	1731	9.89	1817	11.78	1901	13.84	2047	17.71	2179	21.65	2317	25.89	2445	30.28		
12000	3343	1765	9.85	1853	11.98	1940	14.15	2017	16.27	2159	20.57	2282	24.69	2409	29.22				
13000	3621	1895	12.08	1979	14.39	2061	16.77	2137	19.11	2273	23.79	2395	28.28						
14000	3900	2030	14.76	2111	17.30	2182	19.69	2257	22.25	2390	27.31								
15000	4178	2162	17.72	2240	20.47	2311	23.19	2376	25.68										

DHK-NW 2450

25.94" Wheel Diameter Max. Motor Frame: 326T Outlet Area: 3.21 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	6		8		10		12		14		16		18		20		22	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5500	1711	1691	7.93	1866	10.50	2022	13.21	2176	16.05	2317	18.98	2453	22.11	2578	25.28	2703	28.46	2825	31.71
6000	1867	1747	8.67	1914	11.44	2070	14.30	2213	17.31	2355	20.41	2487	23.60	2613	26.93	2731	30.32	2845	33.86
6500	2022	1807	9.67	1967	12.52	2120	15.49	2261	18.62	2391	21.85	2523	25.19	2649	28.68	2764	32.12	2879	35.83
7000	2178	1864	10.59	2023	13.59	2172	16.79	2311	20.03	2441	23.42	2561	26.87	2685	30.49	2803	34.18	2914	37.90
7500	2333	1929	11.70	2082	14.79	2226	18.13	2361	21.51	2491	25.06	2611	28.67	2723	32.33	2837	36.14		
8250	2567	2032	13.50	2173	16.77	2314	20.31	2443	23.97	2564	27.61	2685	31.48	2797	35.37	2905	39.42		
9000	2800	2143	15.67	2273	19.03	2405	22.75	2531	26.59	2649	30.55	2763	34.61	2873	38.68				
9750	3033	2251	17.99	2379	21.60	2501	25.47	2620	29.42	2737	33.62	2847	37.91						
10500	3267	2364	20.63	2490	24.55	2605	28.50	2711	32.50	2828	37.00	2935	41.44						
11250	3500	2479	23.43	2599	27.69	2713	31.92	2819	36.23	2919	40.61								
12000	3733	2601	26.74	2711	31.18	2820	35.56	2925	40.14										

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

Class I | CLASS II | CLASS III | CLASS IV

DHK 2700

28.63" Wheel Diameter Max. Motor Frame: 326T Outlet Area: 4.36 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		2		3		4		6		8		10		12		14	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1835	944	2.82	1067	4.2	1173	5.61	1275	7.1	1449	10.1	1601	13.27	1745	16.59	1878	20.11		
9000	2064	1028	3.60	1147	5.17	1249	6.79	1341	8.36	1509	11.66	1659	15.09	1793	18.67	1923	22.39	2045	26.29
10000	2294	1113	4.53	1229	6.31	1323	8.00	1411	9.81	1575	13.41	1719	17.12	1851	20.94	1972	24.91	2091	29.03
11000	2523	1201	5.59	1311	7.58	1405	9.52	1485	11.35	1641	15.31	1779	19.24	1911	23.45	2029	27.61	2141	31.98
12000	2752	1297	6.97	1393	9.02	1485	11.16	1564	13.17	1709	17.44	1847	21.72	1970	26.06	2090	30.65	2199	35.21
13000	2982	1391	8.50	1473	10.57	1564	12.92	1644	15.22	1785	19.77	1916	24.43	2035	28.96	2151	33.88	2259	38.73
14000	3211	1485	10.25	1561	12.50	1647	14.97	1728	17.57	1861	22.28	1982	27.21	2105	32.28	2214	37.23		
15000	3440	1577	12.16	1650	14.61	1731	17.26	1808	19.96	1943	25.23	2061	30.43	2170	35.61				
16000	3670	1674	14.46	1743	17.05	1814	19.74	1888	22.57	2020	28.22	2138	33.81	2246	39.53				
17000	3899	1768	16.92	1835	19.71	1899	22.53	1972	25.57	2103	31.69	2217	37.53						
18000	4128	1865	19.78	1929	22.72	1985	25.50	2055	28.77	2184	35.27								

DHK-NW 2700

28.63" Wheel Diameter Max. Motor Frame: 364T Outlet Area: 3.90 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	6		8		10		12		14		16		18		20		22	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6000	1539	1476	8.54	1639	11.53	1793	14.63	1935	17.94	2064	21.33	2191	24.84	2311	28.31	2429	32.00	2539	35.71
7000	1796	1557	10.17	1713	13.37	1853	16.73	1987	20.27	2117	23.99	2237	27.80	2351	31.76	2459	35.85	2567	39.86
8000	2052	1643	11.90	1789	15.43	1928	19.10	2055	22.92	2170	26.78	2291	30.98	2403	35.17	2511	39.54	2613	43.99
9000	2309	1732	13.89	1876	17.73	2005	21.71	2129	25.79	2247	30.08	2355	34.40	2457	38.84	2564	43.50	2666	48.25
10000	2565	1838	16.38	1964	20.28	2093	24.62	2209	29.03	2322	33.56	2429	38.15	2529	42.81	2626	47.67		
11000	2822	1945	19.18	2066	23.41	2182	27.82	2297	32.54	2403	37.35	2505	42.26	2607	47.35				
12000	3078	2053	22.32	2170	26.82	2278	31.48	2385	36.33	2491	41.49	2589	46.68						
13000	3335	2164	25.80	2278	30.73	2382	35.62	2481	40.72	2581	46.05								
14000	3591	2284	29.91	2385	34.95	2490	40.32	2582	45.45										
15000	3848	2403	34.37	2501	39.88	2597	45.36												
16000	4104	2520	39.13	2617	45.08														

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

Class I | CLASS II | CLASS III | CLASS IV

DHK 3000

31.88" Wheel Diameter Max. Motor Frame: 364T Outlet Area: 5.36 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		2		3		4		6		8		10		12		14	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	1866	862	3.60	973	5.34	1069	7.13	1157	8.91	1311	12.60	1449	16.56	1579	20.72	1699	25.10	1807	29.52
12000	2239	985	5.28	1091	7.43	1176	9.44	1257	11.64	1405	15.93	1537	20.43	1657	25.08	1764	29.74	1875	34.85
14000	2612	1115	7.46	1209	9.94	1296	12.50	1369	14.88	1503	19.80	1629	24.86	1743	30.04	1851	35.37	1951	40.84
16000	2985	1255	10.47	1329	13.02	1413	15.98	1485	18.81	1611	24.38	1728	30.06	1838	35.78	1938	41.58	2035	47.51
17000	3172	1321	12.09	1391	14.85	1470	17.87	1544	21.04	1667	26.68	1776	32.83	1885	38.84	1988	45.14		
18000	3358	1393	14.11	1459	17.03	1534	20.20	1603	23.40	1723	29.56	18.34	36.06	1935	42.24	2037	48.84		
19000	3545	1462	16.21	1523	19.15	1594	22.54	1663	25.98	1782	32.57	1890	39.28	1985	45.84				
20000	3731	1533	18.61	1594	21.83	1653	25.00	1720	28.57	1841	35.79	1944	36.04	2043	49.84				
21000	3918	1603	21.18	1661	24.50	1719	28.02	1784	31.74	1900	39.16	2005	46.55						
22000	4104	1675	24.09	1730	27.51	1784	31.14	1844	34.89	1961	42.85								
23000	4291	1745	27.13	1800	30.83	1850	34.45	1906	38.37	2017	46.37								

DHK-NW 3000

31.88" Wheel Diameter Max. Motor Frame: 405T Outlet Area: 4.80 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	6		8		10		12		14		16		18		20		22	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7000	1460	1243	9.39	1391	12.72	1522	16.25	1647	19.99	1761	23.81	1867	27.77	1972	32.09				
8000	1668	1291	10.80	1429	14.23	1561	18.07	1681	22.09	1791	26.22	1899	30.53	1999	34.92	2095	39.50	2187	44.24
9000	1877	1343	12.43	1479	16.15	1603	20.11	1720	24.32	1829	28.72	1931	33.30	2028	37.97	2123	42.77	2214	47.73
10000	2085	1401	14.08	1531	18.28	1651	22.44	1761	26.76	1867	31.32	1970	36.21	2066	41.21	2155	46.23	2243	51.46
11000	2294	1461	15.90	1585	20.43	1701	25.00	1811	29.64	1913	34.41	2011	39.39	2107	44.67	2195	49.91	2281	55.40
12000	2502	1520	17.83	1645	22.75	1755	27.76	1861	32.71	1961	37.71	2057	42.95	2147	48.25	2237	53.90	2322	59.61
14000	2919	1661	23.17	1764	27.86	1873	33.52	1970	39.15	2064	45.18	2157	51.03	2245	56.88	2328	62.78		
16000	3336	1805	29.64	1905	34.97	1999	40.52	2093	46.68	2182	53.07	2267	59.69	2347	66.41				
18000	3753	1955	37.30	2049	43.38	2138	49.42	2222	55.61	2305	62.24	2385	69.15						
20000	4170	2109	46.09	2197	53.25	2279	59.70	2363	66.70										
22000	4587	2266	56.42	2349	64.12														

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

Class I | CLASS II | CLASS III | CLASS IV

DHK 3300

34.94" Wheel Diameter Max. Motor Frame: 365T Outlet Area: 6.52 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		2		3		4		6		8		10		12		14	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11000	1687	734	3.62	835	5.48	929	7.48	1011	9.50	1157	13.72	1289	18.27	1407	22.97				
13000	1994	821	4.98	925	7.37	1007	9.65	1082	11.85	1223	16.71	1347	21.74	1459	26.96	1566	32.41	1666	38.11
14000	2147	868	5.84	969	8.42	1049	10.84	1122	13.30	1257	18.34	1376	23.51	1485	28.95	1591	34.78	1691	40.77
16000	2454	965	7.88	1056	10.75	1132	13.49	1203	16.36	1331	22.06	1447	27.95	1553	33.91	1651	40.08	1743	46.50
18000	2761	1070	10.58	1147	13.61	1223	16.86	1290	20.00	1407	26.36	1519	32.71	1620	39.25	1714	45.84	1807	52.93
20000	3067	1173	13.74	1240	17.03	1313	20.62	1376	24.09	1488	30.91	1591	37.99	1691	45.11	1785	52.58		
22000	3374	1277	17.53	1333	20.87	1400	24.74	1464	28.72	1578	36.62	1675	44.27	1769	52.11				
24000	3681	1381	21.96	1438	25.90	1494	29.83	1553	33.96	1666	42.83	1761	51.11	1847	59.46				
26000	3988	1487	27.23	1539	31.35	1588	35.57	1644	39.96	1753	49.51	1847	58.62						
27000	4141	1541	30.23	1589	34.29	1638	38.77	1693	43.51	1797	53.11								
28000	4294	1595	33.45	1642	37.70	1690	42.36	1740	47.09	1843	57.09								

DHK-NW 3300

34.94" Wheel Diameter Max. Motor Frame: 405T Outlet Area: 5.84 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	6		8		10		12		14		16		18		20		22	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9000	1542	1149	12.10	1281	16.25	1399	20.63	1507	25.24	1613	30.12	1711	35.15	1803	40.34	1889	45.62		
10000	1713	1185	13.56	1311	17.85	1429	22.53	1537	27.44	1635	32.48	1731	37.74	1823	43.20	1911	48.88	1993	54.59
11000	1885	1225	15.25	1349	19.81	1459	24.53	1564	29.58	1666	35.10	1757	40.56	1845	46.28	1933	52.24	2014	58.15
12000	2056	1269	16.89	1387	21.89	1497	26.94	1597	32.13	1695	37.72	1787	43.52	1875	49.59	1955	55.58	2037	61.99
14000	2399	1359	20.60	1470	26.23	1570	32.04	1672	37.99	1761	43.75	1849	49.98	1935	56.49	2014	62.94	2093	69.85
16000	2741	1459	25.38	1561	31.23	1659	37.67	1751	44.47	1838	51.04	1923	57.70	2003	64.47	2081	71.55	2155	78.65
18000	3084	1566	31.29	1659	37.34	1751	44.07	1840	51.34	1920	58.52	2001	66.45	2079	73.75	2155	81.29		
20000	3427	1675	38.19	1766	44.92	1849	51.70	1931	59.07	2011	66.94	2088	75.15	2161	83.52				
22000	3769	1785	45.70	1873	53.46	1955	60.96	2029	68.30	2103	76.24	2176	84.70						
24000	4112	1903	54.69	1982	63.14	2061	71.26	2135	79.40										
26000	4455	2022	64.90	2099	74.11	2172	83.25												

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

Class I | CLASS II | CLASS III | CLASS IV

DHK 3650

38.69" Wheel Diameter Max. Motor Frame: 405T Outlet Area: 7.80 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		2		3		4		6		8		10		12		14	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13000	1667	647	4.15	741	6.40	826	8.72	901	11.12	1032	16.11	1155	21.64	1263	27.35				
15000	1923	713	5.47	805	8.12	879	10.66	953	13.40	1079	18.90	1193	24.88	1299	31.09	1397	37.60	1487	44.31
17000	2179	780	7.07	867	10.05	941	13.04	1009	16.09	1129	22.11	1241	28.65	1339	35.26	1432	42.12	1523	49.45
19000	2436	851	9.07	932	12.34	1003	15.66	1067	19.06	1185	25.84	1288	32.70	1385	39.84	1476	47.40	1561	55.11
20000	2564	887	10.17	964	13.57	1035	17.14	1099	20.74	1213	27.85	1314	34.92	1411	42.50	1501	50.31	1582	58.09
23000	2949	1001	14.34	1067	18.17	1135	22.33	1194	26.33	1299	34.42	1397	42.54	1488	50.84	1573	59.41	1655	68.21
26000	3333	1115	19.50	1293	33.10	1234	28.33	1293	33.10	1391	41.86	1482	51.19	1567	60.11	1653	69.91		
28000	3590	1193	23.71	1242	27.93	1302	33.03	1358	38.03	1457	47.86	1544	57.56	1623	67.27				
30000	3846	1271	28.50	1320	33.26	1367	37.95	1423	43.43	1520	54.06	1607	64.56						
32000	4103	1349	33.88	1392	38.53	1438	43.93	1491	49.64	1585	60.89	1672	72.38						
34000	4359	1427	39.90	1471	45.21	1511	50.40	1559	56.43	1650	68.23								

DHK-NW 3650

38.69" Wheel Diameter Max. Motor Frame: 444T Outlet Area: 7.05 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	6		8		10		12		14		16		18		20		22	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	1701	1061	16.14	1178	21.46	1285	27.13	1381	32.99	1472	39.24	1559	45.56	1643	52.26	1722	59.11	1797	66.14
14000	1985	1120	19.37	1232	25.30	1332	31.29	1426	37.64	1516	44.41	1599	51.32	1676	58.33	1753	65.73	1828	73.30
16000	2269	1185	22.80	1291	29.68	1385	36.12	1478	43.10	1561	50.03	1643	57.42	1722	65.19	1795	72.97	1866	81.09
18000	2552	1255	26.95	1355	34.14	1445	41.60	1532	49.12	1616	56.78	1693	64.46	1764	72.09	1839	80.65	1909	89.21
20000	2836	1332	32.14	1420	39.10	1511	47.35	1593	55.71	1672	64.20	1747	72.30	1820	80.81	1889	89.44	1955	98.22
22000	3119	1411	38.11	1497	45.68	1576	53.50	1659	62.66	1734	71.79	1803	80.94	1873	89.76	1943	99.16		
24000	3403	1491	44.87	1573	52.87	1649	61.09	1723	69.92	1799	79.87	1869	89.82	1932	99.46				
26000	3686	1573	52.41	1653	61.23	1726	69.90	1795	78.82	1864	88.52	1932	98.85						
28000	3970	1657	60.55	1734	70.56	1805	79.80	1870	88.93	1937	99.05								
30000	4254	1741	69.49	1816	80.66	1885	90.73	1951	100.83										
32000	4537	1831	80.19	1901	91.62	1964	102.46												

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

Class I | CLASS II | CLASS III | CLASS IV

DHK 4025

42.63" Wheel Diameter Max. Motor Frame: 405T Outlet Area: 9.69 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		2		3		4		6		8		10		12		14	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16000	1651	592	5.15	676	7.88	755	10.83	820	13.65	943	19.99	1051	26.58	1149	33.57				
18000	1858	639	6.39	723	9.55	796	12.84	861	16.02	976	22.66	1079	29.82	1176	37.32	1264	45.07	1347	53.28
20000	2064	689	7.92	773	11.59	840	15.10	903	18.67	1014	25.90	1116	33.62	1205	41.48	1293	49.81	1373	58.27
22000	2270	743	9.86	820	13.72	887	17.65	944	21.50	1055	29.46	1151	37.54	1241	46.09	1322	54.81	1401	63.75
24000	2477	797	12.00	870	16.23	932	20.33	988	24.48	1094	33.14	1190	42.05	1276	50.92	1357	60.23	1429	69.39
28000	2890	911	17.54	970	22.15	1032	27.24	1087	32.25	1181	41.98	1267	51.55	1353	62.06	1429	72.35	1503	83.00
32000	3302	1025	24.56	1074	29.68	1129	35.15	1184	41.19	1275	52.30	1355	63.45	1434	74.87	1509	86.46		
36000	3715	1141	33.49	1183	38.82	1232	45.18	1282	51.62	1370	64.32	1447	76.57	1520	89.52				
38000	3922	1199	38.66	1242	44.66	1284	50.91	1332	57.59	1420	71.28	1497	84.47						
40000	4128	1257	44.34	1299	50.75	1336	56.85	1382	63.99	1467	78.12								
42000	4334	1317	50.87	1357	57.54	1394	64.17	1432	70.85	1519	86.32								

DHK-NW 4025

42.63" Wheel Diameter Max. Motor Frame: 445T Outlet Area: 8.57 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	6		8		10		12		14		16		18		20		22	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14000	1634	953	18.83	1059	25.08	1157	31.86	1245	38.89	1326	45.97	1409	53.86	1485	16.81	1557	70.01	1625	78.39
16000	1867	995	22.00	1097	28.67	1191	35.85	1276	43.18	1359	51.23	1435	59.41	1509	67.87	1579	76.38	1647	85.28
18000	2100	1041	25.18	1140	32.91	1229	40.36	1313	48.33	1393	56.68	1467	65.20	1539	74.26	1605	83.26	1670	92.60
20000	2334	1093	29.02	1185	37.21	1272	45.66	1353	53.99	1426	62.30	1501	71.58	1572	81.08	1639	90.78	1703	100.73
22000	2567	1141	32.87	1232	41.64	1314	50.77	1359	60.28	1467	69.09	1539	78.72	1605	88.28	1670	98.23	1735	108.90
25000	2917	1231	41.15	1311	49.91	1390	59.77	1461	69.67	1532	80.61	1601	90.85	1664	100.89	1729	111.97		
28000	3267	1317	50.24	1395	59.93	1466	69.77	1535	80.40	1605	92.23	1669	104.02	1729	115.67				
31000	3617	1411	61.60	1484	71.96	1551	82.39	1614	93.07	1681	105.50	1743	117.95						
34000	3967	1505	73.67	1573	85.51	1638	96.81	1701	108.68	1759	120.43								
37000	4317	1601	87.59	1664	100.41	1726	113.03	1785	125.30										
40000	4668	1697	103.15	1761	117.67														

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

Class I | CLASS II | CLASS III | CLASS IV

DHK 4450

47.13" Wheel Diameter Max. Motor Frame: 444T Outlet Area: 11.94 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		2		3		4		6		8		10		12		14	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	1675	544	6.58	622	10.12	690	13.68	751	17.38	859	25.06	955	33.18	1043	41.77				
23000	1926	599	8.66	673	12.69	735	16.76	794	20.84	899	29.47	989	38.23	1075	47.72	1155	57.54	1226	67.29
26000	2178	655	11.19	728	15.92	787	20.41	838	24.81	938	34.11	1029	44.04	1111	54.29	1185	64.58	1259	75.59
30000	2513	735	15.50	800	20.80	858	26.17	907	31.24	1001	42.02	1085	52.76	1161	63.65	1237	75.65	1303	87.21
34000	2848	819	21.06	874	26.79	929	32.84	976	38.55	1064	50.73	1146	62.93	1220	75.11	1288	87.43	1357	100.76
38000	3183	903	27.82	950	34.05	1000	40.45	1050	47.59	1134	60.91	1207	74.24	1281	87.89	1347	101.30		
42000	3518	989	36.18	1032	43.02	1078	50.23	1123	57.60	1205	72.55	1276	87.05	1341	101.83				
44000	3685	1033	41.09	1073	47.98	1114	55.16	1159	62.99	1241	78.99	1311	94.08	1373	108.96				
46000	3853	1075	46.07	1112	52.92	1153	60.94	1194	68.53	1278	85.96	1344	101.01						
48000	4020	1119	51.82	1157	59.42	1192	67.01	1232	74.98	1313	92.75								
50000	4188	1161	57.61	1199	65.77	1233	73.64	1272	82.26	1347	99.64								

DHK-NW 4450

47.13" Wheel Diameter Max. Motor Frame: 447T Outlet Area: 10.57 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	6		8		10		12		14		16		18		20		22	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18000	1703	876	24.39	967	31.93	1057	40.60	1137	49.48	1211	58.76	1283	68.32	1351	78.18	1416	88.44	1476	98.64
21000	1987	923	29.05	1016	38.12	1097	46.97	1175	56.58	1247	66.44	1316	76.90	1379	87.34	1441	98.29	1503	109.66
24000	2271	981	34.69	1064	44.53	1143	54.53	1214	64.23	1285	75.00	1353	86.19	1414	97.10	1476	109.07	1535	121.33
27000	2555	1035	40.52	1119	51.54	1193	62.76	1263	73.95	1331	85.26	1395	96.89	1455	108.69	1514	120.97	1572	133.88
30000	2839	1101	48.65	1175	59.39	1247	71.34	1311	83.21	1378	96.57	1439	108.58	1499	121.33	1555	134.07	1609	147.18
33000	3122	1164	57.34	1235	68.75	1303	81.05	1369	94.38	1429	107.69	1487	121.70	1545	135.34	1601	149.05		
36000	3406	1234	68.19	1301	80.19	1363	92.48	1425	106.04	1482	119.65	1541	134.93	1595	150.00				
39000	3690	1301	79.36	1364	92.22	1426	105.68	1484	119.40	1538	133.27	1597	149.66						
42000	3974	1370	91.57	1434	106.99	1493	121.07	1547	134.99	1599	149.37								
45000	4258	1441	105.49	1503	122.44	1559	137.61	1613	152.75										
48000	4542	1516	121.88	1570	138.02														

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

Class I | CLASS II | CLASS III | CLASS IV

DHK 4900

51.88" Wheel Diameter Max. Motor Frame: 445T Outlet Area: 14.41 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		2		3		4		6		8		10		12		14	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
25000	1735	505	8.49	575	12.90	632	17.06	690	21.87	785	31.12	875	41.62	955	52.29	1026	63.13		
28000	1943	547	10.66	611	15.33	667	20.25	723	25.45	817	35.79	901	46.75	978	58.16	1049	69.81	1114	81.73
31000	2151	589	13.18	654	18.68	709	24.16	757	29.50	849	40.79	931	52.54	1003	64.40	1073	77.09	1139	90.05
34000	2359	633	16.22	692	21.89	747	28.05	794	34.05	882	46.16	961	58.78	1034	71.73	1099	84.74	1161	98.19
36000	2498	664	18.55	722	24.74	775	31.02	820	37.34	905	50.14	982	63.17	1053	76.58	1117	89.94	1181	104.75
40000	2776	725	23.71	777	30.50	826	37.41	873	44.71	951	58.68	1026	72.80	1095	87.53	1159	102.38	1220	117.73
44000	3053	789	30.21	833	37.24	882	45.10	928	53.36	1003	68.35	1070	83.37	1140	99.09	1201	115.54		
48000	3331	853	37.80	892	45.31	935	53.21	979	62.04	1055	79.02	1122	96.09	1185	112.93	1247	130.42		
52000	3609	917	46.56	955	54.94	992	63.07	1035	72.71	1109	91.27	1173	109.12	1232	127.51				
56000	3886	981	56.58	1017	65.58	1051	74.57	1088	83.76	1161	104.02	1226	123.91						
60000	4146	1045	67.94	1077	76.92	1111	87.22	1147	97.57	1217	118.95								

DHK-NW 4900

51.88" Wheel Diameter Max. Motor Frame: 504T Outlet Area: 12.85 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	6		8		10		12		14		16		18		20		22	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	1556	773	26.66	861	35.70	943	45.68	1014	55.68	1087	66.71	1153	77.83	1216	89.51	1275	101.44		
23000	1789	811	31.60	895	41.30	972	51.66	1043	62.50	1111	74.21	1170	85.42	1235	98.31	1293	110.82	1349	123.85
26000	2023	849	36.52	926	46.90	1003	58.27	1070	69.47	1139	82.23	1201	94.92	1259	107.92	1311	120.51	1369	134.95
30000	2334	903	43.66	979	55.99	1049	68.55	1114	80.69	1176	93.52	1235	106.81	1295	121.38	1351	136.11	1403	150.80
34000	2645	963	52.71	1034	65.61	1101	79.60	1163	94.02	1223	107.74	1279	121.67	1335	136.74	1387	151.73	1439	167.54
38000	2956	1026	65.56	1091	76.71	1155	91.44	1216	107.14	1270	122.45	1328	139.10	1379	154.05	1432	170.68		
42000	3268	1091	76.23	1155	90.78	1213	105.47	1272	122.10	1326	138.78	1376	155.51	1428	174.29				
46000	3579	1161	91.60	1220	106.24	1276	122.47	1328	138.40	1379	155.45	1432	174.60						
50000	3890	1231	107.77	1285	124.46	1338	140.88	1391	158.69	1440	176.43								
54000	4201	1301	125.73	1355	145.17	1407	163.54	1457	182.01										
58000	4512	1373	146.33	1423	166.16														

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

Class I | CLASS II | CLASS III | CLASS IV

DHK 5425

57.44" Wheel Diameter Max. Motor Frame: 447T Outlet Area: 17.60 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		2		3		4		6		8		10		12		14	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
34000	1932	489	12.68	551	18.74	601	24.65	651	30.88	735	43.3	811	56.64	879	70.14	947	85.18	1007	100.08
38000	2159	531	16.07	589	22.70	640	29.57	682	35.91	764	49.50	841	64.45	907	79.22	967	93.98	1029	110.48
42000	2386	575	20.20	630	27.50	676	34.56	720	42.23	799	57.15	870	72.69	935	88.42	995	104.80	1053	122.09
45000	2557	609	23.72	660	31.38	706	39.18	747	46.89	825	63.33	894	79.47	959	96.57	1017	113.31	1070	130.22
50000	2814	667	30.69	712	38.99	757	47.85	799	56.98	869	74.42	935	91.86	997	110.16	1055	128.93	1109	147.69
55000	3125	725	38.92	762	47.33	809	57.85	849	67.92	914	85.91	978	106.09	1038	125.49	1094	145.60		
57500	3267	753	43.29	791	52.81	833	62.82	870	72.62	938	92.55	1001	113.77	1059	133.84	1114	154.42		
60000	3409	783	48.48	820	58.47	857	68.07	897	79.28	966	100.84	1025	121.76	1081	142.92				
65000	3693	843	60.09	874	69.63	911	81.22	947	92.48	1014	115.94	1070	137.60	1123	160.44				
70000	3977	903	73.41	933	83.93	964	95.62	1000	108.16	1064	133.03	1122	157.88						
74000	4205	951	85.38	981	97.00	1009	108.69	1041	121.35	1105	148.15								

DHK-NW 5425

57.44" Wheel Diameter Max. Motor Frame: 504T Outlet Area: 15.68 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	6		8		10		12		14		16		18		20		22	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24000	1530	697	32.35	776	43.25	849	55.20	916	67.71	979	80.52	1039	94.10	1095	108.05	1149	122.72		
28000	1785	731	38.45	807	50.32	876	62.83	941	76.26	1001	90.21	1059	105.02	1114	119.80	1167	135.37	1217	151.00
32000	2040	767	44.80	840	58.25	907	71.76	967	85.42	1026	100.21	1085	116.60	1137	132.42	1187	148.92	1237	165.91
36000	2295	807	51.91	876	66.82	941	81.99	1001	96.98	1057	112.50	1113	129.34	1164	145.97	1214	163.58	1261	181.37
40000	2550	849	60.18	914	75.53	978	93.01	1035	109.42	1091	126.24	1143	143.30	1193	161.06	1241	179.10	1289	198.43
45000	2869	909	73.63	969	89.57	1028	107.47	1082	125.80	1134	145.05	1185	163.39	1234	182.39	1281	201.93		
50000	3188	967	88.40	1023	105.04	1079	123.69	1132	143.39	1184	164.65	1231	185.58	1276	205.88	1320	####		
55000	3507	1031	106.91	1085	125.03	1137	144.31	1182	162.55	1234	185.61	1281	####	1325	231.05				
60000	3826	1094	126.24	1147	147.41	1195	167.14	1241	187.61	1285	208.79	1329	231.63						
65000	4144	1159	148.31	1209	172.17	1257	194.16	1301	215.75										
70000	4463	1226	173.81	1273	198.62	1317	222.90												

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

Class I | CLASS II | CLASS III | CLASS IV

DHK 6000

63.59" Wheel Diameter Max. Motor Frame: 447T Outlet Area: 21.52 sq.ft.

		STATIC PRESSURE, inches of water																	
Flow	O.V.	1		2		3		4		6		8		10		12		14	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
43000	1998	453	16.73	507	24.23	553	31.93	597	39.54	670	54.91	739	71.22	801	89.10	861	107.52	914	125.73
47000	2184	483	20.10	538	28.79	581	36.78	620	44.91	695	62.01	761	79.60	822	98.25	878	117.21	929	135.75
51000	2370	515	24.17	567	33.41	609	42.09	647	51.04	717	68.68	784	88.32	843	107.59	897	127.49	949	148.24
55000	2556	549	28.94	595	38.26	638	48.13	673	57.06	741	76.38	807	97.21	864	117.48	919	138.98	969	160.65
59000	2742	583	34.29	626	44.27	669	55.24	705	65.31	769	85.89	829	106.16	885	127.74	938	149.82	990	173.55
65000	3020	633	43.22	671	53.99	712	65.84	749	77.78	811	100.19	869	123.37	923	146.26	973	169.82	1020	193.35
75000	3485	721	62.97	751	74.31	788	87.99	822	101.33	882	127.50	935	153.50	985	180.24				
78000	3625	747	69.73	777	81.86	809	94.78	844	109.22	905	137.39	957	164.13	1005	191.71				
82000	3810	781	79.20	809	91.48	841	106.05	873	120.20	934	150.48	985	178.28						
84000	3903	799	84.68	827	97.50	857	112.00	886	125.24	949	157.48	997	184.47						
88000	4089	835	96.38	862	109.82	886	122.70	917	138.26	978	171.46								

DHK-NW 6000

63.59" Wheel Diameter Max. Motor Frame: 5008T Outlet Area: 19.23 sq.ft.

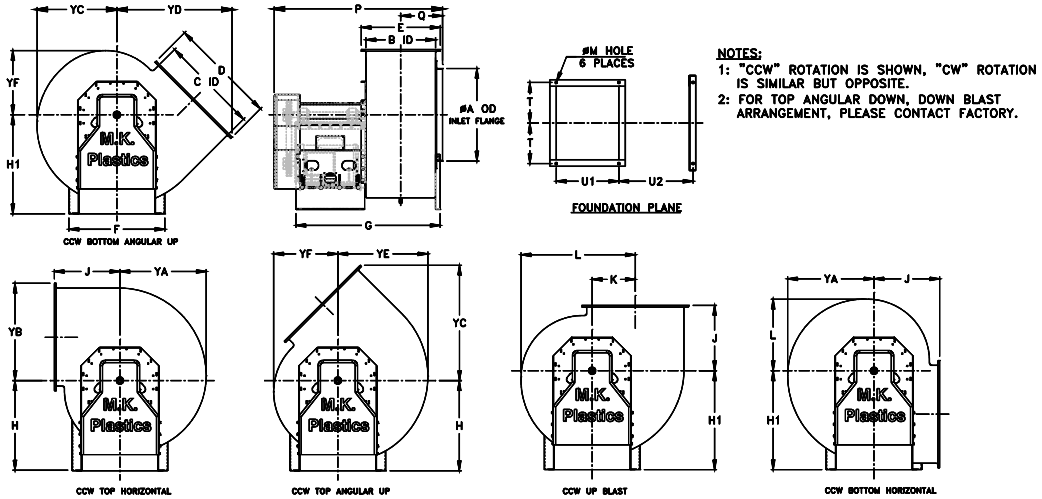
		STATIC PRESSURE, inches of water																	
Flow	O.V.	6		8		10		12		14		16		18		20		22	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
35000	1820	661	47.55	732	62.74	795	78.49	853	94.94	909	112.83	959	130.57	1009	149.09	1057	168.30	1103	188.16
40000	2080	699	56.37	761	72.41	825	90.16	879	107.18	934	126.22	984	145.34	1029	164.11	1076	185.34	1120	206.30
45000	2340	737	65.74	799	84.29	855	102.73	911	122.03	961	141.15	1009	161.10	1057	182.61	1101	203.92	1143	225.72
50000	2600	773	75.51	835	95.76	891	116.92	941	137.34	991	158.02	1039	179.72	1082	200.75	1126	223.60	1167	246.23
55000	2860	817	88.94	873	108.98	928	131.55	976	153.63	1023	177.08	1067	198.46	1111	221.47	1155	246.17		
60000	3120	861	103.86	916	125.56	964	146.88	1011	170.08	1059	196.18	1101	221.08	1145	246.42	1187	271.70		
65000	3380	909	122.01	959	143.77	1005	165.95	1051	190.45	1097	217.31	1138	243.29	1176	269.14				
70000	3640	955	140.85	1003	164.17	1049	188.35	1088	210.62	1134	239.26	1173	265.53						
75000	3900	1003	161.47	1049	187.51	1093	212.69	1134	238.08	1170	261.98								
80000	4160	1050	183.38	1096	213.36	1135	237.74	1178	266.44										
85000	4420	1097	207.17	1143	239.66	1184	269.55												

Performance certified is for installation
type B: Free Inlet, Ducted Outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects
of appurtenances (accessories).

Standard Conditions 70°F 0.075 lb/ft^3

DIMENSIONS — ARRANGEMENT 10

DHK (100% Width), SIZES 1225 THROUGH 3650
DHK-NW (66% Width), SIZES 1825 THROUGH 3650)



FAN SIZE	A	B		C	D	E		F	G	
		DHK	DHK-NW			DHK	DHK-NW		DHK	DHK-NW
1225	13.38	9.38	-	13.75	16.88	12.50	-	17.88	33.13	-
1500	16.50	11.50	-	16.88	19.88	14.50	-	17.88	33.55	-
1825	19.50	14.00	12.50	20.50	23.75	17.50	16.00	22.75	45.00	43.50
2225	24.50	17.06	15.25	25.00	28.25	20.81	19.00	22.75	50.81	49.00
2450	26.50	18.81	16.75	27.53	30.75	22.80	20.74	39.00	52.19	50.13
2700	29.75	20.69	18.44	30.34	33.69	24.69	22.44	39.00	54.06	51.81
3000	33.00	23.00	20.50	33.69	37.06	27.50	25.00	39.00	56.69	54.19
3300	36.00	25.25	22.50	37.25	40.75	29.75	27.00	39.00	58.94	56.19
3650	40.00	28.00	24.94	40.13	43.75	32.75	29.69	39.00	61.69	58.63

FAN SIZE	H	H1	J	K	L	M	P		Q	
							DHK	DHK-NW	DHK	DHK-NW
1225	16.50	16.50	9.41	6.25	10.31	0.56	35.25	-	7.13	-
1500	16.50	19.50	11.56	7.63	12.65	0.56	36.69	-	8.19	-
1825	23.50	23.50	14.00	9.31	15.25	0.56	51.94	50.44	10.75	10.00
2225	27.50	27.50	17.06	11.31	18.56	0.56	57.81	56.00	12.31	11.40
2450	31.61	31.61	18.81	12.47	20.47	0.56	61.13	59.07	13.31	12.28
2700	31.61	31.61	20.69	13.69	22.63	0.56	64.99	62.74	14.25	13.13
3000	31.61	42.61	23.00	15.28	25.09	0.56	67.19	64.69	15.69	14.44
3300	42.61	42.61	24.81	16.75	27.56	0.69	69.44	66.69	16.88	15.51
3650	42.61	42.61	28.00	19.00	30.44	0.69	72.19	69.13	18.25	16.72

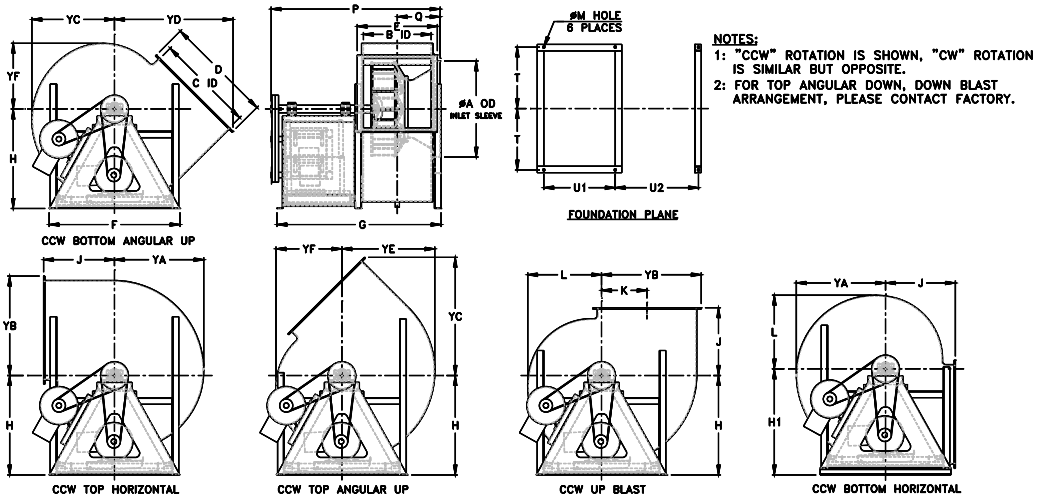
FAN SIZE	T	U1	U2		YA	YB	YC	YD	YE	YF
			DHK	DHK-NW						
1225	8.19	13.00	14.19	-	12.46	14.67	17.02	11.44	12.96	9.10
1500	8.19	13.00	16.56	-	15.16	17.56	20.59	13.93	15.83	11.25
1825	10.75	16.50	20.63	19.13	18.47	21.16	24.86	17.00	19.28	13.73
2225	10.75	16.50	23.75	21.94	22.47	25.44	30.06	20.82	23.45	16.69
2450	17.38	25.50	23.75	21.69	23.91	27.84	32.98	22.33	25.36	18.35
2700	17.38	25.50	25.63	23.38	27.32	30.54	36.23	25.20	28.43	20.21
3000	17.38	25.50	28.25	25.75	30.24	33.80	40.17	28.01	31.93	22.50
3300	17.38	25.50	30.50	27.75	33.28	37.00	44.06	30.86	34.72	24.49
3650	17.38	25.50	33.25	30.19	36.70	40.87	48.70	33.98	38.34	27.30

Dimensions and specifications are subject to change. Certified prints are available.

DIMENSIONS — ARRANGEMENT 1 OR 9

DHK (100% Width), SIZES 1225 THROUGH 3650
DHK-NW (66% Width), SIZES 1825 THROUGH 3650)

NOTE: Arrangement 1 & 9 from 1225 to 3650 are non standard



FAN SIZE	A	B		C	D	E		F	G	
		DHK	DHK-NW			DHK	DHK-NW		DHK	DHK-NW
1225	13.38	9.38	–	13.75	16.88	12.50	–	17.88	33.13	–
1500	16.50	11.50	–	16.88	19.88	14.50	–	17.88	33.55	–
1825	19.50	14.00	12.50	20.50	23.75	17.50	16.00	22.75	45.00	43.50
2225	24.50	17.06	15.25	25.00	28.25	20.81	19.00	22.75	50.81	49.00
2450	26.50	18.81	16.75	27.53	30.75	22.80	20.74	34.00	48.81	46.75
2700	29.75	20.69	18.44	30.34	33.69	24.69	22.44	34.00	50.56	48.31
3000	33.00	23.00	20.50	33.69	37.06	27.50	25.00	34.00	53.31	50.81
3300	36.00	25.25	22.50	37.25	40.75	29.75	27.00	45.00	57.69	54.94
3650	40.00	28.00	24.94	40.13	43.75	32.75	29.69	45.00	60.56	57.50

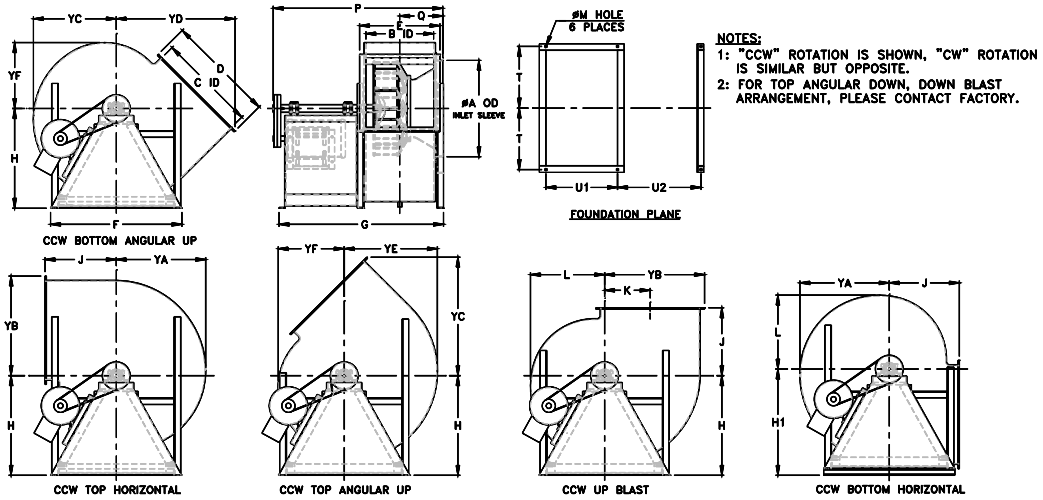
FAN SIZE	H	H1	J	K	L	M	P		Q	
							DHK	DHK-NW	DHK	DHK-NW
1225	16.50	16.50	9.41	6.25	10.31	0.56	33.25	–	7.13	–
1500	16.50	19.50	11.56	7.63	12.65	0.56	34.69	–	8.19	–
1825	23.50	23.50	14.00	9.31	15.25	0.56	46.94	45.44	10.75	10.00
2225	27.50	27.50	17.06	11.31	18.56	0.56	52.81	51.00	12.31	11.40
2450	32.11	35.11	18.81	12.47	20.47	0.56	52.81	50.75	13.31	12.28
2700	32.11	35.11	20.69	13.69	22.63	0.56	54.56	52.31	14.25	13.13
3000	32.90	35.90	23.00	15.28	25.09	0.56	57.31	54.81	15.69	14.44
3300	40.65	43.65	24.81	16.75	27.56	0.69	62.32	59.57	16.88	15.51
3650	40.65	43.65	28.00	19.00	30.44	0.69	65.19	62.13	18.25	16.72

FAN SIZE	T	U1	U2		YA	YB	YC	YD	YE	YF
			DHK	DHK-NW						
1225	8.19	13.00	14.19	–	12.46	14.67	17.02	11.44	12.96	9.10
1500	8.19	13.00	16.56	–	15.16	17.56	20.59	13.93	15.83	11.25
1825	10.75	16.50	20.63	19.13	18.47	21.16	24.86	17.00	19.28	13.73
2225	10.75	16.50	23.75	21.94	22.47	25.44	30.06	20.82	23.45	16.69
2450	15.75	22.00	24.81	22.75	23.91	27.84	32.98	22.33	25.36	18.35
2700	15.75	22.00	26.56	24.31	27.32	30.54	36.23	25.20	28.43	20.21
3000	15.75	22.00	29.31	26.81	30.24	33.80	40.17	28.01	31.93	22.50
3300	21.25	24.00	31.69	28.94	33.28	37.00	44.06	30.86	34.72	24.49
3650	21.25	24.00	34.56	31.50	36.70	40.87	48.70	33.98	38.34	27.30

Dimensions and specifications are subject to change. Certified prints are available.

DIMENSIONS — ARRANGEMENT 10

DHK (100% Width), SIZES 4025 THROUGH 6000
DHK-NW (66% Width), SIZES 4025 THROUGH 6000)



FAN SIZE	A	B		C	D	E		F	G	
		DHK	DHK-NW			DHK	DHK-NW		DHK	DHK-NW
4025	44.00	30.88	27.51	44.88	49.50	36.63	33.26	58.75	76.88	73.51
4450	48.63	34.13	30.44	50.38	55.13	38.88	35.19	64.00	80.13	76.44
4900	53.50	37.56	33.44	55.25	60.00	43.81	39.69	67.00	87.63	83.51
5425	59.00	41.69	37.06	60.94	65.69	47.97	43.34	74.00	92.13	87.50
6000	65.00	46.00	41.06	67.44	72.88	53.06	48.12	80.50	96.63	91.69

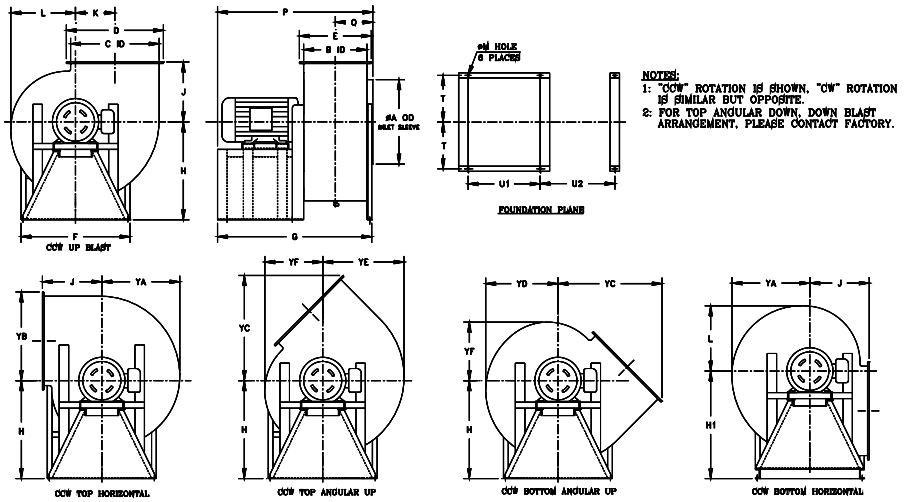
FAN SIZE	H	H1	J	K	L	M	P		Q	
							DHK	DHK-NW	DHK	DHK-NW
4025	45.53	49.53	31.00	20.75	33.75	0.69	82.88	79.51	19.69	18.00
4450	50.50	54.50	34.50	22.56	37.18	0.69	86.13	82.44	21.31	19.47
4900	55.00	59.00	37.63	24.88	40.75	0.69	95.13	91.01	23.31	21.25
5425	59.91	63.91	41.78	27.69	45.81	0.69	99.63	95.00	25.50	23.19
6000	66.16	70.16	46.00	30.59	50.31	0.69	104.13	99.19	27.81	25.34

FAN SIZE	T	U1	U2		YA	YB	YC	YD	YE	YF
			DHK	DHK-NW						
4025	28.13	35.63	36.75	33.38	40.68	45.50	54.09	37.72	42.44	30.06
4450	30.75	35.63	40.00	36.31	44.87	49.56	59.44	41.58	46.84	33.31
4900	32.25	39.13	44.00	39.88	49.27	54.88	65.41	45.66	51.45	36.57
5425	35.75	39.13	48.50	43.87	54.75	60.53	72.35	50.58	57.05	40.64
6000	39.00	39.13	53.00	48.06	60.50	67.00	80.06	56.15	63.07	44.92

Dimensions and specifications are subject to change. Certified prints are available.

DIMENSIONS — ARRANGEMENT 4

DHK (100% Width), SIZES 1225 THROUGH 3650
DHK-NW (66% Width), SIZES 1825 THROUGH 3650)



FAN SIZE	A	B		C	D	E		F	G	
		DHK	DHK-NW			DHK	DHK-NW		DHK	DHK-NW
1225	13.38	9.38	–	13.75	16.88	12.50	–	17.88	33.13	–
1500	16.50	11.50	–	16.88	19.88	14.50	–	17.88	33.55	–
1825	19.50	14.00	12.50	20.50	23.75	17.50	16.00	22.75	45.00	43.50
2225	24.50	17.06	15.25	25.00	28.25	20.81	19.00	22.75	50.81	49.00
2450	26.50	18.81	16.75	27.53	30.75	22.80	20.74	34.00	48.81	46.75
2700	29.75	20.69	18.44	30.34	33.69	24.69	22.44	34.00	50.56	48.31
3000	33.00	23.00	20.50	33.69	37.06	27.50	25.00	34.00	53.31	50.81
3300	36.00	25.25	22.50	37.25	40.75	29.75	27.00	45.00	57.69	54.94
3650	40.00	28.00	24.94	40.13	43.75	32.75	29.69	45.00	60.56	57.50

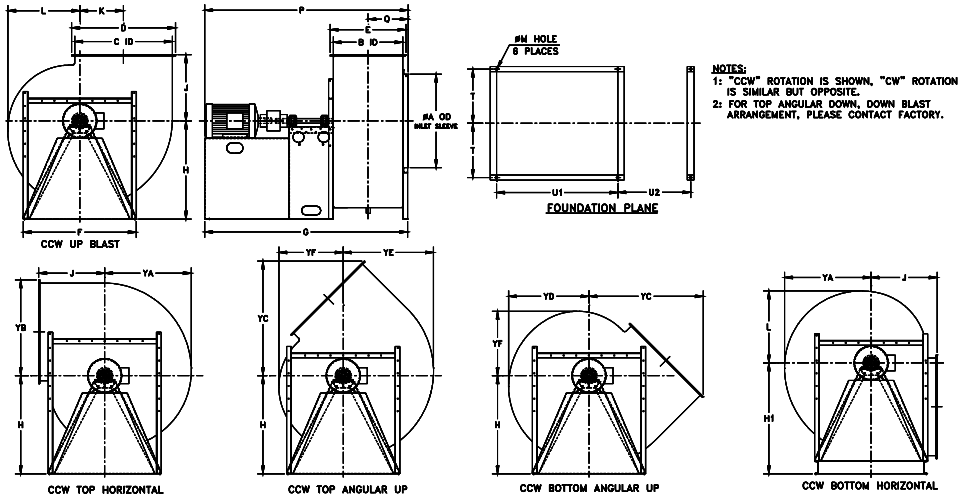
FAN SIZE	H	H1	J	K	L	M	P		Q	
							DHK	DHK-NW	DHK	DHK-NW
1225	16.50	16.50	9.41	6.25	10.31	0.56	33.13	–	7.13	–
1500	16.50	19.50	11.56	7.63	12.65	0.56	33.55	–	8.19	–
1825	23.50	23.50	14.00	9.31	15.25	0.56	46.00	44.50	10.75	10.00
2225	27.50	27.50	17.06	11.31	18.56	0.56	51.81	50.00	12.31	11.40
2450	32.11	35.11	18.81	12.47	20.47	0.56	49.81	47.75	13.31	12.28
2700	32.11	35.11	20.69	13.69	22.63	0.56	51.56	49.31	14.25	13.13
3000	32.90	35.90	23.00	15.28	25.09	0.56	54.31	51.81	15.69	14.44
3300	40.65	43.65	24.81	16.75	27.56	0.69	58.69	55.94	16.88	15.51
3650	40.65	43.65	28.00	19.00	30.44	0.69	61.56	58.50	18.25	16.72

FAN SIZE	T	U1	U2		YA	YB	YC	YD	YE	YF
			DHK	DHK-NW						
1225	8.19	13.00	14.19	–	12.46	14.67	17.02	11.44	12.96	9.10
1500	8.19	13.00	16.56	–	15.16	17.56	20.59	13.93	15.83	11.25
1825	10.75	16.50	20.63	19.13	18.47	21.16	24.86	17.00	19.28	13.73
2225	10.75	16.50	23.75	21.94	22.47	25.44	30.06	20.82	23.45	16.69
2450	15.75	22.00	24.81	22.75	23.91	27.84	32.98	22.33	25.36	18.35
2700	15.75	22.00	26.56	24.31	27.32	30.54	36.23	25.20	28.43	20.21
3000	15.75	22.00	29.31	26.81	30.24	33.80	40.17	28.01	31.93	22.50
3300	21.25	24.00	31.69	28.94	33.28	37.00	44.06	30.86	34.72	24.49
3650	21.25	24.00	34.56	31.50	36.70	40.87	48.70	33.98	38.34	27.30

Dimensions and specifications are subject to change. Certified prints are available.

DIMENSIONS — ARRANGEMENT 8

DHK (100% Width), SIZES 2700 THROUGH 6000
DHK-NW (66% Width), SIZES 2700 THROUGH 6000)

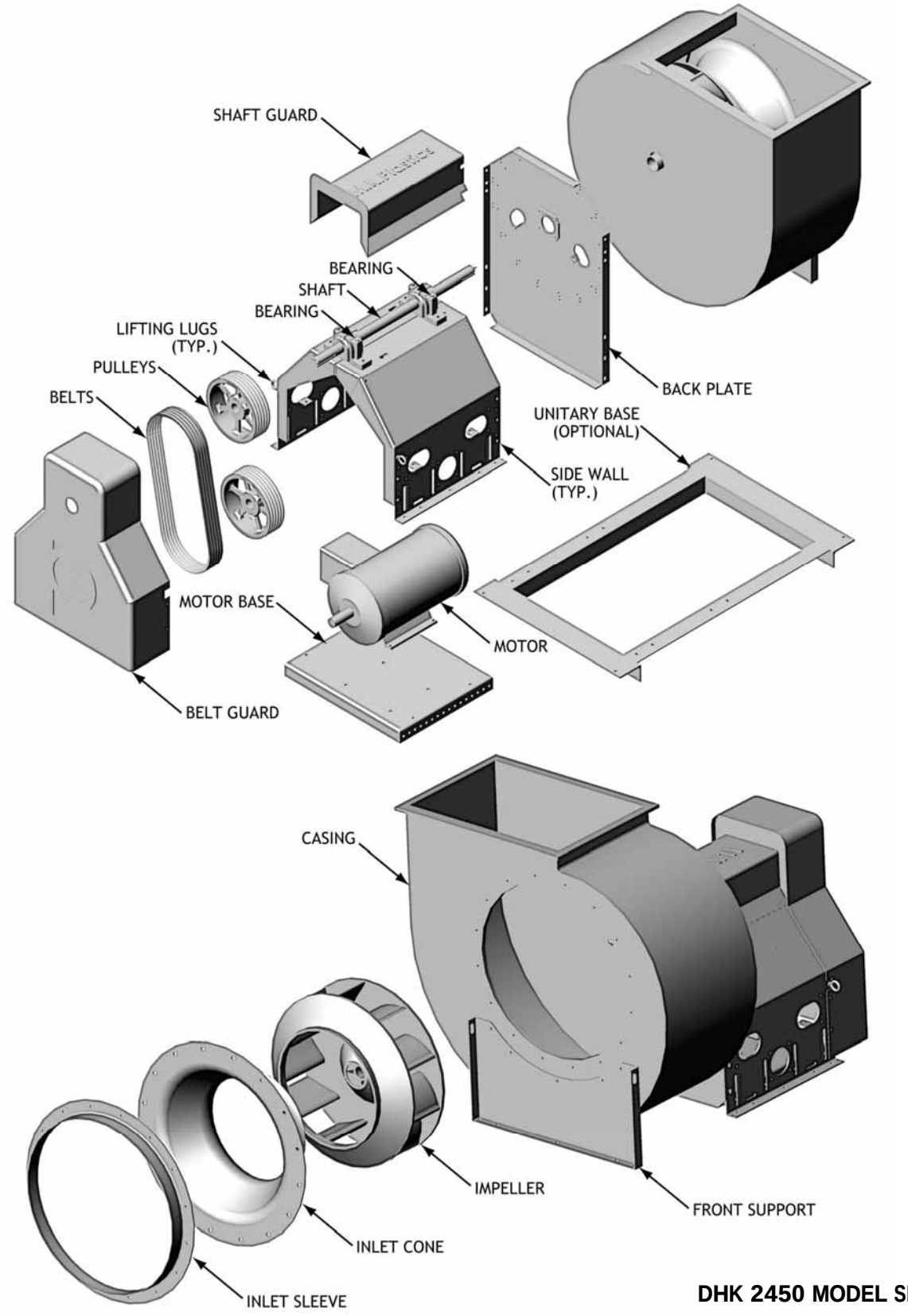


FAN SIZE	A	B		C	D	E		F	G	
		DHK	DHK-NW			DHK	DHK-NW		DHK	DHK-NW
2700	29.75	20.69	18.44	30.34	33.69	24.69	22.44	34.00	84.25	82.00
3000	33.00	23.00	20.50	33.69	37.06	27.50	25.00	34.00	94.00	91.50
3300	36.00	25.25	22.50	37.25	40.75	29.75	27.00	45.00	98.00	95.25
3650	40.00	28.00	24.94	40.13	43.75	32.75	29.69	45.00	102.00	98.94
4025	44.00	30.88	27.51	44.88	49.50	36.63	33.26	58.75	109.75	106.38
4450	48.63	34.13	30.44	50.38	55.13	38.88	35.19	64.00	114.75	111.06
4900	53.50	37.56	33.44	55.25	60.00	43.81	39.69	67.00	120.00	115.88
5425	59.00	41.69	37.06	60.94	65.69	47.97	43.34	74.00	133.63	129.00
6000	65.00	46.00	41.06	67.44	72.88	53.06	48.12	80.50	138.25	133.31

FAN SIZE	H	H1	J	K	L	M	P		Q	
							DHK	DHK-NW	DHK	DHK-NW
2700	32.11	35.11	20.69	13.69	22.63	0.56	85.25	83.00	14.25	13.13
3000	32.90	35.90	23.00	15.28	25.09	0.56	95.00	92.50	15.69	14.44
3300	40.65	43.65	24.81	16.75	27.56	0.69	99.00	96.25	16.88	15.51
3650	40.65	43.65	28.00	19.00	30.44	0.69	103.00	99.94	18.25	16.72
4025	45.53	49.53	31.00	20.75	33.75	0.69	110.75	107.38	19.69	18.00
4450	50.50	54.50	34.50	22.56	37.18	0.69	115.75	112.06	21.31	19.47
4900	55.00	59.00	37.63	24.88	40.75	0.69	121.00	116.88	23.31	21.25
5425	59.91	63.91	41.78	27.69	45.81	0.69	134.63	130.00	25.50	23.19
6000	66.16	70.16	46.00	30.59	50.31	0.69	139.25	134.31	27.81	25.34

FAN SIZE	T	U1	U2		YA	YB	YC	YD	YE	YF
			DHK	DHK-NW						
2700	15.75	53.44	26.56	24.31	27.32	30.54	36.23	25.20	28.43	20.21
3000	15.75	60.44	29.31	26.81	30.24	33.80	40.17	28.01	31.93	22.50
3300	21.25	62.06	31.69	28.94	33.28	37.00	44.06	30.86	34.72	24.49
3650	21.25	63.19	34.56	31.50	36.70	40.87	48.70	33.98	38.34	27.30
4025	28.13	68.75	36.75	33.38	40.68	45.50	54.09	37.72	42.44	30.06
4450	30.75	70.50	40.00	36.31	44.87	49.56	59.44	41.58	46.84	33.31
4900	32.25	71.75	44.00	39.88	49.27	54.88	65.41	45.66	51.45	36.57
5425	35.75	80.88	48.50	43.87	54.75	60.53	72.35	50.58	57.05	40.64
6000	39.00	81.00	53.00	48.06	60.50	67.00	80.06	56.15	63.07	44.92

Dimensions and specifications are subject to change. Certified prints are available.



DHK 2450 MODEL SHOWN

Maximum allowed temperature °F. All concentrations are 100% of saturated solutions, unless otherwise stated.

Chemical	FRP	Chemical	FRP	Chemical	FRP	Chemical	FRP
Acetic Acid, 25%	210	Citric Acid	210	Lactic Acid 25%	210	Sodium Fluoride	*180
Acetone, up to 10%	180	Coconut Oil	210	Lauric Acid	210	Sodium Hydroxide, 70%	*210
Acrylic Acid, up to 25%	100	Copper Acetate	210	Lead Acetate	210	Sodium Hypochlorite	*125
Alum (Aluminum Potassium Sulfate)	210	Copper Chloride	210	Lead Nitrate	210	Sodium Hyposulfite, up to 20%	210
Aluminum Chloride	210	Copper Cyanide	180	Linolecic Acid	100	Sodium Lauryl Sulfate	160
Aluminum Fluoride	*120	Copper Fluoride	170	Linseed Oil	210	Sodium Mono-phosphate	210
Aluminum Hydroxide	210	Copper Nitrate 30%	170	Lithium Bromide	210	Sodium Nitrate	210
Aluminum Nitrate	180	Copper Sulfate	210	Lithium Chloride	210	Sodium Nitrite	210
Aluminum Potassium Sulfate	210	Cresol, up to 10%	80			Sodium Silicate, pH>12	*210
Aluminum Sulfate	210	Crude Oil	210	Magnesium Bicarbonate	210	Sodium Sulfate	210
Ammonia, dry gas	*170	Cyclohexane	110	Magnesium Bisulfite	180	Sodium Sulfide	210
Ammonium Acetate, up to 65%	100			Magnesium Carbonate	180	Sodium Sulfite	210
Ammonium Carbonate	150	Dechlorinated Brine Storage	180	Magnesium Chloride	210	Sodium Tetraborate	180
Ammonium Chloride	210	Diallylphthalate	210	Magnesium Hydroxide	*210	Sodium Thiosulfate	180
Ammonium Fluoride 10%	*150	Diammonium Phosphate, up to 65%	210	Magnesium Nitrate	210	Sodium Tripolyphosphate	210
Ammonium Hydroxide, up to 10%	150	Dibutyl Ether	150	Magnesium Sulfate	210	Sodium Xylene Sulfonate	160
Ammonium Nitrate	210	Dibutyl Phthalate	200	Maleic Acid	210	Sorbitol Solution	180
Ammonium Persulfate	210	Diesel Fuel	210	Mercuric Chloride	210	Stannic Chloride	210
Ammonium Phosphate	210	Diethanolamine	150	Merthyl Ethyl Ketone, up to 10%	80	Stannous Chloride	210
Ammonium Sulfate	210	Diethylene Glycol	210	Monochloracetic Acid	N.R.	Stearic Acid	210
Ammonium Sulfide	100	Dimethyl Phthalate	170			Styrene	80
Ammonium Sulfite	110	Dimethyl Sulfoxide	80	Nickel Chloride	210	Slulfamic Acid	210
Ammonium Thiocyanate, 60%	*150	Dioctyl Phthalate	210	Nickel Nitrate	210	Sulfated Detergents	210
Amyl Acetate	100	Diphenyl Ether	140	Nickel Sulfate	210	Sulfite Liquors	210
Amyl Alcohol	210	Dipropylene Clycol	180	Nitric Acid, 30%	140	Sulfonated Detergents	170
Amyl Chloride	100			Nitrous Acid	73	Sulfur Dioxide, dry gas	250
Aniline Sulfate	210	Ethyl Alcohol	120			Sulfur Dioxide, wet gas	210
Aqua Regia	80	Ethylene Chlorohydrin	100	Oleic Acid	200	Sulfur Troxide	210
Arsenic Acid	180	Ethylene Glycol	210	Oxalic Acid 50%	210	Sulfuric Acid, up to 25%	210
						Sulfuric Acid, up to 50%	210
Barium Acetate	180	Fatty Acids	210	Palmitic Acid 10%	210	Sulfuric Acid, up to 70%	180
Barium Carbonate	*210	Ferric Chloride	210	Perchlorethylene	100	Sulfurous Acid, above 10%	110
Barium Chloride	210	Ferric Nitrate	210	Perchloric Acid, up to 10%	150		
Barium Hydroxide, up to 10%	*170	Ferric Sulfate	210	Phenol, up to 10%	80	Tall Oil	160
Barium Sulfate	210	Ferrous Chloride	210	Phenol	170	Tannic Acid	210
Barium Sulfide	210	Ferrous Nitrate	210	Phosphoric Acid up to 85%	210	Tartaric Acid	210
Benzene Sulfonic Acid 10%	210	Ferrous Sulfate	210	Phthalic Anhydride	210	Tetrachloroethylene	100
Benzoic Acid	210	Fluoboric Acid	*210	Photographic Solution	80	Tetrapotassium Pyrophosphate 60%	150
Black Liquor Recovery Gasses	210	Fluosilicic Acid	150	Picric Acid	170	Tetrasodium Ethylene Diamine	120
Bleach Liquor (Pulp mill)	210	Formaldehyde 50%	170	Plating Solutions	180	Tetrasodium Pyrpohosphate	150
Borax	210	Formic Acid	150	Potassium Aluminum Sulfate	210	Toluene	80
Boric Acid	210	Fuel Oil	210	Potassium Bicarbonate, up to 10%	*170	Toluene Di-isocyanate, fumes	80
Brine	210			Potassium Bromide	120	Toluene Sulfonic Acid	210
Bromine, dry gas	140	Gallic Acid	*80	Potassium Chloride	210	Trichlorethylene, fumes	170
Bromine, wet gas	100	Gasoline	180	Potassium Cy-Amp	210	Trichloroacetic Acid, up to 50%	210
Butyl Acetate	100	Gluconic Acid, up to 50%	180	Potassium Dichromate	210	Trimethylamine Hydrochloride	210
Butyric Acid	100	Glucose	210	Potassium Ferricyanide	210	Triphenyl Phosphite	140
		Glycerine	210	Potassium Ferrocyanide	210	Trisodium Phosphate	210
Cadmium Chloride	180	Glycolic Acid	200	Potassium Hydroxide, up to 25%	*120	Turpentine, Pure Gum	150
Calcium Bisulfate	200	Green Liquor, Pulp MILL	200	Potassium Permanganate 10%	210		
Calcium Carbonate	180			Potassium Persulfate	210	Urine / Urea	150
Calcium Chlorate	210	Hexachlorocyclopentadiene	100	Potassium Sulfate	210		
Calcium Chloride	210	Hydraulic Fluid	180			Vegetable Oils	210
Calcium Hydroxide	*210	Hydrobromic Acid, up to 20%	170	Sea Water	180	Vinegar	210
Calcium Hypochlorite	*150	Hydrochloric Acid, up to 37%	180	Sillicic Acid	210		
Calcium Nitrate	210	Hydrocyanic Acid, up to 10%	170	Silver Cyanide, up to 5%	200	Water, Distilled / Demineralized	180
Calcium Sulfate	210	Hydrofluoric Acid, 20%	*120	Silver Nitrate	210	Water, Organic Vapors	175
Camphor	80	Hydrofluosilicic Acid, up to 30%	*120	Sodium Acetate	210	Water Sea / Salt	180
Carbon Dioxide, gas	210	Hydrogen Bromide, gas	180	Sodium Benzoate	180	Water, waste	180
Carbonic Acid	210	Hydrogen Chloride, dry gas	300	Sodium Bisulfate	210	White Liquor, Pulp Mill	180
Carbon Monoxide, gas	210	Hydrogen Fluoride	*180	Sodium Bisulfite	210		
Carbon Tetrachloride, vapor	200	Hydrogen Peroxide, up to 30%	150	Sodium Borate (Borax)	210	Xylene	80
Caustic Soda	130	Hydrogen Sulfide, wet /dry gas	210	Sodium Bromide	210		
Chloric Acid 10%	170	Hyroiodic Acid, up to 10%	150	Sodium Chlorate	210	Zinc Chlorate	210
Chlorine, dry gas	210	Hypochlorous Acid, up to 20%	110	Sodium Chloride	210	Zinc Chloride	210
Chlorine, wet gas	210			Sodium Chlorite	150	Zinc Nitrate	210
Chlorinated water	210	Iodine (solid, solution and vapor)	170	Sodium Cyanide	210	Zinc Sulfite	210
Chloracetic acid	120	Isodecanol	180	Sodium Dichromate	210	Zinc Sulfate	210
Chromic Acid, up to 10%	120	Isopropyl Alcohol	120	Sodium Di-phosphate	210		
Chromium Sulfate	180			Sodium Ferricyanide	210		
Chromous Sulfate	200	Kerosene	210	Sodium Ferrocyanide	210		

*indicates synthetic fiber surfacing mat recommended. N.R. - 'Not Recommended'

FRP - Fiber Reinforced Polyester or Vinyl Ester are Thermosetting Products that use Polyester or Vinyl Ester resins in conjunction with glass fibers in fabrication of a wide variety of products. They possess outstanding resistance to corrosion to many different chemicals including both acids and alkalis at room and elevated temperatures. They have high impact resistance, excellent electrical and thermal insulation properties. They require little maintenance repair over a long service life and provide high strength and low weight. Industrial applications include process vessels, storage tanks, piping hoods, scrubbers, ducts and ventilation equipment. All M.K. Plastics FRP fans have inherent UV inhibitors and are available in different classes of flame spread.

VIBRATION ISOLATORS

DRAIN CONNECTION
A 0.5" or 0.75" female threaded drain connection with plug is located at the lowest point of the fan housing, for draining any fluids that may accumulate. The elbow design, which extends 1.5" below the casing, allows for easy access.

ACCESS DOORS
Gasketed, bolted, FRP access doors that provide easy access for cleaning and inspection. Located at approximately 3 or 12 o'clock positions.

HUB SEAL
Neoprene or Teflon hub seals are available. Also, a patent pending Vacuum Seal, for highly sensitive exhaust situations.

GRAPHITE IMPREGNATION
A graphite liner may be laminated to the inside of the fan casing to remove any build up of static electricity when handling potentially explosive gases. The gas-stream surfaces are grounded to the fan base.

INLET AND OUTLET FLANGES
For applications where bolted duct connections are required. Flanges are available un-drilled or pre-drilled to MK Plastics standard hole pattern and size. Un-drilled rectangular outlet flange is standard on all fans.

FLANGE AND SLEEVE
Pre-drilled PVC or FRP mating flange with a 2" sleeve, for use with a flexible connection at both inlet and outlet of fan.

VACUUM SEAL

PVC FLEXIBLE CONNECTOR
A 0.08" Plastifer PVC flexible connector is fabricated from plasticized poly vinyl chloride sheet. It is flame resistant and corrosion resistant to acid and base effluents. Due to UV inhibitors, it is suitable for outdoor applications. Available 8" wide, diameter to suit both inlet and outlet fan dimensions. The fastening straps are in stainless steel. A heavy duty glass fabric flexible connector is also offered for severe corrosive exhaust and higher pressure applications.

DRAIN CONNECTION

DISCONNECT SWITCHES
A wide selection of NEMA rated fusible or non-fusible disconnect switches, mounted and pre-wired to the fan motor, if required.

STAINLESS STEEL SHAFTS
304 and 316 stainless steel shafts are available on all DHK fan sizes, where possible corrosion on standard carbon steel shafts may be of concern.

UNITARY BASE
Structural steel base provides a common support for fan, motor and drive components. Also available is an Inertia Base where structural steel bases do not provide sufficient mass or where outlet velocities cause greater reaction forces. Concrete is supplied by others.

DAMPERS
Single/multiple blade gravity or control type dampers for both inlet and outlet of fan. Manufactured in either PVC or FRP. Control dampers are supplied with a quadrant lever for manual or an extended shaft and actuator mounting plate for motorized operation.

VIBRATION ISOLATORS
Various types of isolators are available from rubber-in-shear to housed spring and seismically restrained spring type isolators.

ACCESS DOOR

INLET BOXES
Solid fiberglass construction, an inlet box improves fan inlet exhaust flow and reduces losses, which are sometimes associated with duct elbows at fan inlet. Contact factory for specific applications.

MOTORS
UL and CSA, Open Drip Proof (ODP), TENV, TEFC, Chem Duty, Washdown and Explosion Proof motors are available. All complying with EPAC standards. Premium High Efficiency are offered, as required.

PART I GENERAL

1.01 WORK INCLUDED
A. FRP Medium & High Pressure Centrifugal Fans.

1.02 RELATED WORK
A. All sections, drawing plans, and contract documents.

1.03 REFERENCES
A. AMCA -99 Standards Handbook
B. AMCA 210 - Laboratory Methods of Testing Fans for Rating Purposes.
C. AMCA 211 - Certified Ratings Procedure - Air Performance.
D. AMCA 300 - Test Code for Sound Rating Air Moving Devices.
E. AMCA 311 - Certified Sound Ratings Program for Air Moving Devices.
F. AFMBA - Method of Evaluating Load Ratings of Bearings (ASA - B3.1 1).
G. AMCA 204 - Balance Quality and Vibration Levels for Fans.

1.04 QUALITY ASSURANCE
A. Performance ratings: In accordance to AMCA standard 211 and 311, and bear the AMCA Seal for Sound and Air Performance.
B. Classification for Spark Resistant Construction Conform to AMCA 99.
C. In accordance with ASTM D4167-97 (2002) - Standard Specification for Fiber-Reinforced Plastic Fans and Blowers.
D. Each fan shall be tested before shipping. Motors to be tested for amperage draw.
E. A certificate shall be supplied for each fan, certifying quality control and compliance to specifications, prior to shipping.

1.05 SUBMITTALS
A. M. K. Plastics to submit product data on each DHK & DHK-NW fan.
B. Provide fan curves for each fan at the specified operating point, with the flow, static pressure and horsepower clearly plotted.

PART 2 EQUIPMENT

2.01 GENERAL
A. Base fan performance at standard conditions (density 0.075 Lb/ft3)
B. Each fan shall be in a drive arrangement and configuration, as shown on the drawings.
C. Fans to be equipped with lifting lugs.
D. Fasteners to be 304 stainless steel.

2.02 FAN HOUSING
A. Fan housing to be aerodynamically designed with high-efficiency inlet, engineered to reduce incoming air turbulence. Casings to have smooth exterior and resin rich interior.
B. Fan housing shall be manufactured in specifically formulated resins, for maximum corrosion resistance, UV inhibited and reinforced with fiberglass for structural strength. Fastening bolts holding the casing to the support plate are to be encapsulated in FRP. No uncoated metal fan parts in the corrosive air stream will be tolerated.
C. DHK fans to be supplied with a graphite liner and grounding strap to remove static electricity, (when specified). Flame retardancy of 25 or less, is standard.
D. Inside the casing, a FRP ridge is to be attached to the housing to divert condensation from dripping over the hub.
E. When specified, provide a casing drain attached to the casing at the lowest point for condensation removal.
F. Fan outlet to be flanged; fan inlet to be slip connection, as standard. Inlet flange and mating flanges will be provided, when specified.
G. An access door, (when specified), shall be supplied for impeller inspection and service.
H. Standard finish color to be light gray.
I. Hub seal to be neoprene or Teflon (when specified).
J. M. K. Plastics, (when specified), will supply a Vacuum Hub Seal to avoid any contaminated air from escaping the housing (patent pending).

2.03 FAN IMPELLER
A. For DHK 1225 and 1500, the impellers to be molded FRP, backward inclined. The impellers of the DHK 1825 and larger to be airfoil, backward inclined, manufactured in solid FRP, unitary construction, with smooth surfaces. A metal backplate integral to the FRP impeller and encapsulated in resin shall have the hub extending to the outside of the fan housing. A tight fitting removable FRP cap shall cover the impeller end of the shaft.
B. On DHK 1825 and larger an FRP balancing ring is to be incorporated into the front and backplate of the impeller.
C. Impellers manufactured in steel and coated or coated with a plastic material are not acceptable.
D. The impeller shall be electronically balanced both statically and dynamically Grade GS.3 per AMCA 204-96 Standard.

2.04 BASE SUPPORT
A. Arr. #1, #4, #9, #8 and #10 blower supports shall be manufactured in formed steel and coated with 4-6 mil, corrosion resistant, 'Plastifer', baked epoxy powder coating.

2.05 FAN MOTORS AND DRIVES
A. Motors shall be standard efficiency, TEFC, with a 1.15 service factor, unless specified otherwise.
B. On Arrangement #1, #9 & #10, belts and pulleys shall be accessible for service and maintenance.
C. Drive belts and sheaves shall be sized for 150% of the fan operating brake horsepower, and shall be readily and easily accessible for service.
D. Shaft to be ANSI C-1045 steel, and be protected with TECTYL 822B protective coating. 304 or 316 stainless steel shafts are available, (when specified).
E. Fan shaft bearings to be selected according to bearing manufacturers recommendations and be sized for an L-10 life of 200,000 hours. Bearings shall be ball or spherical pillow block type, sealed to retain lubricant and exclude dust and air.
F. Bearing lubrication lines shall be extended to the exterior of the unit, on belt drive application.
G. Drive guard to be supplied and manufactured according to OSHA standards.
H. Fans up to 5 HP motor to have variable pitch
I. FRP belt and shaft guards are standard. Motor covers shall be supplied, as per the specification.

2.06 ACCEPTABLE MANUFACTURERS
A. M.K. Plastics Corporation, Model DHK & DHK-NW.
B. Approved Equal.

CONDITIONS OF SALE

1. Prices quoted are current; prices prevailing at time of shipment will apply. Material in stock is offered subject to prior sale. All Sales Contracts arising out of this quotation shall be subject to our regular conditions shown on this side.

2. All deliveries quoted are based on availability of material and labor at the time of quotation and subject to changes. Deliveries are contingent upon strikes, accidents, fires and other causes and we shall not be liable for any loss or damage caused by delays beyond the control of the company.

3. Goods invoiced up to and including the last day of the calendar month, shall be paid for not later than the last business day of the following month. The Company reserves the right to charge interest at commercial rates on any overdue account.

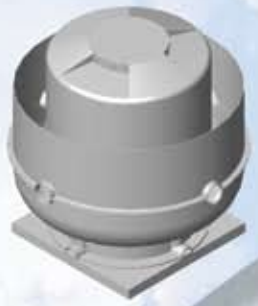
4. Any order accepted by us cannot be countermanded, revised or cancelled without our written consent and upon such terms as will indemnify us against any loss. The word "loss" as used herein shall include, but not be limited to, cost of materials, special machinery, tools, jigs and fixtures built or purchased for the contract and all parts in process, fabricated in whole or in part by previous customer authorization.

5. No contract arising from the acceptance of this quotation shall be valid and binding until approved by the company, such contract shall be governed by and interpreted in accordance with the laws of the Province of Québec.

6. All memoranda, drawings and information furnished by the company shall remain its property and shall be considered business or trade secrets received in trust and confidence for the sole purpose of assisting the buyer.

7. Orders to customer's drawings or descriptions are filled with the understanding that the customer assumes the obligation to protect M.K. Plastics Corporation from any action for infringements of patents.

8. No modification of the above conditions of Sale shall be effected by our receipt or acknowledgement of a purchase order containing additional or different conditions.



LIMITATION OF WARRANTY AND LIABILITY

We will not be responsible for the damage to equipment or materials through improper installation, storage, improper servicing, or through attempts to operate it in excess of its rated capacity or recommended use, intentional or otherwise. We will not be responsible for consequential damage.

Based on the fact that M.K. Plastics Corp. has no direct control over the actual handling and use of its products in the field, M.K. Plastics Corp. does not assume any liability for any loss of custumer or any personnel or any physical damages claimed by anyone due to a failure or cause attributed to the use of its products. In no event shall M.K. Plastics Corp. be responsible for consequential damages of any such defective material or workmanship, including but not limited to the buyer's loss of material or profit, increased expense of operation, downtime or reconstruction of the work and in no event shall M.K. Plastics Corp. obligation under this warranty exceed the original contract price of the defective item.

M.K. Plastics Corp. warrants its equipment, products and parts, to be free from defects in workmanship and material under normal use and service for one (1) year after delivery to the first user. Our obligation under this warranty being limited to repairing or replacing, at our option, without cost at our factory any part, or parts which shall , within such warranty period, be returned to us with transportation charges prepaid, and which our examination shall disclose to our satisfaction to have been defective.

M.K. Plastics Corp. will not be responsible for the cost of removal of a defective product or parts or the installation of a replaced product or parts, or for costs due for its removal, crating or shipping.

On account of variables including but not limited to, vibration, system noise characteristics, motor overloading or change in voltage conditions, the specifics of customer application of equipment or other system conditions, M.K. Plastics Corp. does not expressly warrant its equipment for any specific purpose.

The customer and its agents are responsible for the selection and application of M.K. Plastics Corp. products, including their fitness for the purpose and performance intended. Consequently, the customer on behalf of its agents assumes all liability related to the user/misuse, application and selection of the M.K. Plastics Corp.

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