



Est. 1938

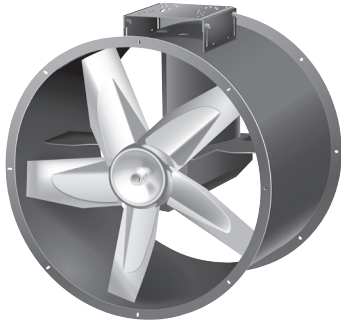
Inline Belt Drive Low Sound Tubeaxial Propeller Fan Model HQ

Lower Sound Patented

Includes the following Model/Options	
HQ	General Ventilation

Inline Axial Fans

Model HQ fan is a belt drive, tubeaxial exhauster with the motor, drives and bearings located outside the airstream. The HQ custom designed propeller achieves a high airflow capacity and reduced sound. Capacities up to 40,000 CFM and up to 2 inch static pressure. The HQ is designed to operate in any position and is furnished with mounting flanges on both ends for easy installation.



Standard Construction Features	HQ
Heavy Gauge Rolled Steel	x
Aluminum Low Sound Propeller	x
Integral Inlet and Outlet Flanges	x
Bearings L50 life of 200,000 hours	x
Continuous Duty Motors	x
Breather Tube for Bearings	x
UL705	x

Listed models are available in all sizes and performance ranges. For submittals, detailed air and sound information, available options and accessories, please go to FANTastic® Commercial www.acmefan.com.

Construction Features

Housing

- Constructed of heavy gauge rolled steel
- Rolled flange at each end for ease of mounting
- Gasketed access door for servicing on model sizes 42" - 60"
- Streamlined belt and bearing enclosure eliminates turbulence and air drag

Coating

- All steel components shall have ACME-SEAL polyester powder coating

Aluminum Propeller

- Heavy duty, all welded aluminum construction standard on all sizes
- Circular-arc blades for high airflow capacity and lower sound
- Precision balanced for smooth vibration free operation

Bearings

- Permanently lubricated in an Acme D.S. pillow block housing
- Bearings are resiliently mounted in neoprene rings
- Rated at L50 life of 200,000 hours
- **5 year** limited warranty on Acme D.S. pillow block bearings

Drive Assembly

- Cast iron drives sized for 150% of drive horsepower
- Static free, oil and heat resistant belts

Motors

- Continuous duty motors located outside the airstream
- Motors shipped mounted to the fan

Options/Accessories

- Coatings
- Unitary Pillow Block Bearings
- Mounting Base
- Companion Flange
- Weather Cover/Belt Guard
- Inlet Bell
- Inlet/Outlet Guards
- Belt Guard

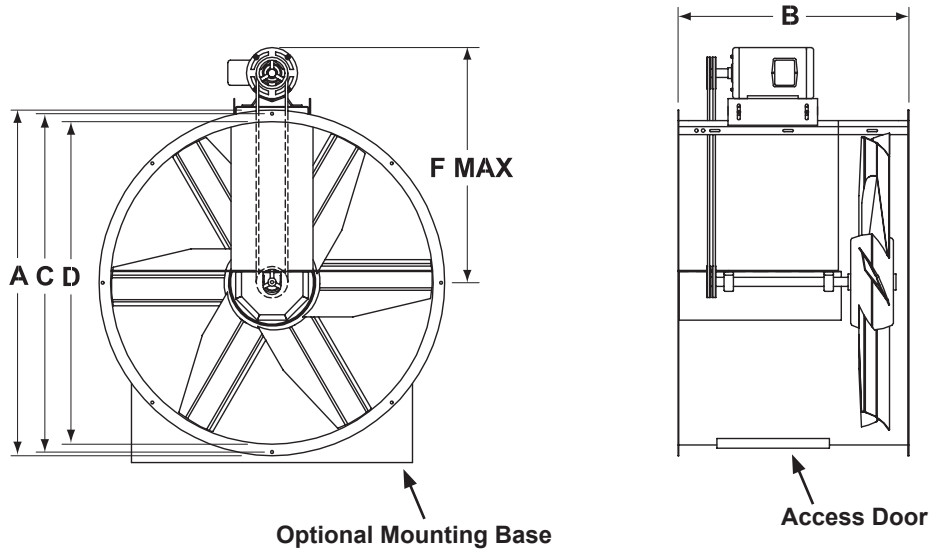


Consult your Acme representative for availability.



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Inline Belt Drive Low Sound Tubeaxial Propeller Fan Model HQ



Inline Axial Fans

DIMENSIONS						
Fan Model	A	B	C	D	F Max.	Access Door
HQ12	14.56	12.00	13.44	12.22	17.00	None
HQ16	18.50	16.50	17.38	16.10	19.00	None
HQ18	21.00	16.50	19.75	18.48	20.50	None
HQ21	23.88	18.00	22.50	21.25	22.41	None
HQ24	26.88	18.00	25.75	24.44	24.00	None
HQ30	33.64	24.00	32.12	30.60	29.00	None
HQ36	39.76	29.00	38.26	36.60	32.19	None
HQ42	45.78	32.00	44.28	42.60	37.00	12.00 x 17.00
HQ48	51.78	36.00	50.28	48.60	42.00	12.00 x 17.00
HQ54	57.78	39.00	56.28	54.60	45.00	15.00 x 17.00
HQ60	64.28	43.34	63.03	60.57	49.00	16.00 x 18.00

Dimensions are shown in inches.

HQ12

PERFORMANCE DATA																				
CFM and Sones vs. Static Pressure																				
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		1.000"		1.250"		1.500"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
2090	1765		1667		1559		1414		1073											
	0.18	40	0.19	36	0.20	34	0.21	33	0.20	33										
2320	1960		1871		1781		1662		1531		947									
	0.25	50	0.26	46	0.27	43	0.28	42	0.28	44	0.27	38								
2680	2264		2188		2110		2030		1920		1806		1673							
	0.39	54	0.40	50	0.41	47	0.42	46	0.42	45	0.44	45	0.44	49						
3070	2594		2527		2459		2391		2319		2225		2125		1896		1000			
	0.59	81	0.60	77	0.60	69	0.61	69	0.62	68	0.64	67	0.65	63	0.66	76	0.66	59		

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
HQ12	1/4 Hp	2090 - 2090	47	54
HQ12	1/3 Hp	2320 - 2320	52	59
HQ12	1/2 Hp	2680 - 2680	57	64
HQ12	3/4 Hp	3070 - 3070	59	66

HQ16

PERFORMANCE DATA																				
CFM and Sones vs. Static Pressure																				
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		1.000"		1.250"		1.500"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
1411	1975		1704		931															
	0.09	14.5	0.10	11.2	0.11	14.4														
1915	2682		2484		2275		1960													
	0.22	17.9	0.24	16.3	0.26	16.8	0.27	26												
2101	2943		2762		2580		2349		1640											
	0.29	18.2	0.32	16.8	0.34	16.7	0.36	21	0.34	21										
2413	3380		3223		3065		2900		2687		2270		1531							
	0.44	23	0.47	22	0.50	22	0.53	23	0.54	27	0.54	28	0.55	26						
2762	3870		3732		3594		3456		3308		3125		2896							
	0.67	36	0.70	38	0.73	38	0.76	35	0.79	34	0.81	37	0.82	39						
3040	4259		4134		4008		3883		3757		3617		3450		2761					
	0.89	43	0.92	46	0.96	47	1.00	44	1.03	44	1.06	46	1.08	49	1.07	53				

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
HQ16	1/4 Hp	1411 - 1915	55	88
HQ16	1/3 Hp	1620 - 2101	58	91
HQ16	1/2 Hp	1750 - 2413	62	95
HQ16	3/4 Hp	1989 - 2762	66	98
HQ16	1 Hp	2307 - 3040	78	111

HQ18

PERFORMANCE DATA																				
CFM and Sones vs. Static Pressure																				
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		1.000"		1.250"		1.500"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones		
1215	2631		2266																	
	0.12	15.2	0.14	11.4																
1622	3514		3243		2953		2414													
	0.28	18.2	0.31	16.3	0.34	16.9	0.34	23												
1862	4034		3798		3562		3272		2676											
	0.42	23	0.46	21	0.49	20	0.51	23	0.51	30										
2132	4620		4413		4208		3997		3727		3353		2231							
	0.63	25	0.67	23	0.71	23	0.75	23	0.77	28	0.78	31	0.77	27						
2346	5084		4896		4708		4521		4314		4058		3729							
	0.84	30	0.88	28	0.93	27	0.97	27	1.01	29	1.03	34	1.04	37						
2686	5821		5657		5492		5329		5165		4987		4777		4183					
	1.27	48	1.31	50	1.37	51	1.42	48	1.46	44	1.50	44	1.54	46	1.56	50				

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
HQ18	1/3 Hp	1215 - 1622	62	104
HQ18	1/2 Hp	1410 - 1862	65	107
HQ18	3/4 Hp	1637 - 2132	71	113
HQ18	1 Hp	1856 - 2346	83	125
HQ18	1-1/2 Hp	2112 - 2686	86	128

HQ21

PERFORMANCE DATA																				
CFM and Sones vs. Static Pressure																				
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		1.000"		1.250"		1.500"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones		
1067	3505		3030		1675															
	0.16	16.0	0.19	11.7	0.19	14.7														
1440	4733		4382		4013		3454													
	0.39	19.3	0.43	17.4	0.47	17.8	0.48	25												
1649	5420		5114		4807		4443		3874		2406									
	0.59	24	0.64	22	0.68	21	0.71	23	0.72	33	0.73	27								
1815	5966		5687		5410		5118		4742		4002		2691							
	0.78	28	0.83	27	0.88	25	0.93	26	0.96	29	0.95	38	0.97	32						
2077	6828		6584		6341		6097		5835		5513		5107		2985					
	1.17	31	1.23	29	1.30	28	1.35	28	1.40	30	1.43	34	1.45	39	1.47	36				

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
HQ21	1/2 Hp	1067 - 1440	91	131
HQ21	3/4 Hp	1215 - 1649	93	133
HQ21	1 Hp	1326 - 1815	110	150
HQ21	1-1/2 Hp	1701 - 2077	112	152

HQ24

PERFORMANCE DATA																				
CFM and Sones vs. Static Pressure																				
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		1.000"		1.250"		1.500"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
858	4806		4106		2012															
	0.18	17.0	0.22	15.2	0.22	13.4														
1153	6462		6000		5370		3371													
	0.44	27	0.49	26	0.54	24	0.50	29												
1320	7398		7012		6527		5832		3678											
	0.65	23	0.72	23	0.78	23	0.82	25	0.76	23										
1453	8144		7806		7381		6876		6147		3886		3253							
	0.87	27	0.95	27	1.02	26	1.07	29	1.10	31	1.03	28	1.09	33						
1663	9322		9039		8685		8295		7833		7193		6245							
	1.31	34	1.39	35	1.48	34	1.55	34	1.61	36	1.65	37	1.62	38						
1830	10259		10001		9696		9356		8990		8546		7947		4837					
	1.74	37	1.84	38	1.93	38	2.02	37	2.09	39	2.16	41	2.20	43	2.06	39				
2095	11745		11520		11278		10992		10690		10371		10010		9028		5927		4881	
	2.61	49	2.72	49	2.83	50	2.93	50	3.04	50	3.12	51	3.20	53	3.30	57	3.02	50	3.24	52

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
HQ24	1/2 Hp	858 - 1153	92	142
HQ24	3/4 Hp	995 - 1320	106	156
HQ24	1 Hp	1067 - 1453	131	181
HQ24	1-1/2 Hp	1215 - 1663	135	185
HQ24	2 Hp	1494 - 1830	136	186
HQ24	3 Hp	1750 - 2095	153	203

HQ30

PERFORMANCE DATA																				
CFM and Sones vs. Static Pressure																				
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		1.000"		1.250"		1.500"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
694	7652		6579		3285															
	0.29	15.7	0.36	14.3	0.36	12.4														
942	10391		9689		8751		7048		4010											
	0.73	31	0.83	29	0.90	27	0.91	25	0.94	25										
1078	11892		11303		10566		9554		7761		4887									
	1.10	38	1.21	37	1.31	34	1.37	34	1.35	39	1.37	37								
1187	13096		12580		11932		11185		10104		7185		5451							
	1.47	29	1.59	29	1.70	28	1.79	30	1.84	32	1.70	30	1.82	31						
1359	14994		14558		14024		13434		12753		11811		10686		6109					
	2.20	38	2.35	37	2.48	36	2.60	36	2.70	39	2.76	41	2.77	43	2.76	43				
1611	17776		17408		17001		16533		16038		15505		14867		13178		8398		6605	
	3.67	51	3.84	51	4.00	51	4.15	51	4.30	50	4.42	52	4.54	54	4.63	57	4.34	50	4.74	56

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
HQ30	1 Hp	694 - 942	190	260
HQ30	1-1/2 Hp	832 - 1078	195	270
HQ30	2 Hp	928 - 1187	205	285
HQ30	3 Hp	1094 - 1359	220	295
HQ30	5 Hp	1354 - 1611	240	315

HQ34

PERFORMANCE DATA																						
CFM and Sones vs. Static Pressure																						
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		1.000"		1.250"		1.500"			
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones		
576	9665		8157																			
	0.39	13.5	0.45	13.5																		
765	12842		11816		10452		5625															
	0.91	20	0.99	20	1.07	20	1.00	19.8														
875	14691		13819		12768		11336		6246													
	1.36	27	1.45	27	1.56	27	1.63	29	1.52	26												
964	16187		15404		14502		13414		11895		6551											
	1.82	32	1.92	32	2.03	31	2.14	33	2.20	35	2.05	31										
1103	18522		17852		17100		16253		15260		13958		8582									
	2.72	40	2.84	40	2.96	40	3.09	39	3.20	42	3.28	44	2.96	43								
1308	21967		21405		20802		20151		19438		18652		17716		14803							
	4.53	54	4.68	52	4.82	51	4.96	49	5.12	47	5.27	47	5.39	46	5.38	47						

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
HQ34	1 Hp	576 - 765	195	260
HQ34	1-1/2 Hp	668 - 875	199	275
HQ34	2 Hp	769 - 964	210	285
HQ34	3 Hp	944 - 1103	225	300
HQ34	5 Hp	1056 - 1308	240	315

HQ36

PERFORMANCE DATA																						
CFM and Sones vs. Static Pressure																						
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		1.000"		1.250"		1.500"			
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones		
540	10729		9020		3619																	
	0.42	13.3	0.49	13.4	0.51	13.0																
695	13814		12608		10922		5366															
	0.90	19.2	0.99	18.8	1.08	19.2	1.03	18.8														
796	15824		14806		13545		11739		6016													
	1.35	24	1.46	24	1.57	24	1.64	25	1.56	24												
876	17416		16500		15425		14066		11827		6338											
	1.80	31	1.92	30	2.04	29	2.14	32	2.15	33	2.12	29										
1003	19943		19157		18272		17268		16011		14314		8210									
	2.71	38	2.84	38	2.97	37	3.11	38	3.22	40	3.27	42	3.05	38								
1189	23643		22989		22282		21511		20661		19714		18495		10575							
	4.51	51	4.67	50	4.82	48	4.97	46	5.15	45	5.30	44	5.41	43	4.97	43						

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
HQ36	1 Hp	540 - 695	241	354
HQ36	1-1/2 Hp	627 - 796	245	360
HQ36	2 Hp	756 - 876	250	368
HQ36	3 Hp	863 - 1003	270	386
HQ36	5 Hp	1011 - 1189	285	397

HQ42

PERFORMANCE DATA																				
CFM and Sones vs. Static Pressure																				
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		1.000"		1.250"		1.500"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
454	14174		11777																	
	0.53	12.9	0.63	13.1																
616	19241		17668		15559		8181													
	1.33	22	1.46	22	1.58	23	1.49	22												
709	22150		20824		19225		17041		9318											
	2.03	26	2.17	26	2.33	25	2.45	27	2.27	26										
776	24244		23046		21658		19966		17562		9546									
	2.66	30	2.82	30	2.98	30	3.14	31	3.22	33	3.04	31								
920	28747		27762		26662		25429		24038		22212		19294							
	4.44	44	4.63	44	4.81	44	5.02	43	5.20	45	5.34	48	5.26	49						
1053	32905		32047		31122		30121		29025		27815		26356		15943		11570			
	6.66	57	6.87	56	7.08	56	7.30	55	7.54	54	7.76	57	7.93	60	7.16	58	7.92	58		
1159	36218		35439		34619		33754		32808		31786		30680		27883		16832		12914	
	8.88	67	9.11	66	9.34	64	9.57	62	9.82	60	10.09	59	10.33	58	10.69	56	9.67	55	10.51	60

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
HQ42	1-1/2 Hp	454 - 616	353	470
HQ42	2 Hp	519 - 709	357	475
HQ42	3 Hp	673 - 776	380	515
HQ42	5 Hp	756 - 920	392	527
HQ42	7-1/2 Hp	923 - 1053	421	540
HQ42	10 Hp	1009 - 1159	460	576

HQ48

PERFORMANCE DATA																				
CFM and Sones vs. Static Pressure																				
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		1.000"		1.250"		1.500"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
426	19010		15562																	
	0.71	16.1	0.89	16.3																
515	22990		20121		16898															
	1.26	24	1.50	23	1.64	24														
567	25316		22718		20075		12713													
	1.68	29	1.96	29	2.14	28	2.04	28												
678	30278		28134		25910		23599		19447											
	2.87	34	3.22	37	3.49	38	3.68	39	3.66	41										
770	34390		32569		30546		28635		26468		22957		14422							
	4.20	44	4.60	47	4.94	48	5.21	48	5.41	50	5.41	52	5.30	51						
881	39352		37853		36017		34295		32643		30811		28450							
	6.29	58	6.72	62	7.18	65	7.54	64	7.82	62	8.06	63	8.20	65						
970	43329		42010		40325		38751		37209		35713		34047		28636					
	8.40	72	8.86	76	9.41	80	9.82	80	10.18	79	10.48	78	10.74	79	10.78	82				

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
HQ48	1-1/2 Hp	426 - 515	428	556
HQ48	3 Hp	519 - 678	432	560
HQ48	5 Hp	606 - 770	470	597
HQ48	7-1/2 Hp	733 - 881	532	660
HQ48	10 Hp	817 - 970	540	670