



Axial Fans

Flat Bottom Bin/Silo Axial Fan

SCAFCO Axial Fans are designed for applications requiring a high capacity of airflow at static pressures below 4" (102 mm). These lighter weight models utilize an aluminum blade and air-over motors which make them the easiest to move from bin to bin. At the same time, the Axial Fan's rugged steel housing makes for a durable, long-lasting product.



Hopper Bottom Bin/Silo Axial Fan

SCAFCO Axial Fans are the perfect solution for hopper bottom bin/silo aeration. Fans mount below the hopper, directing air into ducts and up through the grain mass. SCAFCO designs rigid perforated and corrugated galvanized steel pipe placed inside the cone to complete this hopper bottom bin aeration system.



Specifications

- Totally-enclosed, air over, (TEAO) motors are standard
- Static pressures up to 4" (102 mm)
- 0.75 HP – 7.5 HP (0.56 kW – 5.6 kW) models available
- Options available for 50 Hz models

In-line Centrifugal Fans

SCAFCO In-line Centrifugal Fans are ideal for smaller grain bins that still require a reliable, constant supply of high pressure. The intelligent design of this fan allows for a unit that is considerably more mobile than the standard box centrifugal fans.



Specifications

- Suited for high static pressures beyond the performance range of axial fans
- In-Line Centrifugal Fans utilize high quality, totally-enclosed, fan cooled motors (TEFC)
- Static pressures up to 11" (280 mm)
- 2 HP – 15 HP (1.5 kW – 11.2 kW) models available
- Options available for 50 Hz models



Centrifugal Fans



SCAFCO Centrifugal Fan housings are precision fabricated from heavy duty, rust resistant, galvanized steel that utilizes bolt-together construction. They provide a reliable, constant supply of high-static pressure through the use of a backward inclined airfoil wheel and inlet cone.



Specifications

- Centrifugal Fans utilize high quality, totally-enclosed, fan cooled motors (TEFC)
- High-strength adjustable foot structures assist with leveling the unit and provide the fan support needed for smooth operation
- Static pressures up to 11" (280 mm) on 1750 RPM Models
- Easy to adjust by using a 1 1/16" (27 mm) wrench to maintain level mounting
- 3 HP – 50 HP (2.25 kW – 37.5 kW) models available
- Options available for high speed 3500 RPM models
- Low sound level with 1750 RPM models

SCAFCO Fan Accessories

Roof Exhauster Fans

SCAFCO Roof Exhauster Fans are mounted high on the roof so that more moisture can be released during the aeration process, which reduces the amount of moisture deposited on the upper portion of the grain during cooling.

Fan Shutters

Fan shutters are recommended for multiple fan installations and to prevent under-floor pressure from pushing air back through a fan that is not running.

Fan Carts

A fan cart is an economical option for moving a single fan from bin to bin when purchasing multiple fans is not feasible.

Fan Transitions

Transitions feature a galvanized steel housing with overlapping seams to create an air-tight seal for a long life of dependable use.

Features and Benefits of All SCAFCO Fans

- Fan housings are bolted together using as few pieces as possible to increase strength and reduce the number of seams that can cause air leakage problems
- Housings are made from heavy gauge galvanized steel and are built to last
- All fans are supplied with high efficiency motors to help reduce overall facility energy use
- Many models are available with single or three phase motors
- All elements including wheels, inlet cones, and housings are matched for optimum efficiency
- A safety screen provides protection and prevents large particles from entering the fan housing. The screen can be removed without disturbing any other parts of the fan
- Each fan is tested and dynamically balanced prior to shipping to guarantee proper function and ensure a smooth performance over a long period of time
- SCAFCO's knowledgeable and experienced engineering department will size the complete fan system to meet the specific project requirements
- All SCAFCO fans and accessories are made in the U.S.A.

Fan Performance Tables

Axial Fans

2850 RPM 50 Hz.		Static Pressure (CFM / in. Water Column)									
Model	Ø	HP	0"	.5"	1"	1.5"	2"	2.5"	3"	3.5"	4"
12"	0.75	2080	1875	1520	-	-	-	-	-	-	-
14"	1.5	2460	2355	2135	1885	1105	-	-	-	-	-
18"	1.5	4480	4145	3770	3355	2625	-	-	-	-	-
18"	3	5415	5145	4855	4540	4145	3605	-	-	-	-
24"	5	9585	9165	8665	8085	7375	6585	5665	4665	3625	-
24"	7.5	12080	11580	11040	10500	10000	9415	8580	7415	5830	-

3450 RPM 60 Hz.		Static Pressure (CFM / in. Water Column)									
Model	Ø	HP	0"	.5"	1"	1.5"	2"	2.5"	3"	3.5"	4"
12"	0.75	2500	2250	1825	-	-	-	-	-	-	-
14"	1.5	2950	2825	2560	2260	1325	-	-	-	-	-
18"	1.5	5375	4975	4525	4025	3150	-	-	-	-	-
18"	3	6500	6175	5825	5450	4975	4325	-	-	-	-
24"	5	11500	11000	10400	9700	8850	7900	6800	5600	4350	-
24"	7.5	14500	13900	13250	12600	12000	11300	10300	8900	7000	-

Centrifugal Fans

1450 RPM 50 Hz.		Static Pressure (CFM / in. Water Column)									
Model	HP	0"	1"	2"	3"	4"	5"	6"	7"	8"	
24L220350	3	6,800	5,988	5,223	4,235	-	-	-	-	-	-
24L240550	5	10,486	9,503	8,596	7,560	5,835	-	-	-	-	-
24L270750	7.5	13,050	12,140	11,285	10,367	9,220	7,134	-	-	-	-
24L271050	10	15,103	14,116	13,122	12,054	10,721	8,295	-	-	-	-
24L301550	15	20,736	17,070	16,104	15,126	14,047	12,708	10,545	-	-	-
24L332050	20	22,900	22,126	21,446	20,688	19,740	18,453	16,698	13,892	-	-
24L332550	25	25,900	25,023	24,254	23,397	22,325	20,869	18,884	15,711	-	-
24L333050	30	27,121	26,340	25,530	24,628	23,500	21,968	19,878	16,538	-	-

1750 RPM 60 Hz.		Static Pressure (CFM / in. Water Column)											
Model	HP	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
24L2203	3	5,000	4,564	4,184	3,791	3,321	2,572	-	-	-	-	-	-
24L2205	5	8,225	7,517	6,891	6,244	5,470	4,236	-	-	-	-	-	-
24L2207	7.5	9,734	8,949	8,204	7,434	6,511	5,043	-	-	-	-	-	-
24L2410	10	12,655	11,831	11,058	10,308	9,475	8,429	6,509	-	-	-	-	-
24L2715	15	15,750	14,973	14,269	13,558	12,809	11,964	10,926	9,371	-	-	-	-
24L2720	20	18,228	17,411	16,529	15,765	14,894	13,912	12,705	10,896	-	-	-	-
24L3025	25	24,150	23,138	22,253	21,371	20,482	19,549	18,518	17,314	15,767	13,058	-	-
24L3030	30	25,026	24,102	23,180	22,261	21,335	20,364	19,290	18,035	16,424	13,602	-	-
24L3340	40	31,250	30,481	29,861	29,214	28,517	27,722	26,761	25,572	24,112	22,256	19,626	15,079
24L3350	50	32,732	32,086	31,432	30,752	30,017	29,181	28,170	26,918	25,381	23,427	20,659	15,873

2850 RPM 50 Hz.		Static Pressure (CFM / in. Water Column)											
Model	HP	0"	2"	4"	6"	8"	9"	10"	12"	14"	16"	18"	20"
24H150350	3	4,050	3,450	2,804	1,915	-	-	-	-	-	-	-	-
24H150550	5	4,703	4,011	3,261	2,227	-	-	-	-	-	-	-	-
24H180750	7.5	6,700	6,088	5,530	4,943	4,213	3,683	-	-	-	-	-	-
24H181050	10	8,927	8,118	7,374	6,591	5,617	4,911	-	-	-	-	-	-
24H221550	15	8,300	7,741	7,271	6,818	6,342	6,085	5,806	5,142	4,044	-	-	-
24H222050	20	12,150	11,384	10,693	10,026	9,327	8,948	8,539	7,562	5,947	-	-	-
24H222550	25	13,600	12,750	11,976	11,229	10,446	10,022	9,563	8,470	6,661	-	-	-
24H223050	30	16,131	15,179	14,258	13,368	12,436	11,931	11,385	10,083	7,930	-	-	-
24H244050	40	20,972	19,972	19,007	18,097	17,192	16,720	16,223	15,119	13,761	11,669	-	-
24H275050	50	21,750	21,038	20,328	19,615	18,896	18,529	18,154	17,358	16,472	15,438	14,122	11,945

3450 RPM 60 Hz.		Static Pressure (CFM / in. Water Column)											
Model	HP	0"	2"	4"	6"	8"	10"	12"	14"	16"	18"	20"	
24H1503	3	2,950	2,637	2,327	1,992	1,576	-	-	-	-	-	-	-
24H1505	5	4,850	4,362	3,849	3,295	2,607	-	-	-	-	-	-	-
24H1507	7.5	5,676	5,108	4,516	3,877	3,093	-	-	-	-	-	-	-
24H1810	10	6,350	5,918	5,539	5,177	4,797	4,368	3,831	2,789	-	-	-	-
24H1815	15	9,450	8,827	8,262	7,721	7,154	6,515	5,714	4,160	-	-	-	-
24H1820	20	10,774	10,096	9,456	8,846	8,207	7,491	6,604	5,044	-	-	-	-
24H2225	25	9,950	9,467	9,066	9,680	8,303	7,918	7,510	7,063	6,554	5,923	4,968	-
24H2230	30	12,650	12,066	11,555	11,062	10,582	10,092	9,572	9,002	8,353	7,549	6,332	-
24H2240	40	16,300	15,593	14,932	14,296	13,675	13,042	12,370	11,634	10,794	9,756	8,182	-
24H2250	50	19,365	18,564	17,776	17,019	16,280	15,526	14,726	13,850	12,850	11,614	9,741	-

In-Line Centrifugal

2850 RPM (50 Hz)		HP	Static Pressure (CFM / in. Water Column)									
Model	Dia		0"	1"	2"	3"	4"	5"	6"	7"	8"	
24ICF18023LC-50	18"	2	2,380	2,120	1,900	1,560	-	-	-	-	-	-
24ICF24033LC-50	24"	3	3,310	3,110	2,880	2,650	2,360	1,900	-	-	-	-
24ICF28053LC-50	28"	5	4,460	4,250	4,020	3,810	3,590	3,360	3,090	3,730	1,790	-
24ICF28073LC-50	28"	7.5	6,510	6,220	5,880	5,570	5,260	4,920	4,520	3,990	2,610	-
24ICF28103LC-50	28"	10	7,970	7,590	7,170	6,790	6,410	6,000	5,510	4,870	3,180	-

3500 RPM (60 Hz)		HP	Static Pressure (CFM / in. Water Column)										
Model	Dia		0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"
24ICF18023LC	18"	2	2,310	2,140	1,980	1,790	1,580	1,050	-	-	-	-	-
24ICF18033LC	18"	3	2,890	2,680	2,470	2,240	1,970	1,310	-	-	-	-	-
24ICF24053LC	24"	5	3,730	3,560	3,370	3,200	3,020	2,820	2,580	2,220	-	-	-
24ICF24073LC	24"	7.5	5,320	5,080	4,820	4,570	4,310	4,030	3,680	3,180	-	-	-
24ICF28103LC	28"	10	6,150	5,930	5,690	5,480	5,270	5,070	4,870	4,640	4,400	4,110	3,760
24ICF28153LC	28"	15	9,260	8,890	8,540	8,210	7,910	7,610	7,300	6,960	6,590	6,170	5,630

Table Notes

Fan performance is estimated. Above air deliveries are based upon tests conducted by the Fan Wheel/Fan Blade Manufacturer in accordance with AMCA Standards.



Complete Systems for Grain Storage and Handling

In addition to Fans and Aeration Systems, SCAFCO offers a full line of Flat Bottom Bins/Silos, Hopper Bottom Bins/Silos, Material Handling Equipment and Accessories. For more information contact SCAFCO or visit us online.

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