

Upblast Propeller Roof Exhausters

JetMaster®
Models UBG
and
UBGMX



SYMBOL
OF QUALITY

ACME ENGINEERING & MANUFACTURING CORPORATION / MUSKOGEE, OKLAHOMA

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.

Research and Testing

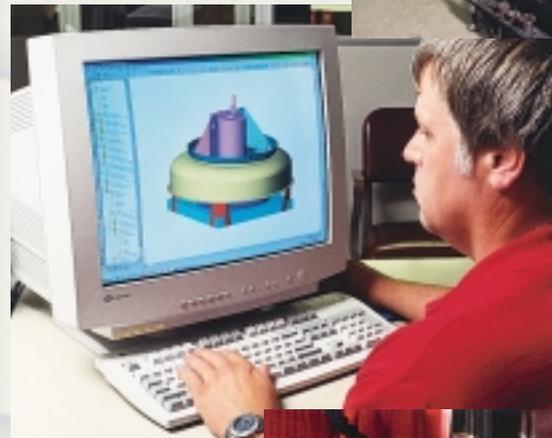
The Acme Research and Development Center operates both air and sound laboratories. The Center houses four wind tunnels with a data acquisition system, a reverberant sound room with the latest sound analyzer equipment, and a structural laboratory for stress and vibration analysis. Solid modeling, and 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 production staff sets 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.



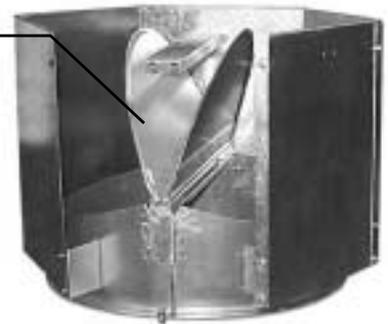
UBG CONSTRUCTION FEATURES



Model UBG low silhouette belt drive exhausters are ideally suited for moving large volumes of air. Capacities range from 3,770 to 83,370 CFM and up to ¾ inch static pressure. The UBG is a high velocity exhauster design to discharge air up and away from the building. Typical applications includes all types of commercial and industrial facilities such as warehouses, foundries, mills and manufacturing plants.

REMOVABLE WINDBAND
Constructed of heavy gauge galvanized steel. Removable panels for easy access to fan and dampers. (Size 72 windband shipped knocked down; requires field assembly.)

BUTTERFLY DAMPERS
Constructed of aluminum for ease of opening at low velocities. Dampers provide weather protection and prevents backdrafts when fan is not in operation.



LIFTING EYES
For ease in lifting onto the roof deck.

MOTORS
Heavy-duty type with prelubricated ball bearings requiring minimum maintenance.

BASE
Constructed of heavy gauge galvanized steel for weather resistance.

DRIVE ASSEMBLY
Designed for 150% of driven horsepower. Sheaves are machined cast iron. Belts are static free and heat and oil resistant. Shafts have corrosion resistant coating. **Variable speed drives** are standard for 5 HP and smaller. **Fixed speed drives** are standard for 7 ½ and 10 HP. Pulleys have split taper bushing.

HEAVY DUTY ALUMINUM PROPELLER
Heavily reinforced, highly efficient, cambered airfoil blades, welded to hub and precision balanced on corrosion resistant coated fan shaft.

BEARINGS
Permanently lubricated bearings are used in duplex split pillow block housing. Bearings are resiliently mounted in neoprene rings, providing extra protection and vibration isolation. The bearing assembly is rated at an L-50 life of 200,000 hours and features Acme's **5 year** limited warranty.



UBGMX CONSTRUCTION FEATURES



Motor Out of Airstream

The UBGMX offers all of the standard construction features of the UBG in addition to the motor out of the airstream for ease of servicing and inspection. Removable motor cover allows quick and easy access to the motor, belt and drives without removing the fan.

High Temperature Options

UBGMX exhausters are available with special features for emergency high temperature exhaust and smoke removal applications. The table below lists the specific options and the high temperature features.

UF Option

- 500 F for 4 hours
- 1000 F for 15 minutes

SE Option

- 500 F for 4 hours
- 1000 F for 15 minutes
- Meets UL793 requirements

Construction Features	Option UF	Option SE
Hi-Temperature Bearings		
Copper Lubrication Lines		
Dual Heat Resistant Belts		
Heat Slinger		
Steel Propeller		
Motor Outside Airstream		
Ventilated Belt and Bearing Enclosure		
Fusible Link Damper Lifters		
Fusible Link Damper Lifters Capable of Lifting 10 lbs./sq. ft., meets UL793.		
UL Listed "Power Ventilator for Smoke Control Systems"		

Note: Exhausters with UF and SE options are constructed to operate in temperature and time limits stated. Some parts of the fan may be destroyed when exposed to unusually high temperatures for prolonged periods.



UBGMX exhausters with UF and SE options are designed and constructed to remove high temperature exhaust and smoke. These specially equipped ventilators meet IRI (Industrial Risk Insurers) requirements for exhausting 500 F air for 4 hours and SBCCI's "Standard Fire Prevention Code" requirements for exhausting 1000 F air for 15 minutes. The Butterfly Damper on the SE option meets the requirements of UL 793 for automatically opening under snow or dust load in an emergency situation.



UBG PERFORMANCE DATA

Model	RPM	CFM vs. STATIC PRESSURE												HP		
		.000"		.125"		.250"		.375"		.500"		.625"			.750"	
		Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP		Sone	BHP
UBG24	745	5059		3769												
	780	5296		4175												
	896	6084		5175												
	1025	6960		6222												
	1128	7659		6998		6145										
		24	1.05	24	1.08	24	1.08									
UBG30	593	8109		6543												
	608	8314		6795												
	696	9517		8238												
	729	9968		8766												
	766	10474		9351												
	877	11992		11038		9896										
	965	13195		12328		11339		9762								
		31	2.04	31	2.12	31	2.18	34	2.16							
UBG36	503	11784		9343												
	523	12253		9958												
	529	12393		10133												
	582	13635		11650												
	644	15087		13375												
	667	15626		14004		11605										
	733	17172		15711		13890										
	839	19656		18379		16924		15022								
		34	2.96	34	3.07	34	3.18	34	3.24							
UBG42	406	15263		12295												
	447	16804		14152												
	500	18797		16480		13882										
	512	19248		16999		14462										
	563	21165		19160		16871										
	639	24022		22256		20319		18285								
	645	24248		22498		20585		18571								
	764	28721		27244		25750		24054		22354		20648				
		44	4.67	44	4.85	50	5.03	51	5.18	46	5.31	43	5.42			

Variable speed range shown by arrows.
 Performance shown is for Installation Type A: Free Inlet, Free Outlet.
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		Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	
UBG48	409	21976		18492												
		21	1.31	21	1.45											
	420	22567		19177												
		22	1.42	22	1.57											
	462	24824		21753		18275										
		26	1.89	25	2.06	26	2.18									
	524	28155		25464		22649										
		32	2.76	32	2.98	30	3.10									
	530	28477		25818		23061										
32		2.86	32	3.08	30	3.20										
583	31325		28908		26438		23619									
	38	3.80	38	4.05	35	4.20	36	4.35								
628	33743		31500		29218		26788									
	44	4.75	44	5.02	40	5.21	40	5.35								
719	38633		36673		34704		32690		30504		27583					
	53	7.13	53	7.43	53	7.71	49	7.87	52	8.05	55	8.15	7 1/2			
UBG54	346	24877		20434												
		21	1.41	21	1.54											
	388	27897		24016												
		25	1.99	24	2.16											
	414	29767		26190		21882										
		27	2.42	26	2.59	27	2.66									
	444	31924		28659		24831										
		31	2.98	29	3.17	30	3.27									
	487	35015		32139		28697		24718								
36		3.94	36	4.14	34	4.30	34	4.31								
526	37819		35165		32037		28686									
	39	4.96	39	5.18	37	5.41	37	5.46								
603	43356		41040		38487		35713		32696							
	52	7.47	52	7.72	47	7.98	48	8.17	48	8.23			7 1/2			
664	47742		45639		43461		40918		38428		35553					
	59	9.97	59	10.25	59	10.53	53	10.83	57	10.92	58	11.01	10			
UBG60	322	33408		27995												
		22	2.09	22	2.27											
	362	37558		32901		25971										
		27	2.97	27	3.19	27	3.19									
	414	42953		38881		34284										
		32	4.45	32	4.70	31	4.88									
429	44509		40580		36228											
	36	4.95	34	5.21	34	5.41										
491	50941		47509		44040		39884									
	47	7.41	44	7.71	44	8.01	44	8.18					7 1/2			
541	56129		53013		49898		46367		42292							
	52	9.91	52	10.24	48	10.58	48	10.82	48	10.97			10			
UBG72	207	37195														
		14	1.27													
	275	49413		41808												
		24	2.98	24	3.29											
	322	57858		51360		43496										
		32	4.79	32	5.21	31	5.52									
	368	66124		60386		54633		46908								
		40	7.15	40	7.68	40	7.95	39	8.25					7 1/2		
406	72952		67723		62678		56237		49707							
	47	9.60	47	10.22	47	10.55	46	10.98	45	10.89			10			
464	83373		78777		74343		69799		63709		57978		36954			
	59	14.32	59	15.07	59	15.57	58	15.87	58	16.45	58	16.42	58	15.57	15	

Variable speed range shown by arrows. Shaded lines represent fixed speed for 7 1/2 HP, 10 HP and 15 HP.
 Performance shown is for Installation Type A: Free Inlet, Free Outlet.
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		.000"		.125"		.250"		.375"		.500"		.625"		.750"		
		Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	
UBGMX24	781	4715		4166												
		13.1	0.35	13.1	0.36											
	897	5416		4971		3864										
		16.7	0.53	16.6	0.55	18.0	0.51									
	1027	6200		5824		5303										
21		0.80	21	0.82	23	0.82										
1130	6822		6484		6076		5281									
	24	1.07	24	1.08	25	1.09	25	1.07								
UBGMX30	629	7309		6281												
		14.3	0.52	13.4	0.54											
	720	8366		7557												
		18.1	0.78	17.3	0.81											
	792	9203		8492		7180										
		21	1.04	20	1.07	20	1.09									
907	10539		9935		9144											
	26	1.57	25	1.60	25	1.63										
998	11596		11053		10416		9348									
	30	2.09	29	2.12	29	2.14	30	2.16								
UBGMX36	525	11214		9556												
		15.4	0.78	14.8	0.81											
	578	12346		10956												
		18.1	1.04	18.3	1.08											
	662	14140		12991		10977										
23		1.57	23	1.61	24	1.64										
728	15550		14525		13101											
	26	2.09	26	2.13	27	2.18										
834	17814		16934		15909		14246		9332							
	33	3.15	33	3.19	34	3.25	34	3.30	34	2.86						
UBGMX42	452	15425		12282												
		15.4	1.03	16.5	1.09											
	518	17677		15110												
		22	1.55	21	1.62											
	570	19452		17176		13869										
		24	2.07	25	2.17	24	2.14									
652	22250		20302		17950		14380		11811							
	30	3.09	32	3.21	30	3.29	31	3.12	31	3.26						
773	26379		24757		22992		20815		17736		15149		13337			
	41	5.16	42	5.30	41	5.43	41	5.47	41	5.24	40.0	5.25	39.0	5.58		
UBGMX48	413	21355		17356												
		17.7	1.53	19.0	1.63											
	454	23475		19959												
		21	2.03	23	2.15											
	520	26888		23901		19996										
27		3.06	30	3.20	27	3.25										
616	31852		29372		26602		22751		17193							
	35	5.09	39	5.27	36	5.40	42	5.40	42	5.43						
705	36454		34302		32018		29376		25710		20563		17637			
	43	7.60	50	7.84	45	8.02	53	8.12	53	8.08	53	8.08	53	8.46		
UBGMX54	374	27417		22493												
		18.2	2.03	19.4	2.16											
	428	31375		27242		20771										
		23	3.05	24	3.22	23	3.22									
	507	37166		33761		29755		22907								
		29	5.07	35	5.29	32	5.40	39	5.34							
581	42591		39648		36444		32440		25817		21024					
	40	7.60	46	7.89	41	8.08	48	8.10	48	8.03	48	8.40				
639	46843		44177		41361		38146		33863		27411		23264			
	46	10.16	53	10.44	47	10.68	55	10.81	55	10.79	55	10.71	55	11.10		

Variable speed range shown by arrows. Shaded lines represent fixed speed for 7 1/2 HP, and 10 HP.
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The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating on Acme built exhaustors does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.



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		.000"		.125"		.250"		.375"		.500"		.625"		.750"		
		Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	
UBGMX60	360	36221		30668												↑ 3 ↓
		21	3.08	22	3.26											
	426	42861		38323		32586										↑ 5 ↓
		28	5.10	31	5.30	28	5.40									
488	49099		45189		40793		34516		25988						7 1/2	
	35	7.67	40	7.96	37	8.15	44	8.13	44	8.24						
537	54029		50495		46686		42077		34729		27836		24327		10	
	43	10.23	49	10.54	43	10.70	52	10.89	49	10.76	49	11.00	50	11.70		
UBGMX72	266	46093		36622												↑ 3 ↓
		21	3.07	19.0	3.27											
	315	54583		47070		34659										↑ 5 ↓
		26	5.10	24	5.30	24	5.37									
	361	62554		56147		48207		34558								7 1/2
		31	7.69	31	8.04	32	8.19	31	8.17							
397	68792		63019		56433		46332		34907						10	
	35	10.22	37	10.62	34	10.87	34	10.79	34	11.12						
455	78842		73846		68488		62107		52336		41703		36304		15	
	45	15.39	51	15.86	46	16.23	46	16.40	46	16.23	49	16.52	40	17.60		

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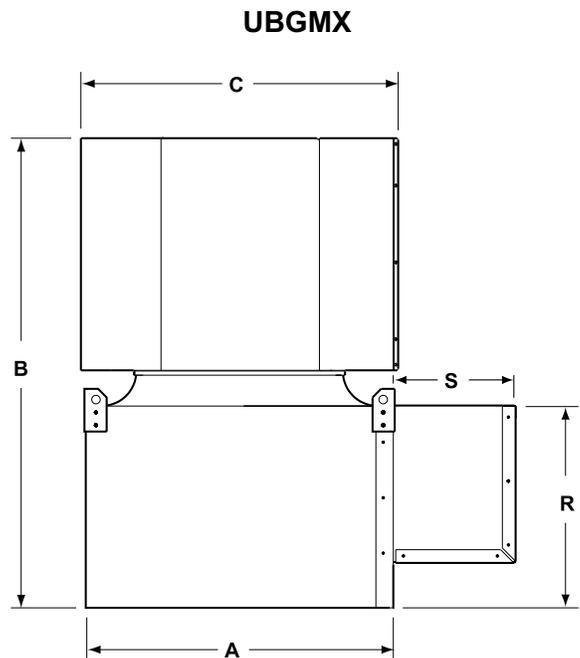
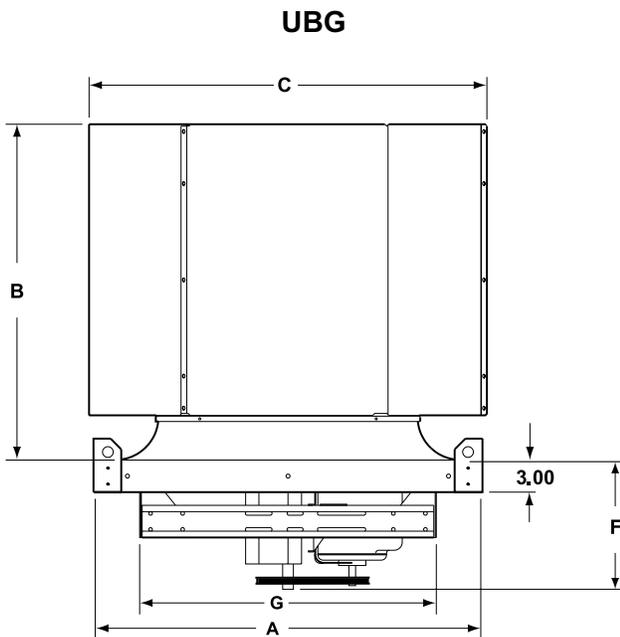
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DIMENSIONAL DATA

Fan Model	A	B	C	F	G	Curb Model	Est. Unit Wt. Lbs.	Est. Ship Wt. Lbs.
UBG24	36.00	31.40	37.18	12.07	27.72	C34.5	157	245
UBG30	42.00	38.08	43.14	13.95	34.25	C40.5	230	332
UBG36	48.00	39.37	49.12	13.95	41.89	C46.5	273	396
UBG42	54.00	38.49	56.11	14.59	47.65	C52.5	326	452
UBG48	60.00	45.72	62.21	20.45	53.65	C58.5	473	602
UBG54	66.00	52.96	69.31	22.07	59.73	C64.5	612	744
UBG60	72.00	58.09	79.15	22.03	65.84	C70.5	674	824
UBG72	90.00	63.25	95.68	29.34	79.61	C88.5	828	1125

Fan Model	A	B	C	R	S	Curb Model	Est. Unit Wt. Lbs.	Est. Ship Wt. Lbs.
UBGMX24	36.00	55.06	37.18	23.71	14.21	C34.5	312	401
UBGMX30	42.00	62.01	43.17	24.65	14.20	C40.5	427	528
UBGMX36	48.00	63.50	49.14	24.65	14.38	C46.5	530	674
UBGMX42	54.00	67.02	56.45	28.30	15.76	C52.5	601	744
UBGMX48	60.00	74.03	62.40	29.18	16.56	C58.5	781	954
UBGMX54	66.00	86.40	69.68	33.73	18.71	C64.5	965	1157
UBGMX60	72.00	91.65	79.46	33.73	18.79	C70.5	1065	1264
UBGMX72	90.00	102.40	95.68	39.17	21.78	C88.5	1343	1675



Typical drawings are for dimensional purposes only which are correct within limits suitable for normal installation requirements and do not necessarily show actual construction. All dimensions are in inches.



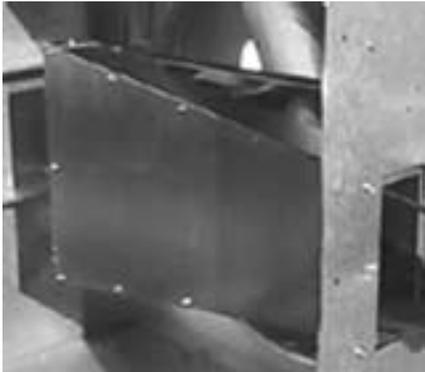
OPTIONAL ACCESSORIES

Fusible Link Damper Lifters automatically open the dampers when the air temperature exceeds 165°F.



Prefabricated Roof Curbs lined with fiberglass insulation to reduce condensation and sound levels. Insures compatibility between the fan and mounting curb.

Disconnect Switches for positive electrical shut-off and safety when servicing fans. Switch is factory mounted on bottom side of exhauster base housing through 1.50 HP single phase and 2 HP three phase. Switch extends through base and is operated from outside of exhauster for maximum safety when servicing. For 3 HP and above, NEMA 3R raintight switches mounted above curbcap.



Aluminum Construction is available for windbands and curbcaps.

Energy Efficient Motors are available for most sizes. Contact the factory for specific efficiency data.

Outlet Guards of heavy gauge steel mesh shield the fan discharge from debris.

Steel Propellers are available with an acrylic epoxy finish.

Unitary Pillow Block Bearings are available with external lube fitting when relubricatable bearings are required.

Magnetic Latches are available to minimize damper flutter when fan is not in operation.



Belt Cover is available with UBGMX to isolate the belt and drive components from airstream contaminants (standard with UF and SE options). Performance can be estimated by applying a 7.5% reduction on the system curve when using the belt cover.

Coatings Aluminum and galvanized components remain unpainted as a standard finish, but when required, are processed through the finishing system to apply decorative or special coatings. A high turbulence oven is used to produce a baked on finish for most special coatings. Decorative coatings are not baked on.

Decorative Coating Acme offers 16 popular colors for decorative finishes utilizing an industrial grade enamel applied to the exterior of the fan.

Note: For any coating selected, the user assumes responsibility for the ultimate effect on the coating and equipment due to the corrosive agent, its concentration, temperature and moisture content.

Special Coatings Products receiving special coatings have components painted before assembly. Fasteners are not painted.

- **Acrylic Epoxy** This product provides a more durable surface.
- **Carboline Sanitile** (Eisenheiss) This air dry synthetic polyester forms a black coating that offers greater resistance to most organic and inorganic acids.
- **Heresite** (Air Dry) A phenolic coating with greater resistance to most organic and inorganic acids.
- **Insulmastic** A black asphalt based mastic that provides some condensation control, sound deadening and corrosion resistance.



TYPICAL SPECIFICATIONS

The upblast roof exhaust ventilators shall be belt driven axial type. Motors shall be heavy duty, ball bearing type, matched to the fan load.

Propellers shall be constructed of die-formed aluminum blades welded to an aluminum hub. Propellers shall be statically and dynamically balanced. Propellers shall be mounted securely to shaft. Shafts shall be coated for corrosion resistance.

Windband shall be hexagonal in shape with removable panel(s) for easy access to motor, drives and propeller.

Pre-lubricated ball bearings shall be mounted in a duplex split pillow block housing for accurate alignment and rated at L-50 life of 200,000 hours. Bearings shall be resilient mounted in neoprene rings providing protection and vibration isolation (Size 72 standard with unitary pillow block bearings).

The drive frame, windband and curbcap shall be fabricated of heavy duty galvanized material.

Drives for belt drive fans shall have machined cast iron pulleys with variable pitch motor and sized for 150% of driven horsepower. Belts shall be static free and oil and heat resistant. Fan shall have a corrosion resistant coating.

The butterfly dampers shall be of aluminum construction.

Fans shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

Fan shall be covered with a **2 year** limited warranty and a **5 year** limited warranty on the duplex split pillow block bearings and shaft.

Fans shall be model UBG as manufactured by Acme Engineering & Manufacturing Corp.

For UBGMX insert the following additional requirements: Motors shall be mounted outside of the airstream. Motor cover shall be removable for servicing and vented for motor cooling.

For UBGMX-UF and SE insert the following additional requirements: Propellers shall be constructed of heavy gauge galvanized steel blades welded to a steel hub.

Motors shall be mounted outside of the airstream. Motor cover shall be removable for servicing and vented for motor cooling.

Belt and drive components shall be enclosed in a heavy duty galvanized steel cover.

For UBGMX-SE insert the following additional requirements: Fans shall meet the requirements of UL 793 and UL listed "Power Ventilators for Smoke Control Systems".

Because of constantly changing developmental research, Acme must reserve the right to change specifications without notice.



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



Most models are available with the UL Listing mark; consult the Acme representative for availability.



Most models are listed by the Canadian Standards Association Testing Laboratory as approved.



CENTRIFUGAL VENTILATION FANS



DUCT FANS PROPELLER AND INLINE CENTRIFUGAL



CEILING, INLINE AND CABINET FANS



CENTRIFUGAL & PROPELLER ROOF EXHAUST FANS



CENTRIFUGAL & PROPELLER ROOF SUPPLY FANS



CENTRIFUGAL AND PROPELLER UPBLAST ROOF EXHAUSTERS



CENTRIFUGAL INDUSTRIAL PROCESS FANS



CENTRIFUGAL HEAVY DUTY INDUSTRIAL FANS



CENTRIFUGAL AIR HANDLING FANS



CENTRIFUGAL AND PROPELLER WALL FANS



MAKE-UP AIR SYSTEMS



EXHAUST & SUPPLY VENTS



LIMITED WARRANTY Acme Engineering and Manufacturing Corporation warrants the products manufactured by Acme to be free from original defects in workmanship and material for two years subject to the terms and conditions of its published limited warranty. Warranties on purchased products are subject to the vendor's warranty. Refer to current Form MS149 for complete limited warranty terms and conditions.

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.



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