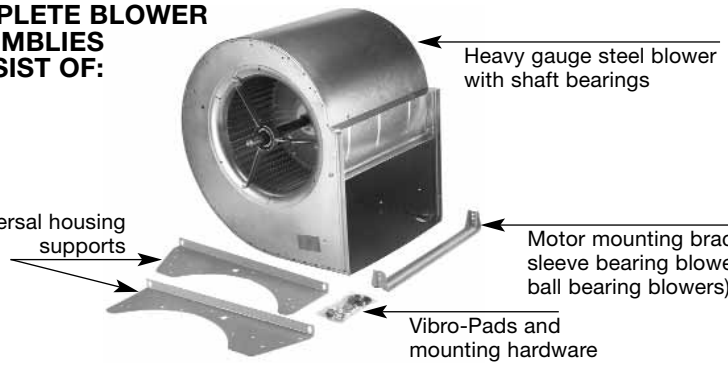
BELT DRIVE BLOWERS

COMPLETE BLOWER ASSEMBLIES CONSIST OF:



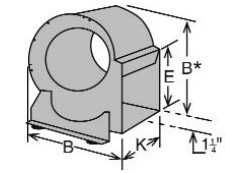
DRIVE SELECTION

Belts, motor pulleys and blower pulleys should be purchased separately (purchase motors from your motor supplier). Drives up through 1 HP can be ordered separately from this catalog. Drives for larger horsepower motors must be selected and obtained from your cast-iron pulley source who has drive selection programs. (Be sure to specify both RPM and HP from the Performance Chart.)

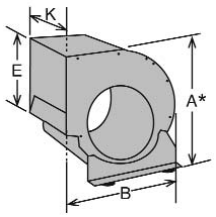
BELT DRIVE BLOWERS WITH SLEEVE BEARINGS

Part Number	Model Number	K	E	A	B	Shaft Size
38-2553-01M	A9 - 6ACE	8¼	10¼	15 7/16	14 15/16	¾
38-2075-01M	A9 - 7ACE	9 3/16	10¼	15 7/16	14 15/16	¾
05-4932-01M*	A9 - 7ATCE	9 3/16	10¼	12 13/16	12 17/32	1
38-2074-01M	A9 - 9ACE	11⅞	10¼	15 7/16	14 15/16	¾
02-4840-25M	A10 - 6ACE	8¼	11⅜	17¼	16½	¾
38-2077-01M	A10 - 8ACE	10½	11⅜	17¼	16½	¾
38-2076-01M	A10 - 10ACE	13 1/16	11⅜	17¼	16½	¾
02-4840-26M	A12 - 6ACE	8 13/16	13 7/16	20 7/16	19 5/16	1
38-2434-18M	A12 - 9ACE	12⅜	13 7/16	20 7/16	19 5/16	1
38-2434-17M	A12 - 12ACE	15¾	13 7/16	20 7/16	19 5/16	1
02-4840-27M	A15 - 9ACE	12 13/16	15⅞	24⅛	22⅝	1
38-2081-01M	A15 - 11ACE	14 11/16	15⅞	24⅛	22⅝	1
38-2080-01M	A15 - 15ACE	18⅝	15⅞	24⅛	22⅝	1
38-2429-01M	A18 - 13ACE	17⅜	18⅞	29 3/16	27	1
38-2430-01M*	A18 - 18ACE	21⅞	18⅞	29 3/16	27	1

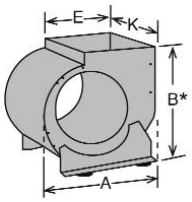
* Call Lau for performance information. *Must ship via common carrier.*



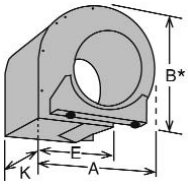
Bottom Horizontal (BH)*



Top Horizontal (TH)*



Upblast (UB)*



Downblast (DB)*

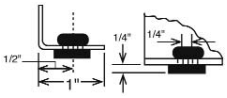
BELT DRIVE BLOWERS WITH BALL BEARINGS

Part Number	Model Number	K	E	A	B	Shaft Size	Keyed Shaft Extensions
38-2434-20M	A12 -12ACE	15⅝	13 7/16	20⅜	19⅜	1 x 19¾	¼ x ⅛ x 1 9/16
38-2080-02M	A15 -15ACE	18⅝	15⅞	24¼	22 11/16	1 x 23	¼ x ⅛ x 1 9/16
38-2430-02M*	A15 -18ACE	21⅞	18⅞	29 3/16	27	1 x 28⅞	¼ x ⅛ x 3

Add 1/4″ for Vibro-Pads. *Must ship via common carrier.*

VIBRO-PADS

Soft rubber pads that snap easily into the base bracket, reducing vibration, wear and noise (see Page 47 to order).



Blower Selection Procedure	Example	Remarks
1. Determine blower position from diagrams below.	For our example, we'll say it is UPBLAST.	UB
2. Determine the overall dimensions for fit (see dimensions A and B).	Measure old blower.	A = 18″ B = 16″
3. Determine the blower outlet dimensions (see dimensions K and E).	Measure old blower.	E = 11⅜″ K = 13¼″
4. Compare the above with the **Blower Dimension Chart** and select the nearest fit (K and E are critical).	Model Number Part Number	A10-10ACE 38-2076-01
5. Refer to the **Blower Performance Chart** with the model number chosen. Select the CFM* desired, the wheel RPM, and HP under the static pressure. (If static pressure is unknown, use the 1″ SP column.)+	At 1,000 CFM and 3/4″ static pressure, the wheel RPM is 843 at .30 BHP.	CFM = 1000 RPM = 843 BHP = .30
6. Refer to the **Drive Chart for Belt Drive Blower Assemblies** to determine pulley and belt sizes required, as well as the motor mount location for same. Since the BHP is .30, the motor requirement is a minimum ⅓ HP nameplate rating. ***Remember,*** *"over-motoring" or "under-motoring" will cause excessive heat for any motor.*	A 10 blower with an upblast (UB) position requires motor position #2, a 3¼″ motor pulley, 6″ wheel pulley and a 41″ belt based on 843 RPM (assumes a 48″ frame motor).	Position #2 Motor Pulley = 3¼″ Wheel Pulley = 6″ Belt = 41″ Motor: 1⁄3 HP

NOTES:

- Standard sleeve bearings are suitable for up to 3⁄4 HP on 9″ 10″ blowers and up to 1 HP on 12″ - 18″ designs. Above these limits, ball bearings are required.
- Before making final selections, review *Component Limits* shown on Page 42.
- **Standard sleeve bearings on Belt Drive Blowers can be replaced in the field using the sealed-type ball bearings on Page 45.**

+ 1″ SP is typical for a 1,500 sq. ft. application.

** If CFM is unknown, select nearest to, but not exceeding, known nameplate HP and wheel RPM.*

Specifications are subject to change without notice or obligation.

BELT DRIVE BLOWERS WITH SLEEVE BEARINGS

Model Number	CFM	.25 SP		.5 SP		.75 SP		1.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
A9-6ACE	400	556	.07	783	.11	992	.15	1156	.19
	600	575	.09	769	.13	950	.17	1102	.21
	800	630	.12	794	.16	958	.21	1092	.25
	1000	700	.18	845	.22	986	.27	1100	.37
A9-7ACE	400	553	.07	807	.09	986	.14	1133	.19
	600	563	.09	790	.13	954	.19	1118	.22
	800	599	.11	793	.16	946	.22	1097	.31
	1000	644	.14	813	.19	954	.26	1092	.34
A9-9ACE	600	566	.10	788	.14	998	.20	1148	.25
	800	589	.12	787	.16	972	.23	1127	.29
	1000	623	.15	803	.20	964	.27	1109	.33
	1200	663	.19	828	.25	980	.33	1111	.39
	1400	710	.25	863	.32	1005	.40	1123	.47
A10-6ACE	400	491	.06	704	.11	872	.15	1014	.18
	600	500	.09	686	.13	841	.16	983	.21
	800	529	.12	697	.16	838	.21	964	.26
	1000	577	.16	724	.21	854	.27	969	.31
	1200	635	.21	765	.29	880	.34	989	.40
	1400	695	.30	813	.38	918	.45	1017	.52
A10-8ACE	600	477	.08	700	.11	863	.17	1013	.22
	800	492	.10	693	.14	836	.18	981	.25
	1000	517	.12	690	.17	829	.22	963	.31
	1200	550	.17	727	.23	836	.30	956	.35
	1400	586	.21	734	.28	847	.35	960	.44
A10-10ACE	800	490	.13	700	.20	859	.28	1002	.37
	1000	507	.16	693	.21	843	.30	977	.38
	1200	529	.18	705	.26	841	.33	967	.42
	1400	558	.22	718	.29	847	.38	968	.46
	1600	591	.25	739	.34	863	.43	987	.53
	1800	635	.32	763	.40	883	.50	991	.60
A12- 6ACE	600	414	.11	593	.18	735	.24	852	.30
	800	417	.11	577	.19	712	.26	835	.32
	1000	439	.14	586	.22	708	.30	812	.36
	1200	472	.18	602	.27	712	.34	811	.41
	1400	509	.23	623	.32	726	.39	820	.47
	1600	543	.30	647	.37	744	.45	832	.54
	1800	581	.36	677	.45	765	.55	851	.64
A12- 9ACE	1000	400	.11	566	.18	714	.28	828	.36
	1200	410	.13	563	.21	697	.29	815	.38
	1400	424	.15	566	.23	688	.32	800	.42
	1600	447	.19	575	.27	689	.36	794	.46
	1800	470	.23	580	.31	696	.41	791	.51
	2000	496	.27	600	.37	705	.48	796	.57

Model No.	CFM	.25 SP		.5 SP		.75 SP		1.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
A12-12ACE	1400	424	.16	574	.26	700	.33	816	.42
	1600	436	.18	579	.29	702	.37	809	.47
	1800	451	.22	587	.32	704	.42	811	.51
	2000	463	.26	596	.37	711	.47	812	.56
	2200	486	.30	609	.42	718	.52	817	.62
	2400	507	.36	623	.47	728	.58	823	.69
	2600	530	.42	638	.54	740	.65	831	.76
A15-9ACE	1500	347	.17	472	.24	582	.34	666	.43
	2000	375	.25	483	.34	576	.44	657	.55
	2500	411	.36	503	.46	590	.60	665	.72
	3000	458	.52	534	.62	608	.81	680	.95
	3500	493	.73	564	.87	**633**	**1.06**	**702**	**1.23**
	4000	**540**	**1.05**	**605**	**1.22**	**667**	**1.42**	**729**	**1.55**
	4500	**589**	**1.37**	**648**	**1.58**	**703**	**1.80**	**761**	**2.02**
	5000	**637**	**1.75**	**690**	**2.05**	**745**	**2.30**	**800**	**2.50**
A15-11ACE	2000	344	.21	459	.30	562	.42	654	.52
	2500	368	.30	467	.40	563	.52	652	.66
	3000	398	.41	487	.53	573	.67	654	.82
	3500	441	.50	512	.73	590	.89	**663**	**1.05**
	4000	479	.84	**543**	**1.00**	**611**	**1.17**	**679**	**1.32**
A15-15ACE	2000	350	.20	480	.31	595	.45	696	.56
	2500	370	.27	488	.40	592	.55	682	.69
	3000	395	.36	504	.52	598	.67	679	.81
	3500	429	.49	524	.67	610	.83	685	.97
	4000	467	.68	552	.85	**626**	**1.02**	**696**	**1.17**
	4500	505	.88	579	**1.06**	**647**	**1.25**	**712**	**1.44**
A18-13ACE	3000	309	.31	415	.52	497	.64	570	.76
	3500	327	.41	423	.58	500	.76	571	.94
	4000	352	.58	435	.73	506	.92	**576**	**1.13**
	4500	377	.70	448	.90	**514**	**1.11**	**582**	**1.37**
	5000	400	.90	**463**	**1.10**	**527**	**1.38**	**590**	**1.54**
	5500	**427**	**1.17**	**483**	**1.36**	**541**	**1.60**	**599**	**1.86**
	6000	**455**	**1.44**	**502**	**1.62**	**557**	**1.89**	**613**	**2.14**
A18-18ACE	3000	302	.28	414	.47	505	.61	593	.82
	3500	315	.36	418	.56	503	.71	585	.93
	4000	340	.48	427	.66	505	.83	**581**	**1.06**
	4500	351	.61	437	.80	511	.99	**583**	**1.22**
	5000	367	.74	449	.96	**521**	**1.19**	**589**	**1.43**
	5500	388	.90	**463**	**1.13**	**531**	**1.42**	**596**	**1.66**
	6000	**407**	**1.12**	**476**	**1.36**	**542**	**1.67**	**606**	**1.94**
	6500	**423**	**1.28**	**492**	**1.60**	**556**	**1.88**	**616**	**2.20**
	7000	**439**	**1.50**	**508**	**1.87**	**571**	**2.20**	**629**	**2.52**

Bold indicates ball bearing required (see notes on Page 22).

A12 – 12ACE

CFM	STATIC PRESSURE (INCHES: WC)																			
	.25		.50		.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50	
	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP
1400	409	.11	571	.17	706	.27	823	.37	*	*	*	*	*	*	*	*	*	*	*	*
1600	416	.13	571	.22	701	.32	815	.42	919	.53	*	*	*	*	*	*	*	*	*	*
1800	425	.16	574	.26	699	.36	810	.47	911	.59	*	*	*	*	*	*	*	*	*	*
2000	439	.20	579	.31	700	.42	808	.53	906	.66	997	.78	*	*	*	*	*	*	*	*
2200	457	.25	585	.36	703	.48	808	.60	903	.73	992	.86	*	*	*	*	*	*	*	*
2400	480	.31	594	.42	708	.55	810	.68	903	.81	989	.96	1071	1.10	1149	1.25	*	*	*	*
2600	505	.38	604	.48	714	.62	813	.76	904	.91	989	1.06	1069	1.21	1145	1.37	1217	1.53	1287	1.70
2800	533	.46	618	.56	721	.70	818	.85	907	1.01	990	1.16	1068	1.32	1142	1.49	1213	1.66	1282	1.83
3000	561	.56	635	.65	730	.79	824	.95	911	1.12	993	1.28	1069	1.45	1142	1.62	1211	1.80	1278	1.98
3200	X	X	656	.76	741	.90	831	1.06	917	1.24	996	1.41	1071	1.59	1143	1.77	1211	1.95	1277	2.14
3400	X	X	679	.88	755	1.01	840	1.18	923	1.36	1001	1.55	1075	1.74	1145	1.92	1212	2.11	1277	2.31
3600	X	X	704	1.02	771	1.15	850	1.31	930	1.50	1007	1.70	1080	1.89	1149	2.09	1214	2.29	1278	2.49
3800	X	X	731	1.17	791	1.30	862	1.46	939	1.65	1014	1.85	1085	2.06	1153	2.27	1218	2.48	1280	2.69
4000	X	X	X	X	812	1.46	877	1.62	949	1.82	1021	2.02	1091	2.24	1158	2.46	1222	2.67	1284	2.89

Refer to Page 24 for symbol representation.

Continued on next page

BELT DRIVE BLOWERS

Blower Performance Charts

A15 – 15ACE

	STATIC PRESSURE (INCHES: WC)																			
	.25		.50		.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50	
CFM	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP
2000	341	.14	474	.26	587	.39	686	.53	✳	✳	✳	✳	✳	✳	✳	✳	✳	✳	✳	✳
2500	355	.21	476	.34	581	.48	675	.64	760	.81	839	.99	911	1.17	✳	✳	✳	✳	✳	✳
3000	376	.31	486	.45	583	.61	670	.78	752	.96	827	1.16	899	1.36	965	1.57	1029	1.78	1089	2.00
3500	406	.45	501	.59	591	.76	673	.95	750	1.14	822	1.35	890	1.57	955	1.80	1017	2.03	1076	2.27
4000	441	.63	521	.78	604	.96	681	1.16	754	1.36	822	1.59	887	1.82	949	2.06	1009	2.31	1066	2.56
4500	X	X	546	1.01	621	1.20	694	1.41	762	1.63	827	1.86	889	2.11	948	2.36	1006	2.62	1061	2.90
5000	X	X	577	1.30	642	1.49	710	1.71	775	1.95	837	2.19	896	2.45	953	2.72	1007	2.99	●	●
5500	X	X	612	1.65	668	1.85	729	2.08	790	2.30	849	2.58	906	2.85	961	3.13	●	●	●	●

A18 – 18ACE

	STATIC PRESSURE (INCHES: WC)																			
	.25		.50		.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50	
CFM	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP
3000	299	.25	411	.45	506	.69	588	.93	660	1.19	✳	✳	✳	✳	✳	✳	✳	✳	✳	✳
3500	310	.32	414	.54	504	.79	584	1.06	656	1.35	724	1.47	785	1.74	✳	✳	✳	✳	✳	✳
4000	322	.42	419	.65	505	.91	582	1.21	652	1.52	719	1.66	780	1.95	836	2.25	889	2.55	✳	✳
4500	337	.53	428	.78	509	1.06	582	1.37	650	1.70	714	1.86	775	2.17	831	2.49	884	2.82	935	3.16
5000	353	.67	439	.93	515	1.23	585	1.55	651	1.89	712	2.09	771	2.41	826	2.75	879	3.10	929	3.46
5500	369	.84	452	1.12	524	1.43	591	1.76	654	2.12	712	2.35	769	2.69	823	3.04	875	3.41	925	3.78
6000	387	1.03	466	1.33	535	1.65	599	2.00	659	2.38	715	2.64	769	2.99	822	3.36	872	3.75	921	4.14
6500	X	X	480	1.58	547	1.92	608	2.28	666	2.67	719	2.97	772	3.34	823	3.72	872	4.12	919	4.53
7000	X	X	496	1.86	560	2.22	619	2.59	675	2.00	726	3.33	777	3.72	826	4.12	873	4.53	919	4.96
7500	X	X	513	2.17	575	2.55	631	2.95	685	3.36	735	3.74	783	4.15	831	4.56	876	4.99	921	5.43
8000	X	X	X	X	590	2.93	645	3.34	696	3.77	745	4.19	792	4.62	837	5.05	881	5.49	925	5.95
8500	X	X	X	X	605	3.35	659	3.78	709	4.23	756	4.69	801	5.13	845	5.58	888	6.04	930	6.51
9000	X	X	X	X	622	3.81	674	4.26	722	4.73	768	5.23	812	5.69	855	6.16	896	6.64	937	7.13
9500	X	X	X	X	X	X	689	4.79	736	5.28	781	5.81	824	6.30	866	6.79	906	7.29	★	★
10000	X	X	X	X	X	X	705	5.37	751	5.88	795	6.45	837	6.96	877	7.47	★	★	★	★

A18 – 18ACE, Continued

	STATIC PRESSURE (INCHES: WC)									
	2.75		3.00		3.25		3.50		3.75	
CFM	RPM	HP	RPM	HP	RPM	HP	RPM	HP	RPM	HP
3000	✳	✳	✳	✳	✳	✳	✳	✳	✳	✳
3500	✳	✳	✳	✳	✳	✳	✳	✳	✳	✳
4000	✳	✳	✳	✳	✳	✳	✳	✳	✳	✳
4500	983	3.50	1028	3.85	✳	✳	✳	✳	✳	✳
5000	977	3.82	1023	4.20	1067	4.58	✳	✳	✳	✳
5500	972	4.17	1018	4.56	1062	4.96	1104	5.37	1145	5.79
6000	968	4.54	1013	4.95	1057	5.37	1099	5.80	1140	6.24
6500	965	4.95	1009	5.38	1052	5.81	1094	6.26	1135	6.71
7000	964	5.39	1007	5.84	1049	6.29	1090	6.75	1130	7.22
7500	964	5.88	1007	6.34	1048	6.81	1088	7.29	★	★
8000	967	6.41	1008	6.88	1048	7.37	★	★	★	★
8500	971	6.99	1011	7.48	★	★	★	★	★	★
9000	976	7.62	★	★	★	★	★	★	★	★
9500	★	★	★	★	★	★	★	★	★	★
10000	★	★	★	★	★	★	★	★	★	★

NOTE: A18-18ACE Must ship via common carrier.

THESE SYMBOLS REPRESENT THE FOLLOWING CONDITIONS

✳ = Performance is Unstable and Not Recommended
X = Performance is Below 10% Static Efficiency
● = Exceeds 3 HP
★ = Exceeds 7½ HP

Specifications are subject to change without notice or obligation.

1725 RPM DRIVE CHART FOR BELT DRIVE BLOWER ASSEMBLIES

Blower Size (All Widths)	DISCHARGE	Motor Location	Motor Pulleys *48 = ½ *56 - ⅝	Belt Length													
				RPM 845-1132		RPM 697-938		RPM 594-798		RPM 518-698		RPM 458-617		RPM 412-554		RPM 339-457	
				5″		6″		7″		8″		9″		10″		12″	
				Motor Frame		Motor Frame		Motor Frame		Motor Frame		Motor Frame		Motor Frame		Motor Frame	
				48	56	48	56	48	56	48	56	48	56	48	56	48	56
A9	BH	1	3¼ x *	33	34	35	36	36	37	38	39	40	41				
	BH	2	3¼ x *	35	36	37	38	39	40	40	41	42	43				
	UB	1	3¼ x *	33	34	35	36	37	38	38	40	40	42				
	UB	2	3¼ x *	37	38	39	40	41	42	42	43	44	45				
	TH	1	3¼ x *	36	37	38	39	39	41	41	42	43	44				
	TH	2	3¼ x *	35	36	37	38	38	40	40	41	42	43				
	DB	1	3¼ x *	37	38	38	40	40	41	42	43	44	45				
A10	DB	2	3¼ x *	33	35	35	36	37	38	38	39	40	41				
	BH	1	3¼ x *	35	36	36	37	38	39	40	41	41	43	43	45		
	BH	2	3¼ x *	37	38	39	40	41	42	42	44	44	45	46	47		
	UB	1	3¼ x *	35	36	36	38	38	39	39	41	41	43	43	45		
	UB	2	3¼ x *	39	40	41	42	43	44	45	45	46	47	48	49		
	TH	1	3¼ x *	38	39	40	41	41	43	43	45	45	46	47	48		
	TH	2	3¼ x *	37	38	38	40	40	42	42	43	44	45	45	47		
	DB	1	3¼ x *	39	41	40	43	42	44	44	46	46	47	47	49		
	DB	2	3¼ x *	34	36	36	37	38	39	39	41	41	43	43	45		
A12	BH	1	3¼ x *			38	39	40	42	42	43	44	45	46	47		
	BH	2	3¼ x *			42	43	44	45	45	47	47	49	49	51		
	UB	1	3¼ x *			38	40	40	42	42	44	44	45	45	47		
	UB	2	3¼ x *			44	45	46	47	47	49	49	50	51	52		
	TH	1	3¼ x *			43	44	44	46	46	48	48	49	50	51		
	TH	2	3¼ x *			41	42	43	45	45	46	47	48	48	50		
	DB	1	3¼ x *			44	45	46	47	47	49	49	51	50	53		
	DB	2	3¼ x *			38	39	40	42	42	43	44	45	46	47		
A15	BH	1	3¼ x *			41	42	43	44	45	46	47	47	48	49	52	54
	BH	2	3¼ x *			44	46	46	48	47	50	49	52	51	53	55	58
	UB	1	3¼ x *			42	43	44	45	46	47	47	49	49	50	53	54
	UB	2	3¼ x *			48	49	50	51	51	52	53	55	55	56	59	60
	TH	1	3¼ x *			47	49	49	51	50	53	52	55	54	56	58	59
	TH	2	3¼ x *			45	47	46	48	48	51	50	52	51	54	56	57
	DB	1	3¼ x *			47	49	49	51	51	54	53	56	54	57	58	61
	DB	2	3¼ x *			42	44	43	45	45	48	47	49	48	50	52	54
A18	BH	1	3¼ x *									52	53	54	55	58	59
	BH	2	3¼ x *									56	57	58	59	62	63
	UB	1	3¼ x *									49	50	51	52	55	56
	UB	2	3¼ x *									52	53	54	55	58	59
	TH	1	3¼ x *									57	58	59	60	63	64
	TH	2	3¼ x *									54	55	56	57	60	61
	DB	1	3¼ x *									58	59	59	60	63	64
	DB	2	3¼ x *									51	52	53	54	57	58

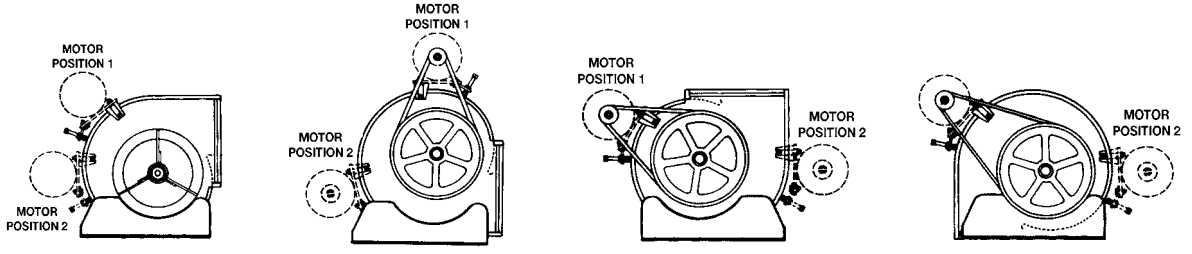
*Blower Pulley Size**

*Belt Length**

NOTE: All drives listed are for 1725 RPM motors.

** Order popular Pulleys and Belts on Page 48.*

BLOWER DISCHARGE AND MOTOR LOCATION



Top Horizontal *Bottom Horizontal* *Upblast* *Downblast*

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