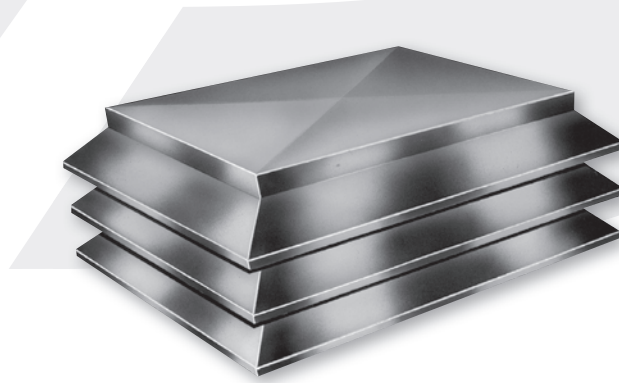




LF08



LINEA

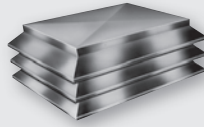
Model: LF
Low Linear Lateral
Discharge Roof Exhausters
Direct Drive and Belt Drive

MOVING YOUR WAY

› **Linea Direct Drive Series**

Model: LF (VC / SC / RC)

- Static pressure up to 1.5 in. wg.
- Flow capacity up to 2,123 CFM



› **Linea Belt Drive Series**

Model: LF (BC)

- Static pressure up to 1.5 in. wg.
- Flow capacity up to 17,920 CFM

Introduction, Features, and Benefits.....2

Options and Accessories and Motor Selection.....3

Direct Drive Dimensional & Performance Data4

Belt Drive Dimensional & Performance Data.....5

Engineering Specifications11

Limited WarrantyIBC

› **Linea Direct & Belt Drive Fans**

PennBarry 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 Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



› **UL and CSA Certification**

PennBarry Linea exhausters carry the UL label. Check Underwriter's Laboratories Re-examination Service for specific units listed. (File #E28413).



PennBarry Linea exhausters are also certified by the Canadian Standard Association.



PennBarry reserves the right to make changes at any time, without notice, to models, construction, specifications, options, availability, etc. This bulletin illustrates the appearance of PennBarry products at the time of publication. To view the latest updates, visit PennBarry at www.pennbarry.com.

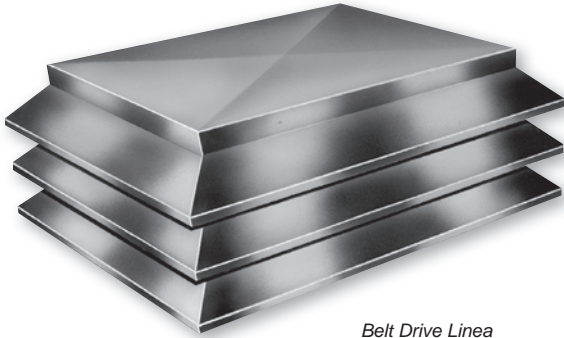
Introduction

Linea Low Discharge Roof Exhausters

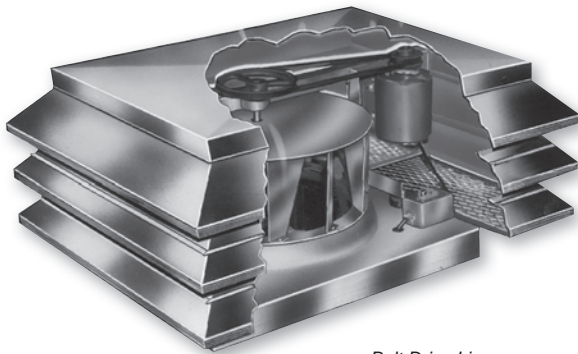


Introduction, Features, & Benefits

Low Linear Roof Exhausters



Belt Drive Linea



*Belt Drive Linea
Cutaway*

› Linea Roof Exhausters

The PennBarry Linea is a high quality, low silhouette, centrifugal roof exhauster. This completely self contained powered ventilating unit is ready for easy installation on a variety of factory built and field built curbs. The most significant factor that sets the PennBarry Linea apart from conventional roof ventilators is its low-line extruded aluminum housing. Crisp, clean lengths of full width blades are mitered at the corners and welded on the underside to present a clear, unbroken sweep. In addition to its clean appearance, the louver blade is designed to reduce friction and the turbulence of exhausting air. The shape of the extrusion is based on aerodynamic as well as structural and weatherproof principles. Each Linea is proportioned for low discharge velocity.

Blade design and spacing have been coordinated through the large selection of unit sizes to afford maximum discharge area on all four sides as well as maximum weather protection.

Centrifugal roof exhausters are most sensitive at the point of air entry. Many manufacturers use fan wheels originally developed for utility sets and other purposes. However, there is no substitute for correct components used in their proper application. PennBarry's centrifugal wheels are specifically designed for roof exhauster use. They feature an extended inlet opening and are statically and dynamically balanced to promote quieter operation. The Linea drive assembly is suspended on rubber mountings which sound condition the Linea against vibration. All wheels are backward inclined and non-overloading. They are constructed of durable and spark resistant aluminum. This feature promotes longer bearing life and reduces motor starting torque.

› Linea Direct Drive Series

Model: LF (VC / SC / RC)

- Static pressure up to 1.5 in. wg.
- Flow capacity up to 2,123 CFM

› Linea Belt Drive Series

Model: LF (BC)

- Static pressure up to 1.5 in. wg.
- Flow capacity up to 17,920 CFM

L
i
n
e
a

©PENNBARRY 2008

› Backdraft Dampers

Backdraft dampers are available for either gravity or motorized operation (motor kit optional). Dampers feature square galvanized steel frame, multi-leaf, roll formed aluminum blades with nylon bearings.

› Hinged Sub-Base

Hinged sub-bases provide access to the curb well for damper service. Constructed with a rust proof hinge arrangement and low height (3 1/2") the assembly is easily manipulated and reduces the impact on overall installation height. This accessory is available for use with most all models for either factory built or existing roof curbs.

› Prefabricated Curbs

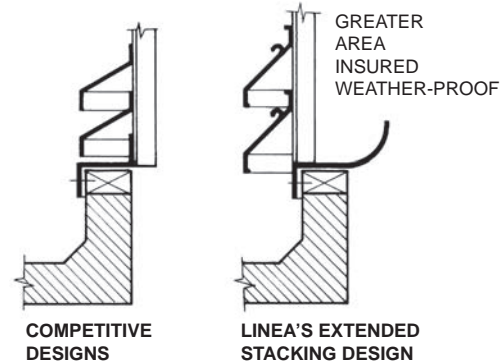
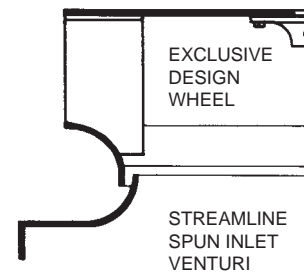
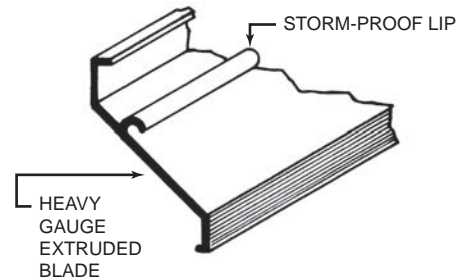
A variety of sizes of prefabricated roof curbs are available. Galvanized steel unibeam curbs are the most popular. For a complete listing of all curb types and sizes available, please consult the latest PennBarry Curb brochure.

› Aluminum Bird and Insect Screen

Bird screens are available for all direct and belt drive models. An aluminum insect screen with a smaller mesh than the standard bird screen is also available.

› Safety Disconnect Switch

Safety disconnect switches are available to allow positive electrical shut-off and safety. Switches are factory mounted when factory wiring is requested. Wiring is only run from the motor to the junction box. (Factory wiring of explosion proof applications is not available.) A wide range of Nema rated enclosures with disconnect switches are available for indoor, outdoor, and explosion proof installations. Disconnects are to be field wired by a licensed electrician.



› Speed Controllers

PennBarry offers Lek-Trol™ solid state controllers to alter the high speed of most direct drive motors by as much as 50%. If variable speed is required, check the Lek-Trol™ availability table to the right to verify that controllers exist for the fan model selected. Remember, Lek-Trol™ controllers are currently only available for direct drive motors including all standard Open Drip Proof (ODP) 60 Hz motors. Not all totally enclosed motors are currently available with variable speed control. Inverter rated motors suitable for use with variable frequency drives can be supplied for belt drive models. Contact your local PennBarry representative for availability.

› Available Lek-Trol™ Speed Controls

Model	60 Hz					50 Hz		
	ODP	Totally Enclosed				Totally Enclosed		
	115V	115V	200V	208V	230V	110V	220V	240V
LF06VC	-	-	-	-	-	-	-	-
LF06SC	-	-	-	-	-	-	-	-
LF06RC	LT30	LT20	-	-	-	-	-	-
LF12VC	-	-	-	-	-	-	-	-
LF12SC	-	-	-	-	-	-	-	-
LF12RC	LT50	LT50	-	-	-	-	-	-

Lek-Trols™ indicated for multi-speed models (eg., LF12V/S/RC) are applicable only for the high speed. Do not use on low or medium speed for multi-speed models. Items noted with (-) are not applicable.

Dimensional Information & Performance Data

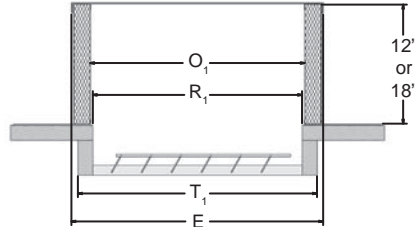
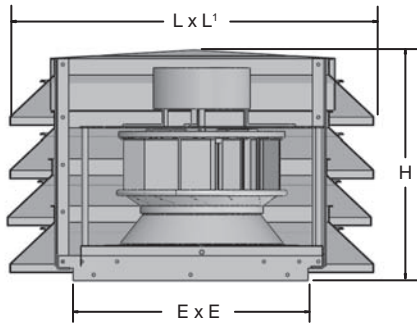
Linea Low Discharge Roof Exhausters | Direct Drive



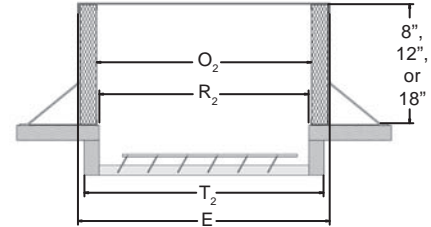
LF06 & LF12

Low Linear Roof Exhausters

Linea Direct Drive Dimensional Data



Self Flashing Curb



Fabricated Unibeam Curb

Linea Direct Drive Dimensional References

Model	Unit Dimensions				Self Flashing Curb			Fabricated Unibeam Curb			Est. Ship Wt.
	L	L'	H	E	R1	O1	T1	R2	O2	T2	
LF06VC, LF06SC, LF06RC	27	29	15	18 ½	9	15	18	9	14	17	80
LF12VC, LF12SC, LF12RC	29	31	20	20 ½	11 ½	17	20	11 ½	16	19	95

Dimensions in inches. Weight in pounds.

Linea Direct Drive Performance Data

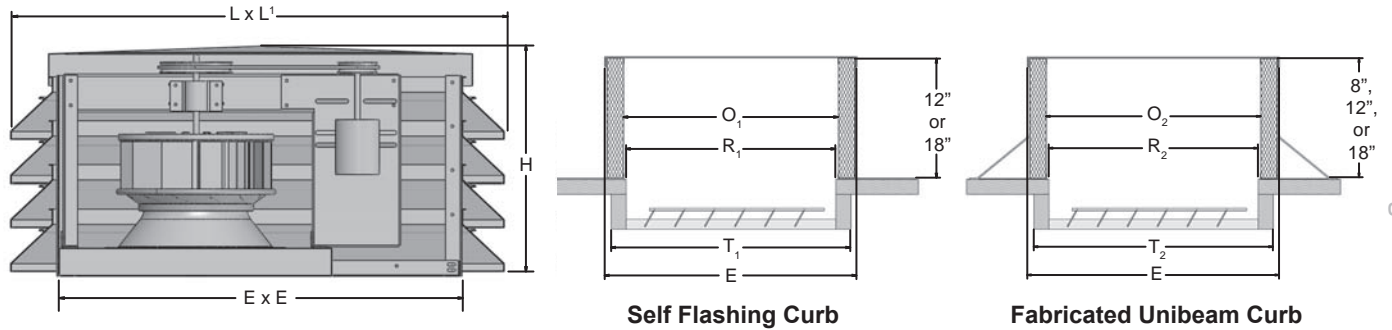
Model	HP	Max Watts	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP	
					CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
LF06VC	1/25	131	1050	3058	351	2.3	182	2.5	83	3.5	38	4	-	-	-	-	-	-	-	-	-	-	-	-
LF06SC	1/11	176	1300	3786	505	3.3	377	4	270	5	199	5.6	139	6	98	6.4	63	6.7	-	-	-	-	-	-
LF06RC	1/7	240	1550	4514	728	7.4	620	7.7	517	8.1	426	8.8	338	9.1	239	8.9	143	8.8	48	8.7	-	-	-	-
LF12VC	1/6	472	1050	3788	1214	7.5	985	7.1	722	5.9	580	5.9	513	6.6	435	7.5	354	8.3	-	-	-	-	-	-
LF12SC	1/3	526	1300	4690	1830	10	1638	8.7	1426	7.6	1216	7.8	1032	8.2	895	8.7	765	9.3	573	9.9	380	10	122	10.5
LF12RC	1/2	596	1550	5592	2123	12.3	1952	10.9	1813	9.8	1650	9.6	1454	9.9	1289	10.3	1135	10.7	870	11.8	609	12	306	11.8

Performance shown is for installation type A: Free Inlet, Free Outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical fan sone levels. Performance ratings include the effects of screen in the airstream. For models shown on this page, the AMCA Certified Ratings Seal applies to air and sound. Watt ratings shown are for models tested at 115/1/60.

Linea

©PENNBARRY 2008

Linea Belt Drive Dimensional Data



Linea Belt Drive Dimensional References

Model	Unit Dimensions				Self Flashing Curb			Fabricated Unibeam Curb			Est. Ship Wt.
	L	L'	H	E	R ₁	O ₁	T ₁	R ₂	O ₂	T ₂	
LF12BC	33	45	19	24 1/2	16 1/4	21	24	16 1/4	20	23	220
LF20BC	37	49	23	28 1/2	20	25	28	20	24	27	285
LF24BC	42	60 1/2	23	33 1/2	25	30	33	25	29	32	430
LF30BC	45	63	27 1/2	36	28	32 1/2	35 1/2	28	31 1/2	34 1/2	535
LF40BC	53	79	31 1/2	44 1/2	36	41	44	36	40	43	735

Dimensions in inches. Weight in pounds.

Belt Drive Losses

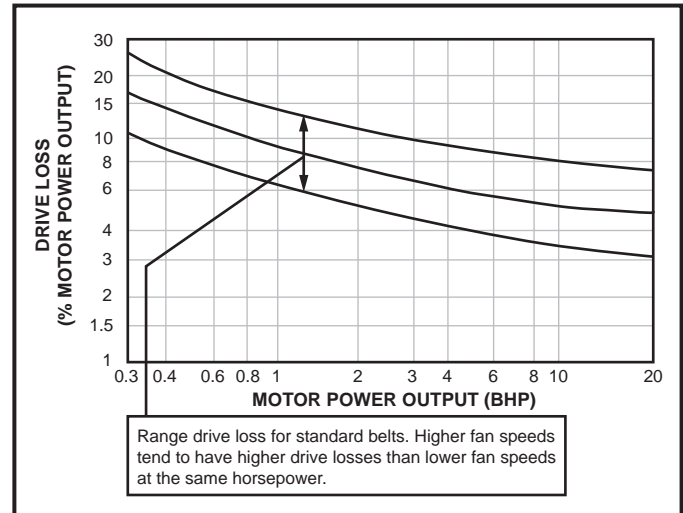
The AMCA Review Committee has developed the chart shown below for the purpose of estimating belt drive losses. To calculate total BHP (including drive losses): Find the BHP of your operating point on the x-axis on the graph below. Follow the vertical line to the curves indicating the range of drive losses. Look at the y-axis on the left and find the drive loss percentage. Calculate the total BHP by adding the drive loss to the operating point BHP. For BHP's below 0.3, use 30%.

Belt Drive Fan Data

Linea belt drive centrifugal exhausters are available in many housing sizes. Engineers have hundreds of speed and performance ratings from which to select the correct units for their applications. The fan speeds listed are but a few of those available. Additional speed and performance values can be obtained through the use of different belt and pulley combinations.

Line drawings on this page illustrate the Linea on four different roof curb styles. Dimensions for each are listed in the dimensional table below. Full information for the various curbs available is contained in PennBarry's Curb Bulletin.

Drive Loss Reference Chart



! For totally enclosed, explosion proof, multi-speed and all 1.0 Service Factor motors, fan BHP plus drive losses should not exceed motor rated HP.

Graph reprinted from AMCA publication 203, with the express written permission from the Air Movement and Control Association, Inc., 30 West University Drive, Arlington Heights, IL 60004-1983.

Dimensional Information & Performance Data

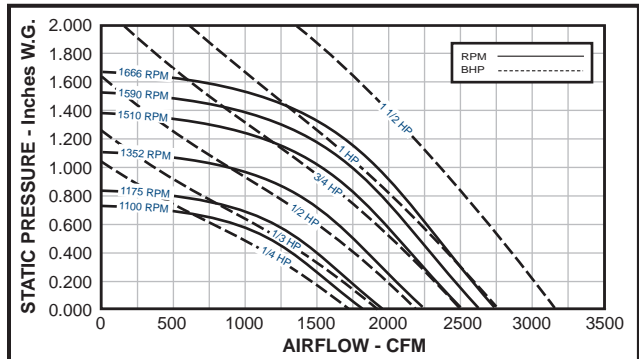
Linea Low Discharge Roof Exhausters | Belt Drive



LF12BC

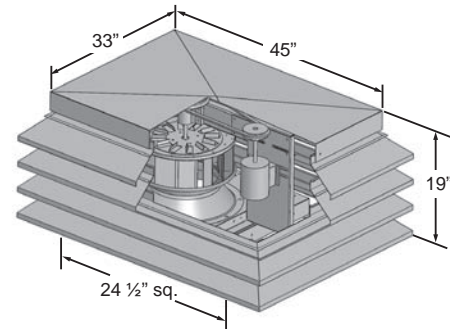
Low Linear Roof Exhausters

LF12BC Belt Drive Fan Curves



LF12BC Belt Drive Fan Dimensional Data

Roof Opening = 16" sq.
Damper Size = 15 3/4" sq.
Peak BHP = (RPM/1626) ³
Maximum RPM = 1885
Max. Motor Frame Size = 143T
Est. Shipping Weight = 220 lbs.



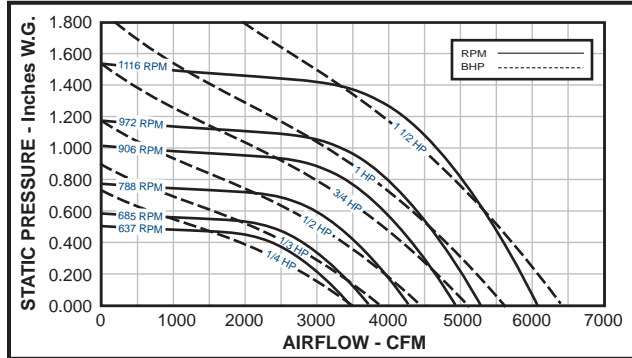
LF12BC Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.125" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	715	2580	1178		947		620		-		-		-		-		-		-	-		-
			5.9	0.08	5.1	0.08	4.6	0.08	-		-		-		-		-		-	-		-
	779	2811	1284		1071		818		-		-		-		-		-		-	-		-
			7.2	0.10	6.4	0.11	5.9	0.11	-		-		-		-		-		-	-		-
	841	3034	1386		1188		968		608		-		-		-		-		-	-		-
			8.1	0.13	7.4	0.14	7.0	0.14	6.8	0.13	-		-		-		-		-	-		-
	1000	3608	1648		1483		1316		1115		835		-		-		-		-	-		-
			9.7	0.21	9.0	0.22	8.6	0.23	8.3	0.23	8.2	0.22	-		-		-		-	-		-
	1078	3889	1777		1625		1470		1296		1086		740		-		-		-	-		-
10.4			0.27	9.8	0.28	9.1	0.29	8.7	0.29	8.6	0.29	8.6	0.26	-		-		-	-		-	
1092	3940	1800		1650		1497		1327		1129		822		-		-		-	-		-	
		10.5	0.28	9.9	0.29	9.3	0.30	8.9	0.30	8.7	0.30	8.7	0.28	-		-		-	-		-	
1100	3969	1813		1665		1512		1344		1152		865		-		-		-	-		-	
		10.6	0.28	10.0	0.30	9.4	0.30	8.9	0.31	8.8	0.30	8.8	0.29	-		-		-	-		-	
1/3	1120	4041	1846		1700		1550		1388		1206		941		-		-		-	-		-
			10.8	0.30	10.2	0.31	9.7	0.32	9.2	0.33	8.9	0.32	9.0	0.31	-		-		-	-		-
	1140	4113	1879		1736		1588		1431		1253		1014		416		-		-	-		-
			11.0	0.32	10.4	0.33	10.0	0.34	9.5	0.34	9.0	0.34	9.1	0.33	9.0	0.24	-		-	-		-
1175	4239	1937		1799		1654		1506		1336		1123		758		-		-	-		-	
		11.5	0.35	10.9	0.36	10.4	0.37	10.0	0.37	9.5	0.37	9.4	0.37	9.3	0.33	-		-	-		-	
1/2	1200	4329	1978		1843		1701		1559		1394		1199		923		-		-	-		-
			11.8	0.37	11.3	0.38	10.7	0.39	10.3	0.40	9.9	0.40	9.5	0.39	9.6	0.37	-		-	-		-
	1250	4510	2061		1932		1794		1664		1508		1343		1114		632		-	-		-
			12.5	0.42	12.1	0.43	11.6	0.44	11.2	0.45	10.7	0.45	10.2	0.45	10.2	0.44	10.1	0.36	-		-	
	1295	4672	2135		2011		1877		1751		1607		1450		1254		990		-	-		-
			13.0	0.46	12.6	0.48	12.2	0.49	11.8	0.50	11.3	0.50	10.8	0.50	10.6	0.49	10.8	0.47	-		-	
1320	4762	2176		2054		1924		1800		1661		1508		1330		1094		516		-	-	
		13.1	0.49	12.8	0.51	12.4	0.52	12.0	0.52	11.6	0.53	11.1	0.53	10.8	0.52	11.0	0.51	10.9	0.38	-		-
1352	4878	2229		2110		1983		1861		1729		1582		1426		1209		829		-	-	
		13.4	0.53	13.0	0.54	12.6	0.56	12.3	0.56	11.9	0.57	11.5	0.57	11.0	0.57	11.3	0.55	11.2	0.49	-		-
3/4	1390	5015	2291		2176		2053		1933		1810		1669		1520		1327		1089		-	-
			13.7	0.57	13.4	0.59	13.0	0.60	12.7	0.61	12.3	0.62	11.9	0.62	11.5	0.62	11.6	0.61	11.7	0.58	-	
	1420	5123	2341		2228		2108		1990		1873		1736		1591		1419		1203		-	-
			13.9	0.61	13.6	0.63	13.3	0.64	13.0	0.65	12.6	0.66	12.2	0.66	11.9	0.66	11.9	0.65	12.0	0.63	-	
1470	5304	2423		2314		2199		2084		1973		1844		1708		1567		1370		521		
		14.5	0.68	14.2	0.69	13.9	0.71	13.5	0.72	13.2	0.73	12.8	0.73	12.5	0.74	12.3	0.73	12.6	0.71	12.3	0.51	-
1510	5448	2489		2383		2272		2158		2051		1930		1800		1663		1493		911		
		15.0	0.73	14.7	0.75	14.3	0.77	14.0	0.78	13.7	0.79	13.3	0.79	13.0	0.80	12.8	0.79	12.9	0.78	12.8	0.67	-
1	1554	5607	2562		2459		2351		2240		2135		2023		1898		1766		1625		1217	
			15.6	0.80	15.2	0.82	14.9	0.84	14.6	0.85	14.3	0.86	13.9	0.86	13.6	0.87	13.3	0.87	13.2	0.86	13.5	0.81
	1575	5682	2597		2495		2389		2279		2175		2067		1944		1815		1684		1297	
			15.9	0.83	15.5	0.85	15.2	0.87	14.8	0.88	14.5	0.89	14.2	0.90	13.8	0.91	13.6	0.90	13.4	0.90	13.8	0.86
1590	5736	2621		2520		2416		2307		2204		2099		1976		1850		1720		1354		
		16.0	0.86	15.6	0.88	15.3	0.89	15.0	0.91	14.7	0.91	14.3	0.92	14.0	0.93	13.7	0.93	13.5	0.92	14.0	0.89	-
1 1/2	1610	5809	2654		2555		2452		2344		2242		2141		2020		1896		1767		1427	
			16.1	0.89	15.8	0.91	15.5	0.93	15.1	0.94	14.8	0.95	14.5	0.96	14.2	0.96	13.9	0.97	13.7	0.96	14.2	0.93
	1620	5845	2671		2572		2470		2363		2261		2160		2041		1919		1791		1458	
			16.1	0.91	15.8	0.93	15.5	0.94	15.2	0.96	14.9	0.97	14.6	0.97	14.2	0.98	14.0	0.99	13.8	0.98	14.3	0.95
	1640	5917	2704		2606		2505		2400		2298		2199		2084		1964		1838		1521	
			16.2	0.94	16.0	0.96	15.7	0.98	15.4	0.99	15.1	1.00	14.8	1.01	14.4	1.02	14.1	1.02	14.0	1.02	14.4	0.99
1666	6011	2747		2650		2552		2448		2347		2250		2140		2023		1899		1601		
		16.4	0.98	16.1	1.01	15.8	1.02	15.6	1.04	15.3	1.05	15.0	1.06	14.6	1.06	14.4	1.07	14.2	1.07	14.5	1.04	-

Performance shown is for installation type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

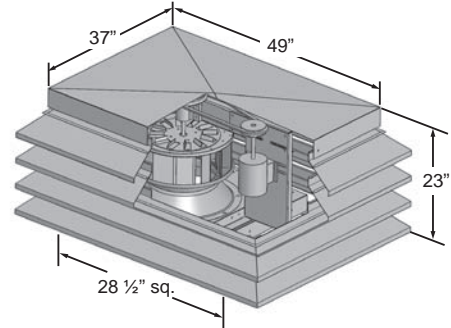
©PENN BARRY 2018

LF20BC Belt Drive Fan Curves



LF20BC Belt Drive Fan Dimensional Data

Roof Opening = 20" sq.
Damper Size = 19 3/4" sq.
Peak BHP = $(RPM/949)^3$
Maximum RPM = 1340
Max. Motor Frame Size = 145T
Est. Shipping Weight = 285 lbs.



LF20BC Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	410	2174	1850	-	1370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			3.4	0.06	3.5	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	435	2306	1965	-	1525	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			4.0	0.07	4.0	0.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	495	2624	2235	-	1860	-	1360	-	-	-	-	-	-	-	-	-	-	-	-	-
			5.3	0.10	5.4	0.11	5.5	0.12	-	-	-	-	-	-	-	-	-	-	-	-
	530	2810	2390	-	2045	-	1620	-	-	-	-	-	-	-	-	-	-	-	-	-
			6.1	0.12	6.1	0.14	6.3	0.14	-	-	-	-	-	-	-	-	-	-	-	-
586	3107	2645	-	2330	-	1975	-	-	-	-	-	-	-	-	-	-	-	-	-	
		7.3	0.17	7.4	0.18	7.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-	
600	3181	2705	-	2405	-	2060	-	1615	-	-	-	-	-	-	-	-	-	-	-	
		7.6	0.18	7.7	0.19	7.8	0.21	7.9	0.21	-	-	-	-	-	-	-	-	-	-	
637	3377	2875	-	2590	-	2285	-	1890	-	-	-	-	-	-	-	-	-	-	-	
		8.4	0.21	8.5	0.23	8.6	0.24	8.8	0.25	-	-	-	-	-	-	-	-	-	-	
1/3	659	3494	2974	-	2695	-	2405	-	2050	-	-	-	-	-	-	-	-	-	-	
			8.7	0.24	8.8	0.25	8.9	0.27	9.0	0.28	-	-	-	-	-	-	-	-	-	
	670	3552	3024	-	2750	-	2465	-	2125	-	-	-	-	-	-	-	-	-	-	
			8.9	0.25	8.9	0.27	9.0	0.28	9.1	0.29	-	-	-	-	-	-	-	-	-	
685	3631	3090	-	2825	-	2550	-	2220	-	-	-	-	-	-	-	-	-	-	-	
		9.1	0.26	9.1	0.28	9.2	0.30	9.3	0.31	-	-	-	-	-	-	-	-	-	-	
1/2	700	3711	3159	-	2900	-	2625	-	2310	-	1920	-	-	-	-	-	-	-	-	
			9.3	0.28	9.3	0.30	9.4	0.32	9.4	0.33	9.5	0.33	-	-	-	-	-	-	-	
	725	3844	3270	-	3020	-	2760	-	2465	-	2105	-	-	-	-	-	-	-	-	
			9.7	0.31	9.7	0.33	9.8	0.35	9.8	0.36	9.8	0.37	-	-	-	-	-	-	-	
	750	3976	3385	-	3140	-	2890	-	2615	-	2290	-	-	-	-	-	-	-	-	
			10.1	0.35	10.2	0.37	10.2	0.39	10.2	0.40	10.2	0.41	-	-	-	-	-	-	-	
762	4040	3435	-	3200	-	2955	-	2690	-	2375	-	-	-	-	-	-	-	-		
		10.3	0.36	10.4	0.38	10.4	0.40	10.4	0.42	10.4	0.43	-	-	-	-	-	-	-		
788	4178	3555	-	3325	-	3090	-	2840	-	2540	-	2185	-	-	-	-	-	-		
		10.8	0.40	10.8	0.42	10.9	0.44	10.8	0.46	10.7	0.47	10.7	0.47	-	-	-	-	-		
3/4	820	4347	3700	-	3475	-	3250	-	3015	-	2740	-	2425	-	-	-	-	-	-	
			11.3	0.45	11.3	0.48	11.3	0.50	11.2	0.52	11.1	0.53	11.1	0.53	-	-	-	-	-	
	850	4506	3835	-	3620	-	3405	-	3180	-	2925	-	2640	-	-	-	-	-	-	
			11.7	0.50	11.7	0.53	11.8	0.55	11.7	0.57	11.6	0.58	11.5	0.59	-	-	-	-	-	
875	4639	3945	-	3740	-	3530	-	3310	-	3075	-	2805	-	-	-	-	-	-		
		12.0	0.55	12.1	0.57	12.2	0.60	12.1	0.62	12.0	0.64	11.8	0.64	-	-	-	-	-		
906	4803	4085	-	3885	-	3685	-	3475	-	3260	-	3000	-	2710	-	-	-	-		
		12.6	0.61	12.6	0.64	12.8	0.66	12.7	0.68	12.5	0.70	12.4	0.71	12.3	0.72	-	-	-		
1	930	4930	4195	-	4000	-	3805	-	3600	-	3390	-	3145	-	2885	-	-	-		
			13.1	0.66	13.1	0.69	13.2	0.71	13.1	0.73	13.0	0.76	12.8	0.77	12.7	0.78	-	-		
	950	5036	4285	-	4095	-	3900	-	3705	-	3500	-	3270	-	3015	-	-	-		
		13.5	0.70	13.4	0.73	13.6	0.76	13.6	0.78	13.4	0.80	13.3	0.82	13.1	0.83	-	-	-		
972	5153	4385	-	4195	-	4010	-	3815	-	3620	-	3400	-	3155	-	2880	-	-		
		14.0	0.75	13.9	0.78	14.1	0.81	14.1	0.83	13.9	0.86	13.8	0.87	13.6	0.88	13.5	0.88	-		
1 1/2	1000	5301	4510	-	4330	-	4145	-	3960	-	3770	-	3565	-	3330	-	3080	-		
			14.8	0.82	14.6	0.85	14.8	0.88	14.8	0.90	14.6	0.93	14.5	0.95	14.3	0.96	14.1	0.96		
	1040	5513	4690	-	4515	-	4340	-	4165	-	3980	-	3795	-	3575	-	3350	-		
			15.3	0.92	15.3	0.95	15.6	0.98	15.8	1.01	15.6	1.03	15.5	1.06	15.2	1.07	15.0	1.08		
	1070	5673	4825	-	4655	-	4485	-	4315	-	4135	-	3955	-	3755	-	3535	-		
		15.8	1.01	16.0	1.04	16.3	1.07	16.6	1.10	16.5	1.12	16.3	1.14	16.0	1.16	15.8	1.17			
1116	5916	5034	-	4870	-	4705	-	4545	-	4375	-	4200	-	4030	-	3815	-			
		17.0	1.14	17.1	1.17	17.5	1.20	17.8	1.23	18.1	1.26	17.8	1.29	17.5	1.31	17.2	1.32			

Performance shown is for installation type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. The sound ratings shown are for loudness values in fan sones at 50' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

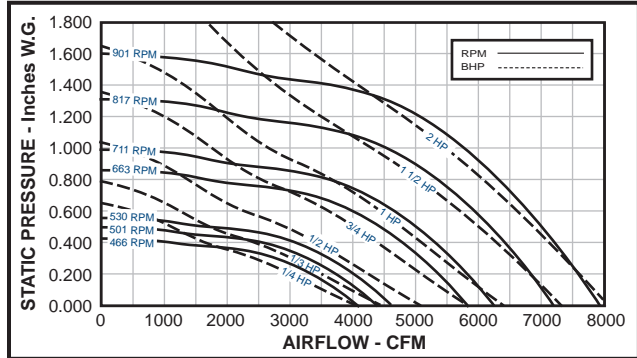
Dimensional Information & Performance Data

Linea Low Linear Roof Exhausters | Belt Drive



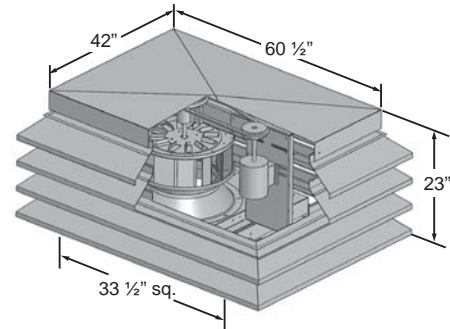
LF24BC

LF24BC Belt Drive Fan Curves



LF24BC Belt Drive Fan Dimensional Data

Roof Opening = 25" sq.
Damper Size = 24 3/4" sq.
Peak BHP = (RPM/695) ³
Maximum RPM = 1037
Max. Motor Frame Size = 182T
Est. Shipping Weight = 430 lbs.

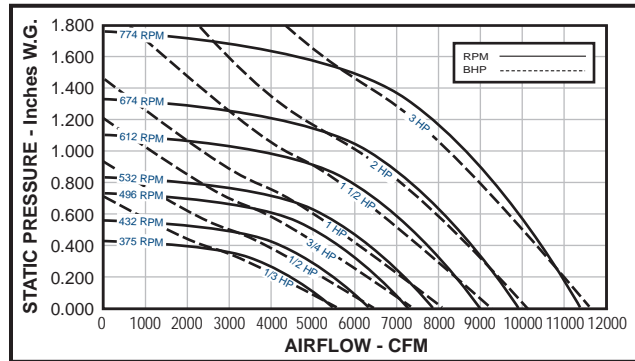


LF24BC Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.125" SP																			
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP																
1/4	290	1879	2552		1627		-		-		-		-		-		-		-		-		-																	
			4.0	0.06	2.2	0.07																																		
	315	2041	2772		2007		-		-		-		-		-		-		-		-		-		-															
			4.7	0.08	3.3	0.09																																		
	340	2203	2992		2328		-		-		-		-		-		-		-		-		-		-															
			5.2	0.10	4.1	0.12																																		
	360	2333	3168		2554		588		-		-		-		-		-		-		-		-		-															
			5.9	0.12	4.8	0.14	3.5	0.08																																
380	2462	3344		2774		1491		-		-		-		-		-		-		-		-		-																
		6.7	0.14	5.6	0.16	3.8	0.13																																	
430	2786	3785		3306		2614		-		-		-		-		-		-		-		-		-																
		8.8	0.21	7.8	0.23	6.0	0.23																																	
466	3019	4102		3678		3104		1857		-		-		-		-		-		-		-		-																
		11.0	0.26	10.0	0.29	8.4	0.30	6.1	0.25																															
1/3	490	3175	4313		3914		3399		2572		-		-		-		-		-		-		-																	
			11.8	0.31	10.8	0.34	9.5	0.35	6.8	0.33																														
	501	3246	4410		4020		3522		2792		-		-		-		-		-		-		-		-															
12.2			0.33	11.2	0.36	9.8	0.37	7.5	0.36																															
1/2	530	3434	4665		4300		3842		3253		1727		-		-		-		-		-		-																	
			12.7	0.39	11.7	0.42	10.3	0.44	8.6	0.44	7.5	0.33																												
3/4	550	3564	4841		4491		4059		3534		2649		-		-		-		-		-		-																	
			13.3	0.43	12.4	0.47	11.0	0.49	9.3	0.49	7.9	0.46																												
	577	3739	5079		4747		4348		3882		3194		1242		-		-		-		-		-																	
			14.5	0.50	13.6	0.53	12.3	0.56	10.5	0.57	9.0	0.55	8.5	0.35																										
	610	3953	5369		5059		4695		4274		3726		2794		-		-		-		-		-																	
			15.6	0.59	14.7	0.63	13.5	0.66	11.8	0.67	10.2	0.67	9.3	0.61																										
	625	4050	5501		5200		4851		4441		3949		3168		1078		-		-		-		-																	
			16.1	0.63	15.2	0.67	14.0	0.71	12.2	0.72	10.6	0.72	9.6	0.68	9.4	0.40																								
640	4147	5633		5340		5006		4606		4145		3470		1673		-		-		-		-																		
		16.4	0.68	15.5	0.72	14.3	0.76	12.6	0.78	10.9	0.78	10.2	0.75	9.7	0.52																									
663	4296	5836		5555		5243		4857		4441		3870		2830		-		-		-		-																		
		17.0	0.76	16.0	0.79	15.0	0.84	13.3	0.86	11.6	0.87	10.9	0.85	10.4	0.75																									
1	680	4406	5985		5713		5409		5040		4657		4135		3375		1361		-		-		-																	
			17.5	0.82	16.5	0.85	15.5	0.90	13.9	0.93	12.3	0.94	11.4	0.92	10.9	0.88	10.5	0.55																						
	700	4536	6161		5896		5603		5254		4886		4431		3779		2226		-		-		-																	
			18.2	0.89	17.3	0.93	16.3	0.98	14.7	1.01	13.1	1.02	11.9	1.01	11.6	0.98	11.2	0.75																						
711	4607	6258		5997		5710		5371		5009		4575		3997		2795		-		-		-																		
		18.6	0.93	17.7	0.97	16.7	1.02	15.1	1.05	13.5	1.07	12.2	1.06	11.9	1.04	11.7	0.88																							
1 1/2	745	4827	6557		6309		6037		5728		5384		5013		4531		3859		2206		-		-																	
			20.0	1.07	19.3	1.12	18.4	1.16	16.7	1.21	15.0	1.23	13.5	1.23	13.0	1.21	12.9	1.17	12.6	0.87																				
	780	5054	6866		6628		6372		6092		5764		5434		5027		4508		3791		-		-																	
			21.0	1.23	21.0	1.28	19.6	1.33	18.4	1.37	16.6	1.40	15.2	1.41	14.0	1.40	13.8	1.38	13.7	1.31																				
	800	5184	7042		6810		6562		6298		5979		5657		5285		4822		4198		-		-																	
22.0			1.33	21.0	1.37	20.0	1.43	19.3	1.48	17.5	1.51	16.0	1.52	14.6	1.52	14.2	1.50	14.1	1.45																					
817	5294	7191		6964		6723		6470		6159		5845		5503		5084		4537		1796		-																		
		22.0	1.41	22.0	1.46	21.0	1.51	19.8	1.57	18.2	1.60	16.8	1.62	15.4	1.62	14.7	1.60	14.3	1.57	14.1	1.00																			
2	860	5572	7570		7354		7129		6889		6612		6314		6015		5656		5228		3837		-																	
			24.0	1.65	23.0	1.70	22.0	1.75	21.0	1.81	20.0	1.85	18.5	1.88	17.4	1.89	16.1	1.88	15.4	1.86	15.2	1.68																		
	880	5702	7746		7535		7317		7082		6820		6530		6237		5912		5534		4401		-																	
			25.0	1.77	24.0	1.82	23.0	1.87	23.0	1.93	21.0	1.98	19.7	2.01	18.4	2.02	17.0	2.02	16.1	2.01	15.6	1.90																		
901	5838	7931		7725		7514		7284		7038		6754		6469		6178		5809		4825		-																		
		26.0	1.90	25.0	1.95	24.0	2.00	24.0	2.07	22.0	2.12	21.0	2.15	19.7	2.17	18.4	2.18	16.9	2.16	15.9	2.08																			

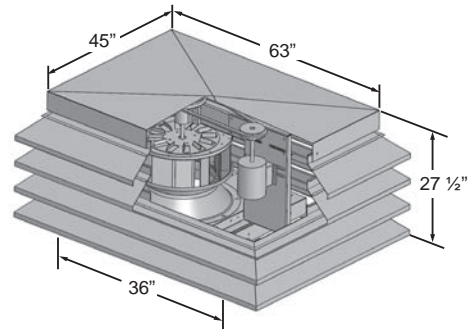
Performance shown is for installation type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

› LF30BC Belt Drive Fan Curves



› LF30BC Belt Drive Fan Dimensional Data

Roof Opening = 28" sq.
Damper Size = 27 3/4" sq.
Peak BHP = (RPM/521) ³
Maximum RPM = 843
Max. Motor Frame Size = 213T
Est. Shipping Weight = 535 lbs.



› LF30BC Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.125" SP		1.250" SP			
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/3	250	2004	3670	-	2536	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			4.3	0.09	3.2	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	275	2205	4037	-	3078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			5.0	0.13	4.1	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	300	2405	4404	-	3562	-	1158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6.0	0.16	5.1	0.19	3.2	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	340	2726	4991	-	4271	-	3248	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7.5	0.24	6.2	0.27	5.4	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2	360	2886	5284	-	4616	-	3746	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			8.4	0.28	6.6	0.32	6.0	0.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	375	3007	5505	-	4869	-	4077	-	2160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		9.1	0.32	7.0	0.36	6.5	0.37	5.5	0.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	400	3207	5872	-	5278	-	4570	-	3441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			10.6	0.39	7.8	0.43	7.1	0.45	6.5	0.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	420	3367	6165	-	5602	-	4956	-	4068	-	1215	-	-	-	-	-	-	-	-	-	-	-	-	-
		11.7	0.45	8.6	0.49	7.5	0.52	7.1	0.51	6.5	0.30	-	-	-	-	-	-	-	-	-	-	-	-	-
1	432	3464	6341	-	5795	-	5178	-	4368	-	2396	-	-	-	-	-	-	-	-	-	-	-	-	-
			12.4	0.49	9.0	0.53	7.8	0.56	7.4	0.56	6.9	0.45	-	-	-	-	-	-	-	-	-	-	-	-
	460	3688	6752	-	6242	-	5675	-	5007	-	3906	-	-	-	-	-	-	-	-	-	-	-	-	-
		14.1	0.59	10.2	0.64	8.3	0.67	8.1	0.69	7.7	0.65	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	480	3848	7046	-	6559	-	6025	-	5404	-	4572	-	2387	-	-	-	-	-	-	-	-	-	-	-
			15.0	0.67	11.3	0.72	9.0	0.76	8.8	0.78	8.4	0.77	8.2	0.58	-	-	-	-	-	-	-	-	-	-
	496	3977	7281	-	6811	-	6303	-	5716	-	4974	-	3556	-	-	-	-	-	-	-	-	-	-	-
		15.8	0.74	12.4	0.79	9.7	0.83	9.4	0.86	9.0	0.85	8.6	0.77	-	-	-	-	-	-	-	-	-	-	-
2	520	4169	7633	-	7187	-	6714	-	6176	-	5558	-	4572	-	2044	-	-	-	-	-	-	-	-	-
			16.7	0.85	13.7	0.91	11.0	0.96	10.4	0.98	10.0	1.00	9.5	0.95	9.4	0.65	-	-	-	-	-	-	-	-
	532	4265	7809	-	7375	-	6914	-	6394	-	5799	-	4993	-	3197	-	-	-	-	-	-	-	-	-
		17.2	0.91	14.5	0.97	11.8	1.02	11.1	1.05	10.5	1.06	10.0	1.04	9.6	0.88	-	-	-	-	-	-	-	-	-
3	570	4570	8367	-	7962	-	7535	-	7067	-	6547	-	5943	-	5021	-	3025	-	-	-	-	-	-	-
			19.4	1.12	16.8	1.19	14.6	1.24	13.2	1.28	12.5	1.30	11.8	1.31	11.2	1.25	10.9	1.01	-	-	-	-	-	-
	590	4730	8661	-	8269	-	7859	-	7417	-	6933	-	6387	-	5654	-	4398	-	-	-	-	-	-	-
			20.0	1.24	18.0	1.31	15.8	1.37	14.4	1.41	13.6	1.44	12.8	1.45	12.2	1.42	11.5	1.31	-	-	-	-	-	-
4	600	4811	8808	-	8422	-	8020	-	7590	-	7124	-	6587	-	5905	-	4858	-	2317	-	-	-	-	-
			21.0	1.31	18.6	1.38	16.5	1.43	14.9	1.48	14.2	1.51	13.3	1.52	12.6	1.50	11.9	1.42	11.8	1.00	-	-	-	-
	612	4907	8984	-	8606	-	8213	-	7797	-	7341	-	6825	-	6204	-	5292	-	3491	-	-	-	-	-
			22.0	1.39	19.3	1.46	17.3	1.52	15.7	1.57	14.9	1.60	14.0	1.62	13.2	1.61	12.5	1.54	12.2	1.30	-	-	-	-
5	640	5131	9395	-	9033	-	8660	-	8276	-	7841	-	7373	-	6870	-	6176	-	5142	-	-	-	-	-
			23.0	1.59	21.0	1.66	19.1	1.72	17.4	1.78	16.5	1.82	15.6	1.84	14.6	1.86	14.0	1.82	13.2	1.72	-	-	-	-
	660	5292	9688	-	9338	-	8978	-	8607	-	8193	-	7758	-	7270	-	6676	-	5863	-	1513	-	-	-
			24.0	1.74	22.0	1.81	20.0	1.88	18.9	1.94	17.7	1.98	16.8	2.01	15.7	2.03	15.0	2.01	14.4	1.95	14.0	1.06	-	-
6	670	5372	9835	-	9490	-	9136	-	8771	-	8368	-	7949	-	7469	-	6923	-	6217	-	2509	-	-	-
			24.0	1.82	23.0	1.90	21.0	1.97	19.6	2.03	18.4	2.07	17.4	2.10	16.3	2.12	15.5	2.12	15.0	2.07	14.3	1.37	-	-
	674	5404	9894	-	9551	-	9200	-	8836	-	8438	-	8024	-	7548	-	7021	-	6344	-	2903	-	-	-
			25.0	1.85	23.0	1.93	21.0	2.00	19.9	2.06	18.7	2.11	17.7	2.14	16.6	2.16	15.7	2.16	15.2	2.11	14.4	1.49	-	-
7	700	5612	10276	-	9945	-	9610	-	9260	-	8888	-	8490	-	8056	-	7596	-	6999	-	4941	-	-	-
			26.0	2.08	25.0	2.16	23.0	2.23	22.0	2.29	21.0	2.35	19.6	2.38	18.4	2.41	17.1	2.42	16.5	2.40	15.5	2.14	-	-
	720	5773	10569	-	10248	-	9924	-	9583	-	9232	-	8845	-	8441	-	7994	-	7492	-	5911	-	-	-
			28.0	2.26	26.0	2.34	25.0	2.42	24.0	2.49	23.0	2.55	21.0	2.58	20.0	2.61	18.7	2.63	17.6	2.63	16.6	2.47	-	-
8	740	5933	10863	-	10550	-	10236	-	9905	-	9573	-	9197	-	8820	-	8388	-	7953	-	6630	-	-	-
			29.0	2.45	28.0	2.54	26.0	2.62	25.0	2.69	24.0	2.75	23.0	2.79	21.0	2.83	20.0	2.85	18.8	2.87	17.6	2.75	-	-
	774	6206	11362	-	11063	-	10764	-	10450	-	10133	-	9789	-	9428	-	9047	-	8631	-	7609	-	-	-
		30.0	2.81	29.0	2.89	28.0	2.98	27.0	3.05	26.0	3.13	24.0	3.18	23.0	3.22	22.0	3.25	21.0	3.27	19.3	3.23	-	-	-

Performance shown is for installation type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

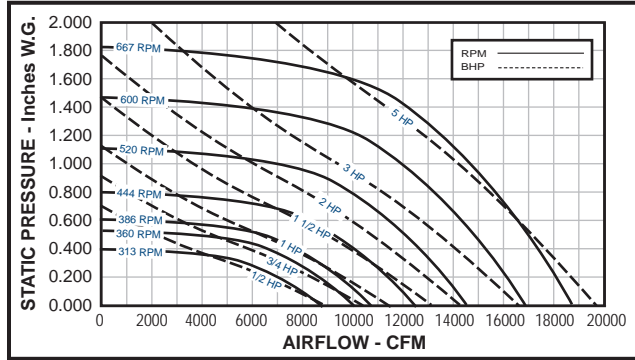
Dimensional Information & Performance Data

Linea Low Linear Roof Exhausters | Belt Drive



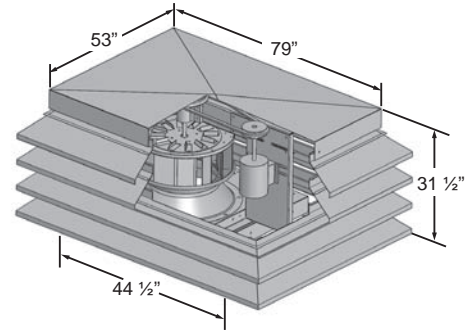
LF40BC

LF40BC Belt Drive Fan Curves



LF40BC Belt Drive Fan Dimensional Data

Roof Opening = 36" sq.
Damper Size = 35 1/2" sq.
Peak BHP = (RPM/378) ³
Maximum RPM = 779
Max. Motor Frame Size = 215T
Est. Shipping Weight = 735 lbs.



LF40BC Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.125" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/2	210	2045	5950	-	4010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	230	2239	6184	-	4669	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			5.4	0.17	5.0	0.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	250	2434	6722	-	5311	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6.5	0.22	6.0	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	270	2629	7260	-	5995	4410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7.3	0.28	6.7	0.33	6.2	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	290	2823	7798	-	6680	5380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.0			0.35	6.8	0.40	6.6	0.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
300	2921	8067	-	7018	5740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		8.3	0.38	6.9	0.44	6.8	0.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
313	3047	8416	-	7450	6190	3010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		8.8	0.43	7.0	0.50	7.0	0.54	6.5	0.41	-	-	-	-	-	-	-	-	-	-	-		
3/4	330	3213	8873	-	7990	6750	5370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			9.5	0.51	7.2	0.58	7.2	0.62	6.7	0.64	-	-	-	-	-	-	-	-	-	-		
	350	3408	9411	-	8585	7400	6360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10.6			0.61	7.7	0.68	7.3	0.72	7.0	0.77	-	-	-	-	-	-	-	-	-	-			
360	3505	9680	-	8880	7730	6790	3300	-	-	-	-	-	-	-	-	-	-	-	-	-		
		11.2	0.66	8.0	0.74	7.5	0.78	7.3	0.84	7.0	0.62	-	-	-	-	-	-	-	-			
1	370	3602	9950	-	9170	8070	7120	5230	-	-	-	-	-	-	-	-	-	-	-	-		
			11.7	0.72	8.4	0.80	7.7	0.84	7.5	0.90	7.3	0.85	-	-	-	-	-	-	-			
386	3758	10380	-	9630	8630	7680	6480	-	-	-	-	-	-	-	-	-	-	-	-			
		12.5	0.81	9.3	0.90	8.2	0.95	8.0	1.00	7.7	1.02	-	-	-	-	-	-	-				
1 1/2	420	4089	11293	-	10616	9769	8775	7970	6450	-	-	-	-	-	-	-	-	-	-			
			14.7	1.05	11.4	1.14	9.6	1.21	9.2	1.25	9.1	1.32	8.9	1.28	-	-	-	-				
	430	4186	11562	-	10890	10090	9100	8320	7160	-	-	-	-	-	-	-	-	-				
15.3			1.12	12.1	1.22	10.1	1.29	9.6	1.33	9.4	1.40	9.2	1.41	-	-	-	-					
444	4323	11939	-	11288	10566	9570	8780	7835	4430	-	-	-	-	-	-	-	-					
		16.3	1.24	13.2	1.33	10.9	1.41	10.3	1.46	10.0	1.53	9.8	1.56	9.7	1.20	-	-					
2	470	4576	12638	-	12030	11385	10460	9670	8950	7780	3550	-	-	-	-	-	-					
			17.6	1.47	14.9	1.57	12.7	1.67	11.7	1.71	11.1	1.77	10.9	1.85	10.7	1.84	10.6	1.29				
	480	4673	12907	-	12326	11720	10820	9990	9290	8270	4840	-	-	-	-	-	-					
			18.2	1.56	15.6	1.67	13.6	1.77	12.4	1.82	11.5	1.88	11.4	1.95	11.2	1.97	11.0	1.52				
	489	4761	13149	-	12557	11965	11111	10260	9600	8700	6840	-	-	-	-	-	-					
18.8			1.65	16.3	1.76	14.4	1.87	13.0	1.92	11.9	1.97	11.8	2.05	11.7	2.09	11.5	1.94					
520	5063	13982	-	13430	12870	12160	11300	10626	9950	9000	6921	-	-	-	-	-						
		21.0	1.99	18.9	2.10	16.9	2.22	15.4	2.29	14.0	2.34	13.3	2.41	13.2	2.50	13.0	2.50					
3	540	5257	14520	-	14000	13450	12810	11990	11253	10650	9946	8820	-	-	-	-	-					
			23.0	2.23	21.0	2.34	18.8	2.46	17.0	2.55	15.6	2.60	14.4	2.67	14.3	2.75	14.2	2.82				
	561	5462	15085	-	14570	14060	13490	12700	11930	11330	10730	9870	4070	-	-	-	-					
26.0			2.49	23.0	2.62	21.0	2.74	19.0	2.85	17.6	2.90	16.1	2.95	15.7	3.04	15.6	3.14					
600	5841	16133	-	15660	15170	14690	14020	13300	12600	12060	11480	9650	-	-	-	-						
		28.0	3.15	26.0	3.18	24.0	3.31	22.0	3.45	21.0	3.51	19.7	3.57	18.5	3.64	18.2	3.74					
5	620	6036	16671	-	16220	15750	15270	14670	13960	13254	12700	12170	10680	-	-	-	-					
			30.0	3.36	28.0	3.50	26.0	3.64	25.0	3.78	23.0	3.86	22.0	3.92	21.0	3.98	19.8	4.08				
	640	6231	17200	-	16780	16310	15870	15330	14650	13980	13360	12850	11610	-	-	-	-					
			31.0	3.70	30.0	3.84	28.0	3.98	27.0	4.12	26.0	4.23	24.0	4.29	23.0	4.35	22.0	4.44				
	652	6348	17530	-	13093	16655	16220	15690	15040	14376	13750	13236	12184	-	-	-	-					
32.0			3.92	31.0	4.06	29.0	4.20	28.0	4.34	27.0	4.46	26.0	4.53	24.0	4.59	23.0	4.66					
667	6494	17920	-	17510	17090	16660	16170	15520	14890	14230	13720	12730	-	-	-	-						
		34.0	4.20	32.0	4.34	31.0	4.48	30.0	4.63	29.0	4.77	28.0	4.83	27.0	4.89	25.0	4.96					

Performance shown is for installation type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

Low Linear Roof Exhausters

Linea

› Model

LF = Linea Low Discharge Roof Exhauster

› Unit Size

06 12 20 24 30 40

› Drive Type

D = Direct Drive
B = Belt Drive

› Motor Tap

RC = 1050 RPM
SC = 1300 RPM
VC = 1550 RPM

› Motor Speed

1 = Single Speed
2 = 2S2W 1800/1200
3 = 2S1W 1800/900

› Horse Power

1/7	1/4	1/3	1/2	3/4
1	1 1/2	2	3	5

› Enclosure

O = Open Drip Proof
T = Totally Enclosed
E = Explosion Proof
X = Special

› Voltage

A = 110V	G = 230V	N = 440V
B = 115V	H = 240V	P = 460V
C = 120V	J = 277V	Q = 480V
D = 200V	K = 380V	R = 575V
E = 208V	L = 400V	S = 600V
F = 220V	M = 415V	

› Phase

1 = Single
3 = Three

› Cycle

5 = 50 Hz
6 = 60 Hz

› Efficiency

S = Standard
H = High Efficiency

› Paint / Coating

0 = None
F = Epoxy Powder Coat*
G = Epoxy Powder Coat with UV*
H = Hi-Temp Powder Coat*
J = Non-stick Powder Coat*
K = Phenolic Powder Coat*
L = Phenolic Powder Coat with UV*
N = Polyester Powder Coat
X = Special
* Not available with choice of color.

› Color

0 = None
50 = Chrome Green
53 = Williamsburg Blue
55 = Pale Green
56 = Dove Gray
61 = White
63 = Oxford Beige
65 = Dover White
66 = Desert Tan
70 = Black
73 = Smoke Gray
77 = Brick Red
79 = Peppercorn
81 = Pale Brown
83 = Chocolate Brown
85 = Timeless Bronze
94 = Charcoal
X = Special

› Damper

0 = None
BDD = Gravity Backdraft Damper
MD1 = Gravity Backdraft Damper 115V
MD2 = Gravity Backdraft Damper 230V
MD4 = Gravity Backdraft Damper 460V
ED1 = Explosion Proof Motor

› Screen

0 = None
B = Bird Screen
S = Insect/Bird Screen

› Roof Curb

0 = None	K = UCA18	V = UG18
A = UCG8	L = UG12	W = URA12
B = UCG12	M = SA16	Y = URA18
C = UCG18	N = SFG12	1 = URG12
D = UCA8	P = SFG18	10 = SFA8
E = UCA12	Q = SG16	11 = USCG
F = SFA12	R = SRA16	12 = USCA
G = SFA18	S = SRG16	2 = URG18
H = SCG16	T = UA12	4 = UVA18
J = SCA16	U = UA18	5 = UVG18

› Slope

0 = None
S = Single
D = Double

› Metal Liner

0 = None
L = Metal Liner

› Damper Holding Plate

0 = None
P = Damper Holding Plate

› Neoprene Gasket

0 = None
G = Gasket

› No Wooden Nailer

0 = None
N = No Wooden Nailer

› Curb Paint/Coating

0 = None
B = Air Dried Epoxy

› Hinged Sub-base

0 = None
H = Hinged Sub-base

› Mounting Pedestal

0 = None
P = Mounting Pedestal

› Thermal Overload Protection

0 = None
P = Thermal Overload Protection

› Disconnect Switch

0 = None
1 = Nema 1 Disconnect Switch
3R = Nema 3R Disconnect Switch
4 = Nema 4 Disconnect Switch
7 = Nema 7 Disconnect Switch
9 = Nema 9 Disconnect Switch

› Internal Wiring

0 = None
1 = Nema 1 Internal Wiring
3R = Nema 3R Internal Wiring

› Transformer

0 = None
T = Transformer

› Speed Controller

0 = None
L = Loose
M = Mounted

› Firestat Switch

0 = None
F = Firestat Switch

Written specifications on next page.

Engineering Specifications

Linea Low Linear Roof Exhausters



Engineering Specifications

Low Linear Roof Exhausters

› Linea

Belt Drive Units

Belt drive centrifugal lateral discharge roof exhaust fan shall be Linea LF, manufactured by PennBarry, Richardson, Texas 75081.

The housing shall be a lateral discharge design utilizing extruded aluminum louvers, weatherproof, and with rigid galvanized steel internal support structures. Louvers shall incorporate an integral stormproofing lip, corners shall be mitered and welded on the blade underside, and arranged vertically in an extended stacking design beyond the shoulder of the roof curb. Units shall be equipped with an oversized electrical conduit chase through the curb cap and into the motor compartment for ease of wiring (except Explosion Proof). Units shall be pre-wired to a junction box mounted in the motor compartment and equipped with an electrical disconnect device (except Explosion Proof).

Statically and dynamically balanced backward inclined, centrifugal wheels shall be aluminum, spark-resistant, non-overloading, and matched to deeply spun venturis. Motors shall be continuous duty, ball bearing design, permanently lubricated, mounted out of the main airstream, and furnished at the specified voltage, phase, and enclosure. Shafts shall be turned, ground, polished, and rust protected. Heavy-duty ball bearings are rated for a minimum L50 life exceeding 200,000 hours. Pulleys shall be adjustable, cast iron, machined, keyed, securely attached, and sized for 150% of the horsepower at its rated maximum speed.

Each fan shall bear the AMCA Licensed Ratings Seal for Air and Sound Performance, and shall be UL and CSA listed.

› Linea

Direct Drive Units

Direct drive centrifugal lateral discharge roof exhaust fan shall be Linea LF, manufactured by PennBarry, Richardson, Texas 75081.

The housing shall be a lateral discharge design utilizing extruded aluminum louvers, weatherproof, and with rigid galvanized steel internal support structures. Louvers shall incorporate an integral stormproofing lip, corners shall be mitered and welded on the blade underside, and arranged vertically in an extended stacking design beyond the shoulder of the roof curb. Units shall be equipped with an oversized electrical conduit chase through the curb cap and into the motor compartment for ease of wiring (except Explosion Proof). Units shall be pre-wired to a junction box mounted in the motor compartment and equipped with an electrical disconnect device (except Explosion Proof).

Statically and dynamically balanced backward inclined, centrifugal wheels shall be aluminum, spark-resistant, non-overloading, and matched to deeply spun venturis. Motors shall be continuous duty, permanently lubricated, multi-speed (for applicable models), have thermal overload protection, positively cooled, be easily accessible for service, and furnished at the specified voltage, phase.

Each fan shall bear the AMCA Licensed Ratings Seal for Air and Sound Performance, and shall be UL and CSA listed.

› **Product Configuration**

Reference PennBarry's selection software to configure a Linea product today.

L
i
n
e
a



Sales Agreement

Linea Low Discharge Roof Exhausters

1-Year Limited Manufacturer Warranty

› Products Covered

PennBarry Fans and Ventilators (each, a “PennBarry Product”)

› One Year Limited Warranty For PennBarry Products

PennBarry warrants to the original commercial purchaser that the PennBarry Products will be free from defects in material and workmanship for a period of one (1) year from the date of shipment.

› Exclusive Remedy

PennBarry will, at its option, repair or replace (without removal or installation) the affected components of any defective PennBarry Product; repair or replace (without removal or installation) the entire defective PennBarry Product; or refund the invoice price of the PennBarry Product. In all cases, a reasonable time period must be allowed for warranty repairs to be completed.

› What You Must Do

In order to make a claim under these warranties:

- You must be the original commercial purchaser of the PennBarry Product.
- You must promptly notify us, within the warranty period, of any defect and provide us with any substantiation that we may reasonably request.
- The PennBarry Product must have been installed and maintained in accordance with good industry practice and any specific PennBarry recommendations.

› Exclusions

These warranties do not cover defects caused by:

- Improper design or operation of the system into which the PennBarry Product is incorporated.
- Improper installation.
- Accident, abuse or misuse.
- Unreasonable use (including any use for non-commercial purposes, failure to provide reasonable and necessary maintenance as specified by PennBarry, misapplication and operation in excess of stated performance characteristics).
- Components not manufactured by PennBarry.

› Limitations

- In all cases, PennBarry reserves the right to fully satisfy its obligations under the Limited Warranties by refunding the invoice price of the defective PennBarry Product (or, if the PennBarry Product has been discontinued, of the most nearly comparable current product).
- PennBarry reserves the right to furnish a substitute or replacement component or product in the event a PennBarry Product or any component of the product is discontinued or otherwise unavailable.
- PennBarry’s only obligation with respect to components not manufactured by PennBarry shall be to pass through the warranty made by the manufacturer of the defective component.

› General

The foregoing warranties are exclusive and in lieu of all other warranties except that of title, whether written, oral or implied, in fact or in law (including any warranty of merchantability or fitness for a particular purpose).

PennBarry hereby disclaims any liability for special, punitive, indirect, incidental or consequential damages, including without limitation lost profits or revenues, loss of use of equipment, cost of capital, cost of substitute products, facilities or services, downtime, shutdown or slowdown costs.

The remedies of the original commercial purchaser set forth herein are exclusive and the liability of PennBarry with respect to the PennBarry Products, whether in contract, tort, warranty, strict liability or other legal theory shall not exceed the invoice price charged by PennBarry to its customer for the affected PennBarry Product at the time the claim is made.

Inquiries regarding these warranties should be sent to: PennBarry, 1401 North Plano Road, Richardson, TX 75081

Other PennBarry Products

Centrifugal Products



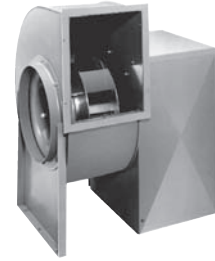
› **Domex**
Centrifugal
Roof Exhausters



› **Fumex Fatrap**
Kitchen Hood Centrifugal
Roof Exhausters



› **Zephyr**
Ceiling and Inline Fans



› **Dynamo**
Centrifugal Blowers



› **Centrex Inliner**
Centrifugal Inline Fan



› **LC Dynafan**
Low Contour Centrifugal
Roof Exhausters

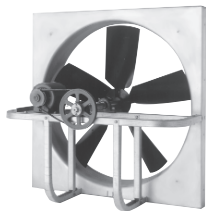


› **ESI**
Efficient Silent
Inline Fan



› **Fume Exhaust**
Curb Mounted
Centrifugal Fans

Axial / Gravity Products



› **Breezeway**
Propeller Wall Fan



› **Hi-Ex**
Power Roof Ventilator



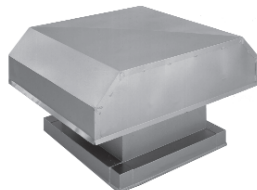
› **Tubeaxial**
Inline Fans



› **Vaneaxial**
Inline Fans



› **Powered Airette**
Axial Roof Ventilators



› **Airette**
Gravity Intake/Relief Hood



› **Domex Axial**
Axial Roof Ventilators



› **Axcentrix**
Bifurcator Fan

