

BLOWER ASSEMBLIES

RESIDENTIAL OR LIGHT COMMERCIAL BELT DRIVE APPLICATIONS

Blower Performance Chart

Model No.	CFM	1/4- SP		1/2- SP		3/4- SP		1- 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
A10-6ACE	1400	710	.25	863	.32	1005	.40	1123	.47
	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
A10-8ACE	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
	600	477	.08	700	.11	863	.17	1013	.22
A10-10ACE	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
A10-12ACE	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
A12-6ACE	1600	591	.25	739	.34	863	.43	987	.53
	1800	635	.32	763	.40	883	.50	991	.60
	600	414	.11	593	.18	735	.24	852	.30
	800	417	.11	577	.19	712	.26	835	.32
A12-9ACE	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
A12-12ACE	1800	581	.36	677	.45	765	.55	851	.64
	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
A15-9ACE	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
	1400	424	.16	574	.26	700	.33	816	.42
A15-11ACE	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
A15-15ACE	2400	507	.36	623	.47	728	.58	823	.69
	2600	530	.42	638	.54	740	.65	831	.76
	1500	347	.17	472	.24	582	.34	666	.43
	2000	375	.25	483	.34	576	.44	657	.55
A18-13ACE	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
A18-18ACE	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
	2000	344	.21	459	.30	562	.42	654	.52
	2500	368	.30	467	.40	563	.52	652	.66
A18-24ACE	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
	2000	350	.20	480	.31	595	.45	696	.56
A18-30ACE	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	559	.85	626	1.02	696	1.17
A18-36ACE	4500	505	.88	579	1.06	647	1.25	712	1.44
	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
A18-42ACE	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
A18-48ACE	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
A18-54ACE	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
A18-60ACE	7000	439	1.50	508	1.87	571	2.20	629	2.52

Bold indicates ball bearings required. (See notes.)

Sleeve Bearing Belt Drive (motors not included)

Applications include: heating, ventilating, refrigeration and air conditioning service applications.

The complete blower assembly includes the following items:

- Heavy Gauge Steel Blower
- Universal Mounting Supports
- Motor Mounting Bracket (max. HP ^{3/4})
- Vibro-pads
- Mounting Hardware

These additional items can be ordered from this catalog:

- Belts
 - Blower Pulleys
 - Motor Pulleys
 - Sealed-type Ball Bearings, if required
 - Heavy Duty Motor Mounting Bracket, if required
- (*see Notes below)

Purchase motors from motor supplier

NOTES: For Twin Blower Requirements, see page 22.

SP refers to Static Pressure.

Select belt drive blowers and drive sets as follows:

Example: To replace a blower to fit in a space 18- deep by 16- high by 28- wide. The desired CFM is 1000 and the static pressure is .75-. (See shaded areas of chart for following the example below.)

Procedure	Example	Remarks
1. Determine blower position from diagrams on page 19.	For our example, we'll say it is UP BLAST.	UB
2. Determine the overall dimensions for fit. (See dimensions A and B on page 19.)	Measure old blower.	A = 18- B = 16-
3. Determine the blower outlet dimensions. (See dimensions K and E on page 19.)	Measure old blower.	E = 1 1/8- K = 13 1/4-
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 @ .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 1/2 HP nameplate rating. Remember, "over-motoring" or "under-motoring" will cause excessive heat for any motor.	A10 blower with an up blast (UB) position requires motor position #2, a 3 1/4- motor pulley, 6- wheel pulley and a 41- belt based on 843 RPM. (Assumes a 48 frame motor.)	Position #2 Motor Pulley = 3 1/4- Wheel Pulley = 6- Belt = 41- Motor: 1/2 HP
* Notes:		
■ Standard sleeve bearings are suitable for up to 3/4 HP on 9 and 10 inch blowers and up to 1 HP on 12-18 inch designs. Above these limits, ball bearings are required.	■ Before making final selections, review component limits shown under Tips on page 34, as well as on pages 36 and 37.	
■ ORDER SEALED-TYPE BALL BEARINGS (PAGE 32) SEPARATELY AND CHANGE BEARINGS IN THE FIELD.	■ Lau Industrial Blower Assemblies include ball bearings as standard. Find Industrial Blowers on pages 20 and 21.	

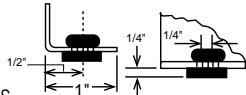
+ 1- SP is typical for a 1500 sq. ft. application.

Blower Part No. and Dimension Chart

Part Number	Model Number	K	E	A	B	Shaft Size
38-2553-01	A9-6ACE	8 1/4	10 1/4	15 1/16	14 15/16	3/4
38-2075-01	A9-7ACE	9 3/16	10 1/4	15 7/16	14 15/16	3/4
38-2074-01	A9-9ACE	11 7/8	10 1/4	15 7/16	14 15/16	3/4
024840-25	A10-6ACE	8 1/4	11 3/8	17 1/4	16 1/2	3/4
38-2077-01	A10-8ACE	10 1/2	11 3/8	17 1/4	16 1/2	3/4
38-2076-01	A10-10ACE	13 1/8	11 3/8	17 1/4	16 1/2	3/4
024840-26	A12-6ACE	8 13/16	13 7/16	20 7/16	19 5/16	1
38-2434-18	A12-9ACE	12 3/8	13 7/16	20 7/16	19 5/16	1
38-2434-17	A12-12ACE	15 3/4	13 7/16	20 7/16	19 5/16	1
024840-27	A15-9ACE	12 13/16	15 7/8	24 1/8	22 5/8	1
38-2081-01	A15-11ACE	14 11/16	15 7/8	24 1/8	22 5/8	1
38-2080-01	A15-15ACE	18 5/8	15 7/8	24 1/8	22 5/8	1
38-2429-01	A18-13ACE	17 3/8	18 7/8	29 1/8	27	1
38-2430-01*	A18-18ACE	21 7/8	18 7/8	29 1/8	27	1

*Must ship via common carrier.

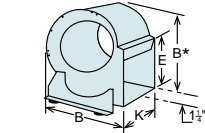
RESIDENTIAL AND LIGHT COMMERCIAL



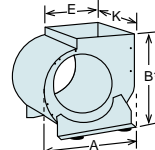
VIBRO-PADS

Soft rubber pads that snap easily into the base bracket ... reducing vibration, wear and noise.

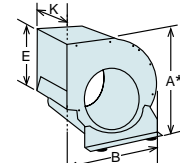
(See page 33 to order.)



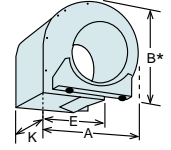
Bottom Horizontal (BH)*



Up Blast (UB)*



Top Horizontal (TH)*



Down Blast (DB)*

1725 RPM Drive Chart for Belt Drive Blower Assemblies

Blower Size (All Widths)	DISCHARGE	Motor Location	Motor Pulleys *48 = 1/2 *56 = 5/8	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	3/4 x *	33	34	35	36	36	37	38	39	40	41				
	BH	2	3/4 x *	35	36	37	38	39	40	40	41	42	43				
	UB	1	3/4 x *	33	34	35	36	37	38	38	40	40	42				
	UB	2	3/4 x *	37	38	39	40	41	42	42	43	44	45				
	TH	1	3/4 x *	36	37	38	39	39	41	41	42	43	44				
	TH	2	3/4 x *	35	36	37	38	38	40	40	41	42	43				
	DB	1	3/4 x *	37	38	38	40	40	41	42	43	44	45				
	DB	2	3/4 x *	33	35	35	36	37	38	38	39	40	41				
A10	BH	1	3/4 x *	35	36	36	37	38	39	40	41	41	43	43	45		
	BH	2	3/4 x *	37	38	39	40	41	42	42	44	44	45	46	47		
	UB	1	3/4 x *	35	36	36	38	38	39	39	41	41	43	43	45		
	UB	2	3/4 x *	39	40	41	42	43	44	45	45	46	47	48	49		
	TH	1	3/4 x *	38	39	40	41	41	43	43	45	45	46	47	48		
	TH	2	3/4 x *	37	38	38	40	40	42	42	43	44	45	45	47		
	DB	1	3/4 x *	39	41	40	43	42	44	44	46	46	47	47	49		
	DB	2	3/4 x *	34	36	36	37	38	39	39	41	41	43	43	45		
A12	BH	1	3/4 x *			38	39	40	42	42	43	44	45	46	47		
	BH	2	3/4 x *			42	43	44	45	45	47	47	49	49	51		
	UB	1	3/4 x *			38	40	40	42	42	44	44	45	45	47		
	UB	2	3/4 x *			44	45	46	47	47	49	49	50	51	52		
	TH	1	3/4 x *			43	44	44	46	46	48	48	49	50	51		
	TH	2	3/4 x *			41	42	43	45	45	46	47	48	48	50		
	DB	1	3/4 x *			44	45	46	47	47	49	49	51	50	53		
	DB	2	3/4 x *			38	39	40	42	42	43	44	45	46	47		
A15	BH	1	3/4 x *			41	42	43	44	45	46	47	47	48	49	52	54
	BH	2	3/4 x *			44	46	46	48	47	50	49	52	51	53	55	58
	UB	1	3/4 x *			42	43	44	45	46	47	47	49	49	50	53	54
	UB	2	3/4 x *			48	49	50	51	51	52	53	55	55	56	59	60
	TH	1	3/4 x *			47	49	49	51	50	53	52	55	54	56	58	59
	TH	2	3/4 x *			45	47	46	48	48	51	50	52	51	54	56	57
	DB	1	3/4 x *			47	49	49	51	51	54	53	56	54	57	58	61
	DB	2	3/4 x *			42	44	43	45	45	48	47	49	48	50	52	54
A18	BH	1	3/4 x *									52	53	54	55	58	59
	BH	2	3/4 x *									56	57	58	59	62	63
	UB	1	3/4 x *									49	50	51	52	55	56
	UB	2	3/4 x *									52	53	54	55	58	59
	TH	1	3/4 x *									57	58	59	60	63	64
	TH	2	3/4 x *									54	55	56	57	60	61
	DB	1	3/4 x *									58	59	59	60	63	64
	DB	2	3/4 x *									51	52	53	54	57	58

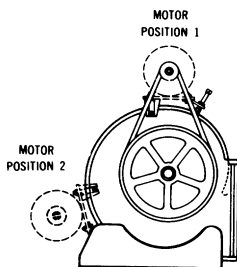
BLOWER PULLEY SIZE
ORDER POPULAR PULLEYS ON PAGE 33

BELT LENGTH
ORDER POPULAR BELTS ON PAGE 34

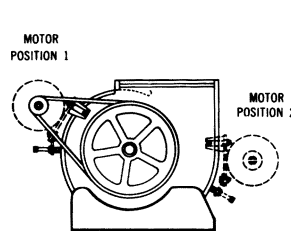
ALL DRIVES LISTED ARE FOR 1725 RPM MOTORS

NOTE: All drives listed are for 1725 RPM motors.

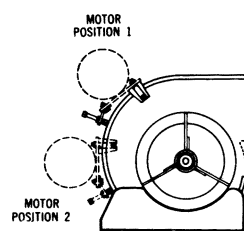
Reference: Blower Discharge and Motor Location



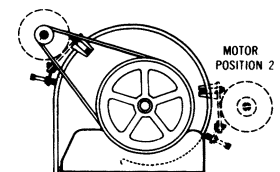
*BH



*UB



*TH



*DB