

Air Movement SourceBook

ACME AIR MOVING SOLUTIONS

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SYMBOL
OF QUALITY

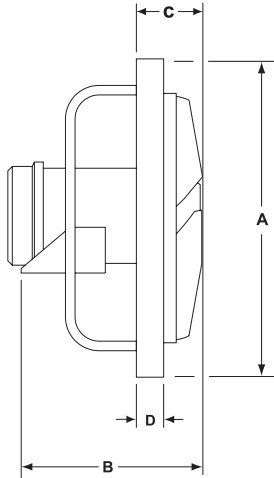


Direct Drive Propeller Wall Fans

Models FN and FQ



Models FN and FQ are high capacity direct drive propeller wall fans designed to deliver large volumes of air at relatively low static pressures. Typical applications include manufacturing and assembly facilities, warehouses, parking garages, sports and agricultural facilities.



EXHAUST FAN DIMENSIONS				
Fan Model	A	B	C	D
FQ09	14.00	7.57	2.06	1.83
FQ10	14.00	7.57	2.06	1.83
FQ12	18.00	15.00	4.50	1.54
FQ14	18.00	15.00	4.50	1.54
FN14	18.00	11.00	3.75	1.50
FQ16	23.00	19.00	5.50	1.50
FN16	23.00	13.00	4.50	1.50
FQ18	23.00	19.00	5.50	1.50
FN18	23.00	13.00	4.50	1.50
FQ21	26.50	17.25	6.00	1.50
FN21	26.50	15.00	5.00	1.75
FQ24	30.00	20.00	6.50	1.75
FN24	30.00	17.50	6.00	1.75
FQ30	37.50	26.25	7.50	1.75
FN30	37.50	22.44	8.00	1.75
FQ36	45.00	24.75	8.00	1.63
FN36	45.00	20.00	9.00	1.75
FN42	60.00	24.00	2.88	3.06
FN48	64.00	25.50	3.00	3.06

SUPPLY FAN DIMENSIONS				
Fan Model	A	B	C	D
FQ-R12	18.00	16.75	3.25	1.50
FQ-R14	18.00	16.75	3.25	1.50
FN-R14	18.00	13.50	1.50	1.50
FQ-R16	23.00	21.75	4.00	1.50
FN-R16	23.00	19.00	1.50	1.50
FQ-R18	23.00	21.75	4.00	1.50
FN-R18	23.00	19.00	1.50	1.50
FQ-R21	26.50	22.00	2.75	1.75
FN-R21	26.50	22.00	1.75	1.75
FQ-R24	30.00	21.00	1.50	1.75
FN-R24	30.00	25.00	1.75	1.75
FQ-R30	37.50	27.88	4.50	1.75
FN-R30	37.50	25.12	1.75	1.75
FQ-R36	45.00	25.25	5.00	1.75
FN-R36	45.00	30.00	1.75	1.75
FN-R42	60.00	30.50	2.00	3.06
FN-R48	64.00	32.25	2.50	3.06

Dimensions are shown in inches.

U.L. 705 Listed

CSA Certified

Consult your Acme representative for availability.

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.

Construction Features

Model FN

- Capacities range up to 22,400 CFM
- Up to 1 inch static pressure
- Available in 9 sizes from 14" to 48"
- Available for either exhaust or supply ventilation
- Precision balanced heavy duty all welded aluminum propeller with tapered, circular arc airfoil blades



FN MODEL

Model FQ

- Capacities up to 17,800 CFM
- Up to 7/8 inch static pressure
- Available for either exhaust or supply ventilation except models FQ98, 108, 129 and 1210 for exhaust only
- Precision balanced aluminum propeller with advanced teardrop blade design for exceptionally low noise and minimum air turbulence



FQ MODEL

Other Features

Frame and Orifice

- Constructed of all welded heavy gauge steel with acrylic epoxy coating
- Deep rolled, streamlined orifice for efficient performance
- Heavy wall steel tube frame for extra strength
- Designed to operate in any position

Motors

- Totally enclosed continuous duty type with sealed ball bearing

Finish

- Gray acrylic epoxy finish is standard on all steel parts

Options/Accessories

- Safety Guards
- Solid State Controllers
- Dampers
- Wall Collars
- Coatings

Fast Ship Program	Next Day
FQ098, FQ108, FQ1210, FQ129, FQ14C6, FQ16C6, FQ18G6	•
Standard w/BA Guard	

Consult factory for specific motor availability.

PERFORMANCE DATA																
Fan Model	RPM	Tip Speed Ft/Min	HP	Sones @ .100"SP	CFM vs. Static Pressure										Max. BHP	Est. Ship Wt. lbs.
					.000"	.100"	.125"	.250"	.375"	.500"	.625"	.750"	.875"	1.000"		
FQ098LO	1500	3435	1/28	8.0	3455	355										
FQ098HI	1650	3780	1/28	10.0	500	410	385								* 70	15
FQ108LO	1500	3925	1/28	6.0	620	530	505									17
FQ108HI	1650	4320	1/28	6.0	685	600	580								*120	17
FQ1210LO	980	3030	1/28	4.0	870	645	565								.027	27
FQ1210HI	1060	3280	1/28	4.0	940	750	685								.034	27
FQ129LO	1350	4180	1/8	5.0	1200	1075	1030								.069	27
FQ129HI	1550	4795	1/8	6.0	1380	1280	1245	1035							.105	27
FQ12D4	1760	5445	1/6	8.0	1565	1475	1450	1295	1090						.158	29
FQ14C6	1160	4150	1/8	7.0	1625	1440	1375								.100	32
FQ14F4	1760	6295	1/3	14.0	2460	2380	2350	2170	1940						.353	35
FN14D4	1760	6450	1/6	14.0	1880	1780	1750	1600	1430						.208	32
FN14E4	1760	6450	1/4	14.0	2160	2050	2020	1850	1640	1300	965	760			.300	35
FQ16C6	1160	4800	1/6	8.0	2180	2020	1960	1620							.148	37
FQ16F4	1760	7280	1/3	16.0	2580	2490	2460	2320	2150	1850					.390	40
FQ16H4	1760	7280	3/4	17.0	3710	3600	3570	3430	3240	3010	2770				.685	40
FN16F4	1760	7370	1/3	17.0	3200	3030	2980	2740	2480	2170	1500	1350			.393	36
FQ18E6	1160	5505	1/4	9.0	3210	2960	2890	2500							.253	40
FQ18G6	1160	5505	1/2	12.0	4030	3720	3640	3300	2730						.470	48
FQ18H4	1760	8350	3/4	17.0	4870	4720	4670	4450	4220	3960	3700	3350			.870	48
FN18G4	1760	8290	1/2	21	4170	4000	3960	3760	3520	3250	2950	2520	2040		.571	33
FQ21G6	1160	6325	1/2	13.0	5250	5020	4950	4550	4080						.610	83
FQ21K4	1760	9595	1 1/2	24	6750	6570	6530	6300	6050	5780	5490	5160	4700		1.510	91
FN21J4	1760	9670	1	30	6330	6150	6100	5860	5600	5320	5020	4690	4290	3800	1.089	68
FN21K4	1760	9670	1 1/2	30	8150	7930	7880	7590	7250	6880	6440	5840			1.712	82
FQ24F8	860	5430	1/3	10.0	5550	5110	4990	4200							.389	93
FQ24H6	1160	7325	3/4	14.0	7140	6820	6750	6260	5660	4850					.882	93
FN24J6	1160	7280	1	23	8150	7760	7660	7080	6350						.980	121
FN24J4	1760	11050	1	39	6420	6220	6190	5950	5700	5450	5170	4870	4530	4180	1.070	85
FN24L4	1760	11050	2	40	9590	9400	9360	9110	8870	8590	8210	7950	7600	7200	2.100	99
FQ30H8	860	6700	3/4	18	8860	8310	8150	7330	6380						.830	132
FQ30K8	860	6700	1 1/2	14.0	11600	10970	10800	9950	9000						1.370	168
FQ30M6	1160	9035	3	21	15100	14660	14570	13980	13330	12610	11900	11130			3.060	174
FN30L6	1160	9110	2	30	12450	12100	12000	11500	10900	10300	9580	8720	7750		1.96	175
FN30M6	1160	9110	3	31	16040	15500	15420	14750	14000	13150	12050				3.03	213
FQ36K8	860	8020	1 1/2	21	14450	13800	13620	12580	11570						1.640	197
FQ36L8	860	8020	2	22	17800	17000	16800	15800	14700	13300					2.420	203
FN36K8	860	8100	1 1/2	27	13160	12650	12520	11800	10950	9900	8500	6600	5250	4000	1.66	199
FN36L6	1160	10930	2	43	14280	13920	13820	13300	12700	12050	11400	10700	10000		2.26	204
FN36M6	1160	10930	3	43	17740	17360	17270	16780	16200	15600	15000	14300			3.14	244
FN42K8	860	9456	1 1/2	32	17560	16700	16340	14970							1.80	212
FN42L8	860	9456	2	33	19400	18600	18220	16980							2.26	222
FN42M8	860	9456	3	43	22320	21650	21450	20460	19000	16250					3.45	230
FN48K8	860	10800	1 1/2	36	17120	15900	15530	13950	12400	10640	9025	7420	6000	4300	1.71	223
FN48L8	860	10800	2	39	19340	18200	17930	16550	15060	13360	11630	9900	8240	6840	2.19	233
FN48M8	860	10800	3	41	22400	21600	21440	20360	18940	17170	15260	13110	11285	10090	3.01	241

Performance shown is for installation Type A: Free inlet, Free Outlet. The sound ratings shown are loudness values in fan sones at 5 feet (1.524m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan sone levels.

Performance ratings do not include the effects of appurtenances in the airstream on models FQ12 through FQ48. Performance ratings include the effect of a back guard (motor side) on models FQ09 and FQ10.

Model numbers shown are for Exhaust Fans with standard direction of airflow (motor on intake side of propeller). To order Supply Fans with direction of airflow reversed (motor on discharge side of propeller) add letter "R" to the model number; example: FN-R14. The brake horsepower capability of a fan motor is dependent on the degree of cooling the motor receives from the moving airstream over the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is within NEMA recommended limits. It is therefore not detrimental to the motor and is economically desirable.

*Watts



TERMS AND CONDITIONS

ACCEPTANCE All orders and sales are subject to written approval and acceptance by an executive officer of Acme Engineering & Manufacturing Corporation at Muskogee, Oklahoma, and are not binding on the Company until so approved.

DELIVERY Delivery of the equipment herein specified shall be made F.O.B. point of shipment, unless otherwise stated. The Company shall not be liable for delay due to causes beyond its reasonable control, such as Acts of God, acts of the purchaser, acts of civil or military authorities, priorities, fires, strikes, floods, epidemics, war, riots, delays in transportation, car shortages, and inability, due to reasons beyond its reasonable control, to obtain necessary labor, material, or manufacturing facilities. In the event of such a delay, the date of delivery shall be extended for a period equal to the time lost by reason of the delay.

TERMS OF PAYMENT If, in the judgment of the Company, the financial condition of the purchaser at any time does not justify continuation of manufacture or shipment on the terms of payment specified, the Company may require full or partial payment in advance.

Pro rata payments shall become due as shipments are made. Each shipment or delivery shall constitute a separate sale, and the default of any shipment or delivery shall constitute a separate sale, and the default of any shipment or delivery shall not vitiate the contract as to other shipments or deliveries.

PRICE ADJUSTMENT In the event of a price change prior to completion of this offer, price will be that prevailing at time of shipment.

SALES AND SIMILAR TAXES The Company's prices do not include sales, use, excise, or similar taxes. Consequently, in addition to the price specified herein, the amount of any present or future sales, use, excise, or other similar tax applicable to the sale of the equipment herein shall be paid by the Purchaser, or in lieu thereof the Purchaser shall provide the Company with a tax exemption certificate acceptable to the taxing authorities.

CANCELLATION Any contract resulting from this quotation may be cancelled by the Purchaser only by negotiations and upon payments of reasonable cancellation charges which will take into account expenses already incurred and commitments made by the Company.

DESIGN CHANGES The company reserves the right to make changes in design, improvements and additions in and to its products any time without imposing any liability or obligations to itself to apply or install the same in any product manufactured by it.

TITLE The title and right of possession of the equipment sold herein shall remain with the Company and such equipment shall remain personal property until all payments herein (including deferred payments whether evidenced by notes or otherwise) shall have been made in full in cash and the Purchaser agrees to do all acts necessary

to perfect and maintain such right and title in the Company.

PRICE ADJUSTMENTS AND PROTECTION Prices on equipment manufactured by the Company are firm for shipment up to four months from the date of the original order entry. Such prices are subject to adjustment if shipment is made after four months and up to ten months from the date of the original order entry, if equipment is shipped ten months from the date of the original order entry, prices will be adjusted to the price in effect at the time of shipment automatically. All complete component accessory material manufactured by others and furnished with the Company's equipment such as motors, drives, vibration equipment, controls or other completely assembled component structures, are subject to adjustment to the price at time of shipment regardless of the date of original order entry.

SAFETY ACCESSORIES The Company manufactures equipment designed to serve multiple applications and offers a wide range of safety equipment, including guards and other devices, as may be required to meet customer specifications. Without exception, the Company recommends that all orders include applicable safety devices. Equipment ordered without applicable safety devices is clearly the responsibility of the Purchaser. Further, the Purchaser warrants that he has determined and acquired any and all safety devices required for equipment sold by the Company. Weather covers and guards for motor and V-belt drives, couplings, shafts and bearings, along with inlet and outlet screens, are optional accessories noted in the price list.

WARNING Acme products are designed and manufactured to provide reliable performance but they are not guaranteed to be 100% free of defects. Even reliable products will experience occasional failures and this possibility should be recognized by the User. If these products are used in a life support ventilation system where failure could result in loss or injury, the User should provide adequate back-up ventilation, supplementary natural ventilation or failure alarm system, or acknowledge willingness to accept the risk of such loss or injury.

WARNING DO NOT use in HAZARDOUS ENVIRONMENTS where fan's electrical system could provide ignition to combustible or flammable materials unless unit is specifically built for hazardous environments.

CAUTION Guards must be installed when fan is within reach of personnel or within seven (7) feet (2.134 m) of working level or when deemed advisable for safety.

DISCLAIMER The Company has made a diligent effort to illustrate and describe the products in this literature accurately; however, such illustrations and descriptions are for the sole purpose of identification, and do not express or imply a warranty that the products are merchantable, or fit for a particular purpose, or that the products will necessarily conform to the illustrations or descriptions or dimension.

LIMITED WARRANTY

WARRANTY AND DISCLAIMER: Acme Engineering and Manufacturing Corporation extends this limited warranty to the original buyer and warrants that products supplied by the Company, shall be free from original defects in workmanship and materials for two years from date of shipment (except for the warranty periods noted for products in the paragraph immediately following), provided same have been properly handled, stored, installed, serviced, maintained and operated. This warranty shall not apply to products which have been altered or repaired without the Company's express authorization, or altered or repaired in any way so as, in the Company's judgment, to affect its performance or reliability, nor which have been improperly installed or subjected to misuse, negligence, or accident, or incorrectly used in combination with other substances. Evaporative cooling pads are warranted to be free of defects in materials and workmanship for a period of two years from date of shipment provided same have been properly handled, stored, installed, serviced, maintained and operated; and further, not subjected to excessive heat, corrosive agents or chemicals, or mechanical abuse that may cause tearing, crushing or undue deterioration, nor used on a system or in a manner other than that for which it was designed as explained in the product literature. The Buyer assumes all risks and liability for results of use of all products.

Acme's exclusive duplex split pillow block bearings and shaft are warranted to be free of defects in materials and workmanship for a period of five years from date of shipment. Belts are warranted to be free of defects in materials and workmanship for a period of one year from date of shipment. Polyethylene tubing is warranted to be free of defects in materials and workmanship for a period of 90 days from date of shipment.

LIMITATION OF REMEDY AND DAMAGES: All claims under this warranty must be made in writing and delivered to P. O. Box 978, Muskogee, Okla-

homa, 74402, within 15 days after discovery of the defect and prior to the expiration of two years from the date of shipment by the Company of the product claimed defective, and Buyer shall be barred from any remedy if Buyer fails to make such claim within such period.

Within 30 days after receipt of a timely claim, the Company shall have the option either to inspect the product while in Buyer's possession or to request Buyer to return the product to the Company at Buyer's expense for inspection by the Company. The Company shall replace, or at its option repair, free of charge, any product it determines to be defective, and it shall ship the repaired or replacement product to Buyer F.O.B. point of shipment; provided, however, if circumstances are such as in the Company's judgment to prohibit repair or replacement to remedy the warranted defects, the Buyer's sole and exclusive remedy shall be a refund to the Buyer of any part of the invoice price, paid to the Company, for the defective product or part.

The Company is not responsible for the cost of removal of the defective product or part, damages due to removal, or any expenses incurred in shipping the product or part to or from the Company's plant, or the installation of the repaired or replaced product or part.

Implied warranties, when applicable, shall commence upon the same date as the express warranty provided above, and shall, except for warranties of title, extend only for the duration of the express warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. The only remedy provided to you under an applicable implied warranty and the express warranty shall be the remedy provided under the express warranty, subject to the terms and conditions contained therein. The Company shall not be liable for incidental and consequential losses and damages under the express warranty, any applicable implied

warranty, or claims for negligence, except to the extent that this limitation is found to be unenforceable under applicable state law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

No employee, agent, dealer, or other person is authorized to give any warranties on behalf of the Company or to assume for the Company any other liability in connection with any of its products except in writing and signed by an officer of the Company.

REPLACEMENT PARTS If replacement parts are ordered, buyer warrants that the original components in which these replacement parts will be placed are in satisfactory working condition, and when said replacement parts are installed, the resultant installation will operate in a safe manner, at speeds and temperatures for which the original equipment was purchased.

TECHNICAL ADVICE AND RECOMMENDATIONS, DISCLAIMER: Notwithstanding any past practice or dealings or any custom of the trade, sales shall not include the furnishing of technical advice or assistance or system design. Any such assistance shall be at the Company's sole option and may be subject to additional charge.

The Company assumes no obligation or liability on account of any recommendations, opinions or advice as to the choice, installation or use of products. Any such recommendations, opinions or advice are given and shall be accepted at your own risk and shall not constitute any warranty or guarantee of such products or their performance.

GENERAL In no event shall any claim for consequential damages be made by either party. The Company will comply with all applicable Federal, State, and local laws.

Your Representative is

ACME ENGINEERING & MANUFACTURING CORPORATION
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