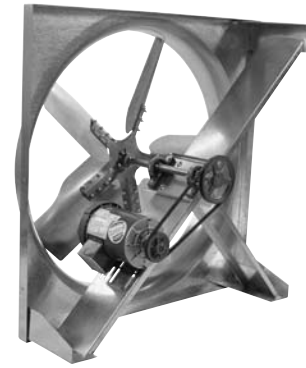




MODEL LC SIDEWALL BELT DRIVE PROPELLER FAN



APPLICATION

Model LCE (exhaust) is a high capacity belt driven propeller fan. Its primary application is the exhaust of large volumes of air at relatively low static pressures from commercial, light industrial and agricultural buildings such as manufacturing and assembly plants, warehouses, parking garages, gymnasiums, equipment rooms, distribution centers, poultry and greenhouses.

Belt driven fans provide large volumes of air at low fan speeds and low noise levels and afford quick, easy performance adjustments.

When suspended from the ceiling, thus keeping floor spaces open, model LC can be installed to direct large volumes of air downward toward work centers improving employee comfort and productivity.

CONSTRUCTION

Panel Assembly

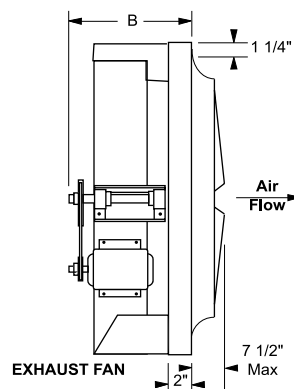
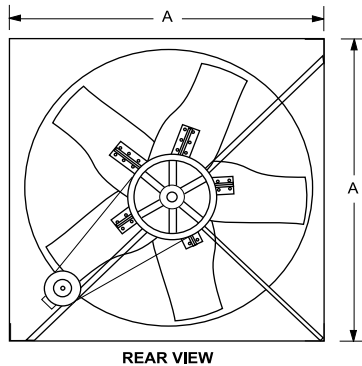
- Heavy-gauge galvanized steel.
- All welded motor & drive support frame assembly.
- Prepunched mounting holes.

Propeller

- Die formed galvanized steel blades.
- Epoxy coated hub keyed to fan shaft.
- Statically and dynamically balanced.

Drives

- Sized for minimum 150% of drive horsepower.
- Single belt adjustable pitch sheaves through 3 HP
- Nonstatic v-belts.



DIMENSIONAL DATA

MODEL LC	A	B	C	Average Ship Wt. Lbs	RECOMMENDED SHUTTER		FAN LESS MOTOR & DRIVES	
					OD	STOCK NO.	STOCK NO.	MAX MOTOR Hp
20	24	15	23	85	22 1/2	S3GA20	LCE20LMDS	3/4
24	30	15	23	90	28 1/2	S3GA26	LCE24LMDS	1 1/2
30	36	15	24	100	34 1/2	S3GA32	LCE30LMDS	1 1/2
36	42	15	24	105	40 1/2	S3GA38	LCE36LMDS	2
42	48	16	24	110	46 1/2	S3GA44	LCE42LMDS	2
48	54	16	24	125	52 1/2	S3GA50	LCE48LMDS	2
54	60	20	26	240	58 1/2	S3GA56	LCE54LMDS	3
60	66	20	26	285	64 1/2	S3GA62	LCE60LMDS	3

ALL DIMENSIONS IN INCHES, WEIGHTS IN POUNDS. OD IS OUTSIDE DIMENSION OF SQUARE SHUTTER DUE TO CONTINUING RESEARCH, SOLER & PALAU RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

Bearings

- Designed for minimum 200,000 hour life.
- Bearings are sealed, prelubricated with relube fittings.

Motors

- Open drip-proof construction is standard.
- All motors mounted and factory run tested.



Soler & Palau USA, certifies that the Models LC shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



UL STANDARD 705

MODEL LC					Sidewall Belt Drive Propeller Fan						Ventilator with Open Drip-proof Motor and Drive Assembly	
Model LC	Motor Hp	Max BHP	RPM	SONES @ 0 SP	CFM at Static Pressure						115/1/60*	208-230/460/3/60
					0	1/10	1/8	1/4	3/8	1/2	STOCK NO.	STOCK NO.
20	1/4	0.30	955	11.5	3983	3600	3491	-	-	-	LCE20MHIS	LCE20MHIS
	1/3	0.40	1050	13.5	4379	4038	3941	3312	-	-	LCE20PHIS	LCE20PH3S
	1/2	0.60	1180	16.4	4921	4625	4543	4081	3182	-	LCE20QHIS	LCE20QH3S
	3/4	0.90	1350	20.0	5630	5377	5308	4934	4462	3538	LCE20RHIS	LCE20RH3S
24	1/4	0.30	600	10.2	5331	4652	4431	2269	-	-	LCE24MHIS	LCE24MH3S
	1/3	0.41	660	12.1	5864	5268	5086	3702	-	-	LCE24PHIS	LCE24PH3S
	1/2	0.60	760	15.7	6753	6254	6112	5212	-	-	LCE24QHIS	LCE24QH3S
	3/4	0.90	875	19.8	7775	7352	7237	6562	5600	-	LCE24RHIS	LCE24RH3S
	1	1.20	950	22.0	8441	8057	7953	7369	6625	5559	LCE24SHIS	LCE24SH3S
	1 1/2	1.82	1100	28.0	9774	9447	9361	8894	8347	7688	LCE24THIS	LCE24TH3S
30	1/4	0.30	450	9.0	7365	6062	5572	-	-	-	LCE30MHIS	LCE30MH3S
	1/3	0.40	495	10.5	8101	6954	6603	-	-	-	LCE30PHIS	LCE30PH3S
	1/2	0.59	565	13.3	9247	8271	7995	6052	-	-	LCE30QHIS	LCE30QH3S
	3/4	0.90	650	17.1	10638	9853	9594	8198	-	-	LCE30RHIS	LCE30RH3S
	1	1.20	715	20.0	11702	11021	10802	9659	8052	-	LCE30SHIS	LCE30SH3S
	1 1/2	1.78	815	24.0	13339	12773	12599	11609	10482	9013	LCE30THIS	LCE30TH3S
36	1/3	0.41	390	9.7	10755	8745	7976	-	-	-	LCE36PHIS	LCE36PH3S
	1/2	0.59	440	11.9	12133	10449	9923	-	-	-	LCE36QHIS	LCE36QH3S
	3/4	0.90	505	15.3	13926	12485	12100	9348	-	-	LCE36RHIS	LCE36RH3S
	1	1.19	555	18.1	15305	14018	13663	11419	-	-	LCE36SHIS	LCE36SH3S
	1 1/2	1.79	635	22.0	17511	16413	16111	14497	12146	-	LCE36THIS	LCE36TH3S
	2	2.37	695	25.0	19165	18176	17907	16499	14594	12363	LCE36VHIS	LCE36VH3S
42	1/3	0.41	305	8.4	13173	9658	8439	-	-	-	LCE42PHIS	LCE42PH3S
	1/2	0.60	345	9.8	14901	12109	11073	-	-	-	LCE42QHIS	LCE42QH3S
	3/4	0.90	395	12.6	17060	14724	14044	7292	-	-	LCE42RHIS	LCE42RH3S
	1	1.20	435	14.9	18788	16703	16128	12182	-	-	LCE42SHIS	LCE42SH3S
	1 1/2	1.81	500	18.8	21596	19833	19339	16470	11827	-	LCE42THIS	LCE42TH3S
	2	2.40	550	22.0	23755	22182	21746	19393	16034	-	LCE42VHIS	LCE42VH3S
48	1/2	0.62	290	10.0	17979	13841	12199	-	-	-	LCE48QHIS	LCE48QH3S
	3/4	0.91	330	12.1	20459	16949	15969	-	-	-	LCE48RHIS	LCE48RH3S
	1	1.23	365	14.3	22629	19504	18659	10868	-	-	LCE48SHIS	LCE48SH3S
	1 1/2	1.82	415	17.8	25729	23054	22306	17746	-	-	LCE48THIS	LCE48TH3S
	2	2.39	455	21.0	28209	25800	25148	21574	15382	-	LCE48VHIS	LCE48VH3S
54	3/4	0.92	270	11.0	23384	-	17932	-	-	-	LCE54RHIS	LCE54RH3S
	1	1.20	295	13.1	25550	-	20825	-	-	-	LCE54SHIS	LCE54SH3S
	1 1/2	1.84	340	16.8	29447	-	25449	19183	-	-	LCE54THIS	LCE54TH3S
	2	2.38	370	19.4	32045	-	28375	23692	-	-	LCE54VHIS	LCE54VH3S
	3	3.60	425	24.0	36809	-	33585	30290	24785	15677	N/A	LCE54WH3S
60	1	1.21	265	11.5	28491	-	22275	-	-	-	LCE60SHIS	LCE60SH3S
	1 1/2	1.75	300	14.3	32254	-	27023	-	-	-	LCE60THIS	LCE60TH3S
	2	2.44	335	17.1	36017	-	31464	25399	-	-	LCE60VHIS	LCE60VH3S
	3	3.56	380	21.0	40855	-	36826	32244	29351	-	N/A	LCE60WH3S

PROPELLER WALL/DUCT FANS

Performance ratings include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses.

Performance certified is for installation type A-free inlet, free outlet.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A-Free inlet fan sone levels.

***Tri-voltage (115-208-230) is standard on 3/4 through 1 1/2 Hp Single phase motors. Tri-voltage is available for the 1/2 Hp motors. Inquire for price and delivery.**

575/3/60 ODP Motors are available for most motor HP's - Refer to Price List.

Refer to pages 56 & 57 for Accessories.

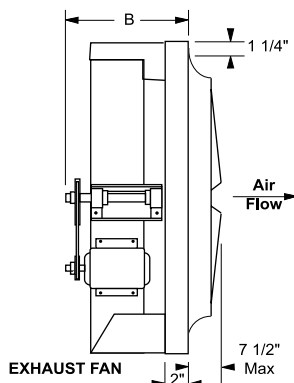
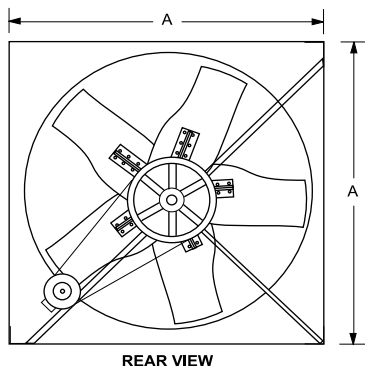


SUBMITTAL DRAWING

LC - SIDEWALL PROPELLER FAN - BELT DRIVE

LCE - EXHAUST

LEVEL I CONSTRUCTION



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SIZE	A SQ. O.D. PANEL	B EXHAUST	APPROX WT.	MAX MOTOR	MATERIAL GAUGE OR THICKNESS				
					SHAFT	PANEL	SUPPORT FRAME	BLADES	HUB SPIDER
20	24	15	85	56H	3/4	18	16	18	14
24	30	15	90	145T	1	16	12	16	10
30	36	15	100	145T					10
36	42	15	105	145T					7
42	48	16	110	145T				7	
48	54	16	125	145T	1 3/16	14	14	7	
54	60	20	240	182T				1/4	
60	66	20	285	182T				1/4	

CONSTRUCTION AND MATERIAL SPECIFICATION - LEVEL I

Fan panel, support frame, motor & bearing mounts - all welded G90 galvanized steel.

Fan Blades - Die formed G90 galvanized, bolted to hub.

Hub - Die formed steel, epoxy coated, keyed to shaft.

Bearings - Air handling, self aligning, cast iron pillow block with grease fittings, L50 = 200,000 hours average life.

Shaft - Turned, ground and polished, keyed to propeller hub and sheave.

Drives - Cast iron, 150% S.F., single groove and adjustable thru 3HP, keyed to motor and fan shaft.

Belts - Nonstatic conducting, oil resistant, single groove thru 3HP.

FAN SPECIFICATIONS									MOTOR SPECIFICATIONS				
Line	Qty.	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl
1													
2													
3													
4													
5													

ACCESSORY ITEMS					ACCESSORY ITEMS						
	1	2	3	4	5		1	2	3	4	5
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