



Est. 1938

Belt and Direct Drive In-Line Centrifugals Models XB and XD

Models XD and XB are square in-line centrifugal fans designed to eliminate costly round to square ductwork transitions with the flexibility of any angle operation. XD is direct driven and XB is belt driven. Model XD is available in five sizes with capacities up to 5445 CFM and up to 1 3/4" static pressure. Model XB is available in eight sizes with capacities up to 28,332 CFM and up to 2 1/2" static pressure. AMCA "B" spark resistant construction is standard on both models. The XD is suitable for airstream temperatures up to 140°F and the XB up to 200°F.



Construction Features

Housing

- Heavy duty galvanized steel construction
- Removable side panels on both sides for easy access and serviceability
- Fully gasketed and bolted access panels provide weather protection

Centrifugal Wheel

- Aluminum construction with backward curved hollow airfoil blades
- Non-overloading design for safe operation
- Precision balanced for smooth vibration free operation

Bearings

- Permanently lubricated in Acme D.S. pillow block housing
- Bearings are resiliently mounted in neoprene rings
- Rated at L₅₀ life of 200,000 hours
- **5 year** limited warranty on Acme D.S. pillow block bearings
- Pillow block bearings are standard on XB425

Drive Assembly

- Located out of the airstream
- Cast iron drives sized for 150% of drive horsepower
- Static free, oil and heat resistant belts

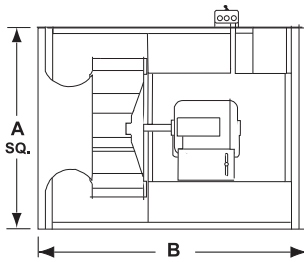
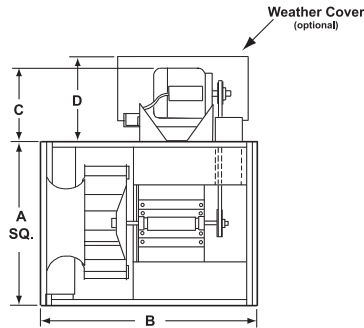
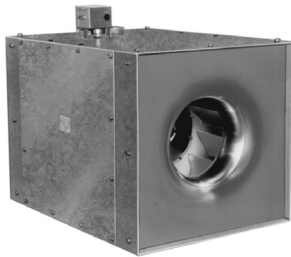
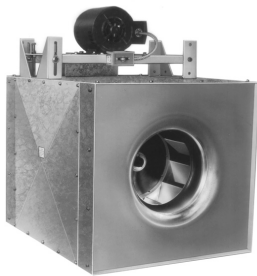
Motors

- Continuous duty motors located outside the airstream
- Prelubricated ball bearings

Options/Accessories

- Aluminum Housing
- Solid State Speed Controllers
- Dampers
- Coatings
- Guards/Covers
- Isolators
- Filter box
- Side Discharge Flange
- Insulated Housing

Inline Centrifugal Fans



DIMENSIONS

Fan Model	A	B	C Max.	D Max.
XB090	14.00	18.56	12.12	14.06
XB120	17.88	24.88	11.19	15.25
XB137	20.50	28.13	11.19	15.25
XB161	24.25	32.69	13.69	18.50
XB200	30.00	39.75	13.69	18.50
XB245	36.75	48.06	13.69	18.50
XB300	45.00	58.31	16.38	20.00
XB365	54.75	71.06	16.38	20.00
XB425	63.88	72.75	13.88	17.68
XD100	14.00	18.62	NA	NA
XD120	17.88	24.88	NA	NA
XD137	20.50	28.12	NA	NA
XD161	24.25	32.63	NA	NA
XD200	30.00	39.75	NA	NA

Dimensions are shown in inches.



Acme Engineering & Manufacturing Corporation certifies that the models shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Consult your Acme representative for availability.

DIRECT DRIVE

PERFORMANCE DATA																												
Fan Model	RPM	HP	.000"		.125"		.250"		.375"		.500"		.625"		.750"		1.000"		1.250"		1.500"		1.750"		Max. BHP	Est. Ship Wt.		
			CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones			CFM	Sones
XD100	860	1/10	380	5.3	220	3.8																				.012	41	
	1050		460	7.0	350	5.6																						.022
	1300		570	9.4	480	8.0	380	7.5	230	9.6																		.042
	1550		680	12	610	11.0	530	10.0	430	10.0	290	9.2																.070
XD120-7	825	1/20	770	4.4	665	3.5																				.033	72	
	955		890	5.2	805	4.8	650	4.4																				.052
	1050		980	6.4	900	5.6	800	5.5	440	5.2																		.069
XD120F4	1750	1/3	1635	15	1590	15.0	1540	15.0	1490	14.0	1440	14.0	1375	14.0	1290	14.0	860	13.0								.322	86	
XD137B8	860	1/12	1022	6.5	822	6.2	618	5.7																		.060	114	
XD137E6	1160	1/4	1379	9.7	1230	9.7	1082	9.7	929	9.9	789	10.2														.150	116	
XD137H4	1750	3/4	2081	17.1	1982	16.9	1882	16.6	1784	16.0	1687	16.0	1586	15.5	1485	15.1	1282	14.9	1126	14.4						.530	130	
XD161D8	860	1/6	2040	8.6	1925	8.1	1770	7.6	1545	7.1	775	6.7														.184	150	
XD161G6	1160	1/2	2750	14	2670	13.0	2580	12.0	2475	12.0	2330	12.0	2170	12.0	1960	12.0										.452	171	
XD161K4	1750	1 1/2	4145	25	4095	25	4040	24	3960	23.0	3925	23	3865	22	3800	21	3630	21	3420	20	3200	19.0	2870	19.0	1.547	181		
XD200K6	1160	1 1/2	5445	16	5280	16.0	5115	16.0	4950	16.0	4780	15.0	4605	15.0	4425	15.0	4045	15.0	3190	15.0						1.295	279	

Performance certified is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sonas at 1.5 m (5ft) in a hemispherical free field calculated per AMCA Standard 301. Values are shown are for Installation Type A: Free Inlet hemispherical sona levels. Power rating (BHP) does not include transmission losses. The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The above motor loadings do not overheat the motor and are in accordance with the motor manufacturer's recommendations. It is, therefore, not detrimental to the motor and economically desirable. Maximum RPM shown obtained with the standard one speed motor; for all other RPM's add solid state speed controller. Performance is based on actual speed of test.

BELT DRIVE

PERFORMANCE DATA																			
Fan Model	Min. Max. RPM	HP	Sones @ .125"	.125"	.250"	.375"	.500"	.625"	.750"	1.000"	1.250"	1.500"	1.750"	2.000"	2.250"	2.500"	Max. BHP	Est. Ship Wt.	
				CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM			CFM
XB090E1	1583	1/4	7.0	608	510	405	280										.07	48	
	2177		12.4	879	830	766	682	604	532	338							.18		
XB090E2	1847	1/4	9.2	730	663	568	479	382	254								.11	49	
	2492		15.6	1019	978	931	872	799	729	599	433						.27		
XB090F	1920	1/3	9.9	764	702	613	524	437	326								.12	56	
	2717		18.5	1118	1081	1041	993	936	867	742	619	463					.35		
XB090G	2333	1/2	13.9	949	904	850	780	701	630	480	274						.22	64	
	3196		25	1327	1296	1264	1229	1191	1147	1039	928	828	719	587	436		.56		
XB120E1	910	1/4	5.6	755	545												.06	105	
	1375		10.0	1225	1160	1090	645	965	645								.18		
XB120E2	1070	1/4	7.0	920	825	520											.09	106	
	1570		14.5	1415	1360	1305	1235	1135	930								.27		
XB120F	1140	1/3	7.3	995	910	730											.11	110	
	1725		15.9	1565	1515	1465	1410	1345	1250	760							.35		
XB120G	1400	1/2	11.7	1250	1190	1115	1010	740									.19	116	
	2060		21	1885	1845	1805	1760	1720	1670	1545	1285	740					.57		
XB120H	1590	3/4	15.0	1435	1380	1325	1260	1165	980								.27	124	
	2335		23	2145	2110	2075	2040	2005	1965	1880	1770	1580	1210	720			.81		
XB120J	1935	1	18.9	1765	1725	1680	1635	1585	1530	1350	875						.47	130	
	2570		27	2370	2340	2305	2275	2240	2210	2135	2055	1955	1800	1535	1075	680	1.07		
XB137F	930	1/3	7.0	1205	990	815											.12	136	
	1365		12.4	1920	1790	1635	1490	1380	1275								.34		
XB137G	1060	1/2	8.9	1430	1230	1075	885										.16	142	
	1605		14.5	2300	2195	2080	1945	1815	1705	1530	930						.54		
XB137H	1325	3/4	11.7	1860	1720	1560	1420	1310	1180								.31	146	
	1830		20	2645	2560	2465	2360	2240	2120	1930	1775	1500					.78		
XB137J	1400	1	13.2	1980	1850	1700	1555	1440	1345								.36	153	
	2060		23	3000	2920	2840	2755	2660	2555	2350	2180	2045	1895	1350			1.11		
XB137K	1675	1 1/2	15.3	2405	2310	2200	2075	1945	1830	1655	1395						.80	164	
	2310		26	3380	3310	3245	3170	3090	3010	2825	2640	2485	2355	2240	2090	1550	1.55		
XB137L	1955	2	20	2840	2760	2670	2575	2470	2360	2155	2000	1850	1435	745			.95	173	
	2490		29	3650	3590	3530	3460	3390	3320	3155	2980	2815	2675	2555	2445	2325	1.94		

Power rating (BHP) does not include transmission losses. Performance certified is for installation type A: Free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sonas at 1.5 m (5ft) in a hemispherical free field calculated per AMCA Standard 301. Values are shown for Installation Type A: Free Inlet hemispherical fan sona levels. The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is, therefore, not detrimental to the motor and economically desirable.

Inline Centrifugal Fans



BELT DRIVE

Inline Centrifugal Fans

PERFORMANCE DATA																		
Fan Model	Min. Max. RPM	HP	Sones @ .125"	.125"	.250"	.375"	.500"	.625"	.750"	1.000"	1.250"	1.500"	1.750"	2.000"	2.250"	2.500"	Max. BHP	Est. Ship Wt.
				CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM		
XB161F	695	1/3	5.1	1500	1235												.10	182
	1055		10.9	2410	2310	2170	2000	1770	970									
XB161G	825	1/2	6.7	1840	1660	1410											.17	188
	1210		14.6	2790	2710	2610	2485	2330	2165									
XB161H	930	3/4	8.4	2100	1970	1780	1500										.24	193
	1365		16.7	3165	3095	3020	2930	2815	2680	2375	1285							
XB161J	1070	1	10.9	2450	2350	2220	2045	1840	1140								1.14	199
	1570		19.9	3660	3600	3540	3470	3390	3300	3070	2820	2160	Outlet Velocity = CFM x .291					
XB161K	1330	1 1/2	16.2	3080	3010	2930	2830	2710	2565	2210							.70	208
	1710		26	4000	3940	3885	3825	3760	3690	3510	3290	3055	2480	1445				
XB161L	1405	2	17.6	3265	3195	3120	3035	2930	2805	2525	1715						.82	210
	1865		28	4370	4320	4270	4215	4160	4100	3960	3780	3580	3365	3030	2110	1155		
XB161M	1735	3	24	4060	4005	3950	3890	3826	3755	3585	3370	3145	2760	1720			1.53	227
	2210		39	5195	5150	5110	5065	5020	4975	4880	4770	4640	4485	4310	4140	3950		
XB200H	670	3/4	7.0	2860	2555	2195											.26	288
	985		14.4	4430	4235	4035	3830	3610	3375	1890								
XB200J	730	1	7.8	3165	2890	2600	1960										.33	294
	1055		16.3	4770	4590	4405	4215	4020	3815	3160								
XB200K	860	1 1/2	12.6	3815	3590	3355	3105	2790	1785								.54	304
	1250		20	5715	5560	5410	5250	5095	4930	4590	4205	3155	Outlet Velocity = CFM x .184					
XB200L	1020	2	15.3	4600	4415	4220	4020	3815	3600	2565							.89	299
	1410		25	6485	6350	6215	6080	5940	5800	5510	5210	4885	4380	3030				
XB200M	1195	3	19.5	5450	5290	5130	4965	4800	4625	4260	3740	2070	5290	4870	3765	2305	1.42	325
	1525		31	7035	6910	6785	6660	6530	6400	6140	5870	5590						
XB200N	1570	5	32	7250	7130	7005	6885	6760	6635	6380	6120	5855	5570	5240	4525	3255	3.24	339
	1885		44	8750	8645	8545	8445	8340	8240	8035	7825	7610	7395	7175	6950	6710		
XB245H	440	3/4	5.5	3595	2925												.22	402
	645		10.9	5600	5315	5010	4550	2710										
XB245J	500	1	7.3	4195	3790	2115											.32	407
	735		14.8	6455	6210	5955	5675	5295	4130									
XB245K	590	1 1/2	9.3	5075	4760	4375	2925										.52	416
	855		17.2	7585	7375	7160	6940	6705	6435	5060								
XB245L	665	2	11.7	5790	5515	5225	4840	3495	1230								.75	418
	965		21	8610	8425	8235	8045	7850	7645	7160	5095							
XB245M	860	3	17.6	7630	7420	7210	6990	6760	6495	5255							1.60	440
	1100		29	9865	9700	9540	9370	9205	9035	8680	8260	7600	5330					
XB245N	1050	5	27	9400	9230	9055	8885	8710	8530	8140	7630	6315	3365				2.95	448
	1295		35	11665	11530	11390	11250	11110	10970	10680	10385	10070	9700	9180	8055	5615		
XB300J	355	1	6.5	4735	3640												.31	608
	520		11.4	7560	7025	6375	5640	3835										
XB300K	410	1 1/2	7.4	5715	4910	3400											.47	620
	595		13.8	8780	8340	7830	7255	6625	5560									
XB300L	485	2	9.7	6980	6380	5660	4505										.77	622
	670		16.6	9990	9610	9195	8720	8205	7665	5570								
XB300M	610	3	14.6	9025	8600	8110	7550	6960	6145								1.53	638
	775		20	11660	11340	11000	10640	10240	9800	8880	7470	3870						
XB300N	710	5	18.5	10603	10270	9890	9470	8995	8505	7280	3715						2.40	654
	875		25	13245	12960	12670	12370	12045	11700	10925	10110	9080	6715					
XB300P	825	7 1/2	22	15370	12150	11840	11510	11155	10765	9925	8980	7060					3.75	719
	1010		32	12455	15125	14875	14625	14365	14090	13500	12835	12150	11410	10470	8630	5665		
XB300R	925	10	26	14030	13765	13490	13210	12915	12600	11900	11150	10340	9150	6520			5.25	739
	1135		40	17325	17110	16890	16670	16445	16215	15730	15200	14615	14005	13385	12710	11880		
XB365K	310	1 1/2	6.2	7615	6265												.54	865
	450		14.2	11945	11140	10280	9335	7785	3915									
XB365L	365	2	8.8	9360	8310	7000											.88	873
	505		16.1	13580	12885	12140	11360	10510	9300									
XB365M	435	3	13.3	11495	10655	9755	8715	6520									1.48	891
	555		19.2	15050	14430	13770	13075	12360	11585	8705								
XB365N	550	5	18.6	14905	14275	13610	12905	12185	11385	8225							2.96	894
	675		25	18545	18040	17525	16990	16430	15855	14665	13200	10210						
XB365P	620	7 1/2	22	16950	16400	15830	15225	14600	13965	12530	9685						4.24	970
	760		30	21000	20555	20105	19640	19165	18670	17650	16590	15375	13505	9680				
XB365R	680	10	25	18690	18190	17680	17150	16595	16025	14845	13430	10685	4860				5.59	990
	815		34	22580	22165	21750	21325	20885	20435	19500	18540	17520	16355	14600	11275	6155		
XB425K	255	1 1/2	5.2	9157	7290												.50	1240
	380		12.4	14928	13891	12742	11493	9917										
XB425L	300	2	7.4	11301	9862	8098											.83	1248
	415		14.2	16477	15550	14537	13451	12263	10766									
XB425M	355	3	10.1	13811	12674	11411	9941	7503									1.36	1266
	475		17.6	19100	18311	17473	16574	15629	14631	3.28								
XB425N	445	5	15.6	17792	16941	16024	15037	13999	12838	8815							2.66	1270
	565		24	22987	22335	21644	20961	20221	19448	17825	15963							
XB425P	525	7 1/2	21	21265	20559	19824	19046	18223	17368	15515	13026						4.34	1346
	645		32	26413	25846	25269	24677	24063	23424	22076	20662	19124	17272	14659				
XB425R	545	10	23															