

# MIXED-FLOW FANS

## Model QBMX

**An inline mixed-flow fan  
that utilizes both Axial and  
Centrifugal advantages!**



*Est. 1938*

ACME ENGINEERING & MANUFACTURING CORPORATION / MUSKOGEE, OKLAHOMA

[www.acmefan.com](http://www.acmefan.com)

# Quality and Service that will Blow you Away!

## Industry Leadership

Founded in 1938, Acme Engineering and Manufacturing Corporation is known worldwide as a leader in the manufacture of fans, blowers, and ventilation equipment. Acme's growth over the past half century is a tribute to superior quality, customer loyalty, and dedicated employees and sales representatives.

Today, from its headquarters in Muskogee, Oklahoma, Acme serves customers worldwide with high quality air movement and control products.

## Manufacturing

With approximately 350,000 square feet of manufacturing space, Acme produces one of the broadest lines of air moving equipment in the industry. State-of-the-art manufacturing equipment and a well trained, experienced workforce is the key to Acme's timely delivery of quality air moving products.

## Engineering

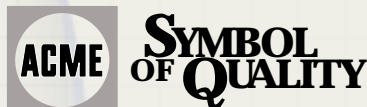
The Acme Research and Engineering Center operates both air and sound laboratories. The Center houses four wind tunnels with a data acquisition system, a reverberant sound room with the latest sound analyzer equipment, and a structural laboratory for stress and vibration analysis. Solid modeling, and finite element analysis support product research and development. The Center also houses a fully equipped prototype facility enabling Acme to develop and introduce new products to the market in the shortest time possible.

## Sales & Service

A factory trained, knowledgeable sales organization addresses the needs of many diverse and distinct markets. Customers around the world are serviced by a complete system of sales representatives, equipment distributors and local dealers supported by nationwide distribution centers and backed by a staff of sales and marketing professionals.

## Quality

A highly trained engineering and production staff set the standard for dependable, quality air moving products. By using the latest computer techniques for research and design, and rigorous quality control standards Acme can offer one of the best warranty programs in the industry. Our exclusive 2/5 year limited warranty provides our customers with confidence...Year After Year.





# Mixed-Flow Fan Model QBMX



Model QBMX fan is a belt drive, mixed-flow, inline exhauster with the motor, drives and bearings located outside the airstream. This design exceeds the efficiency of comparably sized tubular centrifugal and vaneaxial fans, resulting in lower motor horsepower requirements and lower operating costs.

**CAPACITIES**  
up to 60,349 CFM  
up to 5" w.g. static pressure!



U.L. 705 Listed



## Construction Features

### Housing

- Heavy gauge, rolled steel construction and continuously welded to eliminate air leakage
- Straightening vanes are welded to the housing to ensure maximum efficiency and strength
- Standard coating is charcoal baked enamel

### Access Door

- Bolted, over-sized access door with gasketing for servicing

### Mixed-Flow Wheel

- Hybrid (centrifugal and axial) wheel
- Wheels are made of welded, high-strength steel
- Precision balanced for smooth, trouble-free operation
- Non-overloading design for high efficiency and minimal sound

### Inlet

- Streamlined inlet optimally matched to the impeller

### Bearings

- Lubricated unitary pillow block bearings with extended lube lines
- Rated at L<sub>10</sub> life of 40,000 hours
- 2 year limited warranty on unitary pillow block bearings

### Shaft

- Corrosion resistant, coated steel shaft

### Motor

- Continuous duty motors with sealed ball bearings
- Motors are located outside the airstream

### Vibration Isolation

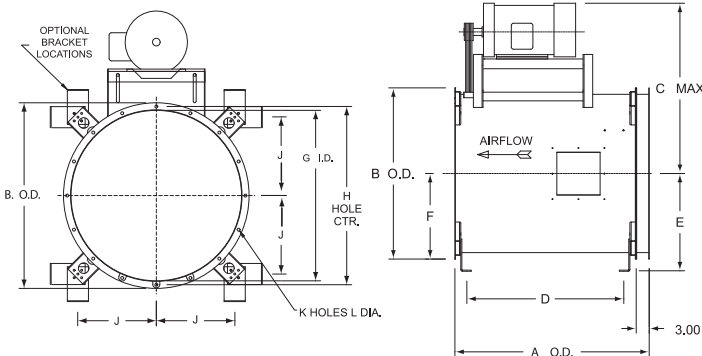
- Motors are isolated for extended life and quiet operation

### Drive Assembly

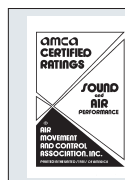
- Cast iron drives sized for 150% of fan horsepower
- Static-free, oil, and heat resistant belts

### Nameplate

- Permanently affixed manufacturer's nameplate containing the model number, serial number, CFM and static pressure (inches w.g.) for future identification



DIMENSIONS											
Fan Model	A	B	C	D	E	F	G	H	J	K	L
QBMX16	28.37	25.16	30.00	21.32	14.01	12.58	21.97	23.66	10.65	8.00	0.63
QBMX18	32.65	27.75	36.00	25.31	14.94	13.88	24.56	26.19	11.58	8.00	0.63
QBMX20	33.99	30.13	37.00	26.94	15.79	15.07	26.92	28.57	12.43	8.00	0.63
QBMX22	39.16	33.13	39.00	30.50	16.85	16.57	29.95	31.57	13.50	16.00	0.63
QBMX24	42.43	36.19	42.00	32.35	21.40	18.10	32.97	34.75	15.52	16.00	0.63
QBMX27	44.89	39.56	44.00	68.57	22.60	19.78	36.34	38.00	16.72	16.00	0.63
QBMX30	52.50	43.56	46.00	42.85	24.02	21.78	40.38	42.00	18.13	16.00	0.63
QBMX33	55.57	47.69	51.00	45.47	25.45	23.85	44.41	46.13	19.57	16.00	0.63
QBMX37	59.62	53.44	54.00	50.62	27.33	26.72	49.13	51.69	21.42	16.00	0.75
QBMX40	65.60	58.56	57.00	55.66	32.01	29.28	54.26	56.81	24.58	16.00	0.75
QBMX45	72.16	65.25	63.00	62.10	24.07	32.63	59.98	63.00	26.64	24.00	0.75
QBMX49	79.23	71.44	66.00	69.10	26.25	35.72	66.05	69.19	28.83	24.00	0.75



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.



## Options/Accessories

### Disconnect Switch

- Nema 3R
- Factory wired and externally mounted (except explosion proof motors)

### Inlet and Outlet Companion Flanges

- Heavy gauge, coated galvanized steel
- Factory mounted

### Inlet and Outlet Screens

- Factory mounted, heavy gauge galvanized steel

### Weather Cover

- Enclosed, removable motor and belt guard
- Factory mounted

### Drain

- 1.5" Drain and drain plug

### Isolators

- Hanging Spring
- Hanging Rubber
- Floor Spring
- Floor Rubber

### Optional Wheel Material

- Aluminum wheel

### Spark Resistant Construction

- AMCA B

### Shaft Seal

- Factory mounted

### Stainless Steel Tag

- 4" x 2" with model, order number, and tag information

### Optional Coatings

- Acrylic Epoxy
- Decorative Coatings
- Heresite
- Insulmastic
- Special Coatings

## Smoke Exhaust Option Pending Certification

The QBMX-SE mixed-flow inline smoke exhauster will combine superior energy efficiency with emergency smoke management technology. Under severe temperatures, the QBMX-SE is designed to exhaust life-threatening smoke to provide extra evacuation time.

These power ventilators are intended for installation in buildings in accordance with requirements contained in the Recommended Practice for Smoke Control System, NFPA 92A; and are intended to be connected to and controlled by Listed Smoke Control System Equipment (UUKL).

**QBMX-SE**  
**Maximum Temperatures**  
**500°F for 4 hours**  
**1000°F for 15 minutes**

# QBMX16

RPM		Static Pressure (inches water gauge)																			
		0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75
903	CFM	2597	2319	1887																	
	BHP	0.18	0.22	0.25																	
	LwA	69	67	65																	
990	CFM	2847	2600	2264	1672																
	BHP	0.23	0.29	0.32	0.33																
	LwA	71	70	67	67																
1137	CFM	3270	3061	2806	2454	1888															
	BHP	0.35	0.42	0.46	0.50	0.49															
	LwA	74	73	72	70	70															
1302	CFM	3745	3565	3362	3116	2784	2314														
	BHP	0.53	0.60	0.67	0.71	0.75	0.75														
	LwA	78	78	76	75	74	73														
1433	CFM	4122	3961	3781	3577	3332	3009	2576													
	BHP	0.70	0.79	0.86	0.92	0.97	1.00	1.00													
	LwA	80	81	79	78	77	76	76													
1640	CFM	4717	4578	4427	4264	4080	3868	3614	3290	2884											
	BHP	1.05	1.15	1.24	1.32	1.38	1.43	1.48	1.50	1.49											
	LwA	84	85	83	82	81	80	80	79	79											
1805	CFM	5192	5066	4931	4788	4634	4462	4269	4043	3769	3444	3036									
	BHP	1.40	1.52	1.62	1.71	1.78	1.85	1.91	1.96	1.99	2.00	1.97									
	LwA	86	87	86	85	84	84	83	82	82	81	82									
2066	CFM	5942	5832	5720	5599	5471	5339	5192	5035	4861	4664	4436	4174	3873	3517						
	BHP	2.10	2.23	2.36	2.47	2.56	2.65	2.74	2.81	2.87	2.93	2.98	2.99	2.96	2.96						
	LwA	89	91	90	89	88	88	87	87	86	85	85	85	85	85						
2450	CFM	7047	6954	6861	6764	6662	6558	6447	6335	6211	6086	5949	5804	5648	5469	5273	5057	4821	4559	4264	3888
	BHP	3.50	3.66	3.81	3.96	4.09	4.22	4.32	4.42	4.52	4.62	4.70	4.77	4.85	4.91	4.96	4.99	5.00	4.99	4.96	4.88
	LwA	93	95	95	94	93	92	92	92	92	92	91	91	90	90	89	89	89	89	89	90

# QBMX18

RPM	SP	Static Pressure (inches water gauge)																			
		0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75
745	CFM	3024	2634	1933																	
	BHP	0.18	0.23	0.25																	
	LwA	67	65	63																	
818	CFM	3320	2977	2460																	
	BHP	0.23	0.29	0.33																	
	LwA	70	68	66																	
939	CFM	3811	3522	3154	2576																
	BHP	0.35	0.42	0.48	0.50																
	LwA	73	72	70	69																
1075	CFM	4363	4116	3826	3454	2905															
	BHP	0.53	0.61	0.68	0.73	0.75															
	LwA	76	76	74	73	72															
1183	CFM	4802	4579	4330	4032	3645	3096														
	BHP	0.7	0.80	0.88	0.94	0.99	1.00														
	LwA	79	79	77	76	75	74														
1354	CFM	5496	5305	5096	4862	4595	4264	3835	3269												
	BHP	1.05	1.17	1.27	1.35	1.42	1.47	1.5	1.48												
	LwA	82	83	81	80	79	78	78	78												
1491	CFM	6052	5879	5695	5494	5273	5019	4716	4339	3873	3191										
	BHP	1.40	1.53	1.65	1.75	1.83	1.90	1.96	2.00	1.99	1.93										
	LwA	85	86	84	83	82	81	80	80	80	80										
1706	CFM	6924	6774	6617	6453	6273	6080	5867	5629	5355	5024	4640	4179								
	BHP	2.10	2.25	2.39	2.52	2.62	2.72	2.80	2.88	2.95	2.99	3.00	2.98								
	LwA	88	90	88	87	87	86	85	85	84	84	84	84								
2023	CFM	8211	8084	7957	7820	7683	7533	7381	7214	7039	6852	6641	6410	6148	5852	5522	5148	4707			
	BHP	3.50	3.68	3.87	4.02	4.17	4.29	4.41	4.53	4.63	4.73	4.82	4.90	4.96	4.98	4.99	4.97	4.91			
	LwA	92	94	93	92	91	91	91	90	90	89	89	88	88	88	88	88	88			

Performance certified is for Installation Type B: Free inlet, ducted outlet.  
 Power rating (BHP) does not include transmission losses.  
 Performance ratings do not include the effects of appurtenances (accessories).  
 The A-weighted sound power ratings shown have been calculated per AMCA Standard 301.  
 Values shown are for (Inlet LwA) sound power levels for: Installation Type B: free inlet, ducted outlet.



# QBMX20

RPM		Static Pressure (inches water gauge)																				
		0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
634	CFM	3434	2948	1797																		
	BHP	0.18	0.23	0.23																		
	LwA	62	63	62																		
696	CFM	3769	3344	2638																		
	BHP	0.23	0.29	0.33																		
	LwA	64	66	64																		
799	CFM	4327	3972	3494	2607																	
	BHP	0.35	0.43	0.48	0.49																	
	LwA	68	70	68	67																	
915	CFM	4955	4654	4290	3791	2893																
	BHP	0.53	0.61	0.69	0.74	0.73																
	LwA	72	74	73	72	71																
1007	CFM	5454	5182	4871	4484	3945	2947															
	BHP	0.71	0.80	0.88	0.96	1.00	0.95															
	LwA	74	77	76	75	74	73															
1152	CFM	6239	6005	5748	5455	5100	4644	3979														
	BHP	1.06	1.16	1.26	1.36	1.44	1.49	1.48														
	LwA	78	81	80	79	78	77	76														
1268	CFM	6867	6656	6431	6181	5895	5559	5139	4578	3595												
	BHP	1.41	1.53	1.64	1.75	1.85	1.93	1.98	2.00	1.87												
	LwA	80	84	83	82	81	80	80	79	79												
1452	CFM	7864	7679	7487	7284	7063	6818	6539	6217	5830	5340	4656										
	BHP	2.11	2.25	2.38	2.51	2.64	2.75	2.85	2.93	2.98	2.99	2.93										
	LwA	83	87	86	86	85	84	84	83	83	82	82										
1721	CFM	9321	9165	9009	8843	8674	8488	8292	8086	7853	7600	7317	6993	6615	6156	5556	4370					
	BHP	3.52	3.68	3.83	4.00	4.15	4.29	4.44	4.57	4.69	4.80	4.89	4.95	4.99	4.98	4.89	4.46					
	LwA	88	92	92	91	90	90	89	89	88	88	88	87	87	86	87	86					
1970	CFM	10669	10533	10397	10258	10112	9966	9805	9643	9468	9287	9088	8883	8652	8404	8132	7826	7475	7062	6560	5882	
	BHP	5.28	5.45	5.64	5.83	6.00	6.18	6.35	6.52	6.69	6.83	6.97	7.12	7.23	7.33	7.40	7.46	7.50	7.47	7.39	7.16	
	LwA	91	95	95	95	94	94	94	93	93	92	92	92	92	91	91	91	90	90	90	90	

# QBMX22

RPM		Static Pressure (inches water gauge)																				
		0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
524	CFM	3996	3305																			
	BHP	0.18	0.24																			
	LwA	61	61																			
575	CFM	4385	3791	2521																		
	BHP	0.23	0.30	0.32																		
	LwA	63	64	62																		
661	CFM	5041	4551	3822																		
	BHP	0.35	0.44	0.49																		
	LwA	67	68	66																		
756	CFM	5766	5350	4822	3993																	
	BHP	0.53	0.62	0.71	0.75																	
	LwA	70	73	71	70																	
832	CFM	6345	5973	5532	4937	3950																
	BHP	0.70	0.81	0.91	0.98	0.98																
	LwA	73	76	74	73	72																
953	CFM	7268	6948	6591	6163	5616	4809															
	BHP	1.06	1.18	1.30	1.40	1.48	1.49															
	LwA	76	80	78	77	76	75															
1049	CFM	8000	7713	7399	7043	6622	6089	5349	3749													
	BHP	1.41	1.55	1.68	1.80	1.91	1.98	1.99	1.78													
	LwA	79	82	81	80	79	78	78	78													
1200	CFM	9152	8902	8638	8350	8031	7669	7238	6709	5992	4794											
	BHP	2.11	2.26	2.42	2.57	2.70	2.83	2.93	2.98	2.98	2.81											
	LwA	82	86	85	84	83	83	82	82	81	81											
1423	CFM	10853	10642	10427	10200	9957	9699	9419	9104	8753	8351	7871	7283	6497								
	BHP	3.52	3.71	3.89	4.07	4.25	4.42	4.57	4.71	4.84	4.92	4.99	4.99	4.89								
	LwA	86	90	90	89	89	88	88	87	87	86	86	85	85								
1629	CFM	12424	12240	12056	11861	11664	11452	11232	10994	10747	10470	10172	9846	9480	9061	8566	7968	7190				
	BHP	5.28	5.49	5.71	5.91	6.13	6.33	6.53	6.71	6.89	7.05	7.19	7.32	7.40	7.48	7.44	7.28					
	LwA	90	94	94	93	93	92	92	91	91	91	90	90	90	89	89	88	89				
1793	CFM	13675	13508	13340	13169	12990	12810	12615	12416	12206	11985	11751	11500	11228	10943	10617	10261	9864	9409	8872	8224	7297
	BHP	7.04	7.28	7.51	7.74	7.98	8.21	8.41	8.63	8.84	9.05	9.23	9.42	9.56	9.70	9.83	9.91	9.98	10.00	9.95	9.80	9.46
	LwA	92	96	96	96	95	95	95	94	94	94	93	93	93	92	92	92	92	91	91	91	91

Performance certified is for Installation Type B: Free inlet, ducted outlet.  
 Power rating (BHP) does not include transmission losses.  
 Performance ratings do not include the effects of appurtenances (accessories).  
 The A-weighted sound power ratings shown have been calculated per AMCA Standard 301.  
 Values shown are for (Inlet LwA) sound power levels for: Installation Type B: free inlet, ducted outlet.

# QBMX24

RPM		Static Pressure (inches water gauge)																				
		0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
449	CFM	4533	3604																			
	BHP	0.18	0.24																			
	LwA	60	60																			
492	CFM	4968	4176																			
	BHP	0.23	0.31																			
	LwA	62	62																			
565	CFM	5705	5059	3987																		
	BHP	0.35	0.44	0.50																		
	LwA	66	67	65																		
647	CFM	6533	5992	5263	3888																	
	BHP	0.53	0.64	0.72	0.73																	
	LwA	69	71	69	68																	
712	CFM	7189	6710	6109	5236																	
	BHP	0.70	0.83	0.93	1.00																	
	LwA	72	74	72	71																	
815	CFM	8229	7816	7342	6750	5921	4331															
	BHP	1.06	1.20	1.33	1.44	1.50	1.41															
	LwA	75	78	77	76	75	74															
897	CFM	9057	8685	8272	7792	7193	6370	4917														
	BHP	1.41	1.56	1.71	1.84	1.94	2.00	1.90														
	LwA	78	81	80	78	78	77	77														
1027	CFM	10369	10049	9707	9327	8889	8376	7733	6863	5287												
	BHP	2.11	2.29	2.47	2.63	2.77	2.89	2.98	2.98	2.77												
	LwA	81	85	84	83	82	81	81	80	80												
1218	CFM	12298	12028	11748	11455	11133	10781	10391	9949	9436	8802	7993	6787									
	BHP	3.52	3.73	3.94	4.15	4.35	4.53	4.69	4.82	4.93	4.98	4.97	4.79									
	LwA	85	89	88	88	88	87	86	86	85	85	84	84									
1394	CFM	14075	13839	13604	13349	13090	12809	12511	12197	11842	11455	11022	10525	9945	9230	8291						
	BHP	5.28	5.51	5.77	6.01	6.23	6.46	6.66	6.87	7.05	7.22	7.35	7.43	7.48	7.46	7.31						
	LwA	89	92	92	92	91	91	90	90	90	89	89	88	88	87	88						
1534	CFM	15488	15274	15060	14836	14605	14365	14109	13843	13558	13253	12931	12568	12174	11736	11239	10659	9963	9075	7466		
	BHP	7.04	7.29	7.57	7.84	8.10	8.35	8.58	8.82	9.05	9.26	9.47	9.62	9.77	9.88	9.97	9.99	9.92	9.74	9.02		
	LwA	91	95	95	94	94	94	93	93	92	92	92	92	91	91	90	90	90	90	90	90	

# QBMX27

RPM		Static Pressure (inches water gauge)																				
		0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
424	CFM	5517	4505																			
	BHP	0.22	0.31																			
	LwA	63	60																			
487	CFM	6337	5523	4060																		
	BHP	0.33	0.45	0.50																		
	LwA	67	65	63																		
558	CFM	7261	6585	5632																		
	BHP	0.49	0.64	0.73																		
	LwA	70	70	67																		
614	CFM	7989	7391	6616	5441																	
	BHP	0.66	0.82	0.94	0.99																	
	LwA	73	73	70	69																	
703	CFM	9147	8637	8028	7256	6135																
	BHP	0.99	1.17	1.32	1.45	1.49																
	LwA	76	78	75	73	72																
774	CFM	10071	9615	9092	8465	7679	6532															
	BHP	1.32	1.52	1.70	1.86	1.96	2.00															
	LwA	79	81	78	77	76	75															
886	CFM	11528	11139	10704	10211	9649	8973	8118	6703													
	BHP	1.98	2.21	2.44	2.62	2.80	2.92	2.99	2.94													
	LwA	82	85	83	81	80	79	79	79													
1050	CFM	13662	13334	12984	12608	12196	11741	11230	10647	9962	9088	7505										
	BHP	3.29	3.56	3.83	4.10	4.32	4.54	4.72	4.86	4.96	5.00	4.80										
	LwA	87	90	89	87	86	85	84	84	83	83	83										
1202	CFM	15640	15353	15061	14744	14409	14056	13667	13247	12789	12282	11709	11044	10201	8890							
	BHP	4.93	5.24	5.56	5.87	6.15	6.43	6.67	6.91	7.10	7.26	7.39	7.48	7.47	7.31							
	LwA	90	93	93	92	91	89	89	88	88	87	87	87	87	87							
1323	CFM	17214	16954	16694	16411	16123	15810	15491	15138	14769	14376	13940	13470	12951	12362	11671	10792	8876				
	BHP	6.57	6.92	7.29	7.61	7.95	8.25	8.56	8.84	9.08	9.31	9.50	9.68	9.82	9.92	9.99	9.95	9.35				
	LwA	92	95	96	95	94	93	92	91	91	91	90	90	90	89	89	89	89				

Performance certified is for Installation Type B: Free inlet, ducted outlet.  
 Power rating (BHP) does not include transmission losses.  
 Performance ratings do not include the effects of appurtenances (accessories).  
 The A-weighted sound power ratings shown have been calculated per AMCA Standard 301.  
 Values shown are for (Inlet LwA) sound power levels for: Installation Type B: free inlet, ducted outlet.



# QBMX30

RPM		Static Pressure (inches water gauge)																				
		0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
407	CFM	7318	6191																			
	BHP	0.33	0.46																			
	LwA	65	63																			
466	CFM	8378	7455	6019																		
	BHP	0.49	0.65	0.75																		
	LwA	69	67	65																		
515	CFM	9259	8450	7340	4966																	
	BHP	0.67	0.85	0.97	0.96																	
	LwA	72	71	68	68																	
587	CFM	10554	9868	9009	7843																	
	BHP	0.99	1.19	1.36	1.47																	
	LwA	75	76	73	72																	
647	CFM	11633	11018	10292	9388	8146																
	BHP	1.32	1.55	1.76	1.91	1.99																
	LwA	77	80	76	74	74																
740	CFM	13305	12778	12182	11497	10671	9613	7918														
	BHP	1.97	2.24	2.49	2.70	2.88	2.98	2.96														
	LwA	81	84	81	79	78	78	78														
877	CFM	15768	15330	14856	14335	13757	13102	12335	11416	10174												
	BHP	3.28	3.60	3.91	4.19	4.46	4.66	4.84	4.94	4.98												
	LwA	85	88	87	85	84	83	82	82	82												
1004	CFM	18051	17669	17270	16847	16379	15875	15323	14711	14023	13232	12241	10842									
	BHP	4.93	5.30	5.67	6.00	6.31	6.62	6.86	7.09	7.29	7.43	7.46	7.38									
	LwA	89	92	91	90	88	88	87	86	86	86	85	86									
1106	CFM	19885	19538	19187	18805	18407	17982	17519	17027	16496	15911	15256	14510	13618	12475							
	BHP	6.58	7.00	7.39	7.79	8.17	8.52	8.81	9.10	9.39	9.61	9.78	9.94	9.98	9.94							
	LwA	91	94	94	93	92	91	90	90	89	88	88	88	88	88							

# QBMX33

RPM		Static Pressure (inches water gauge)																				
		0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
346	CFM	8330	6809																			
	BHP	0.33	0.47																			
	LwA	64	60																			
396	CFM	9533	8303	6083																		
	BHP	0.49	0.66	0.74																		
	LwA	67	65	64																		
436	CFM	10496	9422	7822																		
	BHP	0.66	0.86	0.98																		
	LwA	70	68	66																		
499	CFM	12013	11108	9934	8149																	
	BHP	0.98	1.22	1.40	1.50																	
	LwA	74	74	71	70																	
550	CFM	13241	12436	11456	10166	7988																
	BHP	1.32	1.58	1.80	1.96	1.97																
	LwA	76	78	74	73	72																
629	CFM	15143	14452	13663	12713	11518	9769															
	BHP	1.97	2.28	2.56	2.78	2.93	2.99															
	LwA	80	82	79	77	76	76															
716	CFM	17237	16644	15980	15229	14370	13328	11990	9520													
	BHP	2.91	3.26	3.58	3.87	4.11	4.31	4.39	4.26													
	LwA	83	86	84	82	81	80	79	80													
854	CFM	20559	20063	19536	18967	18344	17656	16883	16002	14962	13632	11134										
	BHP	4.93	5.34	5.77	6.15	6.48	6.79	7.05	7.29	7.44	7.50	7.15										
	LwA	87	90	90	88	86	86	85	84	84	84	84										
940	CFM	22630	22179	21713	21216	20676	20098	19473	18787	18022	17149	16131	14856	12810								
	BHP	6.58	7.02	7.48	7.95	8.35	8.70	9.04	9.34	9.62	9.79	9.96	9.96	9.70								
	LwA	90	93	93	92	90	89	88	88	87	87	87	86	87								
1076	CFM	25904	25510	25116	24690	24256	23783	23300	22766	22209	21616	20958	20245	19457	18563	17514	16161					
	BHP	9.86	10.37	10.91	11.45	11.95	12.42	12.84	13.24	13.65	14.00	14.26	14.56	14.77	14.88	14.99	14.87					
	LwA	94	96	96	96	95	94	93	92	92	92	91	91	91	90	90	90					
1184	CFM	28504	28146	27789	27418	27023	26628	26193	25756	25282	24797	24269	23728	23127	22492	21814	21051	20200	19222	18037	16226	
	BHP	13.14	13.70	14.33	14.91	15.46	15.97	16.48	16.97	17.43	17.87	18.31	18.69	19.01	19.26	19.58	19.77	19.86	19.92	19.87	19.43	
	LwA	96	98	99	99	98	98	96	95	95	95	94	94	94	93	93	93	93	92	93	93	

Performance certified is for Installation Type B: Free inlet, ducted outlet.  
 Power rating (BHP) does not include transmission losses.  
 Performance ratings do not include the effects of appurtenances (accessories).  
 The A-weighted sound power ratings shown have been calculated per AMCA Standard 301.  
 Values shown are for (Inlet LwA) sound power levels for: Installation Type B: free inlet, ducted outlet.

# QBMX37

RPM		Static Pressure (inches water gauge)																				
		0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
335	CFM	10910	9245																			
	BHP	0.49	0.68																			
	LwA	66	63																			
369	CFM	12017	10574	8176																		
	BHP	0.66	0.88	1.00																		
	LwA	68	66	65																		
422	CFM	13743	12537	10886	7133																	
	BHP	0.99	1.25	1.44	1.40																	
	LwA	72	72	69	68																	
465	CFM	15143	14079	12721	10777																	
	BHP	1.32	1.62	1.85	1.98																	
	LwA	75	76	72	71																	
532	CFM	17325	16414	15338	14002	12174																
	BHP	1.97	2.32	2.62	2.85	2.99																
	LwA	78	80	77	75	75																
631	CFM	20549	19801	18961	18004	16883	15509	13652														
	BHP	3.29	3.70	4.11	4.43	4.70	4.90	5.00														
	LwA	83	86	83	81	80	80	79														
722	CFM	23513	22865	22162	21392	20538	19577	18447	17102	15296												
	BHP	4.93	5.42	5.86	6.28	6.69	7.01	7.27	7.41	7.46												
	LwA	86	89	88	86	85	84	83	83	83												
795	CFM	25890	25301	24680	24015	23293	22494	21613	20616	19462	18089	16190										
	BHP	6.58	7.09	7.64	8.13	8.55	8.96	9.31	9.60	9.82	9.95	9.92										
	LwA	89	92	91	90	88	87	86	86	86	85	85										
910	CFM	29635	29121	28603	28034	27445	26815	26133	25407	24625	23760	22795	21706	20402	18761							
	BHP	9.87	10.49	11.10	11.64	12.19	12.71	13.23	13.62	14.06	14.39	14.63	14.84	14.99	14.91							
	LwA	92	95	95	94	93	92	91	91	90	89	89	89	89	89							

# QBMX40

RPM		Static Pressure (inches water gauge)																				
		0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
288	CFM	12334	10133																			
	BHP	0.50	0.70																			
	LwA	65	62																			
317	CFM	13576	11687	7725																		
	BHP	0.66	0.90	0.98																		
	LwA	67	65	63																		
363	CFM	15546	13988	11692																		
	BHP	0.99	1.28	1.47																		
	LwA	71	69	67																		
399	CFM	17088	15703	13865	10818																	
	BHP	1.31	1.64	1.89	1.99																	
	LwA	73	73	70	70																	
457	CFM	19571	18400	16979	15112	12075																
	BHP	1.97	2.37	2.68	2.91	2.96																
	LwA	77	79	75	74	73																
542	CFM	23212	22247	21152	19873	18315	16270															
	BHP	3.29	3.75	4.18	4.56	4.81	4.97															
	LwA	82	84	81	80	78	78															
620	CFM	26552	25725	24817	23799	22640	21308	19679	17505													
	BHP	4.93	5.48	6.00	6.43	6.86	7.18	7.41	7.49													
	LwA	85	88	86	84	83	82	82	81													
683	CFM	29250	28499	27693	26816	25851	24775	23558	22128	20378	17831											
	BHP	6.59	7.16	7.74	8.28	8.76	9.19	9.54	9.80	9.96	9.88											
	LwA	88	90	90	88	86	86	85	84	84	84											
781	CFM	33447	32790	32113	31387	30602	29765	28863	27872	26768	25518	24057	22293	19590								
	BHP	9.85	10.50	11.23	11.83	12.43	12.99	13.55	14.00	14.38	14.69	14.84	14.92	14.71								
	LwA	91	94	94	93	91	90	89	89	88	88	88	87	88								
860	CFM	36830	36234	35638	34983	34318	33588	32827	32019	31130	30177	29140	27988	26674	25123	23152						
	BHP	13.15	13.92	14.68	15.40	16.11	16.70	17.32	17.95	18.39	18.84	19.24	19.63	19.87	19.91	19.84						
	LwA	93	96	96	96	95	94	92	92	92	91	91	90	90	90	90						
926	CFM	39657	39103	38549	37960	37348	36706	36028	35314	34563	33749	32898	31967	30953	29845	28602	27165	25410	22785			
	BHP	16.42	17.24	18.01	18.86	19.63	20.30	20.99	21.72	22.34	22.82	23.41	23.86	24.25	24.58	24.73	24.94	24.91	24.32			
	LwA	95	98	98	98	97	96	95	94	94	94	93	93	92	92	92	92	92	92			

Performance certified is for Installation Type B: Free inlet, ducted outlet.  
 Power rating (BHP) does not include transmission losses.  
 Performance ratings do not include the effects of appurtenances (accessories).  
 The A-weighted sound power ratings shown have been calculated per AMCA Standard 301.  
 Values shown are for (Inlet LwA) sound power levels for: Installation Type B: free inlet, ducted outlet.



# QBMX45

RPM		Static Pressure (inches water gauge)																				
		0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
268	CFM	15505	12944																			
	BHP	0.66	0.93																			
	LwA	66	63																			
307	CFM	17761	15666	12245																		
	BHP	0.99	1.31	1.50																		
	LwA	69	67	66																		
338	CFM	19555	17719	15116																		
	BHP	1.32	1.70	1.94																		
	LwA	72	71	68																		
387	CFM	22390	20844	18879	16107																	
	BHP	1.98	2.41	2.76	2.99																	
	LwA	75	76	73	72																	
458	CFM	26498	25222	23752	21959	19641	15845															
	BHP	3.28	3.80	4.30	4.65	4.93	4.89															
	LwA	80	82	79	77	77	76															
525	CFM	30374	29287	28067	26681	25067	23103	20474														
	BHP	4.94	5.57	6.15	6.65	7.07	7.37	7.47														
	LwA	84	87	84	82	81	80	80														
578	CFM	33440	32459	31390	30209	28879	27347	25561	23304	19778												
	BHP	6.59	7.29	7.94	8.50	9.02	9.44	9.77	9.96	9.82												
	LwA	86	89	88	86	84	84	83	83	83												
661	CFM	38242	37384	36481	35516	34467	33307	32032	30610	28952	26991	24394										
	BHP	9.86	10.61	11.42	12.10	12.82	13.36	13.89	14.33	14.67	14.88	14.95										
	LwA	90	93	92	91	89	88	88	87	87	86	86										
728	CFM	42118	41339	40545	39685	38772	37810	36753	35606	34355	32967	31396	29570	27215	23129							
	BHP	13.17	13.99	14.91	15.73	16.43	17.23	17.89	18.48	18.91	19.35	19.77	19.98	19.99	19.19							
	LwA	92	95	95	94	93	91	91	90	90	89	89	89	89	89							
784	CFM	45358	44635	43912	43120	42320	41436	40521	39538	38473	37336	36101	34731	33180	31360	29102	25500					
	BHP	16.45	17.39	18.34	19.22	20.10	20.90	21.67	22.29	22.92	23.58	24.08	24.41	24.72	24.98	24.86	24.19					
	LwA	94	97	97	97	96	94	93	93	92	92	91	91	91	91	91	91					
833	CFM	48193	47512	46832	46106	45354	44562	43729	42844	41919	40910	39852	38709	37444	36058	34502	32690	30448	26614			
	BHP	19.73	20.66	21.74	22.70	23.63	24.52	25.28	26.16	26.81	27.48	28.09	28.64	29.21	29.48	29.75	29.99	29.90	28.93			
	LwA	96	98	99	98	98	97	95	95	94	94	94	93	93	93	92	92	92	93			

# QBMX49

RPM		Static Pressure (inches water gauge)																				
		0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
228	CFM	17618	14147																			
	BHP	0.66	0.94																			
	LwA	64	60																			
261	CFM	20168	17379	11609																		
	BHP	0.98	1.35	1.45																		
	LwA	68	66	64																		
288	CFM	22254	19828	16089																		
	BHP	1.32	1.75	2.00																		
	LwA	71	69	67																		
329	CFM	25422	23381	20677	16247																	
	BHP	1.97	2.45	2.82	2.99																	
	LwA	74	74	71	70																	
390	CFM	30136	28473	26489	23988	20385																
	BHP	3.28	3.89	4.41	4.80	4.99																
	LwA	79	80	77	75	75																
447	CFM	34540	33118	31504	29622	27338	24349															
	BHP	4.94	5.65	6.25	6.79	7.20	7.44															
	LwA	82	85	82	80	79	79															
492	CFM	38017	36748	35332	33732	31905	29722	26978	22714													
	BHP	6.59	7.38	8.06	8.75	9.24	9.66	9.92	9.82													
	LwA	85	88	86	83	83	82	81	81													
563	CFM	43503	42394	41206	39914	38492	36907	35117	33028	30483	26828											
	BHP	9.87	10.71	11.64	12.44	13.16	13.80	14.25	14.74	14.90	14.89											
	LwA	89	92	91	89	87	86	86	85	85	85											
530	CFM	40954	39775	38494	37082	35508	33688	31579	28954	25131												
	BHP	8.23	9.03	9.83	10.56	11.27	11.80	12.23	12.41	12.34												
	LwA	87	90	89	86	85	84	84	83	83												
667	CFM	51540	50604	49652	48618	47528	46383	45112	43750	42268	40629	38780	36637	34001	30023							
	BHP	16.41	17.48	18.54	19.54	20.40	21.40	22.10	22.93	23.58	24.13	24.56	24.74	24.94	24.46							
	LwA	93	96	96	95	94	92	91	91	90	90	90	90	89	90							
709	CFM	54785	53904	53024	52058	51081	50004	48885	47689	46384	44987	43468	41783	39866	37610	34806	29652					
	BHP	19.70	20.76	21.99	22.96	24.11	25.07	26.00	26.74	27.49	28.17	28.89	29.39	29.62	29.93	29.75	28.55					
	LwA	94	97	97	97	96	94	93	93	93	92	92	91	91	91	91	91					
781	CFM	60349	59549	58750	57910	57027	56125	55147	54153	53068	51947	50742	49450	48084	46577	44914	43058	40915	38308	34291		
	BHP	26.34	27.59	28.85	30.07	31.12	32.26	33.32	34.35	35.43	36.19	37.14	37.87	38.54	39.11	39.55	39.87	39.88	39.94	38.88		
	LwA	97	100	100	100	99	98	97	96	96	95	95	95	94	94	94	94	93	94	94		

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**CENTRIFUGAL EXHAUSTERS**



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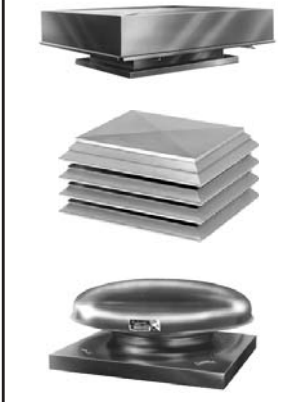
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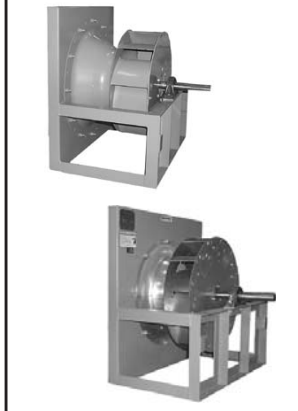
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**ROOF VENTS**



**PLENUM FANS**



**BACKWARD INCLINED/AIRFOIL CENTRIFUGAL FANS**



**LIMITED WARRANTY** Acme Engineering and Manufacturing Corporation extends this limited warranty to the original purchaser and warrants that products described herein shall be free from original defects in workmanship and materials for two years from date of shipment (except for Acme's exclusive duplex split pillow block bearings and shaft 5 years from shipment, belts one year from shipment, and polyethylene tubing at 90 days from shipping), provided same have been properly handled, stored, installed, serviced, maintained and operated. Refer to Form MS149 for complete limited warranty terms and conditions. This form is available to anyone at [www.acmefan.com](http://www.acmefan.com). The Company's warranty is in lieu of all other warranties, express or implied, arising by law or otherwise, including without limitation the implied warranties of merchantability and fitness for a particular purpose, which are hereby expressly disclaimed and waived.

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 Purchaser and End User. If these products are used in a life support ventilation system where failure could result in loss or injury, the Purchaser and End 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. Comply with all local and national safety codes including the National Electrical Code (NEC) and National Fire Protection Act (NFPA). Guards

must be installed when fan is within reach of personnel or within eight (8) feet (2.5 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.

**INDEMNITY** Purchaser acknowledges various warnings by the Company regarding the products and its installation and use. If the Company incurs any claims, lawsuits, settlements, or expenses (including attorney fees) for any loss, injury, death or property damage including, but not limited to, claims arising out of the Purchaser's or any end user's installation or use of the products, the Purchaser shall indemnify and hold the Company harmless.

Member Air Movement and Control Association International, Inc.

**ACME ENGINEERING & MANUFACTURING CORP.**

P.O. Box 978, Muskogee, Oklahoma 74402  
 Telephone: 918-682-7791 Fax: 918-682-0134  
[www.acmefan.com](http://www.acmefan.com) e-mail: [acmefan@acmefan.com](mailto:acmefan@acmefan.com)



Est. 1938

# Extreme Duty Fans

## NEW Hurricane and High Wind Products

Models are certified to all three Miami-Dade procedures for static loading (TAS 202), missile impact (TAS 201) and cyclic loading (TAS 203).



**PRN: Direct Drive Centrifugal Roof Exhauster**  
NOA# 10-0714.01 Exp. November 4, 2015

**PNU: Belt Drive Upblast Centrifugal Exhauster**  
NOA# 10-0727.03 Exp. January 13, 2016

**PDU: Direct Drive Upblast Centrifugal Exhauster**  
NOA# 10-0727.03 Exp. January 13, 2016



### Miami-Dade Pending Certification Models

- PV: Belt Drive Downblast Centrifugal Exhauster
- QBR: Belt Drive Utility Blower
- EV: Gravity Exhaust Vent
- IV: Gravity Intake Vent



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## NEW Smoke Exhaust Fans

**2100-SE: Inline Airfoil Smoke Centrifugal Exhauster**  
**QBR-SE: Belt Drive Utility Smoke Exhaust Centrifugal Blower**  
**8100-SE: Belt Drive Utility Smoke Exhaust Centrifugal Blower**



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Other Currently Available Smoke Exhaust Fans	Maximum Performance (CFM)	Max SP (inches w.g.)	UL	Rating
2100-SE: Inline Airfoil Smoke Centrifugal Exhauster	40,426	6.0	705 Electrical Power Ventilators for Smoke Control Systems	500°F for 4 hours 1000°F for 15 minutes
HA-SE: Inline Belt Drive Tubeaxial Smoke Exhauster	63,845	2.0	705 Electrical Power Ventilators for Smoke Control Systems	500°F for 4 hours 630°F & 800°F for 4 hours 1000°F for 15 & 20 minutes
PNU-SE: Belt Drive Upblast Centrifugal Smoke Exhauster	33,374	5.0	705 Electrical Power Ventilators for Smoke Control Systems	500°F for 4 & 8 hours 630°F for 4 hours 1000°F for 15 & 25 minutes
UBGMX-SE: Belt Drive Upblast Smoke Exhauster	78,842	0.75	705 Electrical Power Ventilators for Smoke Control Systems 793 Snow Load	500°F for 4 hours 1000°F for 15 minutes
UBH-SE: Belt Drive Upblast Smoke Exhauster	61,236	1.25	705 Electrical Power Ventilators for Smoke Control Systems 793 Snow Load	500°F for 4 hours 630°F & 800°F for 4 hours 1000°F for 15 minutes
QBMX-SE: Belt Drive Inline Horizontal Mixed Flow Smoke Exhauster	60,349	5.0	705 Electrical Power Ventilators for Pending Smoke Rating	500°F for 4 hours 1000°F for 15 minutes
QBR-SE: Belt Drive Utility Smoke Exhaust Centrifugal Blower	23,230	3.5	705 Electrical Pending Smoke Rating	500°F for 4 hours 1000°F for 15 minutes
8100-SE: Belt Drive Utility Smoke Exhaust Centrifugal Blower	74,712	9.0	705 Electrical Pending Smoke Rating	500°F for 4 hours 1000°F for 15 minutes



Contact your ACME Representative or [www.acmefan.com](http://www.acmefan.com) for more information.