Air Movement
SOURCE BOOK

ACME AIR MOVING SOLUTIONS



ACME

Est. 1938

Belt Drive Propeller Roof Ventilators
Models EC and ECH

Est. 1938

Includes the following Model/Options			
EC	General Ventilation	ECH	Supply Ventilation
ECH	Heavy Duty Ventilation	ECH-S	Heavy Duty Supply Ventilation

Propeller Roof Fans

Models EC and ECH are low silhouette belt drive propeller fans for exhaust or supply ventilation. Capacities up to 74,200 CFM and up to 7/8 inch static pressure. EC and ECH fans are designed for high capacity general ventilation. Typical applications include a wide range of commercial, industrial, and institutional facilities such as schools, hospitals, prisons, and assembly areas.



2 YEAR COMPREHENSIVE WARRANTY

5 YEAR BEARING & SHAFT WARRANTY

Standard Construction Features	EC	ECH	EC-S	ECH-S
Heavy Gauge Aluminum Hood and Frame	x	x	x	x
Bolt on Hood	x	x	x	x
Galvanized Birdscreen	x	x	x	x
Aluminum Propeller	x	x	x	x
NEMA 1 Disconnect Switch*	x	x	x	x
L50 Life Bearings	x	x	x	x
Variable Pitch Drives	x	x	x	x
Continuous Duty Motors	x	x	x	x
Exhaust Fan	x	x		
Supply Fan			x	x
UL705	x	x	x	x

Listed models are available in all sizes and performance ranges.
*Fans with EXP motors receive an EXP Disconnect not mounted or wired
For submittals, detailed air and sound information, available options and accessories, please go to FANtastic!® Commercial www.acmefan.com.

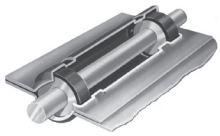
Construction Features

Housing
- Hood and framework constructed of heavy gauge aluminum
- Bolted-on hood provides easy access to motor drive compartment
- Large hood provides full perimeter opening for efficient air flow and weather protection
- Steel fasteners are zinc dichromate plated
- Welded tubular steel frame supports motor, propeller and drive assembly
- Heavy gauge galvanized wire birdscreen

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

Aluminum Propeller
- All welded heavy gauge aluminum propeller
- Non-overloading design for safe operation
- Precision balanced for smooth vibration free operation

Disconnect Switch
- Mounted over knock-out in orifice plate allowing convenient wiring to power source
- Explosion proof switch separate when explosion proof motors are selected.



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
- Pillow block bearings are standard on ECH72

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

Motors
- Continuous duty motors located in the airstream for cooler operation and longer life under continuous duty

Options/Accessories

- Roof Curbs
- Dampers
- Coatings
- Filters, vertical and horizontal
- Steel propeller

AMCA CERTIFIED RATINGS — SOUND AND AIR PERFORMANCE — AIR MOVEMENT AND CONTROL ASSOCIATION, INC.

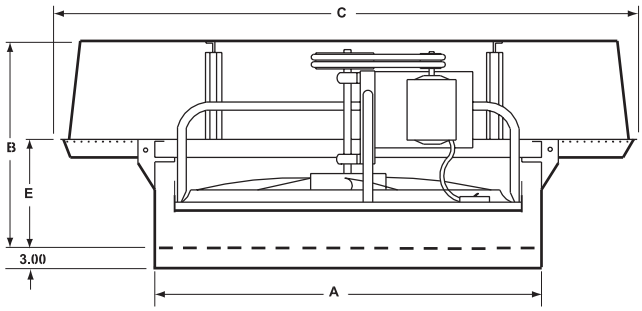
Acme Engineering & Manufacturing Corporation certifies that the models shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

c UL us **U.L. 705 Listed**

CSA Certified

Consult your Acme representative for availability.

Belt Drive Propeller Roof Ventilators
Models EC and ECH



DIMENSIONS									
Fan Model	A	B	B ■	C	C ■	E	Roof Opening*	Damper Model	Curb Model
ECH24	34.00	24.00	24.00	48.00	58.00	12.97	29.5 x 29.5	AR28	C32.5
EC30	40.00	24.25	25.75	58.00	68.00	13.75	35.5 x 35.5	AR34	C38.5
EC36	46.00	27.00	29.00	68.00	79.00	15.00	41.5 x 41.5	AR40	C44.5
ECH36	46.00	27.00	29.00	68.00	79.00	15.00	41.5 x 41.5	AR40	C44.5
EC42	54.00	28.50	33.50	79.00	90.00	17.50	49.5 x 49.5	AR48	C52.5
ECH42	54.00	31.00	33.50	79.00	90.00	17.50	49.5 x 49.5	AR48	C52.5
EC48	60.00	36.00	38.00	90.00	100.00	20.00	55.5 x 55.5	AR54	C58.5
ECH48	60.00	36.00	38.00	90.00	100.00	20.00	55.5 x 55.5	AR54	C58.5
ECH54	68.00	40.50	42.50	100.00	112.00	22.50	63.5 x 63.5	AR62	C66.5
ECH60	76.00	45.00	49.00	112.00	134.00	25.00	71.5 x 71.5	ARH70	C74.5
ECH72	88.00	54.00	NA	134.00	NA	27.00	83.5 x 83.5	ARH82	C86.5

■ For Supply Units with Filter Frames.
Dimensions are shown in inches.
*Recommended maximum.

Exhaust Fan

EC30

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
298	3957		1822		1141													
	0.08	0.9	0.08	4.8	0.08	4.7												
451	6005		4645		4353		2535											
	0.29	2.5	0.30	6.9	0.30	7.5	0.28	9.0										
495	6594		5330		5048		3401		1192									
	0.39	3.2	0.40	7.6	0.40	8.4	0.38	10.3	0.39	9.6								
569	7583		6487		6204		4998		3386		1297							
	0.59	4.5	0.60	8.9	0.60	9.8	0.60	12.5	0.57	11.7	0.60	10.9						
651	8679		7738		7483		6368		5280		3803		1926		377			
	0.88	5.2	0.89	9.2	0.89	9.7	0.90	12.0	0.88	13.8	0.85	12.4	0.88	12.1	0.98	8.7		
732	9761		8930		8714		7639		6730		5692		4326		2890		1188	
	1.25	6.4	1.26	10.4	1.27	10.9	1.28	13.3	1.28	16.1	1.24	17.1	1.21	17.9	1.24	17.6	1.31	15.0

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
EC30	1/4	298 - 451	200	237
EC30	1/3	333 - 495	200	237
EC30	1/2	415 - 569	205	240
EC30	3/4	441 - 651	210	250
EC30	1	488 - 732	225	256

EC36

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
273	5700		2675		1330													
	0.09	5.9	0.10	6.1	0.10	5.5												
370	7740		5814		5213		1262											
	0.23	10.4	0.24	9.9	0.24	10.5	0.26	9.1										
431	9022		7423		6979		4208		611									
	0.36	11.7	0.38	11.4	0.38	12.0	0.38	9.5	0.43	7.4								
495	10366		8993		8626		6431		3874		571							
	0.54	14.9	0.57	14.8	0.57	14.5	0.56	14.7	0.58	11.2	0.65	8.3						
575	12045		10884		10572		8910		6796		4661		1634					
	0.85	18.2	0.88	19.1	0.89	17.9	0.90	19.1	0.87	16.3	0.90	15.8	0.98	13.2				
634	13284		12230		11964		10524		8806		6774		4646		1940			
	1.14	21	1.18	19.8	1.18	21	1.20	19.6	1.20	23	1.19	19.0	1.20	19.9	1.30	17.4		

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
EC36	1/4	273 -370	272	297
EC36	1/3	285 - 431	275	300
EC36	1/2	337 - 495	280	307
EC36	3/4	380 - 575	286	311
EC36	1	428 - 634	293	318

The brake horsepower capability of a fan motor is dependent on the degree of cooling the motor receives from the moving air stream over the motor. The motor loading beyond the motor name plate rating on Acme built fans does not overheat the motor and is within NEMA recommended limits. It is therefore not detrimental to the motor and is economically desirable.

Performance certified is for Installation Type A: Free inlet, Free Outlet
Power Rating (BHP) does not include transmission losses.
Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown for Models EC and ECH are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels.

The sound ratings shown for Models EC-S and ECH-S are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Outlet hemispherical sone levels.

Exhaust Fan

EC42

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
230	7624		3390		1593													
	0.12	4.1	0.12	4.1	0.13	3.6												
342	11365		8984		8268		3819											
	0.39	8.9	0.41	8.4	0.41	8.8	0.41	8.9										
385	12800		10717		10156		6562		1905									
	0.55	11.1	0.58	10.3	0.58	10.4	0.58	11.2	0.63	9.4								
442	14700		12914		12434		9676		6379		2019							
	0.84	14.7	0.87	12.8	0.88	12.8	0.88	16.6	0.89	13.7	0.96	11.8						
485	16134		14525		14090		11754		8809		5545		1663					
	1.10	16.0	1.14	14.9	1.15	14.8	1.18	16.6	1.14	17.0	1.17	14.6	1.29	12.1				

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
EC42	1/3	230 - 342	375	400
EC42	1/2	258 - 385	380	407
EC42	3/4	300 - 442	385	411
EC42	1	312 - 485	390	418

EC48

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
221	10945		6094		4570													
	0.20	5.1	0.21	5.0	0.22	4.7												
308	15281		12282		11405		6052											
	0.55	9.7	0.58	11.0	0.59	10.3	0.58	9.0										
354	17572		14995		14311		10018		4004									
	0.84	12.8	0.88	12.9	0.88	13.3	0.86	11.9	0.90	11.4								
382	18965		16598		15964		12288		7847		2183							
	1.05	16.0	1.10	15.1	1.10	14.7	1.10	16.0	1.12	13.2	1.22	11.2						

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
EC48	1/2	221 - 308	526	556
EC48	3/4	241 - 354	530	560
EC48	1	258 - 382	537	567

The brake horsepower capability of a fan motor is dependent on the degree of cooling the motor receives from the moving air stream over the motor. The motor loading beyond the motor name plate rating on Acme built fans does not overheat the motor and is within NEMA recommended limits. It is therefore not detrimental to the motor and is economically desirable.

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The sound ratings shown for Models EC-S and ECH-S are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Outlet hemispherical sone levels.

Supply Fan

EC-S30

PERFORMANCE DATA CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
298	4185																	
	0.06	5.6																
451	6353		4289		3746													
	0.22	12.0	0.22	9.4	0.23	9.0												
495	6976		5192		4601													
	0.30	14.3	0.30	11.9	0.30	11.2												
569	8023		6632		6120		4144											
	0.45	17.7	0.46	16.5	0.46	15.4	0.49	14.7										
651	9182		8076		7680		5512		4239									
	0.68	22	0.69	21	0.69	21	0.69	16.9	0.74	19.3								
732	10327		9389		9098		7158		5675		4506							
	0.96	27	0.98	26	0.98	26	0.95	22	1.01	19.4	1.06	26						

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
EC-S30	1/4	298 - 451	217	237
EC-S30	1/3	333 - 495	220	240
EC-S30	1/2	415 - 569	225	245
EC-S30	3/4	441 - 651	230	250
EC-S30	1	488 - 732	232	256

EC-S36

PERFORMANCE DATA CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
273	6050		2333															
	0.10	7.2	0.12	6.2														
369	8194		5378		4177													
	0.25	13.0	0.27	10.6	0.26	10.2												
405	8998		7028		5468													
	0.33	14.0	0.36	11.7	0.34	10.6												
465	10336		8682		8207		4584											
	0.49	18.8	0.52	17.8	0.54	17.2	0.56	13.2										
575	12787		11527		11154		7895		5742									
	0.93	29	0.92	27	0.95	26	0.99	21	1.06	17.3								
585	13010		11771		11412		8616		5973									
	0.98	27	0.97	26	1.00	25	1.07	20	1.09	19.0								

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
EC-S36	1/4	273 - 369	270	297
EC-S36	1/3	285 - 405	275	300
EC-S36	1/2	337 - 465	280	307
EC-S36	3/4	380 - 575	285	311
EC-S36	1	428 - 585	290	318

The brake horsepower capability of a fan motor is dependent on the degree of cooling the motor receives from the moving air stream over the motor. The motor loading beyond the motor name plate rating on Acme built fans does not overheat the motor and is within NEMA recommended limits. It is therefore not detrimental to the motor and is economically desirable.

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The sound ratings shown for Models EC and ECH are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels.

The sound ratings shown for Models EC-S and ECH-S are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Outlet hemispherical sone levels.

Supply Fan

EC-S42

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
230	7605																	
	0.11	6.5																
342	11338		8326		7090													
	0.35	13.8	0.38	12.2	0.38	11.2												
385	12769		10249		9431		5067											
	0.50	17.0	0.54	15.4	0.54	15.2	0.57	13.5										
442	14666		12581		11941		7582											
	0.76	23	0.81	20	0.81	20	0.83	16.0										
485	16096		14281		13697		10113		6712									
	1.01	25	1.05	23	1.07	23	1.09	21	1.13	17.1								

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
EC-S42	1/3	230 - 342	375	400
EC-S42	1/2	258 - 385	380	407
EC-S42	3/4	300 - 442	385	411
EC-S42	1	312 - 485	390	418

EC-S48

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
221	10916		4642															
	0.19	7.3	0.21	6.2														
308	15243		11474		10086													
	0.50	14.1	0.54	11.8	0.54	10.9												
354	17529		14449		13478		7596											
	0.76	17.4	0.81	16.7	0.82	15.9	0.85	11.3										
382	18919		16149		15302		9498											
	0.96	23	1.01	19.9	1.02	20	1.04	14.1										

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
EC-S48	1/2	221 - 308	510	556
EC-S48	3/4	241 - 354	520	560
EC-S48	1	258 - 382	525	567

The brake horsepower capability of a fan motor is dependent on the degree of cooling the motor receives from the moving air stream over the motor. The motor loading beyond the motor name plate rating on Acme built fans does not overheat the motor and is within NEMA recommended limits. It is therefore not detrimental to the motor and is economically desirable.

Performance certified is for Installation Type A: Free inlet, Free Outlet
Power Rating (BHP) does not include transmission losses.
Performance ratings do not include the effects of appurtenances (accessories).

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The sound ratings shown for Models EC-S and ECH-S are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Outlet hemispherical sone levels.

Heavy Duty Exhaust Fan

ECH24

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
627	3258		2391		2055		1205											
	0.08	6.1	0.10	7.9	0.10	8.4	0.12	9.8										
950	4943		4475		4341		3449		2617		2099		1400		686			
	0.29	13.6	0.32	14.0	0.33	13.8	0.36	18.1	0.38	20	0.41	21	0.43	21	0.48	18.9		
1091	5678		5270		5167		4517		3599		2983		2528		2118		1293	
	0.44	15.4	0.47	16.1	0.48	15.8	0.53	18.0	0.54	25	0.58	26	0.62	27	0.64	28	0.68	27
1248	6496		6140		6050		5552		4887		4063		3519		3092		2720	
	0.65	20	0.69	19.7	0.70	19.5	0.76	21	0.81	27	0.81	26	0.86	23	0.91	25	0.94	26
1374	7153		6829		6747		6322		5794		5124		4374		3900		3501	
	0.87	22	0.91	22	0.93	23	0.98	23	1.05	22	1.10	29	1.09	35	1.14	36	1.20	38

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH24	1/3	627 - 950	176	196
ECH24	1/2	739 - 1091	180	203
ECH24	3/4	842 - 1248	182	206
ECH24	1	928 - 1374	189	214

ECH36

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
581	8753		7788		7499		5774		4519		3138		1416					
	0.59	12.6	0.63	13.9	0.63	14.4	0.63	19.6	0.68	22	0.75	24	0.84	21				
782	11787		11081		10902		9891		8656		7215		6401		5567		4483	
	1.45	22	1.50	23	1.51	23	1.55	25	1.54	26	1.54	34	1.62	38	1.71	40	1.80	41
861	12980		12338		12176		11304		10318		9081		7757		7089		6400	
	1.93	25	1.99	27	2.00	27	2.05	28	2.08	31	2.04	37	2.06	42	2.16	40	2.26	42
987	14881		14321		14179		13473		12642		11766		10687		9541		8642	
	2.91	32	2.97	34	2.99	34	3.07	35	3.11	38	3.13	43	3.08	45	3.08	44	3.15	47

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH36	1-1/2	581 - 782	385	411
ECH36	2	663 - 861	390	427
ECH36	3	706 - 987	395	435

The brake horsepower capability of a fan motor is dependent on the degree of cooling the motor receives from the moving air stream over the motor. The motor loading beyond the motor name plate rating on Acme built fans does not overheat the motor and is within NEMA recommended limits. It is therefore not detrimental to the motor and is economically desirable.

Performance certified is for Installation Type A: Free inlet, Free Outlet
Power Rating (BHP) does not include transmission losses.
Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown for Models EC and ECH are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels.

The sound ratings shown for Models EC-S and ECH-S are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Outlet hemispherical sone levels.

Heavy Duty Exhaust Fan

ECH42

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
450	12355		10856		10382		7856		5198		1388							
	0.56	11.1	0.61	11.5	0.63	11.9	0.65	14.8	0.71	16.0	0.80	12.7						
605	16619		15538		15265		13619		11738		9813		7704		5642		2513	
	1.36	19.4	1.44	21	1.46	21	1.54	21	1.57	24	1.59	26	1.65	27	1.80	27	1.91	23
666	18297		17314		17066		15681		14030		12287		10514		8584		6954	
	1.82	23	1.91	24	1.93	25	2.02	24	2.08	24	2.10	26	2.13	30	2.18	30	2.37	30
763	20964		20107		19890		18795		17425		15978		14457		12941		11316	
	2.74	25	2.84	27	2.86	28	2.96	29	3.07	30	3.12	32	3.16	35	3.18	39	3.22	39
904	24841		24118		23935		23021		22058		20900		19714		18436		17152	
	4.55	38	4.68	38	4.70	39	4.83	38	4.94	38	5.08	40	5.17	41	5.21	45	5.25	48

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH42	1-1/2	450 - 605	490	524
ECH42	2	473 - 666	500	530
ECH42	3	510 - 763	505	534
ECH42	5	734 - 904	510	548

ECH48

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
327	12358		10205		9618		6271		2347									
	0.41	7.7	0.46	10.1	0.47	10.2	0.52	10.7	0.60	10.0								
485	18346		16963		16611		14666		12557		10188		7974		5380		2390	
	1.34	16.3	1.46	18.1	1.47	18.4	1.53	21	1.58	19.6	1.66	22	1.75	23	1.86	23	2.04	19.9
532	20127		18867		18546		16813		15002		12895		10789		8779		6465	
	1.77	19.7	1.91	21	1.92	21	1.99	24	2.05	29	2.12	27	2.21	29	2.30	30	2.43	30
611	23119		22022		21745		20298		18747		17161		15372		13451		11687	
	2.68	26	2.85	25	2.88	25	2.97	28	3.04	32	3.11	31	3.19	27	3.28	28	3.38	29
723	27360		26434		26200		25024		23757		22447		21115		19736		18192	
	4.44	30	4.66	32	4.70	32	4.85	33	4.94	34	5.02	36	5.10	43	5.18	45	5.28	45

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH48	1-1/2	327 - 485	620	652
ECH48	2	358 - 532	633	663
ECH48	3	450 - 611	635	669
ECH48	5	564 - 723	650	683

The brake horsepower capability of a fan motor is dependent on the degree of cooling the motor receives from the moving air stream over the motor. The motor loading beyond the motor name plate rating on Acme built fans does not overheat the motor and is within NEMA recommended limits. It is therefore not detrimental to the motor and is economically desirable.

Performance certified is for Installation Type A: Free inlet, Free Outlet
Power Rating (BHP) does not include transmission losses.
Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown for Models EC and ECH are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels.

The sound ratings shown for Models EC-S and ECH-S are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Outlet hemispherical sone levels.

Heavy Duty Exhaust Fan

ECH54

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
218	12604		7866		6376													
	0.22	5.2	0.26	7.4	0.26	7.6												
347	20100		17565		16798		12647		8266		1708							
	0.89	12.3	0.98	14.4	1.00	14.7	1.04	17.5	1.14	18.2	1.28	13.5						
398	23061		20932		20315		16801		13014		9305		3397					
	1.35	16.1	1.45	17.2	1.47	18.5	1.56	20	1.58	17.3	1.73	19.2	1.89	16.6				
438	25383		23459		22958		19921		16562		12938		9610		4015			
	1.80	19.0	1.90	20	1.93	20	2.05	23	2.08	27	2.13	27	2.35	28	2.50	24		
502	29097		27426		26998		24549		21731		18822		15606		12677		8504	
	2.70	24	2.83	26	2.86	26	3.00	27	3.11	30	3.14	31	3.20	26	3.37	28	3.58	28
595	34493		33083		32727		30877		28668		26294		23791		21357		18570	
	4.50	31	4.65	31	4.68	31	4.87	35	5.03	36	5.17	38	5.21	45	5.23	42	5.32	34

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH54	1	218 - 347	745	795
ECH54	1-1/2	263 - 398	770	810
ECH54	2	299 - 438	770	812
ECH54	3	356 - 502	777	817
ECH54	5	468 - 595	790	831

ECH60

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
185	14629		8258		6449													
	0.23	4.6	0.27	4.8	0.28	5.3												
292	23138		19711		18692		12991		6041									
	0.90	11.1	1.00	13.1	1.02	13.0	1.06	11.3	1.20	12.1								
334	26475		23643		22754		17985		12667		6366							
	1.34	14.2	1.46	16.3	1.49	16.3	1.55	20	1.62	21	1.81	19.5						
368	29176		26645		25933		21738		17234		12689		6065					
	1.80	17.0	1.92	18.2	1.95	19.4	2.06	22	2.10	17.0	2.24	19.7	2.46	18.4				
421	33385		31172		30614		27228		23366		19403		15183		10226		4314	
	2.69	21	2.83	22	2.86	22	3.03	24	3.10	30	3.15	23	3.29	26	3.55	26	3.79	22
499	39577		37711		37240		34685		31705		28406		25102		21620		18054	
	4.48	29	4.64	29	4.69	30	4.91	32	5.08	33	5.15	36	5.20	38	5.29	32	5.46	34
571	45293		43662		43250		41190		38698		36077		33193		30300		27418	
	6.71	35	6.90	35	6.95	35	7.18	38	7.45	40	7.61	43	7.70	45	7.77	53	7.80	47
628	49818		48334		47960		46087		44048		41682		39257		36633		34002	
	8.93	42	9.13	42	9.19	42	9.45	43	9.73	47	9.99	49	10.14	52	10.24	53	10.32	62

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH60	1	185 - 292	850	906
ECH60	1-1/2	238 - 334	850	916
ECH60	2	276 - 368	860	941
ECH60	3	308 - 421	900	950
ECH60	5	390 - 499	900	956
ECH60	7-1/2	475 - 571	960	1070
ECH60	10	508 - 628	970	1085

The brake horsepower capability of a fan motor is dependent on the degree of cooling the motor receives from the moving air stream over the motor. The motor loading beyond the motor name plate rating on Acme built fans does not overheat the motor and is within NEMA recommended limits. It is therefore not detrimental to the motor and is economically desirable.

Performance certified is for Installation Type A: Free inlet, Free Outlet
Power Rating (BHP) does not include transmission losses.
Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown for Models EC and ECH are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels.

The sound ratings shown for Models EC-S and ECH-S are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Outlet hemispherical sone levels.

Heavy Duty Exhaust Fan

ECH72

PERFORMANCE DATA

CFM and Sones vs. Static Pressure

RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
169	23027		14920		12465													
	0.43	6.0	0.50	6.4	0.51	6.3												
246	33570		28711		27261		19194		9513									
	1.33	12.0	1.46	13.8	1.50	13.7	1.56	12.1	1.76	13.0								
271	36991		32752		31437		24340		16644		6573							
	1.78	13.8	1.93	16.2	1.96	16.2	2.06	20	2.18	20	2.46	18.2						
310	42326		38725		37734		31784		25407		18588		9713		190			
	2.66	17.4	2.84	19.0	2.88	21	3.04	22	3.09	24	3.29	25	3.60	23	3.92	8.6		
368	50257		47223		46457		41933		36752		31381		25614		20312		11893	
	4.44	23	4.66	25	4.71	25	4.95	28	5.10	31	5.16	33	5.31	34	5.71	35	6.01	32
421	57504		54852		54182		50587		46352		41699		37002		32116		26943	
	6.65	29	6.90	29	6.96	32	7.25	34	7.52	35	7.64	38	7.72	40	7.83	41	8.05	42
464	63382		60976		60369		57331		53562		49617		45354		41093		36737	
	8.91	35	9.17	35	9.24	35	9.58	37	9.88	39	10.13	44	10.25	46	10.33	51	10.42	51
531	72541		70439		69908		67253		64413		61058		57664		53950		50218	
	13.35	45	13.65	45	13.73	45	14.11	45	14.49	48	14.83	51	15.15	52	15.29	56	15.42	57

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH72	1-1/2	169 - 246	1200	1275
ECH72	2	183 - 271	1275	1300
ECH72	3	220 - 310	1275	1300
ECH72	5	287 - 368	1290	1320
ECH72	7-1/2	336 - 421	1350	1400
ECH72	10	372 - 464	1390	1430
ECH72	15	422 - 531	1470	1510

The brake horsepower capability of a fan motor is dependent on the degree of cooling the motor receives from the moving air stream over the motor. The motor loading beyond the motor name plate rating on Acme built fans does not overheat the motor and is within NEMA recommended limits. It is therefore not detrimental to the motor and is economically desirable.

Performance certified is for Installation Type A: Free inlet, Free Outlet
Power Rating (BHP) does not include transmission losses.
Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown for Models EC and ECH are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels.

The sound ratings shown for Models EC-S and ECH-S are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Outlet hemispherical sone levels.

Heavy Duty Supply Fan

ECH-S24

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
627	3185		2324		2004		1139											
	0.08	8.2	0.09	9.9	0.10	9.1	0.12	9.5										
950	4830		4448		4324		3328		2511		2072		1229					
	0.29	18.3	0.31	19.4	0.31	20	0.33	22	0.35	17.2	0.40	20	0.44	20				
1091	5548		5232		5137		4490		3510		2861		2472		2030		860	
	0.43	22	0.46	22	0.46	23	0.49	27	0.50	25	0.53	21	0.59	24	0.63	25	0.69	21
1248	6347		6078		6002		5545		4788		3959		3379		2987		2690	
	0.65	28	0.68	28	0.68	28	0.72	30	0.74	33	0.75	29	0.79	26	0.86	28	0.91	30
1374	6989		6750		6681		6295		5770		4957		4253		3746		3373	
	0.87	32	0.89	31	0.90	32	0.95	34	0.98	37	0.99	40	1.00	33	1.04	30	1.12	32

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH-S24	1/3	627 - 950	160	196
ECH-S24	1/2	739 - 1091	165	203
ECH-S24	3/4	842 - 1248	165	206
ECH-S24	1	928 - 1374	170	214

ECH-S36

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
581	10072		9131		8818		6801		4707									
	0.51	18.6	0.56	18.9	0.57	18.9	0.62	18.9	0.66	18.8								
782	13561		12914		12730		11638		10313		8407		6702		5832		4586	
	1.24	32	1.32	32	1.34	32	1.41	32	1.49	31	1.52	33	1.57	31	1.68	33	1.77	34
861	14933		14359		14193		13284		12172		10755		8950		7426		6643	
	1.65	36	1.74	36	1.76	37	1.85	36	1.93	35	2.02	37	2.02	39	2.09	36	2.21	38
987	17119		16630		16498		15755		14869		13897		12703		11207		9471	
	2.49	48	2.60	46	2.62	47	2.73	48	2.82	47	2.91	46	3.02	46	3.05	48	3.06	49

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH-S36	1-1/2	581 - 782	376	420
ECH-S36	2	663 - 861	380	423
ECH-S36	3	706 - 987	410	456

The brake horsepower capability of a fan motor is dependent on the degree of cooling the motor receives from the moving air stream over the motor. The motor loading beyond the motor name plate rating on Acme built fans does not overheat the motor and is within NEMA recommended limits. It is therefore not detrimental to the motor and is economically desirable.

Performance certified is for Installation Type A: Free inlet, Free Outlet
Power Rating (BHP) does not include transmission losses.
Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown for Models EC and ECH are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels.

The sound ratings shown for Models EC-S and ECH-S are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Outlet hemispherical sone levels.

Heavy Duty Supply Fan

ECH-S42

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
450	12109		10940		10508		7788											
	0.57	16.5	0.62	16.3	0.64	16.3	0.71	15.5										
605	16287		15458		15249		13732		11631		9608		7450					
	1.38	28	1.45	28	1.47	27	1.60	28	1.68	28	1.74	25	1.79	27				
666	17930		17178		16988		15837		14028		12158		10250		8300			
	1.84	34	1.92	32	1.94	32	2.05	33	2.20	32	2.26	32	2.32	29	2.38	31		
763	20544		19887		19721		18842		17614		15966		14297		12795		10837	
	2.76	44	2.86	44	2.88	45	2.99	45	3.16	45	3.31	45	3.39	46	3.46	46	3.51	48
904	24343		23788		23648		22948		22166		21149		19781		18370		16963	
	4.60	57	4.71	55	4.74	54	4.86	56	4.99	56	5.21	56	5.43	55	5.55	56	5.63	58

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH-S42	1-1/2	450 - 605	490	524
ECH-S42	2	473 - 666	490	524
ECH-S42	3	510 - 763	500	534
ECH-S42	5	734 - 904	505	548

ECH-S48

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
327	13671		11321		10356		5611											
	0.44	11.5	0.51	12.0	0.53	11.7	0.56	11.7										
473	19791		18390		18036		15344		11854		8593		5925					
	1.33	23	1.39	22	1.41	23	1.61	23	1.65	22	1.70	23	1.80	24				
521	21802		20530		20209		18110		14942		11753		9120		6768			
	1.78	26	1.85	26	1.86	26	2.06	27	2.20	26	2.21	26	2.28	27	2.40	27		
596	24944		23832		23551		21981		19883		16904		14187		11548		9494	
	2.66	32	2.74	34	2.76	33	2.91	34	3.19	35	3.30	35	3.30	32	3.36	30	3.46	32
707	29593		28656		28419		27235		25755		24028		21533		19256		16924	
	4.44	50	4.53	48	4.56	50	4.68	48	4.92	47	5.26	47	5.45	48	5.50	46	5.52	46

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH-S48	1-1/2	327 - 473	600	652
ECH-S48	2	358 - 521	610	663
ECH-S48	3	450 - 596	610	669
ECH-S48	5	564 - 707	630	683

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Performance certified is for Installation Type A: Free inlet, Free Outlet
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Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown for Models EC and ECH are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels.

The sound ratings shown for Models EC-S and ECH-S are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Outlet hemispherical sone levels.

Heavy Duty Supply Fan

ECH-S54

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
218	12558		6620		5602													
	0.20	6.9	0.25	6.5	0.27	7.1												
347	20021		17512		16686		10654		7193									
	0.80	16.7	0.91	16.9	0.93	17.0	0.99	15.7	1.14	17.7								
398	22969		20942		20273		16029		11068		7972							
	1.21	21	1.34	21	1.36	21	1.48	19.7	1.57	18.3	1.72	19.6						
438	25281		23512		22961		19640		14407		11342							
	1.61	24	1.76	24	1.78	24	1.92	25	1.98	24	2.17	25						
502	28980		27491		27069		24405		21014		16226		13527		11373			
	2.43	31	2.60	31	2.64	31	2.79	31	2.96	33	2.99	29	3.21	27	3.40	29		
595	34353		33160		32804		30869		28468		25672		21836		17966		16072	
	4.04	41	4.25	42	4.30	42	4.50	41	4.68	41	4.88	44	4.95	42	5.04	40	5.33	42

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH-S54	1	218 - 347	745	795
ECH-S54	1-1/2	263 - 398	760	810
ECH-S54	2	299 - 438	760	810
ECH-S54	3	356 - 502	765	817
ECH-S54	5	468 - 595	775	831

ECH-S60

PERFORMANCE DATA																		
CFM and Sones vs. Static Pressure																		
RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
185	14567		6972		5857													
	0.21	6.0	0.27	5.4	0.28	6.0												
292	23039		19746		18595		10975											
	0.81	14.7	0.92	15.3	0.94	15.4	1.05	12.9										
334	26362		23619		22813		16303		11286									
	1.21	18.1	1.34	18.7	1.37	19.0	1.48	21	1.64	22								
368	29051		26577		25919		20985		14431		11500							
	1.62	22	1.77	22	1.80	22	1.97	24	2.04	24	2.25	26						
421	33241		31079		30534		27133		21668		16290		13717					
	2.42	27	2.62	27	2.65	27	2.82	28	2.96	25	3.08	24	3.33	26				
499	39407		37584		37123		34717		31492		26823		21669		18361		16303	
	4.02	36	4.28	37	4.33	36	4.52	37	4.73	38	4.93	35	4.94	35	5.28	32	5.54	35
571	45098		43505		43102		41089		38781		35771		31778		27152		23079	
	6.03	45	6.34	46	6.40	47	6.64	46	6.86	47	7.11	47	7.38	50	7.40	48	7.54	46
628	49603		48154		47788		45958		44046		41692		38800		35136		30951	
	8.02	53	8.38	55	8.45	55	8.74	54	8.98	55	9.22	56	9.52	56	9.81	60	9.83	57

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH-S60	1	185 - 292	850	906
ECH-S60	1-1/2	238 - 334	855	916
ECH-S60	2	276 - 368	890	941
ECH-S60	3	308 - 421	900	950
ECH-S60	5	390 - 499	900	956
ECH-S60	7-1/2	475 - 571	1010	1070
ECH-S60	10	508 - 628	1020	1085

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Heavy Duty Supply Fan

ECH-S72

PERFORMANCE DATA

CFM and Sones vs. Static Pressure

RPM	0.000"		0.100"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
169	22923		13028		10460													
	0.39	7.5	0.48	6.9	0.51	6.8												
246	33410		28541		26989		15962											
	1.19	15.7	1.36	15.9	1.39	16.1	1.53	13.3										
271	36812		32638		31237		21520		14983									
	1.59	17.6	1.78	18.7	1.82	19.2	1.96	18.6	2.20	19.7								
310	42119		38695		37621		30779		21187		16896							
	2.38	22	2.62	23	2.66	24	2.90	26	3.00	22	3.32	25						
368	50010		47284		46485		41608		35107		26753		21851		18107			
	3.99	30	4.28	31	4.34	30	4.61	31	4.89	35	4.94	30	5.37	32	5.64	34		
421	57220		54935		54254		50393		45867		39617		32211		26701		23855	
	5.97	38	6.30	40	6.38	38	6.71	40	7.01	40	7.32	37	7.36	32	7.75	34	8.19	35
464	63068		61060		60459		57208		53201		48842		42696		35965		30562	
	7.99	45	8.36	47	8.45	47	8.84	46	9.17	48	9.55	47	9.80	44	9.84	40	10.20	40
531	72181		70426		69983		67320		64206		60627		56904		52001		46157	
	11.98	58	12.40	60	12.50	60	13.02	58	13.40	60	13.78	60	14.19	61	14.63	64	14.68	70

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
ECH-S72	1-1/2	169 - 246	1200	1275
ECH-S72	2	183 - 271	1225	1300
ECH-S72	3	220 - 310	1225	1300
ECH-S72	5	287 - 368	1235	1320
ECH-S72	7-1/2	336 - 421	1350	1400
ECH-S72	10	372 - 464	1370	1430
ECH-S72	15	422 - 531	1445	1510

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May 2022 Form C189J