LM-LMF series

VOLUME BLOWER

engineering data
and specifications





CINCINNATI FAN

LM SERIES FEATURES

A - Round inlets and outlets for convenient slip fit of duct work or hose.

B - Commercial grade 319 cast aluminum housing for increased strength and AMCA Type C spark-resistance.

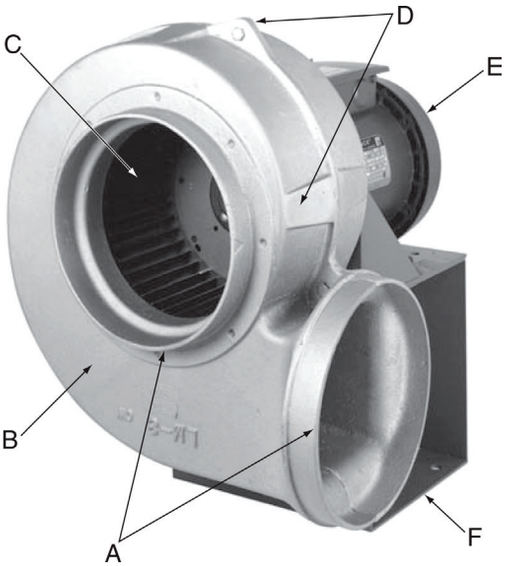
C - Steel multivane wheels for high volume and low noise levels. Aluminum wheels available for AMCA Type B spark-resistance on all models except LM-6 or LMF-6 above 1800 RPM.

D - Tapered housing lugs and stiffener pads for additional strength.

E - Continuous duty, ball bearing, industrial motors.

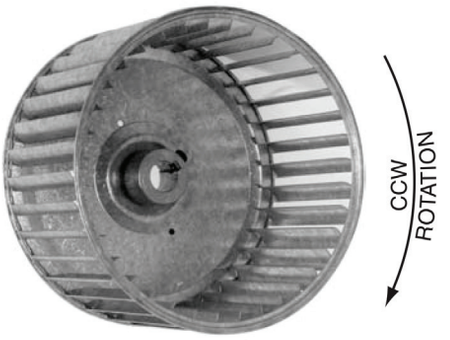
F - All fan bases are minimum 12 gauge steel.

G - All model LMF blowers (not shown here) have a discharge flange cast as an integral part of the housing for rigid support by the flange only. See pages 3 and 10.

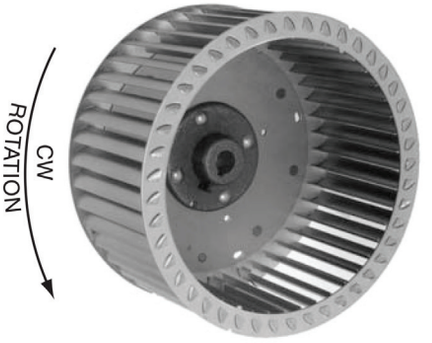


BLOWER WHEELS

Standard wheels are steel. Some have internal hubs and some have external hubs. Aluminum wheels available on most sizes, but extended deliveries may occur. For limitations, see chart on page 7.



Standard steel wheel for LMF-3, LM-4, LMF-4, LM-6 and LMF-6. All LMF models are clock-wise rotation only.



Standard steel wheel for LM-8 and LMF-8.

SPARK-RESISTANT CONSTRUCTION

Type A: All parts in contact with airstream are of nonferrous material. Please select a PB series.

Type B: With the addition of an aluminum wheel, the fan will be AMCA type B spark-resistant. Maximum Temperature 150°F (66°C). Not available on LM-6 or LMF-6 above 1800 RPM.

⚠ Caution— All fans and blowers shown have rotating parts and pinch points. Severe personal injury can result if operated without guards. Stay away from rotating equipment unless it is disconnected from its power source. Read and understand operating instructions.

⚠ WARNING

The use of aluminum or aluminum alloys in the presence of steel which has been allowed to rust requires special consideration. Research by the U.S. Bureau of Mines and others has shown that aluminum impellers rubbing on rusty steel may cause high intensity sparking.

The use of the above Standard in no way implies a guarantee of safety for any level of spark resistance. Spark-resistant construction also does not protect against ignition of explosive gases caused by catastrophic failure or from any airstream material that may be present in a system.

LM MODELS — NINE STANDARD ARRANGEMENTS



ARRANGEMENT 4
Foot and flange motor



ARRANGEMENT 4
Flange mount footless motor



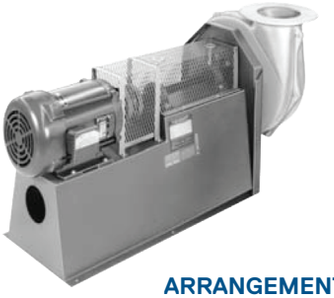
ARRANGEMENT 4
Foot mounted motor



ARRANGEMENT 4
Horizontal mount—page 8



ARRANGEMENT 4D
Double blower



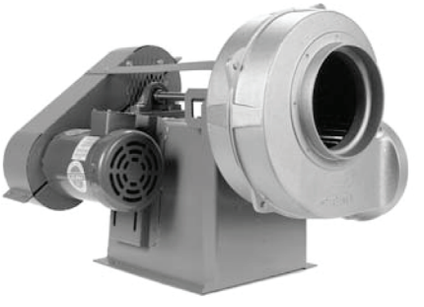
ARRANGEMENT 8
With optional discharge flange



ARRANGEMENT 2



ARRANGEMENT 1



ARRANGEMENT 9

LMF MODELS — FOUR SIZES



LMF-3



LMF-6



LMF-4



LMF-8

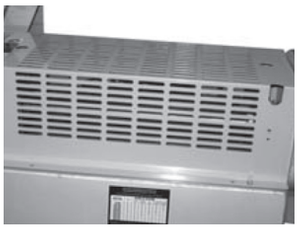
All LMF models include an integral cast discharge flange for mounting and a neoprene flange gasket. For flange dimensions, see page 10.

OPTIONS



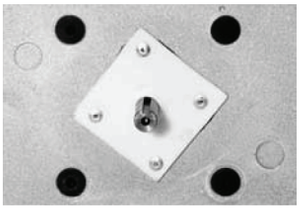
Inlet Filter

Many layered fine wire mesh. Pleated, paper media available on all sizes for LM and LMF fans.



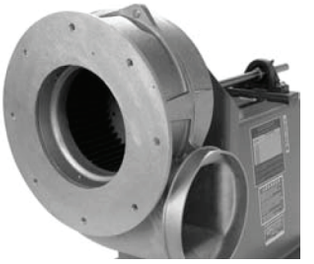
Shaft - Heat Slinger Guard

Available on arrangement 1 and 9. Covers bearings and shaft between fan housing and belt guard. Has extended lube lines. Meets OSHA standards. Painted safety yellow.



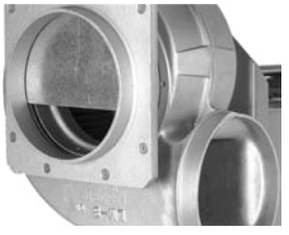
Teflon Shaft Seal

1/8" thick Teflon shaft seal good to 300°F.



Inlet/Outlet Flange

Cast aluminum, drilled to ANSI-125 pound flange bolt circle dimensions if requested. Dimensions on page 11. Outlet flange not available in Down Blast configuration.



Slide Gate Damper

Available for 4, 5, 6 and 8 inch inlets or outlets. Cast aluminum frame, galvanized steel gate. Suitable for duct work. Dimensions on page 11. Add inlet/outlet guard if not ducted. Not available on outlet for Down Blast discharge position.



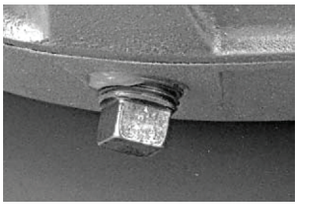
Inlet/Outlet Guard

Spiral guard with nickel/chrome/ lacquer finish. OSHA type. Available on 4, 5, 6 and 8 inch inlets or outlets. Required by OSHA on non-ducted inlet and/or discharge.



Belt Guard

Bearing side is enclosed. Not available unless Cincinnati Fan mounts motor. Painted safety yellow. Standard on Arrangement 9.



Drain

1/2" drain with plug. Not required on bottom horizontal discharges.

HIGH TEMPERATURE CONSTRUCTION

Standard Construction — All arrangements suitable to 150°F

151°F - 300°F — Standard fan with heat slinger and slinger guard on all arrangements. Arrangements 4, 4HM and 4D also includes a shaft extension.

Fan performance tables are developed using standard air which is 70°F, 29.92" barometric pressure and .075 lb/ft^2 per cubic foot. Density changes resulting from temperature or barometric pressure variations (such as higher altitudes) must be corrected to standard conditions before selecting a fan based on standard performance data. Temperature and/or altitude conversion factors are used in making corrections to standard conditions.

Temperature - Altitude Conversion

Air Temperature °F	Altitude in Feet Above Sea Level										
	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
0°	0.87	0.91	0.94	0.98	1.01	1.05	1.09	1.13	1.17	1.22	1.26
40°	0.94	0.98	1.02	1.06	1.10	1.14	1.19	1 23	1.28	1.32	1.36
70°	1.00	1.04	1.08	1.12	1.16	1.20	1.25	1.30	1.35	1.40	1.45
80°	1.02	1.06	1.10	1.14	1.19	1.23	1.28	1.33	1.38	1.43	1.48
100°	1.06	1.10	1.14	1.19	1.23	1.28	1.33	1.38	1.43	1.48	1.54
120°	1.09	1.14	1.18	1.23	1.28	1.32	1.38	1.43	1.48	1.53	1.58
140°	1.13	1.18	1.22	1.27	1.32	1.37	1.42	1.48	1.54	1.58	1.65
160°	1.17	1.22	1.26	1.31	1.36	1.42	1.47	1.53	1.59	1.64	1.70
180°	1.21	1.26	1.30	1.36	1.41	1.46	1.52	1.58	1.64	1.70	1.75
200°	1.25	1.29	1.34	1.40	1.45	1.51	1.57	1.63	1.69	1.75	1.81
250°	1.34	1.39	1.45	1.50	1.56	1.62	1.68	1.74	1.82	1.88	1.94
300°	1.43	1.49	1.55	1.61	1.67	1.74	1.80	1.87	1.94	2.00	2.08

EXAMPLE: Required fan performance is 800 CFM at 1" SP at 250°F and 7000' altitude.

Step 1 - From the table, the conversion factor for 250° and 7000' is 1.74.

Step 2 - Correct static pressure is:

1.74 x 1" SP = 1.74" SP at standard conditions.

Step 3 - Make fan selection from table on page 5. We select LM-6, 6.3 x 2.5 wheel at 3450 RPM to provide 815 CFM at 1.75" SP and 1.16 bhp.

Step 4 - Correct the bhp for the lighter air:

1.16 ÷ 1.74 = .67 bhp.

A 3/4 hp motor will suffice at 250° F and 7000' but not at standard conditions. Special motor insulation may be required above 3500 feet altitude. Also bhp correction might need to be modified if blower will be subject to cold starts, i.e. starting at 70°F at 7000' altitude.

DIRECT DRIVE RATINGS

CFM and bhp at Static Pressure Shown – Ratings at 70ºF – .075" Density – Sea Level

Model	Nominal Wheel Size	Fan RPM	¼" SP		½" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP		2" SP	
			CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp
LMF-3	4.7 x 2.4	3450	230	0.08	214	0.07	196	0.07	175	0.06	150	0.05	118	0.03				
LM-4 and LMF-4	4.3 x 2.9	1750	119	0.02														
	4.7 x 2.9	1750	163	0.04														
	4.3 x 2.9	3450	293	0.16	273	0.15	253	0.15	232	0.15	209	0.14						
	4.7 x 2.9	3450	377	0.34	356	0.32	337	0.31	319	0.30	300	0.29	280	0.27	256	0.26		
LM-6 and LMF-6 note 1	6.3 x 2.5	1150	256	0.04														
	6.3 x 3.5	1150	284	0.04														
	6.3 x 2.5	1750	439	0.16	405	0.15	344	0.12										
	6.3 x 3.5	1750	507	0.18	452	0.16	388	0.14										
	6.3 x 2.5	3450	901	1.29	890	1.28	878	1.26	865	1.24	850	1.22	834	1.19	815	1.16	794	1.13
	6.3 x 3.5	3450	1072	1.50	1048	1.46	1023	1.42	996	1.38	970	1.34	942	1.30	913	1.25	884	1.21
LM-8 and LMF-8	8.3 x 1.5	1150	351	0.10	209	0.08												
	8.3 x 3.0	1150	534	0.14	427	0.12												
	8.3 x 4.1	1150	1044	0.35	894	0.25	688	0.17										
	8.3 x 1.5	1750	611	0.39	552	0.37	490	0.35	407	0.32	203	0.25						
	8.3 x 3.0	1750	913	0.53	835	0.49	766	0.47	697	0.44	620	0.40	512	0.35				
	8.3 x 4.1	1750	1704	1.44	1617	1.28	1525	1.12	1427	0.97	1319	0.84	1194	0.71	1037	0.59		

Model	Nominal Wheel Size	Fan RPM	2 ¼" SP		2 ½" SP		2 ¾" SP		3" SP		3¼" SP		3½" SP		3 ¾" SP	
			CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp
LM-6 and LMF-6 note 1	6.3 x 2.5	3450	769	1.09	740	1.04	705	0.99	664	0.93						
	6.3 x 3.5	3450	853	1.17	821	1.13	788	1.09	753	1.05	714	1.01	672	0.96	623	0.91

1. Aluminum wheels not available at 3450 RPM. See chart on page 7.

Rotation and Discharge Positions

Eight discharge positions available.* 45º discharge positions available at additional cost.



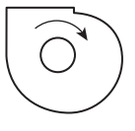
CW-TH
Clockwise Top Horizontal Discharge



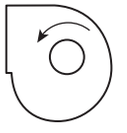
CW-DB
Clockwise Down Blast Discharge



CW-BH
Clockwise Bottom Horizontal Discharge



CW-UB
Clockwise Up Blast Discharge



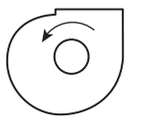
CCW-TH*
Counter Clockwise Top Horizontal Discharge



CW-DB*
Counter Clockwise Down Blast Discharge



CW-BH*
Counter Clockwise Bottom Horizontal Discharge



CW-UB*
Counter Clockwise Up Blast Discharge

* All LMF models are available in clockwise rotation only. Diagrams shown are determined by viewing fan from motor or drive side

BELT DRIVE RATINGS

CFM and bhp at Static Pressure Shown – Ratings at 70°F – .075" Density – Sea Level
Note-Drive losses are not included in bhp. For RPMs in italics, direct drive blowers should be considered.

LM-4 Wheel Size - 4.7" x 2.9" Outlet Area -.077 ft^2 Steel Wheel Max. Speed - 4000 RPM

Volume	¼" SP		½" SP		¾" SP		1" SP		1 ¼" SP		1 ½" SP		1 ¾" SP		2" SP		2 ¼" SP		2 ½" SP	
CFM	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
100	1322	0.01	1685	0.03											Max. Speed for Aluminum wheel is 3500 RPM					
150	1656	0.03	1921	0.05	2168	0.06	2409	0.08	2645	0.11	2877	0.13								
200	2033	0.06	2255	0.08	2454	0.10	2644	0.12	2830	0.14	3012	0.17	3192	0.20	3370	0.23	3547	0.26	3721	0.29
250	2426	0.11	2624	0.13	2797	0.15	2960	0.18	3116	0.20	3268	0.23	***3417***	***0.25***	3565	0.28	3711	0.32	3855	0.35
300	2827	0.18	3009	0.21	3166	0.23	3312	0.26	***3450***	***0.29***	3584	0.31	3714	0.34	3841	0.37	3967	0.40		
350	3233	0.28	***3403***	***0.31***	3549	0.34	3683	0.37	3810	0.40	3931	0.43	For ratings in bold italics direct drive recommended							
400	3642	0.41	3802	0.44	3940	0.48														

LM-6 Wheel Size - 6.3" x 3.5" Outlet Area -.173 ft^2 Steel Wheel Max. Speed - 3500 RPM

Volume	½" SP		¾" SP		1" SP		1 ¼" SP		1 ½" SP		2" SP		2 ½" SP		3" SP		3 ½" SP	
CFM	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
150	1182	0.03																
200	1221	0.04	1455	0.06							For ratings in bold italics direct drive recommended							
250	1297	0.05	1502	0.07	1693	0.09	1873	0.12	2044	0.15								
300	1393	0.07	1578	0.09	1749	0.11	1913	0.14	2069	0.17	2363							
350	1503	0.09	1671	0.12	1828	0.14	1977	0.17	2120	0.20	2392	0.26	2648	0.34				
400	1621	0.12	1776	0.15	1921	0.17	2059	0.20	2191	0.24	2443	0.30	2681	0.38	2909	0.46	3127	0.54
450	1746	0.16	1890	0.19	2025	0.22	2153	0.25	2277	0.28	2511	0.35	2734	0.43	2948	0.51	3154	0.60
500	1875	0.20	2010	0.23	2137	0.27	2257	0.30	2373	0.33	2594	0.41	2803	0.49	3004	0.57	3198	0.66
550	2009	0.26	2135	0.29	2255	0.32	2368	0.36	2478	0.39	2686	0.47	2884	0.55	3074	0.64	3258	0.73
600	2146	0.32	2264	0.36	2377	0.39	2485	0.43	2589	0.47	2787	0.55	2975	0.63	3155	0.72	3330	0.82
650	2285	0.39	2397	0.43	2504	0.47	2606	0.51	2705	0.55	2894	0.64	3073	0.72	3245	0.82	***3411***	***0.92***
700	2427	0.48	2532	0.52	2633	0.56	2731	0.60	2825	0.65	3006	0.73	3177	0.83	3342	0.92		
750	2570	0.58	2670	0.62	2766	0.66	2859	0.71	2949	0.75	3122	0.85	3287	0.94	***3445***	***1.04***		
800	2715	0.69	2809	0.73	2901	0.78	2990	0.83	3076	0.87	3242	0.97	3400	1.07				
850	2861	0.81	2951	0.86	3038	0.91	3123	0.96	3206	1.01	3365	1.11						
900	3009	0.95	3094	1.00	3177	1.05	3259	1.11	3338	1.16	***3491***	***1.27***						
											Max. Speed for Aluminum wheel is 1800 RPM							
950	3157	1.11	3238	1.16	3318	1.21	3396	1.27	***3472***	***1.32***								
1000	3306	1.28	3384	1.33	***3460***	***1.39***												
1050	***3456***	***1.47***																

LM-8 Wheel Size - 8.3" x 4.1" Outlet Area -.317 ft^2 Steel Wheel Max. Speed - 1800 RPM

Volume	¼" SP		½" SP		¾" SP		1" SP		1 ¼" SP		1 ½" SP		1 ¾" SP		1" SP	
CFM	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
400	665	0.03	881	0.06	1067	0.09										
500	722	0.05	912	0.08	1081	0.11	1235	0.14	1376	0.18						
600	790	0.08	959	0.10	1112	0.14	1254	0.17	1387	0.22	1512	0.26	1629	0.31		
700	865	0.12	1017	0.14	1156	0.17	1287	0.21	1410	0.26	1528	0.30	1640	0.35	***1746***	***0.40***
800	944	0.17	1083	0.19	1211	0.22	1331	0.26	1445	0.31	1555	0.35	1661	0.41	***1762***	***0.46***
900	1027	0.23	1155	0.26	1273	0.29	1384	0.33	1491	0.37	1593	0.42	1692	0.47	1788	0.53
1000	1112	0.31	1231	0.34	1340	0.37	1444	0.41	1544	0.45	1640	0.50	***1733***	***0.55***		
1100	1119	0.40	1310	0.43	1413	0.47	1510	0.51	1604	0.55	1694	0.60	***1781***	***0.65***		
1200	1288	0.52	1391	0.55	1488	0.59	1580	0.63	1668	0.67	***1753***	***0.72***				
1300	1378	0.66	1475	0.69	1566	0.73	1653	0.77	***1737***	***0.81***						
1400	1469	0.81	1560	0.85	1647	0.89	***1729***	***0.93***			Max. Speed for Aluminum wheel is 1800 RPM					
1500	1560	0.99	1647	1.03	***1729***	***1.07***										
1600	1653	1.20	***1735***	***1.24***					For ratings in bold italics direct drive recommended							
1700	***1746***	***1.43***														

Approximate Shipping Weight lb*

Model	Arrange. 1 no motor	Arrange. 2 no motor	Arrange. 4	Arrange 4HM	Arrange. 8	Arrange. 9	Nominal Motor hp - weight
LMF-3				20			½ - 14
LM-4	59	37	33	29	92	90	⅓ - 20
LMF-4				29			⅓ - 20
LM-6	73	39	43	39	116	112	1 ½ - 28
LMF-6				39			1 ½ - 28
LM-8	82	54	59	51	127	117	1 - 30
LMF-8				51			1 - 30

* Arrangement 4, 4HM, 8 and 9 weights include nominal hp and corresponding motor weight indicated. Make corrections as necessary by deducting nominal weight and adding weight of actual motor to be used.

⚠ **CAUTION** All fans and blowers shown have rotating parts and pinch points. Severe personal injury can result if operated without guards. Stay away from rotating equipment unless it is disconnected from its power source.

DIRECT DRIVE RATINGS – 50 Cycle Motors

CFM and bhp at Static Pressure Shown – Ratings at 70°F – .075" Density – Sea Level

Model	Nominal Wheel Size	Fan RPM	¼" SP		½" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP		2" SP	
			CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp
LMF-3	4.7 x 2.4	2850	184	0.08	163	0.08	137	0.07	101	0.06								
LM-4 and LMF-4	4.3 x 2.9	2850	234	0.09	210	0.08	185	0.08										
	4.7 x 2.9	2850	303	0.19	280	0.18	257	0.16	233	0.16								
LM-6 and LMF-6 note 1	6.3 x 3.5	950	195	0.02														
	6.3 x 2.5	1425	345	0.08	279	0.07												
	6.3 x 3.5	1425	391	0.09	315	0.07												
	6.3 x 2.5	2850	740	0.72	726	0.71	710	0.69	691	0.67	668	0.65	640	0.62	604	0.58	559	0.53
	6.3 x 3.5	2850	877	0.83	846	0.80	814	0.77	781	0.73	746	0.70	710	0.67	672	0.63	630	0.60
LM-8 and LMF-8	8.3 x 1.5	950	250	0.05														
	8.3 x 3.0	950	401	0.07														
	8.3 x 4.1	950	807	0.17	584	0.10												
	8.3 x 1.5	1425	473	0.21	398	0.19	275	0.16										
	8.3 x 3.0	1425	709	0.27	623	0.25	536	0.23	413	0.19								
	8.3 x 4.1	1425	1352	0.73	1241	0.60	1117	0.49	969	0.38	746	0.28						

1. Aluminum wheels not available at 3450 RPM. See chart below.

WHEEL SPECIFICATIONS

Model	Nominal Wheel Size	Actual Wheel Diameter and Width	Standard Steel Wheel		Aluminum Wheel Option	
			Maximum RPM	Hub	Maximum RPM	Hub
LMF-3††	4.7 x 2.4*	4 11/16" x 2 7/16"*	4000	Internal	4000	Internal
LM-4 and LMF-4	4.3 x 2.1	4 1/4" x 2 15/16"	4000	Internal	3500†	Internal
	4.7 x 2.9*	4 11/16" x 2 7/8"*	4000	Internal	3500	Internal
LM-6 and LMF-6	6.3 x 2.5	6 5/16" x 2 1/2"	3500	External	1800†	External
	6.3 x 3.5*	6 1/4" x 3 1/2"*	3500	Internal	1800	Internal
LM-8 and LMF-8	8.3 x 1.5	8 1/4" x 1 1/2"	1800	External	1800†	External
	8.3 x 3.0	8 1/4" x 3"	1800	Internal	1800†	Internal
	8.3 x 4.1*	8 1/4" x 4 1/8"*	1800	Internal	1800	Internal

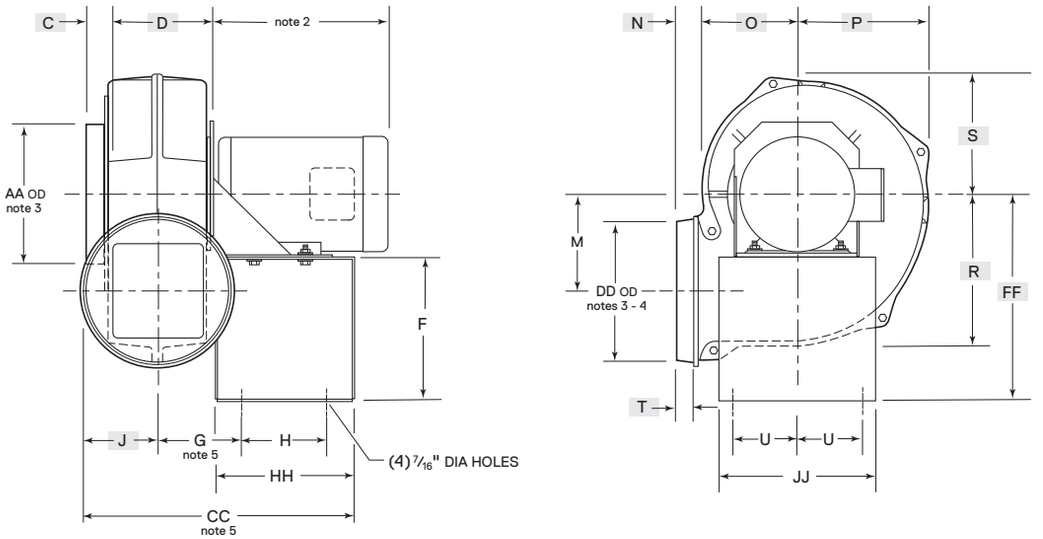
* These wheel sizes are the original wheel sizes for LM blowers prior to September 1998.
† Aluminum wheels in these sizes will extend delivery. Contact you local Cincinnati Fan sales representative for assistance.
†† Available in CW (clockwise) rotation only.

COMMON BLOWER HOUSING DIMENSIONS

Model	C	D	J	M	N	O	P	R	S	T	AA note 3	DD notes 3 - 4
LM-4	1"	3 7/8"	2 15/16"	2 13/16"	1 3/4"	3 5/8"	4 1/2"	5"	4 1/16"	1"	5"	4"
LM-6	1"	4 13/16"	3 3/8"	4 1/4"	1 3/4"	4 3/16"	6 1/4"	6 1/2"	5 9/16"	1"	6"	6"
LM-8	1"	6 1/16"	4"	5 9/16"	1 5/8"	5 1/4"	7 13/16"	8 11/16"	6 7/8"	1"	8"	8"

3. LM-4 only. Inlet and discharge flange not available due to interference.
4, All models. Discharge flange not available for downblast position.

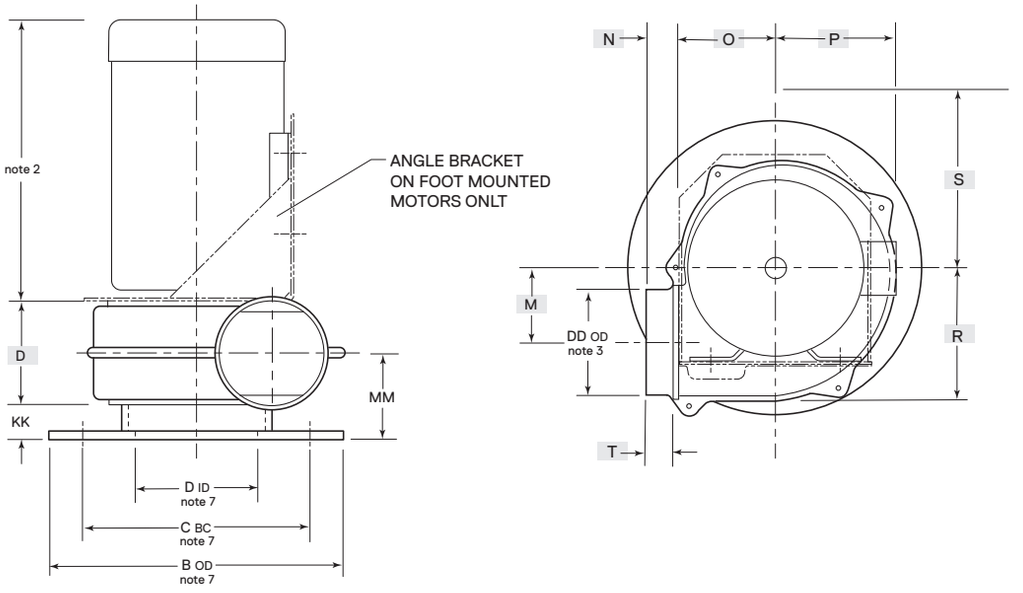
ARRANGEMENT 4 — DIRECT DRIVE



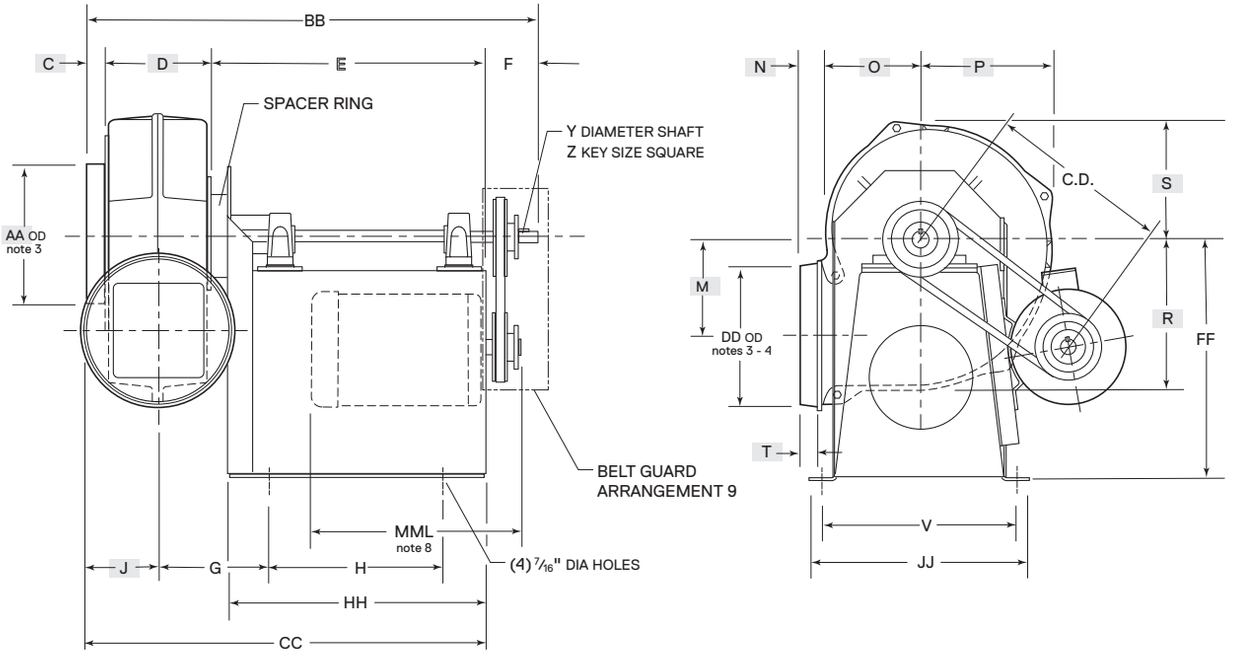
Model	Motor Frame	F	G	G note 5	H	U	CC	CC note 5	FF	HH	JJ	KK note 6	MM note 6
LM-4	56	5"	3 1/4"		5"	2 3/4"	12 1/4"		8 9/16"	7 1/8"	7"	1 5/16"	3 1/4"
LM-6	56	5"	3 3/4"	4 3/16"	5"	2 3/4"	13 3/16"	13 5/8"	8 9/16"	7 1/8"	7"	1 5/16"	3 11/16"
LM-8	56	8 1/4"	4 13/16"	5 7/8"	5"	3 3/4"	15 5/16"	16 3/8"	11 13/16"	8"	9"	1 5/16"	4 5/16"

1. For common boxed blower housing dimensions see page 7.
2. Dimension varies with motor.
3. LM-4 only—inlet and discharge flange not available due to interference. Inlet flange is optional on arrangement 4HM.
4. All models—discharge flange not available for down blast position.
5. LM-6 and LM-8 models down blast dimensions.
6. Arrangement 4HM dimensions.
7. For inlet flange dimensions B, C and D, see flange dimensions table on page 11.

ARRANGEMENT 4HM — DIRECT DRIVE



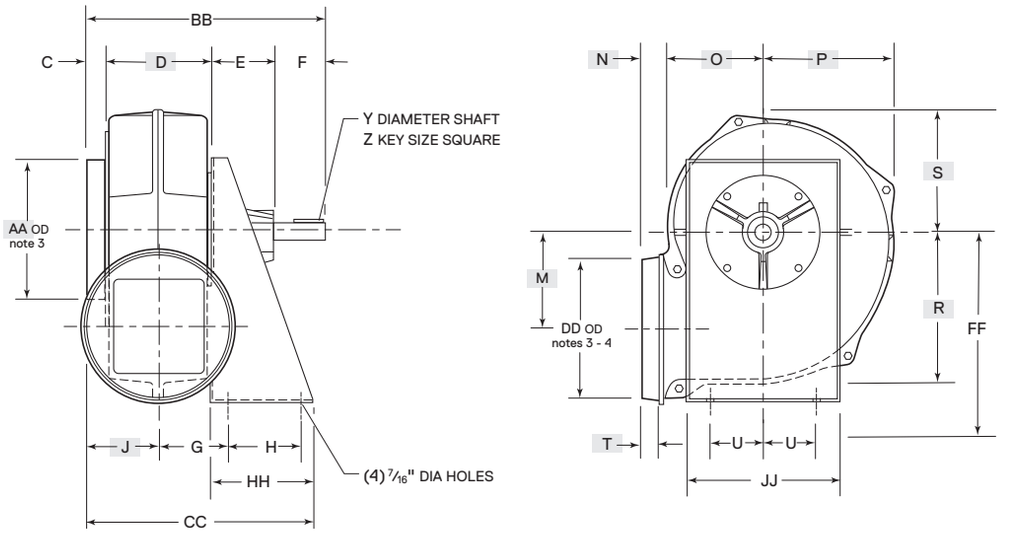
ARRANGEMENT 1 AND 9 — BELT DRIVE



Model	Motor Frame	E	F	G	H	V	Y	Z	BB	CC	FF	HH	JJ	MML note 8	C.D.	
															MIN	MAX
LM-4	56-145T	16 1/4"	3"	5 11/16"	10"	11 3/8"	3/4"	3/16"	24 1/8"	21 1/8"	14"	15"	12 7/8"	15"	10 1/4"	11 1/4"
LM-6	56-145T	16 1/4"	3"	6 3/16"	10"	11 3/8"	3/4"	3/16"	25 1/16"	22 1/16"	14"	15"	12 7/8"	15"	10 1/4"	11 1/4"
LM-8	56-145T	16 1/4"	3"	6 13/16"	10"	11 3/8"	3/4"	3/16"	26 5/16"	23 5/16"	14"	15"	12 7/8"	15"	10 1/4"	11 1/4"

1. For common boxed blower housing dimensions see page 7.
3. LM-4 only—inlet and discharge flange not available due to interference.
4. All models—discharge flange not available for down blast position.
8. MML is the maximum motor length on customers-supplied motor. Motor manufacturer C dimension cannot exceed MML dimension.

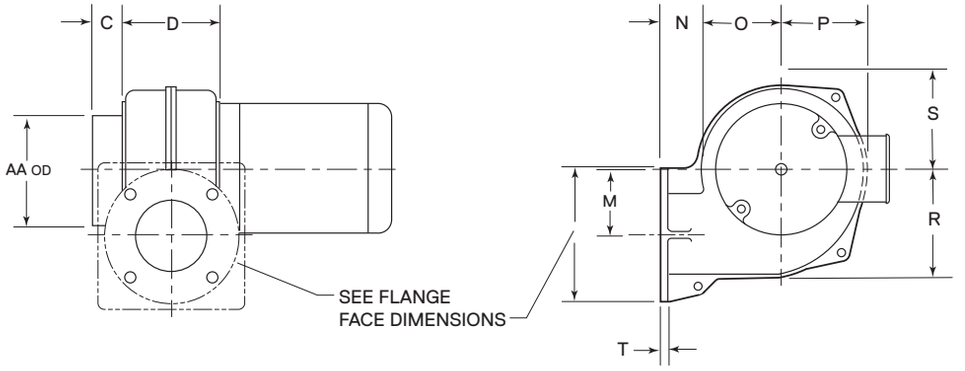
ARRANGEMENT 2 — BELT DRIVE



Model	E	F	G	H	U	Y	Z	BB	CC	FF	HH	JJ
LM-4	3 9/16"	3"	2 15/16"	3 1/4"	2 7/8"	5/8"	3/16"	11 7/16"	10"	7 13/16"	5 1/8"	7 3/4"
LM-6	3 5/8"	3"	3 7/16"	3 1/4"	2 7/8"	5/8"	3/16"	12 7/16"	10 15/16"	7 13/16"	5 1/8"	7 3/4"
LM-8	3 11/16"	3"	4 1/16"	4 1/4"	2 7/8"	5/8"	3/16"	14 3/4"	13 1/16"	9 7/8"	6"	7 3/4"

ARRANGEMENT 4 HM — DIRECT DRIVE

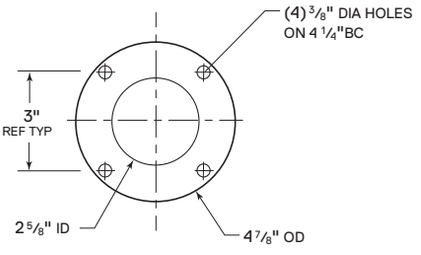
LMF models available in CW (clockwise) rotation only



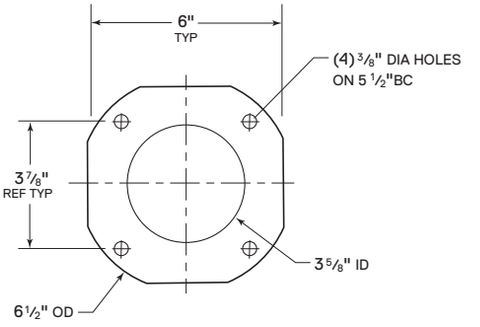
Model	Motor Frame	C	D	M	N	O	P	R	S	T	AA
LMF-3	42CZ	1"	3 5/8"	2 3/8"	1 1/2"	2 7/8"	3 1/8"	4"	3"	1/4"	4"
LMF-4	56C	1"	4"	2 13/16"	1 7/16"	3 7/16"	4 5/8"	5"	4 1/16"	3/8"	5"
LMF-6	56C	1"	4 13/16"	4 1/4"	1 3/4"	4 3/16"	6 1/4"	6 1/2"	5 9/16"	3/8"	6"
LMF-8	56C	1"	6 1/16"	5 9/16"	1 3/4"	5 1/4"	7 13/16"	7 13/16"	6 7/8"	3/8"	8"

LMF FLANGE FACE DIMENSION

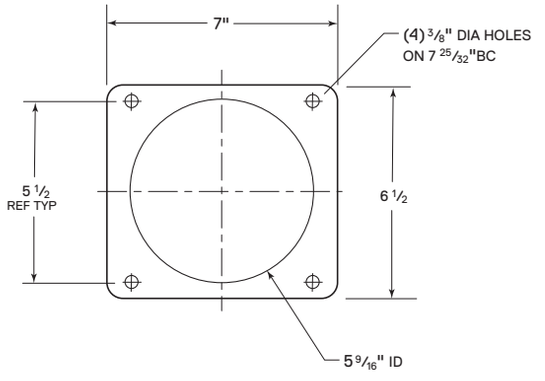
Bolt holes are cast into flanges, bolt circle cannot be changed



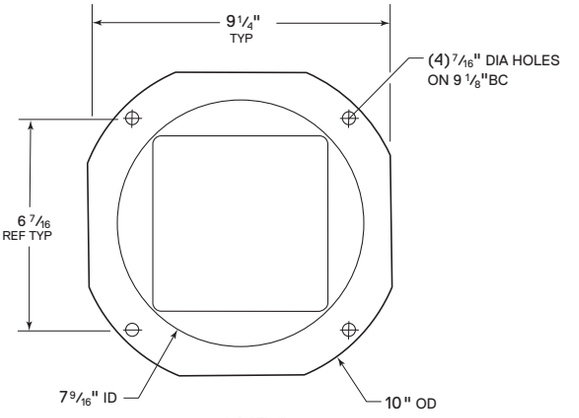
LMF-3



LMF-4

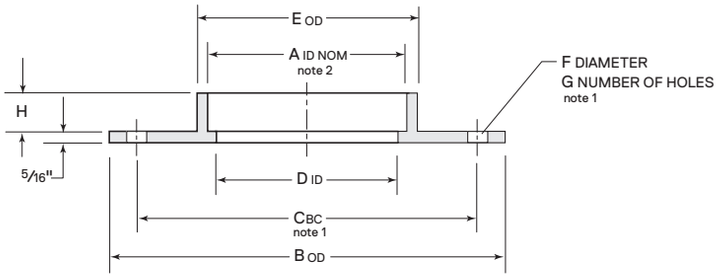


LMF-6



LMF-8

INLET AND DISCHARGE FLANGE



A note 2	B note 3	C note 3	D	E	F	G	H
4 1/16"	9"	7 1/2"	3 11/16"	4 9/16"	7/16"	4	15/16"
5 1/16"	11"	8 1/2"	4 9/16"	5 9/16"	7/16"	4	15/16"
6 1/16"	11"	9 1/2"	5 1/2"	6 9/16"	7/16"	4	1 1/16"
8 1/16"	13 1/2"	11 3/4"	7 1/2"	8 5/8"	7/16"	8	1"

1 Holes will not be drilled unless customer specifies. If drilled per our standard, holes will be drilled on centerlines unless specified otherwise on order. Dimensions C, F and G can be made to customer specifications at an additional charge.

2 Dimension A fits over inlet or outlet of blower AA or DD dimension.

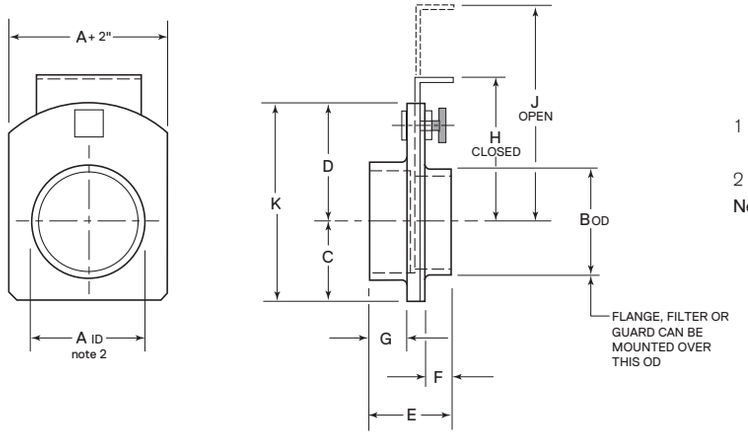
3 Meet ANSI-125 lb flange dimensions.

4 All dimensions are ±1/8" except C and F.

5 All flanges are 319 cast aluminum

Note: Discharge flanges not available on downblast or bottom angular down discharge positions.

INLET AND DISCHARGE SLIDE GATE



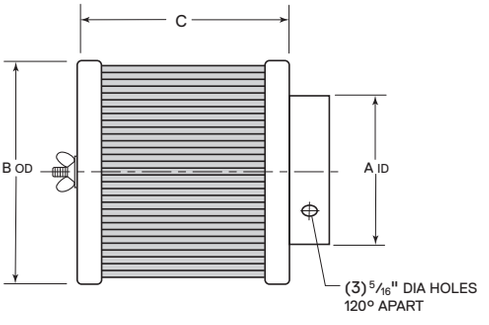
1 Gate halves are 319 cast aluminum. Slide gate is 12 gauge galvanized steel. Aluminum slide gate available at additional charge.

2 Dimension A fits over inlet or outlet of blower AA or DD dimension.

Note: Not available on downblast or bottom angular down discharge positions.

Model	A note 2	B	C	D	E	F	G	H	J	K
FG-4	4 1/16"	3 15/16"	3 1/4"	4 1/2"	2 11/16"	1"	1 1/16"	5 5/8"	9"	7 3/4"
FG-5	5 1/16"	4 15/16"	3 1/2"	5 1/2"	2 9/16"	1 1/8"	7/8"	6 1/8"	10 1/2"	9"
FG-6	6 1/16"	5 15/16"	4"	5 1/2"	2 11/16"	1 1/16"	1"	6 1/4"	11 1/2"	9 1/2"
FG-8	8 1/16"	7 15/16"	5"	6 3/4"	2 13/16"	1"	1 3/16"	7 3/4"	15"	11 3/4"

INLET FLANGE FILTER



Filter Model		Fan Models	Dimensions			Paper Media Efficiency*		
Wire Media	Paper Media		A nominal inlet	B	C	1 Micron	2 Micron	10 Micron
F55SW	F55SP	LMF-3	4"	5 1/2"	5 7/16"	90%	99%	99.99%
F884SW	F884SP	LMF-3	4"	8 1/8"	8 11/16"	90%	90%	99.99%
F885SW	F885SP	LM-4 LMF-4	5"	8 1/8"	8 11/16"	90%	99%	99.99%
F10106SW	F10106SP	LM-6 LMF-6	6"	9 13/16"	11 5/8"	90%	90%	99.99%
F10108SW	F10108SP	LM-8 LMF-8	8"	9 13/16"	11 5/8"	90%	99%	99.99%

* Efficiency for wire media not quoted. Wire media is for above micron level.

LM -LMF series

ENGINEERING DATA

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