

Air Movement SOURCE BOOK

ACME AIR MOVING SOLUTIONS

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ACME

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Est. 1938



Est. 1938

Belt Drive Propeller Wall Fans

Models K

Includes the following Model/Options			
K	General Purpose Wall Prop Exhaust Fan	KWBP	Wall Housing Prop Exhaust Fan
K-R	General Purpose Wall Prop Supply Fan	K-RWBP	Wall Housing Prop Supply Fan
KWCP	Wall Collar Prop Exhaust Fan	K-RWCP	Wall Collar Prop Supply Fan

Model K is a belt drive propeller wall fan. For exhaust applications, the K model has a maximum CFM of 79,340 and a maximum SP of 1.25 (in. wg.). For supply applications, the K-R model has a maximum CFM of 36,870 and a maximum SP of 1.25 (in. wg.). The K model exhaust fan with a wall box (WBP) or a wall collar (WCP) has a maximum CFM of 47,400 and a maximum SP of 1.25. While the K-R model supply fan with a wall box (WBP) or a wall collar (WCP) has a maximum CFM of 36,870 and a maximum SP of 1.25. The K family of wall props are designed to meet today's requirements for large air volumes at higher static pressures. Typical applications are in commercial and industrial buildings where either exhaust or supply air is needed.



Standard Construction Features	K	K-R	KWBP	K-RWBP	KWCP	K-RWCP
Welded Steel Tubing Frame	x	x	x	x	x	x
Streamlined Orifice	x	x	x	x	x	x
Aluminum Propeller	x	x	x	x	x	x
Bearings L50 Life of 200,000 Hours	x	x	x	x	x	x
Motor Side Guard			x	x		
Gravity Damper			x		x	
Motorized Damper				x		x
Wall Box			x	x		
Wall Collar					x	x
UL705	x	x	x	x	x	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

- Frame is heavy wall steel tubing for structural strength
- Deep rolled, streamlined orifice for efficient performance
- Fan is designed to operate in any position

Coating

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

Propeller

- Aluminum propeller using circular-arc blades to provide higher airflow capacity and smoother operation
- Blades are welded to hub
- Non-overloading design maintains uniform horsepower requirement within catalog range of static pressures
- Precision balanced for smooth, quiet performance

Bearings

- Self-aligning unitary pillow-block ball bearings
- Sized for high overload capacity and long trouble free operation
- Rated L50 life for 200,000 hours
- 2 year limited warranty on Acme pillow block bearings

Drives

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

Motors

- Continuous duty type have sealed ball bearings for longer life
- Mounted on rails for convenient belt tension

Options/Accessories

- Disconnect Switches
- Safety Guards
- Dampers
- Coatings
- Weather Hood (WHP) for both wall box and wall collar models only.



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.



U.L. 705 Listed

Consult your Acme representative for availability.



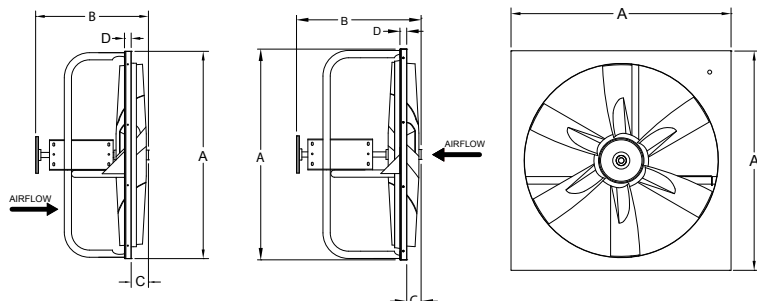
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Belt Drive Propeller Wall Fans Models K

Propeller Wall Fans

Exhaust Fan

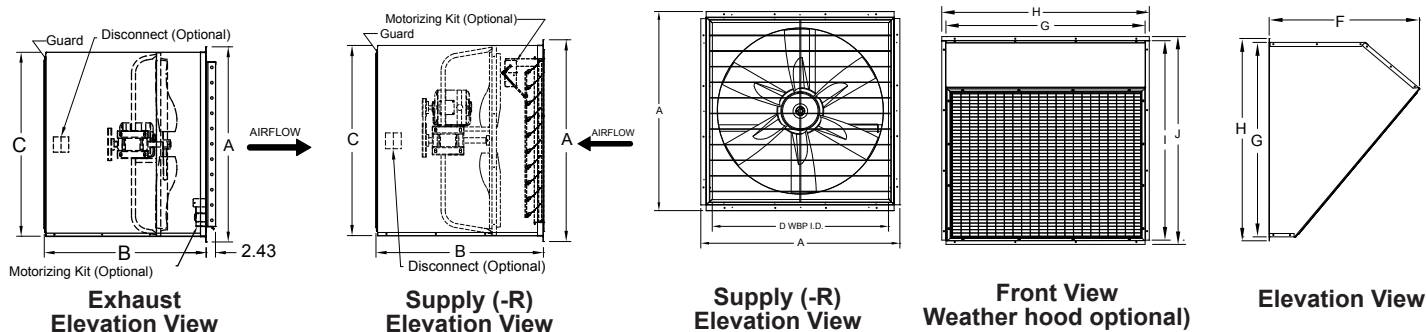
Supply Fan



Fan Model	A	DIMENSIONS				D
		B Max.		C		
		Exhaust	Supply	Exhaust	Supply	
K24	30.00	20.25	25.00	4.00	0	1.75
K30	37.50	26.00	29.00	5.75	0	1.75
K36	45.00	25.50	31.50	5.75	0	1.75
K42	52.50	30.00	32.00	5.00	0	2.00
K48	60.00	30.00	33.00	4.50	0	2.00
K54	67.50	30.75	NA	5.00	NA	2.00
K60	75.00	34.50	NA	6.00	NA	2.00
K72	90.00	35.00	NA	5.75	NA	2.50

Dimensions are shown in inches.

Acme's Wall Box Package

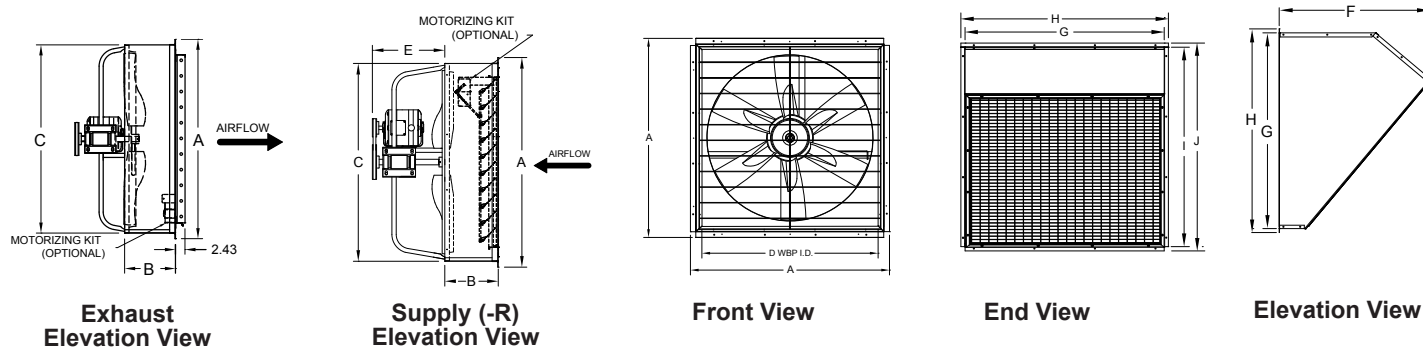


Fan Model	KWBP FAN					WHP (WEATHER HOOD)				
	A	B	C*	D	E	F	G	H	I	J
KWBP24	33.31	36.74	30.81	25.97	33.31	21.55	28.24	30.00	28.24	30.00
KWBP30 (-R)	40.78	46.87	38.28	32.44	40.78	26.67	34.80	36.56	34.80	36.56
KWBP36 (-R)	48.25	51.74	45.75	40.91	48.25	33.44	43.24	45.00	43.24	45.00
KWBP42 (-R)	55.80	48.86	53.30	48.00	55.80	40.40	50.70	52.60	50.70	52.60
KWBP48 (-R)	63.42	50.86	60.92	56.11	63.42	45.32	58.25	60.00	58.25	60.00
KWBP54 (-R)	70.75	57.09	68.25	63.41	70.75	52.88	66.03	68.17	66.03	68.17

Dimensions are shown in inches.

*C Dimension includes allowances for fasteners and assembly tolerances

Acme's Wall Collar Package



Fan Model	KWCP FAN					Front View		WHP (Weather Hood)				
	A	B	C*	E Exhaust	E (-R)	D	E	F	G	H	I	J
KWCP24	33.31	13.38	30.81	14.50	19.25	25.97	33.31	21.55	28.24	30.00	28.24	30.00
KWCP30 (-R)	40.78	13.13	38.58	18.50	27.25	32.44	40.78	26.67	34.80	36.56	34.80	36.56
KWCP36 (-R)	48.25	15.44	45.75	18.00	29.75	40.91	48.25	33.44	43.24	45.00	43.24	45.00
KWCP42 (-R)	55.80	16.37	53.30	23.00	30.00	48.50	55.80	40.40	50.70	52.60	50.70	52.60
KWCP48 (-R)	63.42	18.37	60.92	23.50	31.00	56.11	63.42	45.32	58.25	60.00	58.25	60.00
KWCP54 (-R)	70.75	19.83	68.25	23.75	NA	63.41	70.75	52.88	66.03	68.17	66.03	68.17

Dimensions are shown in inches.

*C Dimension includes allowances for fasteners and assembly tolerances

K24

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"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
705	3656		2898		1565													
	0.12	7.5	0.15	11.4	0.17	12.8												
950	4929		4432		3764		2557											
	0.30	13.2	0.34	16.9	0.37	20	0.39	22										
1090	5657		5225		4710		4006		2896		2343							
	0.45	15.9	0.50	19.8	0.54	23	0.57	26	0.60	27	0.65	28						
1250	6488		6111		5709		5215		4554		3494		2900					
	0.68	18.7	0.74	22	0.79	27	0.83	29	0.86	31	0.88	34	0.94	35				
1375	7137		6795		6450		6024		5551		4901		3878		2943			
	0.91	19.8	0.97	23	1.03	27	1.08	30	1.12	33	1.15	32	1.17	35	1.31	36		

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
K24	1/3	705 - 950	107	153
K24	1/2	740 - 1090	114	160
K24	3/4	900 - 1250	123	169
K24	1	930 - 1375	129	175

K30

PERFORMANCE DATA																	
CFM and Sones vs. Static Pressure																	
RPM	0.000"		0.125"		0.250"		0.375"		0.625"		0.750"		1.000"		1.250"		
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	Sones
532	5839		4620		2076		303										
	0.15	10.1	0.19	13.0	0.22	13.4	0.27	9.4									
748	8215		7436		6455		4155		1650		332						
	0.42	18.7	0.48	21	0.52	24	0.52	25	0.68	24	0.77	16.9					
856	9403		8741		8135		6829		3520		2475		231				
	0.63	23	0.70	24	0.75	26	0.78	30	0.88	28	0.98	27	1.16	17.0			
942	10348		9754		9158		8356		4893		3927		2005				
	0.84	24	0.92	27	0.97	31	1.03	34	1.06	34	1.16	35	1.37	33			
1078	11844		11330		10762		10326		8336		6475		4374		2727		
	1.26	32	1.36	36	1.42	40	1.48	43	1.55	48	1.54	53	1.76	51	2.00	50	
1187	13042		12580		12079		11605		10284		9241		6102		4601		
	1.68	35	1.80	39	1.87	43	1.94	46	2.07	51	2.08	52	2.12	50	2.39	51	

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
K30	1/2	532 - 748	150	190
K30	3/4	608 - 856	160	200
K30	1	628 - 942	165	205
K30	1-1/2	720 - 1078	175	220
K30	2	845 - 1187	182	235

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

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

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 nameplate 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.

Models numbers shown are for Exhaust Fans with standard direction of air flow (motor on intake side of propeller). To order Supply with direction of air flow reversed (motor on discharge side of propeller) add letter "R" to Model number. EXAMPLE: K-R54L. K54, 60 & 72 not available as supply type.

K36

PERFORMANCE DATA																
CFM and Sones vs. Static Pressure																
RPM	0.000"		0.125"		0.250"		0.375"		0.625"		0.750"		1.000"		1.250"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
522	9823		8437		5420		2980									
	0.35	11.2	0.42	13.0	0.43	16.9	0.53	16.3								
698	13140		12166		10982		9201		4559		2978					
	0.84	18.9	0.93	20	1.01	23	1.04	34	1.21	28	1.34	27				
799	15044		14205		13275		12082		7457		5957		3222		371	
	1.26	23	1.37	24	1.46	26	1.54	31	1.58	37	1.74	37	2.02	35	2.32	22
880	16570		15815		14992		14046		11107		8322		5686		3178	
	1.69	24	1.81	24	1.91	26	2.01	30	2.07	47	2.10	45	2.44	45	2.75	42
1007	18963		18313		17612		16867		14967		13634		9321		7002	
	2.52	30	2.67	30	2.80	32	2.91	33	3.09	46	3.11	66	3.17	54	3.58	54
1193	22468		21920		21345		20745		19467		18635		16672		13595	
	4.20	39	4.37	39	4.53	40	4.67	43	4.96	50	5.06	56	5.17	75	5.09	87

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
K36	1	522 - 698	210	280
K36	1-1/2	567 - 799	220	290
K36	2	594 - 880	226	296
K36	3	683 - 1007	256	326
K36	5	929 - 1193	282	352

K42

PERFORMANCE DATA																
CFM and Sones vs. Static Pressure																
RPM	0.000"		0.125"		0.250"		0.375"		0.625"		0.750"		1.000"		1.250"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
421	11424		9333		5799		4184									
	0.43	9.2	0.50	13.7	0.54	15.4	0.64	17.1								
620	16837		15485		14064		11969		7703		6644		3970		140	
	1.36	19.1	1.48	21	1.57	26	1.64	30	1.84	31	1.98	33	2.30	33	2.68	15.2
683	18550		17325		16102		14517		9839		8547		6677		3836	
	1.82	21	1.95	23	2.06	28	2.15	33	2.24	38	2.45	39	2.75	42	3.13	40
781	21214		20143		19056		17934		14472		12143		9651		8009	
	2.73	28	2.87	29	3.02	32	3.12	37	3.26	44	3.23	43	3.69	46	4.04	50
926	25156		24252		23340		22427		20319		19053		15144		12427	
	4.54	54	4.72	49	4.89	54	5.05	60	5.32	58	5.41	59	5.35	65	5.85	68

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
K42	1-1/2	421 - 620	226	391
K42	2	490 - 683	244	409
K42	3	552 - 781	274	438
K42	5	752 - 926	283	448

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Models numbers shown are for Exhaust Fans with standard direction of air flow (motor on intake side of propeller). To order Supply with direction of air flow reversed (motor on discharge side of propeller) add letter "R" to Model number. EXAMPLE: K-R54L. K54, 60 & 72 not available as supply type.

K48

PERFORMANCE DATA																
CFM and Sones vs. Static Pressure																
RPM	0.000"		0.125"		0.250"		0.375"		0.625"		0.750"		1.000"		1.250"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
358	15079		11920		6714		3712									
	0.47	14.9	0.54	17.1	0.57	19.5	0.72	20								
511	21539		19592		17122		12242		7901		5648					
	1.36	29	1.48	34	1.56	32	1.54	34	1.83	39	2.06	39				
562	23692		21948		19875		17035		10435		8774		3956			
	1.81	33	1.97	34	2.05	34	2.09	35	2.20	36	2.42	38	2.95	35		
643	27110		25608		23913		21918		14633		12647		9826		5845	
	2.71	38	2.92	38	3.00	39	3.10	39	3.10	41	3.22	42	3.66	45	4.26	44
763	32173		30925		29577		28092		24484		20698		15660		13254	
	4.52	57	4.81	59	4.93	63	5.04	66	5.25	63	5.07	66	5.31	66	5.72	70
874	36857		35775		34632		33418		30672		29034		23135		18608	
	6.80	66	7.14	66	7.35	66	7.43	64	7.74	65	7.84	66	7.59	76	7.90	74

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
K48	1-1/2	358 - 511	258	455
K48	2	404 - 562	265	462
K48	3	500 - 643	344	541
K48	5	596 - 763	364	561
K48	7-1/2	700 - 874	425	622

K54

PERFORMANCE DATA																
CFM and Sones vs. Static Pressure																
RPM	0.000"		0.125"		0.250"		0.375"		0.625"		0.750"		1.000"		1.250"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
283	16930		11893		5621											
	0.42	10.7	0.48	12.8	0.57	13.7										
421	25211		22510		19029		12351		5975		2227					
	1.37	23	1.51	23	1.58	25	1.57	25	2.04	26	2.32	22				
463	27730		25321		22302		16377		10492		6763					
	1.82	26	1.99	26	2.08	27	2.00	28	2.37	31	2.70	30				
530	31748		29688		27284		24517		15040		13326		7279		1348	
	2.72	33	2.96	33	3.06	34	3.16	35	3.20	36	3.40	38	4.11	37	4.80	26
628	37624		35904		34038		31900		25346		20257		16468		12064	
	4.53	44	4.84	44	4.98	45	5.12	46	5.16	51	4.99	49	5.55	53	6.27	54
719	43079		41595		40011		38290		34271		32042		22789		19413	
	6.80	56	7.19	57	7.41	56	7.52	56	7.82	58	7.89	62	7.53	60	8.21	63
792	47455		46111		44696		43202		39825		37868		31523		24375	
	9.09	66	9.52	67	9.81	68	9.97	68	10.30	68	10.45	70	10.29	78	10.20	75

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
K54	1-1/2	283 - 421	376	585
K54	2	329 - 463	382	591
K54	3	420 - 530	449	658
K54	5	489 - 628	472	681
K54	7-1/2	588 - 719	529	738
K54	10	626 - 792	583	792

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K60

PERFORMANCE DATA																
CFM and Sones vs. Static Pressure																
RPM	0.000"		0.125"		0.250"		0.375"		0.625"		0.750"		1.000"		1.250"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
269	22019		16560		8667		2067									
	0.60	11.2	0.70	13.3	0.77	14.5	1.01	11.8								
389	31869		28649		24412		16243		8853		4216					
	1.82	22	2.00	24	2.10	26	2.05	26	2.61	28	2.96	25				
445	36463		33710		30425		25963		15861		12299		4242			
	2.72	28	2.96	29	3.09	30	3.14	34	3.34	35	3.69	35	4.49	30		
528	43271		40993		38447		35488		24502		20736		16051		9345	
	4.54	38	4.88	38	5.02	39	5.19	41	4.99	42	5.30	44	5.97	46	6.90	44
604	49504		47535		45404		43049		37320		30985		23393		19698	
	6.79	47	7.24	49	7.43	50	7.59	51	7.88	54	7.55	53	8.00	55	8.69	58
665	54507		52734		50846		48805		44055		41270		30531		25248	
	9.07	57	9.61	58	9.86	60	10.00	60	10.40	62	10.52	64	9.98	63	10.80	66
761	62380		60830		59210		57515		53763		51686		46857		36929	
	13.59	70	14.20	72	14.60	74	14.83	75	15.24	77	15.49	78	15.76	82	14.94	98

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
K60	2	269-389	498	769
K60	3	333-445	525	736
K60	5	423 - 528	545	816
K60	7-1/2	491 - 604	597	868
K60	10	556 - 665	653	924
K60	15	634 - 761	724	995

K72

PERFORMANCE DATA																
CFM and Sones vs. Static Pressure																
RPM	0.000"		0.125"		0.250"		0.375"		0.625"		0.750"		1.000"		1.250"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
234	32967		25639		14297		5417									
	0.98	12.6	1.13	14.8	1.20	16.2	1.56	15.1								
329	46384		41839		35892		24203		13904		7174					
	2.72	24	2.98	26	3.14	27	3.04	28	3.84	30	4.37	28				
390	54996		51266		46872		41362		25780		22098		10816		24	
	4.52	32	4.93	34	5.09	34	5.26	36	5.35	38	5.76	39	7.02	37	8.24	8.2
447	63042		59820		56246		52117		35808		31205		24831		14966	
	6.81	41	7.32	41	7.52	42	7.76	43	7.49	44	7.79	46	8.75	49	10.20	47
492	69394		66488		63340		59823		51010		39998		32409		26076	
	9.08	47	9.68	49	9.95	50	10.18	51	10.58	55	10.00	53	10.76	57	11.89	60
563	79414		76903		74240		71383		64734		60851		44724		38187	
	13.60	61	14.36	61	14.81	63	14.97	63	15.56	66	15.78	69	14.98	67	15.85	71

Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
K72	3	234 - 329	715	1028
K72	5	305 - 390	735	1048
K72	7-1/2	334 - 447	805	1118
K72	10	396 - 492	842	1155
K72	15	440 - 563	916	1229

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

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

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 nameplate 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.

Models numbers shown are for Exhaust Fans with standard direction of air flow (motor on intake side of propeller). To order Supply with direction of air flow reversed (motor on discharge side of propeller) add letter "R" to Model number. EXAMPLE: K-R54L. K54, 60 & 72 not available as supply type.

Your Representative is

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