



Bulletin URV05



UPBLAST ROOF VENTILATORS

Models: ULD, ULB, UTD, UTB
Direct Drive and Belt Drive

MOVING YOUR WAY



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Following

We reserve the right to make changes at any time, without notice, to models, specifications, options, availability, etc.

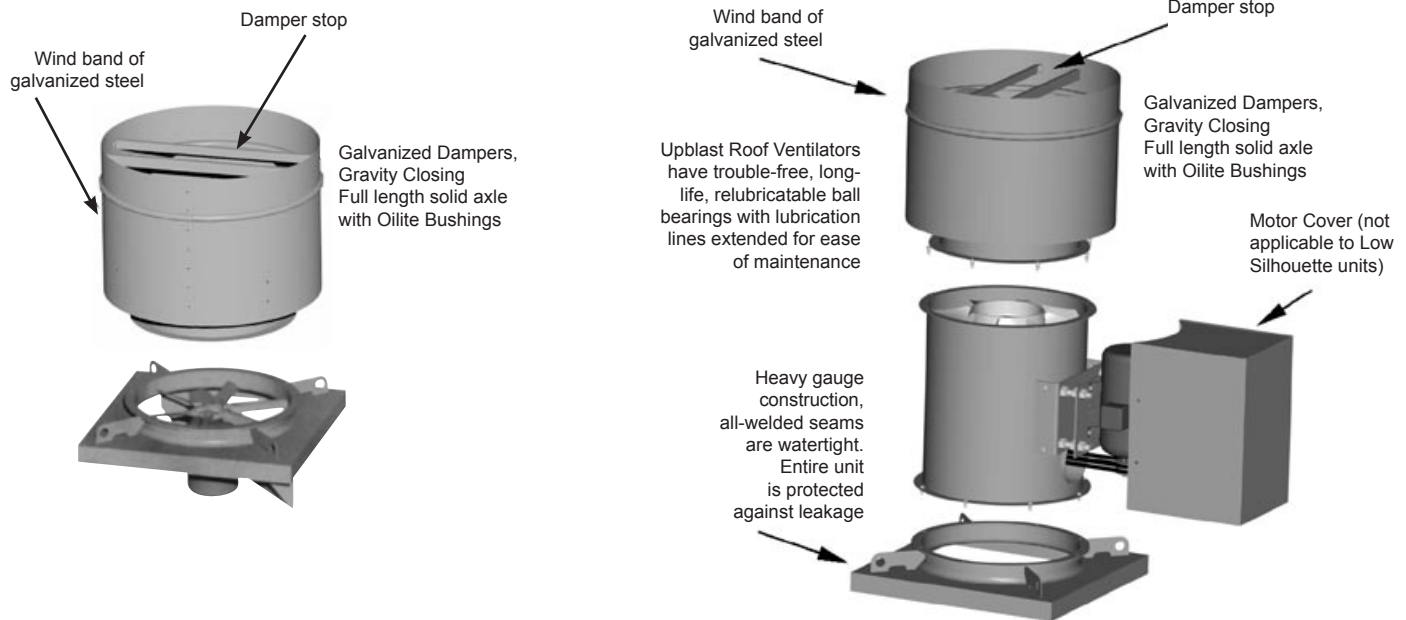
This

in design and construction at anytime without notice. Your local sales representative is the best source for current information.

Features and Benefits

Upblast Roof Ventilator

Rugged, trouble-free Upblast Roof Ventilators offer the latest axial-type design for quiet and efficient air handling, combined with the advanced engineering of the upblast stackhead for immediate dispersal of all exhaust air high above the building. This prevents re-entry of exhaust fumes through adjacent windows or air intake ducts. Gravity-closing automatic dampers close tight when the unit is off.



Model ULD/ULB - Low Silhouette

- Direct drive and Belt drive models
- Smoothly blends into roof lines for clean, modern appearance
- Structurally stable regardless of weather or outside vibration
- Rugged angle iron and steel plate construction
- Smooth high-volume flow from straight-through design
- Spun steel venturi inlet for even exhaust air flow
- Removable discharge head for ease of maintenance
- Watertight overlapping all-welded seams and heavy gauge materials, will not leak.
- Full flow gutter between dampers
- Aerodynamically efficient
- ULD Prop diameters from 18" thru 60"
- ULB Prop diameters from 24" thru 60"

Static and dynamic balancing of propeller units produce minimum noise or vibration.

Airfoil propeller available in two styles:

- Cast Aluminum - cast of a special aluminum alloy with high tensile strength
- Slow Speed - fabricated of heavy gauge carbon steel

Model UTD/UTB

- Direct drive and Belt drive models
- Structurally stable regardless of weather or outside vibration
- Rugged steel plate construction
- Smooth high-volume flow from straight-through design
- Watertight overlapping all-welded seams and heavy gauge materials, will not leak.
- Spun steel venturi inlet for even exhaust air flow
- Full flow gutter between dampers
- Aerodynamically efficient
- UTD Prop diameters from 12" thru 60"
- UTB Prop diameters from 12" thru 60"

Static and dynamic balancing of propeller units produce minimum noise or vibration.

Airfoil propeller available in three styles:

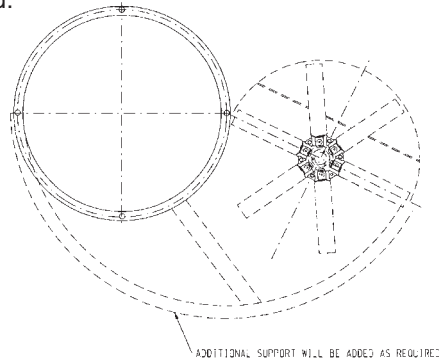
- Cast Aluminum - cast of a special aluminum alloy with high tensile strength, 6 blades
- Cast Aluminum - high speed, 7 blades
- Slow Speed - fabricated of heavy gauge carbon steel

Options and Accessories

Upblast Roof Ventilator

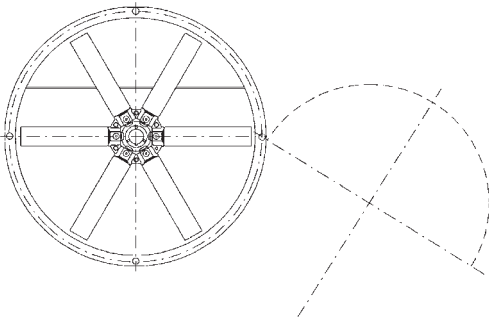
SwingOut Design

SwingOut design fans enable routine cleaning and maintenance operations to be performed without removing the fan from the system. This is accomplished by hinging the casing and allowing the fan integrals to "swingout" with the hinged section while the casing remains attached to the ductwork. By providing quick and easy access to all internal parts, including the motor, shaft, prop and bearings, maintenance is greatly simplified and costly downtime is minimized.

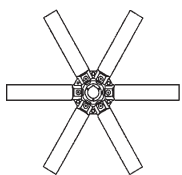


Full Access Design

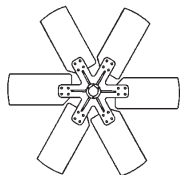
Quick access to the fan interior is accomplished by a hinged outer section. This section opens 180° to provide plenty of room and freedom for most types of maintenance or service tasks. This feature will save many hours of maintenance costs since the fan need not be removed from the system to keep it clean and operating efficiently.



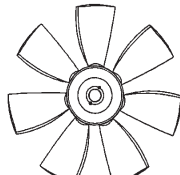
Propeller Types



091 - CAST ALUMINUM



097 - FABRICATED STEEL

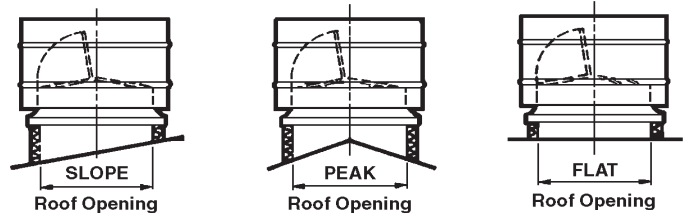


098 - CAST ALUMINUM

Three propeller types are available:

- 6-blade cast aluminum (091) - cast of a special aluminum alloy with high tensile strength
- 6-blade fabricated slow speed steel (097) - fabricated of heavy gauge carbon steel
- 7-blade high speed cast aluminum (098) - *not available on low silhouette units*

Insulated Roof Curbs



Insulated roof curbs are matched to the fan size. Roof curbs allow maximum ease of installation and insure proper fit. They are available for slope, peak or flat roof mounting. Please specify fan size, flat, peak or slope mounting and roof pitch when ordering.



Aluminum Dampers

Aluminum dampers are available in lieu of standard galvanized for lower velocities (not for use with fire dampers).

Inlet Extension

Extensions allow fan to be flange connected more easily to the duct work below the roof curb.

Magnetic Damper Pads

Magnetic damper pads are used where positive building pressures or high lateral winds could cause damper lift. They assure positive closing.

Spring-Loaded Fire Dampers

Fire dampers are for relief of smoke and heat in the event of a fire. Opens dampers when fusible link melts. Standard fusible link is 165°F. Optional 212°F link is available.

Disconnect Switch

Disconnect switches are mounted and wired to the fan motor. Please specify the operating voltage and enclosure type when ordering.



Aluminum Fabrication

Aluminum fabrication with solid heliarc welding is available for use in hostile environments. Hardware is zinc plated steel. Stainless steel hardware is optional. Also available in all stainless construction.

Access Door

Access doors allow for easy inspection of the fan interior.

Coatings

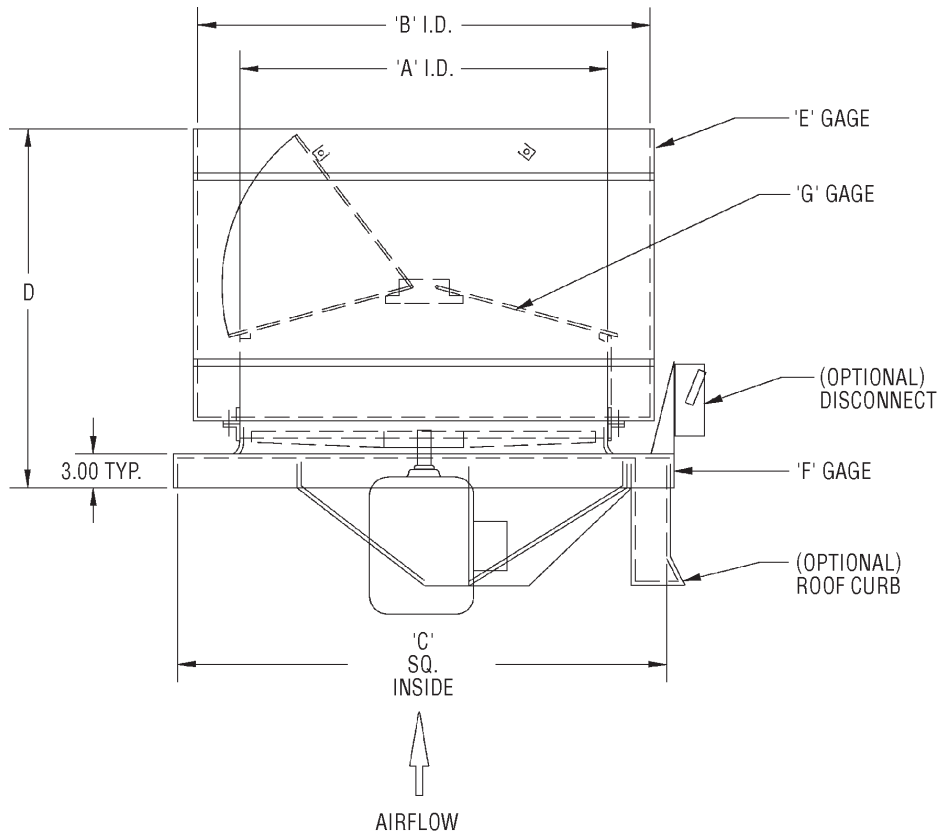
Standard factory coating is air dried enamel and a galvanized windband. Other available coatings include:

- Galvanized Construction
- Phenolic (Heresite)
- Catalytic Epoxy

Galvanized, aluminum or stainless steel parts are not coated.

ULD - Low Silhouette, Direct Drive Fan Data

Upblast Roof Ventilator



SIZE	A	B	C	D	E	F	G	MAX. MTR.	UNIT WEIGHT
018	18.19	26.00	28.00	29.10	18	14	18	184	130
021	21.22	29.19	31.00	31.60	18	14	18	184	160
024	24.25	32.19	34.00	33.10	18	14	18	184	190
027	27.28	35.28	40.00	34.10	18	14	18	184	220
030	30.31	38.60	42.00	38.10	18	14	18	184	260
032	32.34	40.42	44.00	40.60	18	14	18	215	300
036	36.38	44.50	48.00	41.10	18	14	18	256	350
042	42.44	50.62	54.00	45.85	18	14	18	256	470
048	48.50	56.68	60.00	47.35	18	14	18	286	590
054	54.56	62.75	66.00	49.60	16	14	18	326	740
060	60.63	68.88	72.00	51.60	16	14	18	326	870

Notes:

1. Approximate fan weights are less motor, drive and accessories.
2. Units are available with 091, 097 and 098 props.
3. Dimensions should not be used for construction. Certified drawings are available upon request

Direct Drive Fan Data, Low Silhouette - ULD

Upblast Roof Ventilator

018

Max. RPM = 1750	Prop Diameter = 18 in.
Bare Fan Weight = 130 lbs.	Tip Speed, FPM = 4.71 x RPM
Inlet & Outlet Diameter (Area) = 18.19 in. (1.80 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
091	1750	18	2970	0.14														
		22	3410	0.22	3021	0.24												
		26	3815	0.32	3407	0.34												
		30	4083	0.41	3652	0.42	2989	0.43										

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
097	1150	28	3220	0.22	2892	0.25												
	1750	22	4360	0.58	4176	0.62	3991	0.65	3759	0.68								
		28	4900	0.77	4705	0.82	4480	0.86	4227	0.88								

021

Max. RPM = 1750	Prop Diameter = 21 in.
Bare Fan Weight = 160 lbs.	Tip Speed, FPM = 5.50 x RPM
Inlet & Outlet Diameter (Area) = 21.21 in. (2.45 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
091	1150	18																
		22	3558	0.14														
		26	3981	0.20														
		30	4263	0.25														
	1750	14	3890	0.18														
		18	4716	0.31	4239	0.36	3682	0.38										
		22	5415	0.49	4982	0.51	4441	0.55	3704	0.57								
		26	6058	0.70	5602	0.73	5040	0.75	4229	0.76								
	30	6487	0.68	6010	0.91	5401	0.93											

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
097	1150	22	4550	0.36	4224	0.39	3819	0.42										
		28	5113	0.48	4747	0.52	4292	0.55										
	1750	22	6924	1.25	6709	1.31	6495	1.37	6262	1.42								
		28	7781	1.68	7562	1.74	7306	1.82	7033	1.87								

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

ULD - Low Silhouette, Direct Drive Fan Data

Upblast Roof Ventilator

024

Max. RPM = 1750	Prop Diameter = 24 in.
Bare Fan Weight = 190 lbs.	Tip Speed, FPM = 6.28 x RPM
Inlet & Outlet Diameter (Area) = 24.25 in. (3.21 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
091	1150	18	4626	0.17														
		22	5312	0.27	4482	0.30												
		26	5943	0.39	5077	0.42												
		30	6363	0.49	5440	0.51												
	1750	14	5807	0.36	5244	0.42	4596	0.52										
		18	7040	0.61	6494	0.68	5911	0.73	5215	0.75	4363	0.76						
		22	8083	0.95	7610	0.99	7023	1.04	6329	1.09	5448	1.11						
		26	9043	1.37	8545	1.41	7933	1.46	7222	1.47	6211	1.47						
		30	9683	1.72	9143	1.77	8506	1.79	7714	1.80								

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
097	870	22	5138	0.30	4627	0.34												
		28	5774	0.40	5198	0.45												
	1150	22	6791	0.69	6419	0.75	5998	0.80										
		28	7633	0.93	7224	1.00	6743	1.04										

027

Max. RPM = 1750	Prop Diameter = 27 in.
Bare Fan Weight = 220 lbs.	Tip Speed, FPM = 7.07 x RPM
Inlet & Outlet Diameter (Area) = 27.28 in. (4.06 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
091	870	22	5721	0.21														
		26	6401	0.30														
		30	6854	0.38														
	1150	18	6587	0.31														
		22	7563	0.48	6672	0.53												
		26	8461	0.70	7526	0.74	6205	0.75										
	1750	30	9060	0.88	8067	0.92	6449	0.91										
		14	8269	0.65	7635	0.73	6943	0.88	6178	0.97								
		18	10024	1.10	9410	1.19	8796	1.29	8076	1.33	7236	1.36	6274	1.37				
		22	11509	1.71	10977	1.77	10361	1.83	9662	1.91	8834	1.97	7826	2.00				
30	26	12876	2.47	12316	2.53	11670	2.60	10950	2.64	10102	2.66	8931	2.66					
	30	13787	3.10	13180	3.17	12513	3.22	11729	3.24	10771	3.25							

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
097	870	22	7315	0.54	6761	0.60	6059	0.65										
		28	8221	0.72	7596	0.80	6808	0.84										
	1150	22	9670	1.25	9251	1.33	8821	1.41	8291	1.47								
		28	10867	1.67	10421	1.77	9904	1.86	9320	1.91								

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Direct Drive Fan Data, Low Silhouette - ULD

Upblast Roof Ventilator

030

Max. RPM = 1750	Prop Diameter = 30 in.
Bare Fan Weight = 260 lbs.	Tip Speed, FPM = 7.85 x RPM
Inlet & Outlet Diameter (Area) = 30.31 in. (5.01 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP			
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP		
091	870	22	8003	0.38																
		26	8954	0.55	7480	0.59														
		30	9588	0.69	8002	0.72														
	1150	14	7601	0.33																
		18	9214	0.56	8169	0.65														
		22	10580	0.87	9621	0.93	8361	1.00												
		26	11836	1.26	10828	1.32	9518	1.35	7267	1.34										
		30	12674	1.59	11614	1.65	10120	1.66												
		1750	14	11567	1.17	10863	1.28	10128	1.44	9309	1.67	8421	1.73	7427	1.79					
	18	14022	1.98	13340	2.11	12658	2.25	11922	2.35	11074	2.40	10121	2.44							
	22	16100	3.08	15508	3.16	14872	3.23	14124	3.35	13294	3.45	12339	3.54							
	26	18011	4.45	17390	4.53	16717	4.62	15944	4.72	15094	4.76	14050	4.78							
30	19286	5.59	18611	5.68	17913	5.78	17089	5.81	16149	5.84	14412	5.67								

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
097	870	22	9363	0.88	8764	0.96													
		28	10522	1.17	9861	1.27	9216	1.33											
	1150	22	12375	2.03	11928	2.13	11462	2.23	11053	2.31									
		28	13908	2.72	13441	2.84	12891	2.95	12411	3.04									

032

Max. RPM = 1750	Prop Diameter = 32 in.
Bare Fan Weight = 300 lbs.	Tip Speed, FPM = 8.38 x RPM
Inlet & Outlet Diameter (Area) = 32.33 in. (5.70 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
091	870	18	8296	0.32															
		22	9252	0.49	8068	0.55													
		26	10656	0.71	9135	0.76													
		30	11411	0.89	9788	0.93													
	1150	14	9046	0.43															
		18	10966	0.73	9859	0.83	8570	0.89											
		22	12591	1.13	11587	1.20	10335	1.29	8628	1.33									
		26	14086	1.64	13029	1.71	11726	1.75	9853	1.76									
		30	15083	2.06	13978	2.13	12567	2.16											
		1750	14	13766	1.51	13015	1.65	12251	1.82	11396	2.13	10483	2.24	9507	2.27				
	18	16687	2.57	15960	2.73	15232	2.89	14486	3.03	13632	3.10	12685	3.15						
	22	19160	4.00	18529	4.09	17879	4.19	17099	4.31	16268	4.44	15347	4.56						
26	21435	5.77	20772	5.87	20082	5.97	19274	6.10	18416	6.16	17463	6.20							
30	22952	7.25	22232	7.36	21513	7.48	20662	7.53	19734	7.57	18686	7.60							

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
097	870	22	12179	1.27	11522	1.37	10785	1.45										
		28	13687	1.69	12969	1.81	12122	1.90										
	1150	22	16098	2.92	15601	3.05	15104	3.19	14566	3.31	13939	3.41						
		28	18092	3.91	17585	4.07	16990	4.23	16358	4.36	15681	4.44						

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

ULD - Low Silhouette, Direct Drive Fan Data

Upblast Roof Ventilator

036

Max. RPM = 1150	Prop Diameter = 36 in.
Bare Fan Weight = 350 lbs.	Tip Speed, FPM = 9.42 x RPM
Inlet & Outlet Diameter (Area) = 36.38 in. (7.22 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
091	870	18	11824	0.53														
		22	13586	0.83	11948	0.91												
		26	15217	1.19	13478	1.27	11087	1.29										
		30	16233	1.51	14456	1.58	11632	1.55										
	1150	14	12911	0.70	11546	0.82												
		18	15630	1.23	14360	1.35	12960	1.45	11334	1.52								
		22	17959	1.91	16739	2.02	15406	2.12	13845	2.20	11671	2.16						
		26	20115	2.75	18813	2.86	17415	2.95	15829	2.98	13259	2.93						
	30	21458	3.48	20122	3.58	18656	3.66	16866	3.67									

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
097	695	22	13828	1.11	12915	1.21	11822	1.31										
		28	15537	1.47	14528	1.61	13253	1.71										
	870	22	17310	2.17	16613	2.31	15820	2.44	14929	2.57	13891	2.65						
		28	19449	2.89	18667	3.06	17770	3.22	16740	3.33	15558	3.41						

042

Max. RPM = 1150	Prop Diameter = 42 in.
Bare Fan Weight = 470 lbs.	Tip Speed, FPM = 11.00 x RPM
Inlet & Outlet Diameter (Area) = 42.44 in. (9.82 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
091	870	14	15510	0.65														
		18	18777	1.15	16818	1.30	14557	1.40										
		22	21575	1.79	19693	1.92	17474	2.03	14542	2.04								
		26	24165	2.58	22156	2.71	19840	2.78	16546	2.77								
		30	25778	3.26	23718	3.38	21192	3.43	14884	2.87								
	1150	14	20502	1.51	18909	1.70	17236	2.02	15461	2.33								
		18	24820	2.66	23338	2.85	21817	3.03	20105	3.17	18174	3.27	15931	3.30				
		22	28518	4.12	27095	4.30	25672	4.48	23975	4.62	22185	4.76	19799	4.73				
		26	31942	5.95	30422	6.13	28903	6.30	27140	6.38	25290	6.44	22569	6.41				
		30	34074	7.53	32516	7.68	30957	7.84	29044	7.91	26957	7.94	23172	7.58				

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
097	695	22	21958	2.39	20924	2.57												
		28	24671	3.18	23517	3.40												
	870	22	27468	4.69	26679	4.91	25795	5.12	24840	5.34	23601	5.65						
		28	30884	6.24	29999	6.52	29011	6.78	27903	7.01	26686	7.19						

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Direct Drive Fan Data, Low Silhouette - ULD

Upblast Roof Ventilator

048

Max. RPM = 1150	Prop Diameter = 48 in.
Bare Fan Weight = 590 lbs.	Tip Speed, FPM = 12.57 x RPM
Inlet & Outlet Diameter (Area) = 48.50 in. (12.83 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
091	870	14	23152	1.27	20746	1.49													
		18	28028	2.25	25790	2.46	23331	2.64											
		22	32206	3.48	30055	3.68	27724	3.87	25017	4.02	21298	3.97							
		26	36071	5.03	33776	5.22	31327	5.37	28531	5.43	24342	5.40							
	1150	30	38479	6.36	36125	6.53	33564	6.67	30410	6.70									
		14	30604	2.94	28784	3.23	26934	3.58	24965	4.15	22905	4.56	20666	4.61					
		18	37049	5.19	35355	5.47	33662	5.76	31808	6.00	29852	6.20	27670	6.36	25256	6.46			
		22	42569	8.04	40943	8.30	39316	8.57	37650	8.33	35622	9.03	33694	9.24	31001	9.24			
	26	47680	11.60	45944	11.90	44207	12.10	42455	12.40	40340	12.50	38225	12.50	35439	12.50				
	30	50863	14.70	49082	14.90	47301	15.10	45520	15.40	43160	15.40	40774	15.50	37687	15.40				

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
097	580	22	27854	2.71	25923	2.93												
		28	30764	3.61	29143	3.88												
	695	22	32778	4.66	31621	4.92	30322	5.17	28895	5.45								
		28	36827	6.21	33538	6.53	34085	6.84	32416	7.08								

054

Max. RPM = 870	Prop Diameter = 54 in.
Bare Fan Weight = 740 lbs.	Tip Speed, FPM = 14.14 x RPM
Inlet & Outlet Diameter (Area) = 54.56 in. (16.24 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
091	695	14	26334	1.17														
		18	31880	2.06	28728	2.31												
		22	36630	3.20	33602	3.43	30082	3.62										
		26	41028	4.62	37796	4.84	34118	4.96	29104	4.97								
		30	43767	6.84	40452	6.04	36468	6.14	29968	5.89								
	870	14	32965	2.29	30258	2.61	27398	3.13										
		18	39907	4.05	37389	4.36	34766	4.64	31856	4.86	26447	5.00						
		22	45854	6.27	43435	6.56	41016	6.84	38061	7.07	34796	7.23	30697	7.17				
		26	51359	9.06	48777	9.33	46195	9.61	43130	9.72	39871	9.80	34965	9.74				
		30	54788	11.50	52139	11.70	49490	12.00	46126	12.00	42439	12.10						

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
097	580	22	38947	4.88	37380	5.19	35595	5.49										
		28	43759	6.50	42001	6.89	39983	7.24										
	695	22	46670	8.40	45368	8.77	43958	9.14	42443	9.50								

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

ULD - Low Silhouette, Direct Drive Fan Data

Upblast Roof Ventilator

060

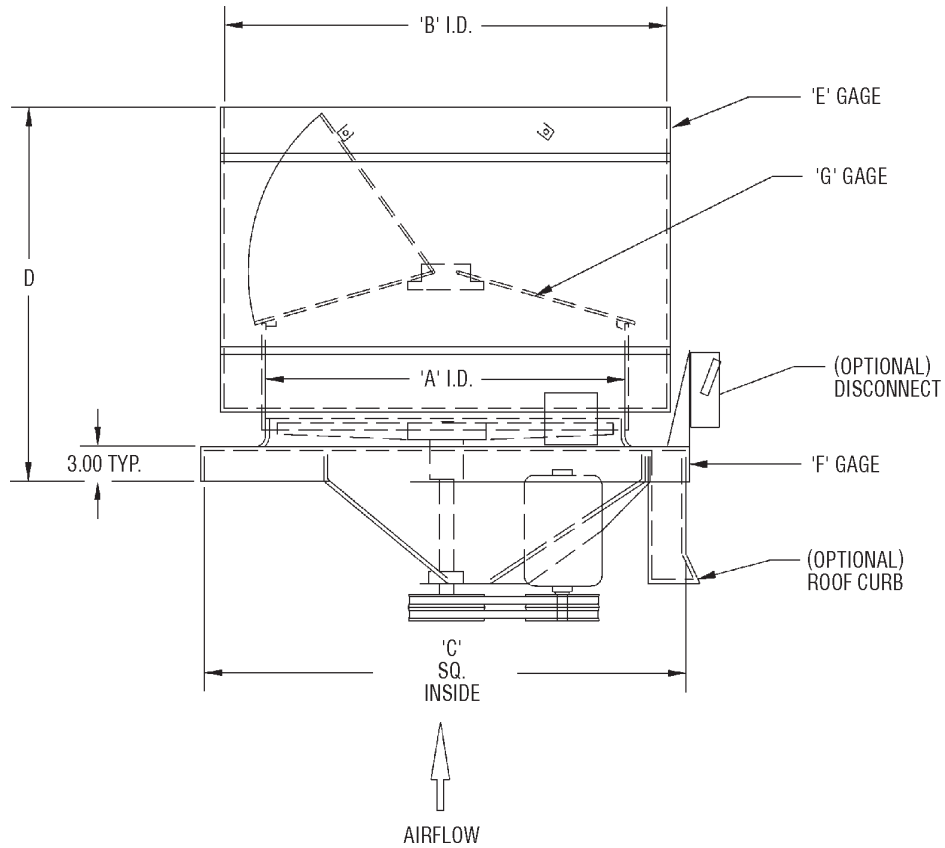
Max. RPM = 870	Prop Diameter = 60 in.
Bare Fan Weight = 870 lbs.	Tip Speed, FPM = 15.71 x RPM
Inlet & Outlet Diameter (Area) = 60.63 in. (20.05 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
091	695	14	36124	1.98	32359	2.32												
		18	43731	3.49	40229	3.83	36380	4.11										
		22	50247	5.42	46883	5.73	43233	6.02	38984	6.25	33136	6.17						
		26	56280	7.82	52688	8.12	48853	8.36	44478	8.46	37901	8.41						
		30	60037	9.89	56353	10.20	52340	10.40	47405	10.40	33111	8.54						
	870	14	45220	3.89	42212	4.31	39110	4.91	35855	5.76	32298	6.09						
		18	54743	6.85	51945	7.28	49146	7.70	45973	8.02	42741	8.33	38776	8.48	34335	8.48		
		22	62900	10.60	60212	11.00	57524	11.40	54568	11.80	51217	12.10	47454	12.20	42949	12.20		
		26	70451	15.30	67582	15.70	64713	16.10	61622	16.40	58128	16.50	54356	16.60	48905	16.50		
		30	75155	19.40	72212	19.70	69269	20.10	66048	20.30	62105	20.40	57871	20.40				

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Belt Drive Fan Data, Low Silhouette - ULB

Upblast Roof Ventilator



SIZE	A	B	C	D	E	F	G	MAX. MTR.	UNIT WEIGHT
024	24.25	32.19	34.00	33.10	18	14	18	184	200
027	27.28	35.28	40.00	34.10	18	14	18	184	230
030	30.31	38.60	42.00	38.10	18	14	18	184	270
032	32.34	40.42	44.00	40.60	18	14	18	215	320
036	36.38	44.50	48.00	41.10	18	14	18	256	370
042	42.44	50.62	54.00	45.85	18	14	18	256	500
048	48.50	56.68	60.00	47.35	18	14	18	256	620
054	54.56	62.75	66.00	49.60	16	14	18	256	770
060	60.63	68.88	72.00	51.60	16	14	18	256	900

Notes:

1. Approximate fan weights are less motor, drive and accessories.
2. Units are available with 091, 097 and 098 props.
3. Dimensions should not be used for construction. Certified drawings are available upon request.

ULB - Low Silhouette, Belt Drive Fan Data

Upblast Roof Ventilator

024

Max. BHP = F (RPM/1000)	Prop Diameter = 24 in.
F = 0.19 (091 @ 22°)	Bare Fan Weight = 200 lbs.
F = 0.67 (097 @ 28°)	Tip Speed, FPM = 6.28 x RPM
Inlet & Outlet Diameter (Area) = 24.25 in. (3.21 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	4494	970	0.15	1153	0.29	1322	0.44	1496	0.63	1644	0.82	1825	1.05	1978	1.31	2230	1.89
	5136	1109	0.23	1266	0.37	1419	0.55	1575	0.75	1714	0.95	1855	1.18	1994	1.40	2281	2.02
	5778	1247	0.32	1390	0.49	1521	0.67	1666	0.89	1792	1.10	1925	1.35	2043	1.59	2300	2.12
	6420	1386	0.44	1521	0.63	1632	0.81	1764	1.05	1880	1.27	2003	1.54	2114	1.79	2332	2.34
	7062	1525	0.59	1650	0.80	1745	0.98	1865	1.23	1977	1.48	2088	1.75	2193	2.02		
	7704	1663	0.76	1779	0.99	1865	1.18	1975	1.44	2076	1.70	2185	2.00	2278	2.27		
	8346	1802	0.97	1909	1.22	1995	1.44	2087	1.68	2181	1.96	2283	2.27	2375	2.57		
	8988	1941	1.21	2040	1.48	2127	1.73	2201	1.96	2292	2.25	2384	2.57				

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	4494	682	0.18	788	0.32	877	0.46	983	0.62	1108	0.82	1238	1.08	1328	1.31	1473	1.85
	5136	779	0.27	872	0.43	956	0.59	1039	0.75	1127	0.93	1241	1.17	1360	1.45	1529	2.01
	5778	877	0.38	959	0.56	1035	0.74	1110	0.92	1181	1.10	1266	1.33	1353	1.56	1566	2.19
	6420	974	0.52	1048	0.72	1116	0.92	1189	1.13	1248	1.31	1319	1.53	1389	1.76	1566	2.34
	7062	1072	0.69	1139	0.91	1201	1.12	1269	1.36	1326	1.57	1383	1.79	1445	2.02	1579	2.55
	7704	1169	0.89	1232	1.14	1288	1.37	1349	1.62	1406	1.86	1461	2.10	1509	2.32	1626	2.85
	8346	1266	1.14	1325	1.40	1376	1.65	1432	1.92	1486	2.18	1541	2.45	1587	2.69		
	8988	1364	1.42	1418	1.70	1465	1.97	1519	2.26	1567	2.54	1620	2.84	1667	3.11		

027

Max. BHP = F (RPM/1000) ³	Prop Diameter = 27 in.
F = 0.35 (091 @ 22°)	Bare Fan Weight = 230 lbs.
F = 1.22 (097 @ 28°)	Tip Speed, FPM = 7.07 x RPM
Inlet & Outlet Diameter (Area) = 27.28 in. (4.06 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	5684	862	0.19	1025	0.36	1175	0.56	1330	0.80	1461	1.03	1623	1.33	1758	1.66	1981	2.40
	6496	985	0.29	1125	0.47	1261	0.69	1399	0.95	1523	1.20	1649	1.49	1772	1.77	2027	2.55
	7308	1108	0.41	1235	0.62	1352	0.84	1480	1.12	1592	1.39	1711	1.71	1816	2.00	2044	2.69
	8120	1231	0.56	1351	0.80	1450	1.02	1567	1.33	1670	1.61	1780	1.94	1878	2.27	2072	2.96
	8932	1354	0.74	1466	1.01	1550	1.24	1657	1.55	1756	1.87	1856	2.21	1948	2.55		
	9744	1478	0.96	1580	1.26	1657	1.50	1755	1.82	1844	2.15	1941	2.53	2025	2.87		
	10556	1601	1.23	1696	1.54	1773	1.82	1854	2.13	1938	2.48	2029	2.87	2110	3.25		
	11368	1724	1.53	1812	1.87	1889	2.19	1956	2.47	2036	2.84	2118	3.25				

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	5684	606	0.22	700	0.41	779	0.58	874	0.79	985	1.04	1100	1.36	1180	1.66	1309	2.33
	6496	692	0.33	775	0.54	849	0.74	924	0.95	1001	1.18	1104	1.49	1209	1.83	1359	2.54
	7308	779	0.48	852	0.71	920	0.93	986	1.16	1049	1.39	1125	1.68	1203	1.97	1391	2.77
	8120	865	0.65	931	0.91	991	1.16	1057	1.43	1109	1.66	1172	1.94	1235	2.23	1392	2.96
	8932	952	0.87	1012	1.15	1067	1.42	1127	1.72	1179	1.98	1229	2.26	1284	2.55	1403	3.23
	9744	1038	1.13	1094	1.44	1144	1.73	1199	2.05	1249	2.35	1298	2.65	1341	2.94	1445	3.61
	10556	1125	1.44	1177	1.77	1222	2.08	1272	2.43	1320	2.75	1369	3.10	1410	3.40		
	11368	1212	1.79	1260	2.15	1302	2.49	1349	2.86	1392	3.21	1440	3.59	1481	3.93		

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Belt Drive Fan Data, Low Silhouette - ULB

Upblast Roof Ventilator

030

Max. BHP = $F (RPM/1000)^3$	Prop Diameter = 30 in.
F = 0.63 (091 @ 22°)	Bare Fan Weight = 270 lbs.
F = 2.19 (097 @ 28°)	Tip Speed, FPM = 7.85 x RPM
Inlet & Outlet Diameter (Area) = 30.31 in. (5.01 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	7062	781	0.24	928	0.45	1065	0.70	1205	0.99	1324	1.28	1471	1.65	1593	2.07	1795	2.98
	8070	893	0.36	1019	0.58	1143	0.86	1268	1.18	1380	1.49	1494	1.85	1606	2.20	1837	3.17
	9079	1004	0.51	1119	0.77	1225	1.04	1341	1.39	1443	1.73	1550	2.12	1646	2.49	1853	3.34
	10088	1115	0.69	1224	1.00	1314	1.27	1420	1.65	1513	2.00	1613	2.41	1702	2.82	1878	3.67
	11097	1227	0.92	1328	1.26	1404	1.53	1502	1.93	1591	2.33	1681	2.74	1766	3.17		
	12106	1340	1.19	1432	1.56	1502	1.86	1590	2.26	1671	2.67	1759	3.14	1835	3.57		
	13114	1450	1.52	1536	1.91	1606	2.26	1680	2.65	1756	3.07	1838	3.57	1912	4.04		
	14123	1562	1.90	1642	2.32	1711	2.72	1772	3.07	1845	3.53	1919	4.04				

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	7062	549	0.27	634	0.51	706	0.72	792	0.98	893	1.29	997	1.26	1070	2.07	1186	2.90
	8070	627	0.41	702	0.67	769	0.92	837	1.18	907	1.47	1000	1.85	1096	2.27	1231	3.16
	9079	706	0.59	772	0.88	834	1.16	894	1.44	951	1.74	1019	2.08	1090	2.45	1261	3.44
	10088	784	0.81	843	1.13	898	1.44	957	1.77	1005	2.06	1062	2.41	1119	2.77	1262	3.68
	11097	863	1.08	917	1.43	967	1.76	1021	2.13	1068	2.46	1114	2.81	1163	3.17	1272	4.01
	12106	941	1.40	991	1.78	1037	2.14	1086	2.55	1132	2.92	1176	3.30	1215	3.65	1309	4.49
	13114	1019	1.78	1067	2.20	1107	2.58	1153	3.02	1196	3.42	1241	3.85	1277	4.22		
	14123	1098	2.23	1142	2.67	1180	3.09	1222	3.55	1381	3.98	1304	4.45	1342	4.88		

032

Max. BHP = $F (RPM/1000)^3$	Prop Diameter = 32 in.
F = 0.81 (091 @ 22°)	Bare Fan Weight = 320 lbs.
F = 2.84 (097 @ 28°)	Tip Speed, FPM = 8.38 x RPM
Inlet & Outlet Diameter (Area) = 32.33 in. (5.70 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	7980	727	0.27	864	0.51	991	0.79	1122	1.12	1232	1.45	1369	1.87	1483	2.34	1671	3.36
	9120	831	0.40	949	0.66	1064	0.97	1181	1.33	1285	1.69	1391	2.09	1495	2.49	1710	3.58
	10260	935	0.57	1042	0.87	1140	1.18	1249	1.57	1343	1.95	1443	2.40	1532	2.81	1725	3.77
	11400	1038	0.78	1140	1.13	1223	1.44	1322	1.86	1409	2.26	1501	2.73	1585	3.18	1748	4.15
	12540	1142	1.04	1236	1.42	1307	1.73	1398	2.18	1481	2.63	1565	3.10	1644	3.58		
	13680	1240	1.35	1333	1.76	1398	2.10	1480	2.56	1556	3.02	1638	3.55	1708	4.03		
	14820	1350	1.72	1430	2.16	1495	2.55	1564	2.99	1635	3.47	1711	4.03	1780	4.56		
	15960	1454	2.15	1529	2.62	1593	3.07	1649	3.47	1718	3.99	1787	4.56				

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	7980	511	0.31	590	0.57	657	0.81	737	1.10	831	1.46	928	1.91	996	2.34	1104	3.28
	9120	584	0.47	653	0.76	716	1.04	779	1.34	845	1.66	931	2.09	1020	2.57	1146	3.57
	10260	657	0.67	719	1.00	776	1.31	832	1.63	885	1.98	949	2.35	1015	2.77	1174	3.88
	11400	730	0.92	785	1.28	836	1.62	891	2.00	935	2.33	989	2.72	1042	3.13	1175	4.16
	12540	803	1.22	854	1.62	900	1.99	951	2.41	994	2.78	1037	3.17	1083	3.58	1184	4.53
	13680	876	1.58	923	2.01	965	2.42	1011	2.88	1054	3.30	1095	3.73	1131	4.12	1219	5.07
	14820	949	2.01	993	2.48	1031	2.92	1073	3.41	1113	3.86	1155	4.35	1189	4.77	1265	5.72
	15960	1022	2.52	1063	3.02	1098	3.49	1138	4.01	1174	4.50	1214	5.03	1249	5.51		

- Notes:
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

ULB - Low Silhouette, Belt Drive Fan Data

Upblast Roof Ventilator

036

Max. BHP = F (RPM/1000) ³	Prop Diameter = 36 in.
F = 1.46 (091 @ 22°)	Bare Fan Weight = 370 lbs.
F = 5.13 (097 @ 28°)	Tip Speed, FPM = 9.42 x RPM
Inlet & Outlet Diameter (Area) = 36.38 in. (7.93 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	10108	647	0.34	769	0.65	881	1.00	997	1.42	1096	1.84	1217	2.36	1318	2.96	1486	4.26
	11552	739	0.51	844	0.84	946	1.23	1050	1.68	1143	2.14	1237	2.65	1329	3.16	1520	4.54
	12996	831	0.72	926	1.10	1014	1.50	1110	2.00	1194	2.48	1283	3.04	1362	3.57	1533	4.77
	14440	924	0.99	1014	1.43	1088	1.82	1176	2.36	1253	2.87	1335	3.46	1409	4.03	1554	5.26
	15884	1016	1.32	1100	1.80	1163	2.20	1243	2.77	1317	3.33	1392	3.93	1461	4.54		
	17328	1108	1.72	1186	2.23	1243	2.66	1317	3.24	1384	3.83	1456	4.50	1519	5.11		
	18772	1201	2.18	1272	2.74	1330	3.24	1391	3.79	1454	4.40	1822	5.11	1583	5.78		
	20216	1293	2.73	1360	3.32	1417	3.90	1467	4.40	1528	5.05	1569	5.78				

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	10108	454	0.40	525	0.73	584	1.02	656	1.40	739	1.85	825	2.42	885	2.96	982	4.15
	11552	519	0.60	581	0.97	637	1.32	693	1.69	751	2.10	828	2.64	907	3.26	1019	4.52
	12996	584	0.85	639	1.26	690	1.66	740	2.07	787	2.48	844	2.98	902	3.50	1044	4.92
	14440	649	1.16	698	1.62	744	2.06	793	2.54	832	2.95	879	3.45	926	3.96	1048	5.26
	15884	714	1.55	759	2.05	800	2.53	846	3.06	884	3.53	922	4.02	963	4.54	1052	5.74
	17328	779	2.01	821	2.55	858	3.07	899	3.65	937	4.18	974	4.72	1006	5.22	1087	6.42
	18772	844	2.56	883	3.14	917	3.70	955	4.32	990	4.90	1027	5.52	1053	6.05		
	20216	909	3.19	945	3.82	977	4.42	1012	5.08	1044	5.70	1080	6.38	1111	6.98		

042

Max. BHP = F (RPM/1000) ³	Prop Diameter = 42 in.
F = 3.15 (091 @ 22°)	Bare Fan Weight = 500 lbs.
F = 11.10 (097 @ 28°)	Tip Speed, FPM = 11.00 x RPM
Inlet & Outlet Diameter (Area) = 42.44 in. (9.82 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	13748	554	0.46	659	0.88	755	1.36	855	1.94	939	2.50	1043	3.22	1130	4.02	1274	5.79
	15712	633	0.69	723	1.14	811	1.67	899	2.29	979	2.91	1060	3.61	1139	4.29	1303	6.17
	17676	712	0.98	794	1.49	869	2.04	951	2.71	1023	3.37	1100	4.13	1167	4.85	1314	6.50
	19640	791	1.35	868	1.94	932	2.48	1007	3.21	1073	3.90	1144	4.70	1207	5.48	1332	7.16
	21604	870	1.80	942	2.45	996	2.99	1065	3.76	1129	4.53	1193	5.35	1252	6.17		
	23568	949	2.33	1019	3.04	1065	3.62	1128	4.41	1185	5.21	1248	6.12	1301	6.94		
	25532	1029	2.96	1090	3.72	1139	4.40	1192	5.14	1246	5.99	1304	6.95	1356	7.86		
	27498	1108	3.70	1165	4.51	1214	5.30	1257	5.98	1309	6.87	1361	7.86				

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	13748	389	0.54	450	0.99	501	1.39	562	1.90	633	2.52	707	3.30	759	4.02	841	5.65
	15712	445	0.81	498	1.31	546	1.79	594	2.30	644	2.86	709	3.59	777	4.43	874	6.15
	17676	500	1.15	548	1.71	591	2.26	634	2.82	674	3.37	723	4.06	772	4.77	894	6.69
	19840	556	1.58	598	2.20	637	2.80	679	3.45	712	4.01	753	4.69	794	5.39	895	7.16
	21604	612	2.10	650	2.78	686	3.44	724	4.15	757	4.79	790	5.47	825	6.17	902	7.81
	23568	667	2.73	703	3.47	735	4.18	770	4.96	803	5.69	834	6.42	862	7.10	929	8.73
	25532	723	3.47	756	4.27	786	5.03	818	5.87	846	6.66	880	7.50	906	8.23		
	27498	779	4.34	810	5.20	836	6.01	867	6.91	895	7.75	925	8.67	952	9.49		

- Notes:
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Belt Drive Fan Data, Low Silhouette - ULB

Upblast Roof Ventilator

048

Max. BHP = F (RPM/1000) ³	Prop Diameter = 48 in.
F = 6.15 (091 @ 22°)	Bare Fan Weight = 620 lbs.
F = 21.57 (097 @ 28°)	Tip Speed, FPM = 12.57 x RPM
Inlet & Outlet Diameter (Area) = 48.50 in. (12.83 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	20528	554	0.90	633	1.49	709	2.19	787	2.99	857	3.80	927	4.72	997	5.61	1140	8.06
	23094	623	1.29	695	1.95	760	2.66	833	3.54	896	4.40	962	5.39	1021	6.34	1150	8.49
	25660	693	1.76	760	2.53	815	3.24	881	4.19	939	5.09	1001	6.14	1057	7.16	1166	9.35
	28226	762	2.35	825	3.20	872	3.91	932	4.91	988	5.92	1044	6.99	1096	8.06		
	30792	831	3.05	889	3.97	932	4.73	987	5.76	1037	6.81	1092	8.00	1139	9.07		
	33358	900	3.88	954	4.86	997	5.75	1043	6.72	1090	7.82	1141	9.08	1187	10.30		
	35924	970	4.84	1019	5.90	1063	6.92	1100	7.81	1145	8.98	1191	10.30				

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	20528	389	1.06	436	1.72	478	2.34	519	3.01	563	3.74	621	4.70	680	5.79	764	8.04
	23094	436	1.51	479	2.24	517	2.95	555	3.68	590	4.41	633	5.30	676	6.23	783	8.74
	25660	487	2.07	524	2.88	558	3.66	594	4.50	624	5.24	659	6.13	695	7.04	785	9.36
	28226	535	2.75	569	3.64	600	4.49	634	5.43	663	6.26	691	7.15	722	8.07	789	10.20
	30792	584	3.57	615	4.54	644	5.46	674	6.48	703	7.43	730	8.39	754	9.28	813	11.40
	33358	633	4.54	662	5.58	688	6.58	716	7.68	742	8.70	770	9.80	793	10.80		
	35924	681	5.67	709	6.79	732	7.85	759	9.03	783	10.10	810	11.30	866	12.40		

054

Max. BHP = F (RPM/1000) ³	Prop Diameter = 54 in.
F = 15.27 (091 @ 22°)	Bare Fan Weight = 770 lbs.
F = 38.92 (097 @ 28°)	Tip Speed, FPM = 14.14 x RPM
Inlet & Outlet Diameter (Area) = 54.56 in. (16.24 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	25984	493	1.14	562	1.89	631	2.77	700	3.79	762	4.82	824	5.97	886	7.10	1014	10.20
	29232	554	1.63	617	2.47	676	3.37	740	4.49	796	5.57	856	6.83	908	8.02	1022	10.70
	32480	616	2.23	676	3.21	725	4.10	784	5.30	835	6.45	890	7.78	939	9.07	1036	11.80
	35728	677	2.97	733	4.05	775	4.94	829	6.22	878	7.49	928	8.84	974	10.20		
	38976	739	3.86	790	5.02	829	5.98	877	7.29	922	8.52	971	10.10	1012	11.50		
	42224	800	4.91	848	6.15	886	7.28	927	8.51	969	9.90	1014	11.50	1055	13.00		
	45473	862	6.13	906	7.47	945	8.77	978	9.89	1018	11.40	1059	13.00				

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	25984	346	1.34	387	2.17	425	2.96	462	3.81	501	4.73	562	5.94	605	7.32	680	10.20
	29232	389	1.91	426	2.84	460	3.73	493	4.66	525	5.58	582	6.71	601	7.88	696	11.10
	32480	433	2.62	466	3.64	496	4.63	528	5.70	554	6.63	586	7.76	617	8.92	698	11.80
	35728	476	3.48	506	4.61	533	5.68	564	6.87	589	7.93	615	9.05	642	10.20	702	12.90
	38976	519	4.52	547	5.74	572	6.91	599	8.20	625	9.41	649	10.60	670	11.70	722	14.40
	42224	563	5.75	586	7.07	611	8.32	636	9.72	660	11.00	685	12.40	705	13.60		
	45473	606	7.18	630	8.60	651	9.94	675	11.40	696	12.80	720	14.30	740	15.70		

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

ULB - Low Silhouette, Belt Drive Fan Data

Upblast Roof Ventilator

060

Max. BHP = F (RPM/1000) ³	Prop Diameter = 60 in.
F = 18.78 (091 @ 22°)	Bare Fan Weight = 900 lbs.
F = 65.67 (097 @ 28°)	Tip Speed, FPM = 15.71 x RPM
Inlet & Outlet Diameter (Area) = 60.63 in. (20.05 sq. ft.)	

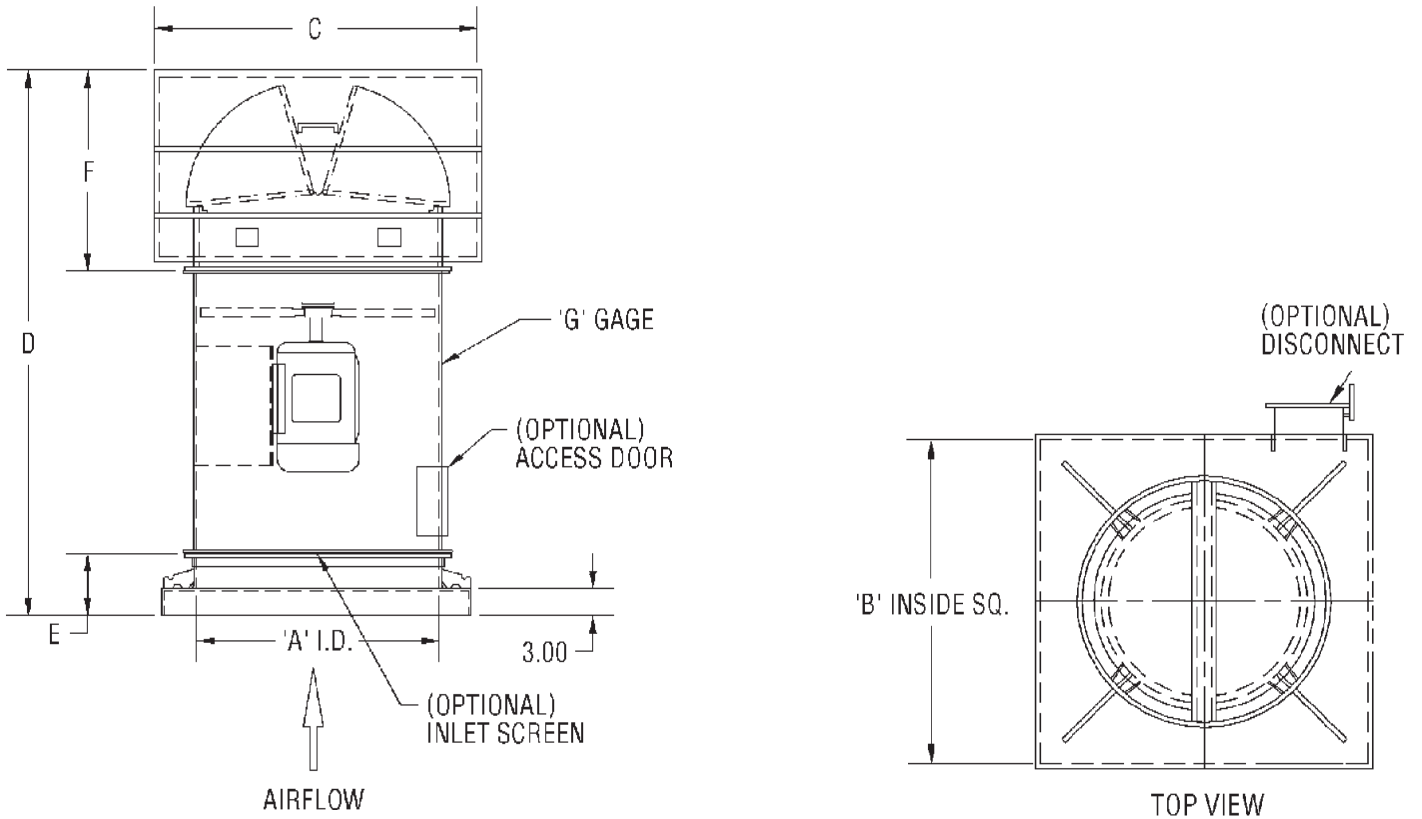
Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	32080	443	1.41	506	2.33	568	3.42	630	4.67	685	5.95	742	7.37	798	8.76	912	12.60
	36090	499	2.01	558	3.05	608	4.16	666	5.54	717	6.88	770	8.43	817	9.90	920	13.30
	40100	554	2.76	608	3.96	652	5.06	705	6.55	752	7.96	801	9.60	845	11.20	933	14.60
	44110	609	3.67	660	5.01	698	6.10	746	7.68	790	9.25	835	10.90	877	12.60		
	48126	665	4.76	711	6.20	746	7.39	790	9.00	830	10.60	874	12.50	911	14.20		
	52130	720	6.06	763	7.60	798	8.99	835	10.50	872	12.20	913	14.20	950	16.10		
	56140	776	7.57	816	9.22	850	10.80	880	12.20	916	14.00	953	16.10				

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	32080	312	1.65	349	2.68	382	3.66	418	4.70	451	5.84	497	7.34	544	9.04	612	12.60
	36090	350	2.35	383	3.50	414	4.61	444	5.75	472	6.88	506	8.28	551	9.73	626	13.70
	40100	389	3.25	419	4.50	446	5.72	475	7.04	499	8.19	527	9.58	556	11.00	628	14.60
	44110	428	4.30	456	5.69	480	7.02	507	8.49	530	9.79	553	11.20	578	12.60	631	15.90
	48126	467	5.58	492	7.09	515	8.53	539	10.10	562	11.60	584	13.10	603	14.50	650	17.80
	52130	506	7.10	530	8.73	550	10.30	573	12.00	594	13.60	616	15.30	635	16.80		
	56140	545	8.86	567	10.60	586	12.30	607	14.10	626	15.80	648	17.70	666	19.40		

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Direct Drive Fan Data - UTD

Upblast Roof Ventilator



SIZE	A	B	C	D, MTR. FRAME SIZE									E	F	G	UNIT WEIGHT
				48-56	143-145	182-184	213-215	254-256	284-286	324-326	364-365	404-405				
012	12.19	22.00	19.88	43.10	43.10	-	-	-	-	-	-	-	4.75	20.35	14	80
015	15.19	25.00	22.88	45.60	45.60	51.60	-	-	-	-	-	-	5.25	22.35	12	130
018	18.19	28.00	26.00	47.10	47.10	53.10	53.10	-	-	-	-	-	5.75	23.35	12	160
021	21.22	31.00	29.19	49.60	49.60	55.60	55.60	-	-	-	-	-	5.75	25.85	12	200
024	24.25	34.00	32.19	57.10	57.10	57.10	57.10	63.10	-	-	-	-	6.25	26.85	12	250
027	27.28	40.00	35.28	58.10	58.10	58.10	58.10	64.10	-	-	-	-	6.25	27.85	12	350
030	30.31	42.00	38.60	-	62.10	62.10	62.10	68.10	68.10	-	-	-	6.25	31.85	12	400
032	32.34	44.00	40.42	-	64.60	64.60	64.60	70.60	70.60	-	-	-	6.75	33.85	12	450
036	36.38	48.00	44.50	-	65.10	65.10	65.10	71.10	77.10	77.10	-	-	7.25	33.85	10	600
042	42.44	54.00	50.62	-	-	69.85	75.85	75.85	81.85	81.85	-	-	8.00	37.85	10	750
048	48.50	60.00	56.68	-	-	71.35	77.35	77.35	83.35	83.35	83.35	-	8.00	39.35	10	900
054	54.56	66.00	62.75	-	-	-	-	77.35	77.35	83.35	83.35	89.35	8.25	41.35	7	1250
060	60.63	72.00	68.88	-	-	-	-	87.60	87.60	93.60	93.60	99.60	8.25	43.35	7	1500

Notes:

1. Approximate fan weights are less motor and accessories.
2. Units are available with 091, 097 and 098 props
3. Dimensions should not be used for construction. Certified drawings are available upon request.

UTD - Direct Drive Fan Data

Upblast Roof Ventilator

012

Max. RPM = 3450	Prop Diameter = 12 in.
Bare Fan Weight = 80 lbs.	Tip Speed, FPM = 3.14 x RPM
Inlet & Outlet Diameter (Area) = 12.19 in. (0.81 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP			
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP		
098	1750	27	1324	0.09																
		12	1674	0.19	1591	0.22	1535	0.24	1478	0.26	1419	0.28	1359	0.30	1296	0.31				
	3450	17	1992	0.31	1944	0.33	1895	0.35	1836	0.38	1777	0.40	1709	0.43	1633	0.45	1418	0.50		
		22	2307	0.46	2247	0.48	2186	0.51	2118	0.53	2050	0.55	1969	0.57	1886	0.59	1688	0.62		
		27	2611	0.69	2534	0.71	2456	0.74	2378	0.76	2296	0.78	2212	0.80	2122	0.81	1922	0.85		

015

Max. RPM = 3450	Prop Diameter = 15 in.
Bare Fan Weight = 130 lbs.	Tip Speed, FPM = 3.93 x RPM
Inlet & Outlet Diameter (Area) = 15.19 in. (1.26 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP			
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP		
098	1750	22	2286	0.18	2133	0.21														
		27	2587	0.28	2395	0.30	2193	0.32												
	3450	12	3217	0.59	3147	0.63	3076	0.68	3006	0.72	2935	0.77	2865	0.82	2790	0.85	2639	0.91		
		17	3890	0.94	3830	0.98	3770	1.03	3709	1.07	3636	1.12	3563	1.17	3489	1.22	3320	1.31		
		22	4506	1.39	4431	1.44	4355	1.49	4280	1.54	4195	1.58	4110	1.63	4025	1.67	3827	1.75		
		27	5100	2.11	5003	2.15	4906	2.20	4809	2.24	4711	2.28	4613	2.32	4511	2.36	4300	2.44		

018

Max. RPM = 1750	Prop Diameter = 18 in.
Bare Fan Weight = 160 lbs.	Tip Speed, FPM = 4.71 x RPM
Inlet & Outlet Diameter (Area) = 18.19 in. (1.80 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
098	1150	27	2937	0.19															
		12	2820	0.19															
	1750	17	3410	0.30	3267	0.34	3097	0.39	2902	0.43									
		22	3950	0.45	3771	0.49	3573	0.53	3080	0.60	3080	0.60							
		27	4470	0.68	4241	0.72	4009	0.76	3760	0.79	3487	0.82	3162	0.85					

021

Max. RPM = 1750	Prop Diameter = 21 in.
Bare Fan Weight = 200 lbs.	Tip Speed, FPM = 5.50 x RPM
Inlet & Outlet Diameter (Area) = 21.21 in. (2.45 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
098	1150	17	3558	0.19														
		22	4122	0.28	3791	0.32												
		27	4665	0.42	4256	0.46	3810	0.49										
	1750	12	4478	0.41	4284	0.48	4089	0.54	3889	0.60	3681	0.54	3456	0.68				
		17	5415	0.66	5248	0.72	5065	0.79	4862	0.85	4630	0.92	4369	0.99	4006	1.05		
		22	6272	0.97	6064	1.04	5843	1.11	5608	1.17	5337	1.23	5037	1.28	4700	1.32		

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Direct Drive Fan Data - UTD

Upblast Roof Ventilator

024

Max. RPM = 1750	Prop Diameter = 24 in.
Bare Fan Weight = 250 lbs.	Tip Speed, FPM = 6.28 x RPM
Inlet & Outlet Diameter (Area) = 24.25 in. (3.21 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM
098	1150	17	5312	0.36	5013	0.43	4657	0.49											
		22	6153	0.54	5784	0.61	5360	0.67	4838	0.72									
		27	6963	0.82	6497	0.88	6011	0.93	5474	0.98	4805	1.02							
	1750	12	6884	0.80	6462	0.90	6240	0.99	6018	1.09	5786	1.17	5548	1.23	5306	1.30	4751	1.41	
		17	8083	1.29	7892	1.38	7702	1.47	7470	1.57	7239	1.67	6978	1.77	6680	1.87	5903	2.07	
		22	9363	1.90	9125	2.00	8886	2.11	8618	2.20	8349	2.29	8038	2.37	7718	2.45	6948	2.58	
		27	10596	2.89	10290	2.98	9984	3.07	9675	3.16	9357	3.24	9024	3.32	8673	3.39	7896	3.52	

027

Max. RPM = 1750	Prop Diameter = 27 in.
Bare Fan Weight = 350 lbs.	Tip Speed, FPM = 7.07 x RPM
Inlet & Outlet Diameter (Area) = 27.28 in. (4.06 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
098	1150	12	6254	0.41	5874	0.50												
		17	7573	0.66	7237	0.74	6847	0.84	6392	0.93	5796	1.02						
		22	8761	0.97	8353	1.07	7897	1.16	7375	1.23	6756	1.30	5985	1.33				
		27	9914	1.48	9390	1.56	8861	1.64	8288	1.71	7654	1.78	6893	1.83				
	1750	12	9517	1.44	9267	1.58	9017	1.72	8767	1.85	8517	1.99	8255	2.10	7987	2.19	7428	2.37
		17	11509	2.32	11294	2.45	11080	2.58	10844	2.72	10582	2.86	10323	3.00	10045	3.14	9375	3.44
		22	13331	3.42	13063	3.57	12796	3.72	12511	3.86	12209	3.99	11906	4.12	11564	4.24	10820	4.46
		27	15086	5.20	14742	5.33	14399	5.46	14052	5.59	13705	5.71	13346	5.83	12971	5.94	13183	6.15

030

Max. RPM = 1750	Prop Diameter = 30 in.
Bare Fan Weight = 400 lbs.	Tip Speed, FPM = 7.85 x RPM
Inlet & Outlet Diameter (Area) = 30.31 in. (5.01 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
098	1150	12	8749	0.74	8326	0.87	7902	0.99	7461	1.09								
		17	10584	1.19	10217	1.30	9806	1.43	9342	1.57	8781	1.69	7995	1.82	7023	1.94		
		22	12255	1.75	11802	1.89	11312	2.02	10776	2.13	10152	2.24	9428	2.32				
		27	13868	2.66	13286	2.78	12700	2.89	12089	3.01	11430	3.10	10689	3.19				
	1750	12	13314	2.60	13036	2.79	12758	2.99	12480	3.18	12202	3.37	11920	3.55	11635	3.72	11031	3.98
		17	16100	4.18	15861	4.36	15623	4.55	15376	4.74	15104	4.93	14815	5.12	14519	5.32	13880	5.72
		22	18649	6.17	18351	6.38	18054	6.59	17749	6.79	17427	6.98	17091	7.17	16738	7.34	15988	7.68
		27	21103	9.40	20722	9.57	20340	9.74	19957	9.92	19571	10.10	19180	10.30	18784	10.40	18344	10.70

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

UTD - Direct Drive Fan Data

Upblast Roof Ventilator

032

Max. RPM = 1750	Prop Diameter = 32 in.
Bare Fan Weight = 450 lbs.	Tip Speed, FPM = 8.38 x RPM
Inlet & Outlet Diameter (Area) = 32.33 in. (5.70 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
098	1150	12	10412	0.96	9961	1.11	9510	1.26	9047	1.39	8564	1.49	8043	1.59				
		17	12591	1.54	12204	1.68	11778	1.83	11309	1.99	10771	2.14	10167	2.30	9237	2.45		
		22	14584	2.27	14101	2.43	13589	2.59	13043	2.73	12416	2.86	11723	2.98	10943	3.08		
		27	16504	3.45	15884	3.59	15280	3.73	14623	3.87	13947	3.98	13220	4.10	12420	4.20		
	1750	12	15845	3.37	15548	3.60	15252	3.83	14956	4.06	14659	4.29	14363	4.52	14067	4.74	13433	5.05
		17	19160	5.42	18906	5.64	18652	5.86	18398	6.08	18119	6.31	17810	6.54	17501	6.77	16884	7.24
		22	22194	8.01	21876	8.25	21559	8.50	21241	8.75	20905	8.98	20547	9.20	21088	9.41	19434	9.83
		27	25115	12.20	24708	12.40	24301	12.60	23893	12.80	23482	13.00	23070	13.20	22659	13.40	21785	13.80

036

Max. RPM = 1150	Prop Diameter = 36 in.
Bare Fan Weight = 600 lbs.	Tip Speed, FPM = 9.42 x RPM
Inlet & Outlet Diameter (Area) = 36.38 in. (7.22 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
091	870	18	11849	0.72	10631	0.86												
		22	13464	0.95	12168	1.05	10601	1.11										
		26	14865	1.15	13283	1.24	11492	1.31										
		30	15996	1.30	14317	1.44	12410	1.52										
	1150	14	13170	1.06	12420	1.18	11416	1.30	10328	1.38								
		18	15662	1.66	14755	1.84	13790	2.03	12718	2.20	11134	2.06						
		22	17798	2.20	16874	2.32	15817	2.45	14662	2.53	13156	2.63						
		26	19649	2.67	18464	2.76	17251	2.91	15951	3.00	14324	3.06						
		30	21144	2.99	19960	3.18	18573	3.37	17180	3.49	15484	3.53						

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
098	870	12	11216	0.75	10545	0.91												
		17	13562	1.20	12987	1.36	12302	1.52	11510	1.69	10482	1.86						
		22	15710	1.77	14991	1.95	14190	2.10	13275	2.24	12196	2.37	10965	2.43				
		27	17778	2.69	16855	2.85	15924	2.99	14920	3.12	13813	3.24	12491	3.33				
	1150	12	14825	1.73	14318	1.94	13811	2.15	13303	2.37	12771	2.53	12228	2.67	11660	2.81	10348	3.07
		17	17927	2.77	17492	2.98	17051	3.18	16523	3.40	15994	3.62	15379	3.85	14699	4.08	12760	4.51
		22	20766	4.10	20222	4.33	19674	4.55	19061	4.76	18447	4.96	17724	5.14	16976	5.31	15194	5.57
		27	23499	6.22	22802	6.42	22102	6.62	21398	6.82	20666	7.00	19905	7.17	19095	7.33	17297	7.62

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Direct Drive Fan Data - UTD

Upblast Roof Ventilator

042

Max. RPM = 1150	Prop Diameter = 42 in.
Bare Fan Weight = 750 lbs.	Tip Speed, FPM = 11.00 x RPM
Inlet & Outlet Diameter (Area) = 42.44 in. (9.82 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
091	870	14	15822	0.99	14578	1.14													
		18	18815	1.55	17416	1.77	15856	2.00	13733	1.96									
		22	21381	2.06	19911	2.20	18223	2.34	16108	2.45									
		26	23605	2.50	21768	2.62	19845	2.77	17515	2.86									
		30	25401	2.80	23510	3.02	21363	3.22	19022	3.30									
	1150	14	20914	2.30	20146	2.49	18974	2.68	17778	2.85	16506	2.97	15162	3.08	13414	3.12			
		18	24871	3.58	23812	3.88	22754	4.17	21560	4.47	20343	4.77	18579	4.57	16320	4.27			
		22	28262	4.75	27224	4.93	26008	5.14	24764	5.35	23396	5.46	21770	5.61					
		26	31202	5.76	29820	5.91	28416	6.12	26991	6.34	25457	6.47	23635	6.58					
		30	33576	6.47	32195	6.76	30666	7.06	29042	7.34	27417	7.52	25595	7.61					

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
098	870	12	17810	1.61	17028	1.87	16245	2.13	15440	2.35	14602	2.52	13689	2.68				
		17	21536	2.59	20866	2.84	20124	3.10	19309	3.36	18365	3.63	17297	3.90	15830	4.16		
		22	24946	3.83	24108	4.11	23217	4.37	22271	4.61	21174	4.83	19959	5.03	18593	5.19		
		27	28231	5.82	27155	6.06	26072	6.30	24963	6.53	23790	6.73	22523	6.92	21120	7.09		
		30	30542	7.33	29500	7.63	28358	7.93	27166	8.23	25975	8.53	24682	8.83	22928	9.13	18640	6.05
	1150	12	23542	3.73	22950	4.07	22358	4.41	21766	4.75	21175	5.09	20562	5.37	19928	5.60	18640	6.05
		17	28467	5.99	27960	6.31	27453	6.64	26905	6.98	26289	7.33	25672	7.67	25056	8.02	23474	8.75
		22	32975	8.85	32341	9.22	31707	9.58	31043	9.93	30327	10.30	29611	10.60	28833	10.90	27125	11.40
		27	37316	13.40	36502	13.80	35689	14.10	34869	14.40	34047	14.70	33212	15.00	32324	15.30	30483	15.80
		30	40542	16.40	39688	16.80	38834	17.10	37980	17.40	37126	17.70	36272	18.00	35518	18.30	33833	19.00

048

Max. RPM = 1150	Prop Diameter = 48 in.
Bare Fan Weight = 900 lbs.	Tip Speed, FPM = 12.57 x RPM
Inlet & Outlet Diameter (Area) = 48.50 in. (12.83 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
091	870	14	23618	1.94	22303	2.15	20533	2.37										
		18	28086	3.02	26487	3.35	24792	3.69	22946	4.02								
		22	31916	4.01	30292	4.22	28429	4.46	26400	4.61	23801	4.79						
		26	35235	4.87	33147	5.04	31010	5.30	28725	5.47	25858	5.58						
		30	37916	5.46	35830	5.79	33391	6.14	30937	6.35	28165	6.44						
	1150	14	31219	4.48	30437	4.76	29143	5.05	27804	5.33	26419	5.58	24965	5.76	23498	5.93		
		18	37125	6.99	35915	7.42	34706	7.86	33458	8.30	32069	8.75	30681	9.20	28802	9.07		
		22	42187	9.26	41001	9.53	39685	9.83	38375	10.10	36837	10.40	35275	10.60	33696	10.80		
		26	46575	11.20	44996	11.50	43406	11.70	41790	12.10	40146	12.40	38394	12.60	36494	12.80		
		30	50119	12.60	48541	13.00	46912	13.50	45050	13.90	43199	14.30	41343	14.60	39337	14.80		

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
098	870	12	26585	3.15	25691	3.53	24797	3.91	23903	4.30	22969	4.60	22011	4.86	21027	5.11		
		17	32147	5.05	31381	5.42	30609	5.79	29678	6.19	28747	6.58	27682	6.98	26485	7.40	23242	8.17
		22	37238	7.47	36280	7.88	35318	8.30	34237	8.66	33155	9.03	31897	9.35	30601	9.67	27481	10.10
		27	42140	11.30	40911	11.70	39676	12.10	38436	12.40	37153	12.80	35812	13.10	34294	13.30	31252	13.90
		30	46542	15.40	45113	15.80	43784	16.20	42455	16.60	41131	17.00	39407	17.40	37483	17.80	33833	19.00
	1150	12	35141	7.27	34465	7.78	33788	8.28	33112	8.79	32430	9.30	31759	9.80	31078	10.30	29629	11.00
		17	42493	11.70	41914	12.20	41334	12.70	40754	13.10	40104	13.60	39400	14.20	38695	14.70	37258	15.70
		22	49222	17.30	48498	17.80	47773	18.30	47048	18.90	46271	19.40	45453	19.90	44365	20.40	42880	21.30
		27	55702	26.20	54772	26.70	53842	27.20	52912	27.70	51973	28.10	51033	28.60	50094	29.00	48085	29.90
		30	60542	33.40	59413	33.90	58483	34.40	57553	34.90	56623	35.40	55683	35.90	54743	36.40	52734	38.00

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

UTD - Direct Drive Fan Data

Upblast Roof Ventilator

054

Max. RPM = 870	Prop Diameter = 54 in.
Bare Fan Weight = 1250 lbs.	Tip Speed, FPM = 14.14 x RPM
Inlet & Outlet Diameter (Area) = 54.56 in. (16.24 sq. ft.)	

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
091	695	14	26863	1.78															
		18	31946	2.78	29694	3.15	27205	3.54											
		22	36302	3.69	33950	3.93	31259	4.17	28042	4.35									
		26	40077	4.47	37123	4.68	34053	4.95	30438	5.10									
		30	43127	5.01	40106	5.39	36651	5.74	32950	5.90									
	870	14	33627	3.50	32285	3.80	30293	4.11	28235	4.37	26074	4.57							
		18	39989	5.45	38191	5.92	36392	6.39	34332	6.88	32062	7.19	29057	6.87					
		22	45443	7.23	43678	7.52	41591	7.86	39441	8.35	37118	8.35	34099	8.61					
		26	50169	8.77	47821	9.01	45430	9.35	42976	9.68	40370	9.89	37086	10.00					
		30	53986	9.84	51639	10.30	49010	10.80	46249	11.20	43468	11.50	40300	11.60					

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
098	695	12	30238	2.89	28979	3.33	27720	3.76	26437	4.16								
		17	36565	4.64	35486	5.06	34311	5.50	33000	5.94	31551	6.40	29865	6.87	27655	7.30		
		22	42355	6.86	41006	7.33	39586	7.78	38063	8.20	36350	8.58	34477	8.93	32331	9.25		
		27	47931	10.40	46200	10.80	44458	11.20	42695	11.60	40806	12.00	38805	12.30	36636	12.60		
	870	12	37852	5.67	36847	6.22	35841	6.76	34835	7.31	33829	7.85	32771	8.27	31694	8.63	29428	9.34
		17	45772	9.11	44910	9.63	44048	10.20	43091	10.70	42044	11.30	40996	11.80	39857	12.40	37163	13.60
		22	53020	13.50	51943	14.10	50865	14.60	49717	15.20	48500	15.70	47284	16.20	45891	16.70	42875	17.60
		27	60000	20.50	58617	21.00	57234	21.50	55839	22.00	54442	22.50	52994	22.90	51485	23.40	48306	24.20

060

Max. RPM = 870	Prop Diameter = 60 in.
Bare Fan Weight = 1500 lbs.	Tip Speed, FPM = 15.71 x RPM
Inlet & Outlet Diameter (Area) = 60.63 in. (20.05 sq. ft.)	

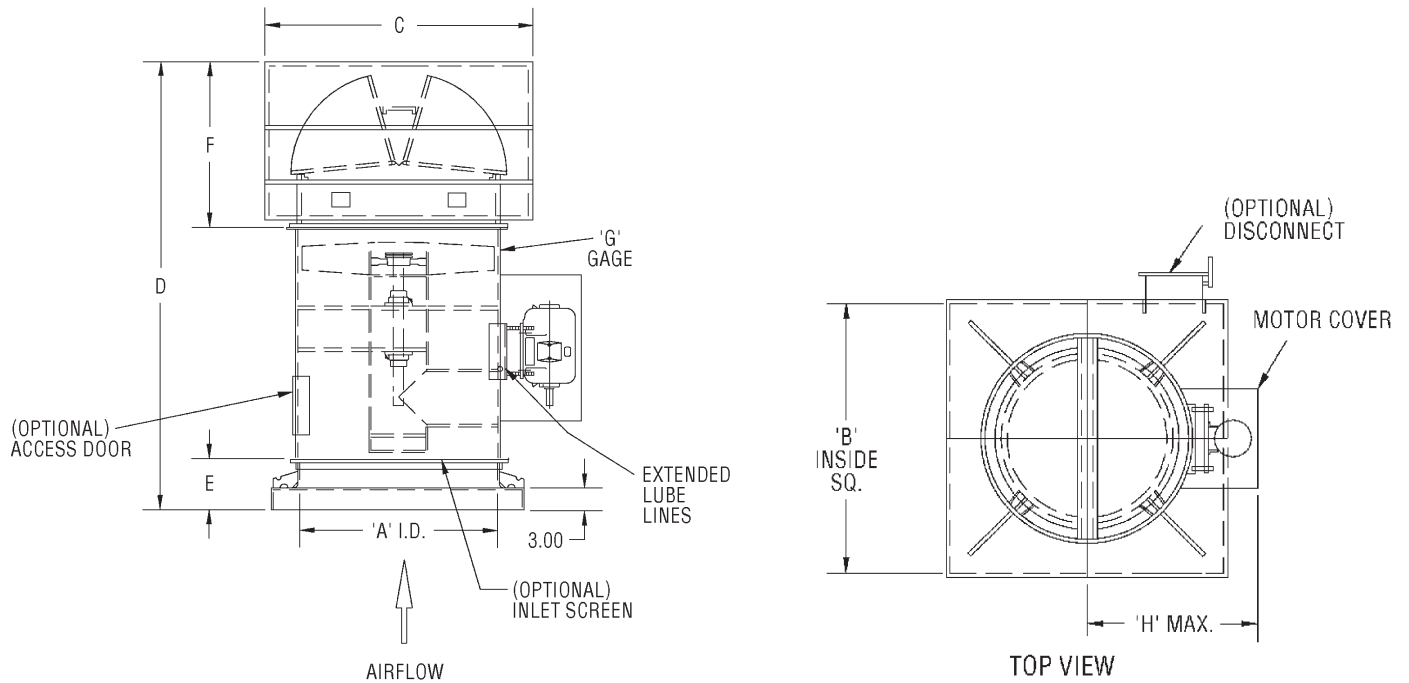
Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
091	695	14	36850	3.02	34791	3.35												
		18	43821	4.71	41319	5.22	38666	5.74	35766	6.26								
		22	49797	6.24	47255	6.57	44339	6.94	41164	7.18	37082	7.45						
		26	54975	7.57	51708	7.84	48365	8.24	44787	8.51	40352	8.68						
		30	59158	8.49	55895	9.01	52077	9.55	48237	9.89	43894	10.00						
	870	14	46128	5.92	44806	6.34	42593	6.76	40380	7.18	38020	7.48	35618	7.75	33011	7.95		
		18	54855	9.23	52856	9.87	50858	10.50	48709	11.20	46415	11.80	43776	12.10	40444	11.70		
		22	62335	12.20	60375	12.60	58145	13.10	55816	13.60	53338	13.90	50757	14.20	47420	14.50		
		26	68818	14.90	66209	15.20	63571	15.60	60901	16.10	58094	16.50	55199	16.80	51526	17.00		
		30	74054	16.70	71447	17.30	68668	18.00	65600	18.60	62533	19.10	59410	19.50	55889	19.60		

Prop	RPM	PITCH	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
098	695	12	41479	4.90	40080	5.50	38682	6.09	37283	6.69	35820	7.16	34322	7.56	32777	7.95		
		17	50158	7.86	48959	8.44	47750	9.02	46293	9.63	44836	10.20	43165	10.90	41291	11.50	36171	12.70
		22	58100	11.60	56602	12.30	55096	12.90	53403	13.50	51711	14.00	49738	14.60	47705	15.00	42817	15.80
		27	65749	17.70	63826	18.20	61896	18.80	59553	19.30	57944	19.80	55843	20.30	53625	20.80	48701	21.60
	870	12	51924	9.61	50806	10.40	49689	11.10	48571	11.90	47454	12.60	46336	13.30	45161	13.90	42766	14.90
		17	62784	15.40	61829	16.10	60872	16.90	59914	17.60	58765	18.40	57601	19.10	56437	19.90	53786	21.50
		22	72730	22.80	71533	23.60	70335	24.40	69138	25.20	67798	25.90	66446	26.70	65094	27.40	61996	28.70
		27	82305	34.60	80768	35.30	79232	36.10	77689	36.80	76137	37.40	74585	38.10	72984	38.80	69631	39.90

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Belt Drive Fan Data - UTB

Upblast Roof Ventilator



SIZE	A	B	C	D				E	F	G	H	UNIT WEIGHT
				DESIGN 1	MAX. MTR.	DESIGN 2	MAX. MTR.					
012	12.19	22.00	19.88	49.10	184	-	-	4.75	20.35	14	26.00	140
015	15.19	25.00	22.88	55.60	215	-	-	5.25	22.35	12	27.50	170
018	18.19	28.00	26.00	57.10	215	-	-	5.75	23.35	12	30.00	240
021	21.22	31.00	29.19	59.60	256	-	-	5.75	25.85	12	31.50	290
024	24.25	34.00	32.19	61.10	215	65.10	286	6.25	26.85	12	36.25	380
027	27.28	40.00	35.28	62.10	215	66.10	286	6.25	27.85	12	37.75	450
030	30.31	42.00	38.60	66.10	215	74.10	286	6.25	31.85	12	40.25	560
032	32.34	44.00	40.42	68.60	215	76.60	326	6.75	33.85	12	42.75	600
036	36.38	48.00	44.50	77.10	256	83.10	326	7.25	33.85	10	44.75	830
042	42.44	54.00	50.62	81.85	256	87.85	365	8.00	37.85	10	49.25	980
048	48.50	60.00	56.68	89.35	286	95.35	405	8.00	39.35	10	54.25	1350
054	54.56	66.00	62.75	97.60	286	103.60	405	8.25	41.35	7	57.25	1800
060	60.63	72.00	68.88	99.60	286	105.60	405	8.25	43.35	7	60.25	2050

Notes:

1. Approximate fan weights are less motor and accessories.
2. Units are available with 091, 097 and 098 props.
3. Dimensions should not be used for construction. Certified drawings are available upon request.

UTB - Belt Drive Fan Data

Upblast Roof Ventilator

012

Max. BHP = F (RPM/1000)	Prop Diameter = 12 in.
F = 0.008 (098 @ 12°)	Tip Speed, FPM = 3.14 x RPM
Inlet & Outlet Diameter (Area) = 12.19 in. (0.81 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
098	1296	2724	0.08	2872	0.11	3007	0.15	3138	0.19	3264	0.23	3382	0.27	3499	0.31	3728	0.39
	1458	3065	0.11	3198	0.15	3321	0.19	3437	0.24	3554	0.28	3665	0.32	3771	0.37	3977	0.46
	1620	3405	0.16	3526	0.20	3639	0.24	3746	0.29	3850	0.34	3955	0.39	4056	0.43	4245	0.53
	1782	3746	0.21	3856	0.25	3961	0.30	4060	0.36	4156	0.41	4250	0.46	4346	0.51	4527	0.62
	1944	4086	0.27	4188	0.32	4285	0.37	4378	0.43	4468	0.49	4554	0.54	4641	0.60		
	2106	4427	0.34	4521	0.40	4611	0.46	4699	0.51								
	2268	4767	0.43														

015

Max. BHP = F (RPM/1000)	Prop Diameter = 15 in.
F = 0.025 (098 @ 12°)	Tip Speed, FPM = 3.93 x RPM
Inlet & Outlet Diameter (Area) = 15.19 in. (1.26 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
098	2013	2166	0.12	2285	0.18	2394	0.24	2499	0.29	2600	0.35	2695	0.42	2789	0.48	2973	0.61
	2264	2437	0.17	2544	0.24	2643	0.30	2736	0.37	2830	0.43	2290	0.50	3005	0.57	3170	0.71
	2516	2708	0.24	2805	0.31	2896	0.38	2982	0.45	3065	0.53	3150	0.60	3231	0.67	3383	0.83
	2768	2978	0.32	3067	0.39	3151	0.47	3232	0.55	3308	0.63	3385	0.71	3461	0.79	3606	0.96
	3019	3249	0.41	3331	0.49	3409	0.58	3484	0.66	3558	0.75	3625	0.84	3696	0.93		
	3271	3520	0.52	3596	0.61	3669	0.70	3739	0.79	3806	0.89						
	3522	3791	0.65														

018

Max. BHP = F (RPM/1000) ³	Prop Diameter = 18 in.
F = 0.11 (097 @ 28°)	Tip Speed, FPM = 4.71 x RPM
F = 0.06 (098 @ 12°)	
Inlet & Outlet Diameter (Area) = 18.19 in. (1.80 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	2880	983	0.16	1111	0.24	1240	0.34	1369	0.47	1498	0.61	1633	0.78				
	3240	1106	0.22	1220	0.31	1334	0.42	1448	0.54	1564	0.70	1677	0.86	1793	1.05		
	3600	1229	0.30	1331	0.40	1434	0.51	1537	0.64	1641	0.79	1745	0.96	1845	1.14	2065	1.56
	3960	1352	0.40	1445	0.51	1538	0.63	1632	0.76	1725	0.91	1820	1.09	1914	1.27	2102	1.69
	4320	1475	0.53	1561	0.64	1646	0.76	1731	0.90	1816	1.06	1902	1.23	1990	1.42	2161	1.84
	4680	1598	0.67	1678	0.79	1755	0.92	1833	1.07	1913	1.23	1993	1.40	2070	1.59		
	5040	1721	0.83	1795	0.96	1866	1.10	1940	1.26	2014	1.42	2086	1.59	2161	1.79		

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
098	2880	1794	0.17	1894	0.25	1984	0.34	2073	0.42	2157	0.50	2236	0.59	2315	0.68	2470	0.87
	3240	2018	0.25	2108	0.33	2191	0.43	2268	0.52	2348	0.62	2422	0.71	2493	0.81	2632	1.01
	3600	2242	0.34	2324	0.43	2400	0.54	2472	0.64	2542	0.75	2613	0.85	2680	0.96	2807	1.18
	3960	2466	0.45	2541	0.55	2611	0.67	2678	0.78	2742	0.90	2807	1.01	2871	1.13	2992	1.36
	4320	2690	0.58	2759	0.70	2824	0.82	2887	0.94	2947	1.07	3005	1.20	3065	1.32	3181	1.57
	4680	2915	0.74	2978	0.86	3039	0.99	3098	1.13	3155	1.26						
	5040	3139	0.92														

- Notes:
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Belt Drive Fan Data - UTB

Upblast Roof Ventilator

021

Max. BHP = F (RPM/1000) ³	Prop Diameter = 21 in.
F = 0.238 (097 @ 28°)	Tip Speed, FPM = 5.50 x RPM
F = 0.13 (098 @ 12°)	
Inlet & Outlet Diameter (Area) = 21.21 in. (2.45 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	3430	737	0.14	863	0.24	990	0.38	1115	0.55	1251	0.76						
	3920	843	0.21	953	0.32	1063	0.46	1174	0.63	1284	0.83	1400	1.07				
	4410	948	0.30	1046	0.42	1143	0.57	1241	0.74	1341	0.95	1438	1.17	1537	1.42		
	4900	1053	0.41	1141	0.54	1229	0.70	1317	0.87	1406	1.08	1495	1.31	1581	1.56	1770	2.15
	5390	1159	0.55	1239	0.69	1318	0.85	1398	1.04	1479	1.24	1560	1.48	1641	1.73	1801	2.30
	5880	1264	0.71	1338	0.87	1411	1.04	1484	1.23	1557	1.44	1630	1.67	1706	1.93	1853	2.50
	6370	1369	0.91	1438	1.07	1505	1.25	1571	1.45	1640	1.67	1708	1.90	1775	2.16		
	6860	1475	1.14	1538	1.31	1600	1.50	1663	1.71	1726	1.93	1788	2.17	1852	2.43		

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
098	3430	1345	0.16	1442	0.25	1529	0.35	1613	0.45	1691	0.56	1766	0.67	1843	0.78		
	3920	1537	0.23	1623	0.34	1701	0.46	1777	0.57	1849	0.69	1917	0.81	1984	0.93	2117	1.18
	4410	1730	0.33	1807	0.45	1878	0.58	1944	0.71	2012	0.84	2076	0.97	2137	1.11	2256	1.38
	4900	1922	0.46	1992	0.59	2057	0.73	2119	0.87	2179	1.02	2239	1.16	2297	1.30	2406	1.61
	5390	2114	0.61	2178	0.76	2238	0.91	2296	1.06	2351	1.22	2406	1.38	2461	1.53	2565	1.86
	5880	2306	0.79	2365	0.95	2421	1.11	2475	1.28	2526	1.45	2576	1.63	2627	1.80	2726	2.14
	6370	2498	1.01	2553	1.18	2605	1.35	2655	1.53	2704	1.72						
	6860	2690	1.26														

024

Max. BHP = F (RPM/1000) ³	Prop Diameter = 24 in.
F = 0.464 (097 @ 28°)	Tip Speed, FPM = 6.28 x RPM
F = 0.253 (098 @ 12°)	
Inlet & Outlet Diameter (Area) = 24.25 in. (3.21 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	4494	647	0.19	757	0.32	867	0.49	976	0.71	1095	0.99						
	5136	740	0.28	836	0.42	932	0.60	1029	0.83	1124	1.09	1225	1.40				
	5778	832	0.40	917	0.55	1003	0.74	1087	0.97	1175	1.24	1259	1.53	1346	1.86		
	6420	925	0.55	1001	0.71	1078	0.92	1155	1.15	1232	1.42	1310	1.72	1385	2.04	1549	2.81
	7062	1017	0.73	1087	0.91	1156	1.12	1226	1.36	1296	1.63	1367	1.94	1438	2.27	1578	3.01
	7704	1110	0.94	1174	1.14	1238	1.37	1301	1.62	1365	1.89	1429	2.19	1495	2.54	1623	3.28
	8346	1202	1.20	1262	1.41	1320	1.65	1378	1.91	1438	2.19	1497	2.50	1555	2.83		
	8988	1295	1.50	1350	1.72	1403	1.97	1459	2.25	1514	2.54	1568	2.85	1624	3.19		

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
098	4494	1181	0.21	1265	0.33	1341	0.46	1414	0.60	1482	0.73	1548	0.87	1615	1.02		
	5136	1349	0.31	1424	0.45	1492	0.60	1558	0.75	1621	0.90	1681	1.06	1739	1.22	1855	1.55
	5778	1518	0.44	1585	0.60	1647	0.76	1705	0.93	1765	1.10	1821	1.27	1874	1.45	1977	1.81
	6420	1687	0.60	1748	0.78	1805	0.96	1859	1.15	1911	1.34	1964	1.52	2015	1.71	2110	2.11
	7062	1855	0.80	1911	0.99	1964	1.19	2014	1.39	2062	1.60	2110	1.81	2158	2.02	2249	2.44
	7704	2024	1.04	2075	1.25	2124	1.46	2171	1.68	2216	1.91	2260	2.14	2304	2.36		
	8346	2193	1.33	2240	1.55	2286	1.78	2330	2.02	2372	2.26						
	8988	2361	1.66														

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

UTB - Belt Drive Fan Data

Upblast Roof Ventilator

027

Max. BHP = F (RPM/1000) ³	Prop Diameter = 27 in.
F = 0.835 (097 @ 28°)	Tip Speed, FPM = 7.07 x RPM
F = 0.456 (098 @ 12°)	
Inlet & Outlet Diameter (Area) = 27.28 in. (4.06 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	5684	575	0.24	672	0.40	771	0.63	868	0.90	973	1.25						
	6496	657	0.35	742	0.53	828	0.76	914	1.05	999	1.38	1089	1.77				
	7308	739	0.50	815	0.70	891	0.94	966	1.23	1044	1.57	1119	1.94	1196	2.36		
	8120	821	0.69	889	0.90	958	1.16	1026	1.45	1095	1.79	1164	2.18	1231	2.58	1377	3.55
	8932	904	0.92	966	1.15	1027	1.42	1089	1.72	1152	2.06	1215	2.45	1278	2.88	1402	3.81
	9744	986	1.19	1043	1.44	1099	1.73	1156	2.04	1213	2.39	1270	2.77	1328	3.21	1442	4.15
	10556	1066	1.51	1121	1.78	1173	2.08	1223	2.41	1278	2.77	1330	3.16	1382	3.58		
	11368	1150	1.89	1199	2.18	1247	2.49	1296	2.84	1345	3.21	1393	3.60	1443	4.04		

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
098	5684	1035	0.25	1117	0.40	1186	0.56	1251	0.72	1314	0.90						
	6496	1184	0.37	1256	0.55	1319	0.73	1378	0.90	1434	1.10	1490	1.29				
	7308	1331	0.52	1398	0.73	1455	0.93	1509	1.13	1561	1.34	1611	1.55	1660	1.77		
	8120	1479	0.72	1540	0.94	1593	1.17	1643	1.39	1691	1.62	1737	1.85	1782	2.08	1870	2.57
	8932	1627	0.95	1684	1.21	1732	1.45	1779	1.69	1824	1.94	1867	2.19	1909	2.45	1990	2.97
	9744	1775	1.24	1828	1.52	1873	1.78	1917	2.05	1958	2.31	1999	2.59	2039	2.86	2115	3.42
	10556	1922	1.57	1973	1.88	2016	2.17	2056	2.45	2095	2.74	2134	3.04	2170	3.33		
	11368	2070	1.96														

030

Max. BHP = F (RPM/1000) ³	Prop Diameter = 30 in.
F = 1.51 (097 @ 28°)	Tip Speed, FPM = 7.85 x RPM
F = 0.821 (098 @ 12°)	
Inlet & Outlet Diameter (Area) = 30.31 in. (5.01 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	7070	522	0.29	610	0.50	699	0.78	786	1.12	882	1.56						
	8080	596	0.44	673	0.66	751	0.95	829	1.31	905	1.72	987	2.20				
	9090	670	0.63	739	0.87	808	1.17	876	1.53	946	1.95	1014	2.41	1084	2.94		
	10100	745	0.86	806	1.12	869	1.44	931	1.80	993	2.23	1055	2.71	1116	3.21	1248	4.42
	11110	819	1.14	876	1.43	932	1.77	988	2.14	1044	2.56	1102	3.05	1158	3.58	1271	4.73
	12120	894	1.48	946	1.79	997	2.15	1048	2.54	1100	2.97	1151	3.45	1204	3.99	1308	5.16
	13130	968	1.88	1017	2.22	1063	2.59	1110	3.00	1159	3.45	1206	3.93	1253	4.46		
	14140	1043	2.36	1087	2.71	1131	3.10	1175	3.54	1220	4.00	1263	4.48	1308	5.02		

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
098	7070	946	0.32	1016	0.51	1078	0.72	1137	0.92	1193	1.15						
	8080	1081	0.48	1144	0.70	1200	0.93	1253	1.16	1304	1.40	1353	1.65				
	9090	1216	0.68	1273	0.93	1324	1.19	1372	1.45	1419	1.71	1464	1.98	1508	2.26		
	10100	1351	0.94	1403	1.20	1450	1.49	1494	1.78	1537	2.06	1579	2.37	1619	2.66	1698	3.28
	12730	1486	1.24	1534	1.55	1577	1.85	1618	2.16	1658	2.49	1697	2.81	1735	3.13	1808	3.79
	12120	1621	1.61	1665	1.95	1706	2.28	1744	2.62	1781	2.96	1817	3.32	1853	3.66		
	13130	1756	2.04	1798	2.41	1835	2.77	1871	3.13	1906	3.51						
	14140	1891	2.55														

- Notes:
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Belt Drive Fan Data - UTB

Upblast Roof Ventilator

032

Max. BHP =F (RPM/1000) ³	Prop Diameter = 32 in.
F = 0.631 (091 @ 18°)	Tip Speed, FPM = 8.38 x RPM
F = 1.065 (097 @ 28°)	F = 1.953 (098 @ 12°)
Inlet & Outlet Diameter (Area) = 32.33 in. (5.70 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
091	7994	937	0.44	1086	0.73	1187	0.98	1290	1.27	1387	1.57	1482	1.90	1574	2.24			
	9136	1071	0.65	1219	1.03	1299	1.28	1393	1.59	1481	1.92	1567	2.27	1648	2.63			
	10278	1204	0.93	1354	1.41	1417	1.64	1501	1.98	1583	2.34	1661	2.71	1738	3.10			
	11420	1338	1.28	1490	1.87	1549	2.13	1614	2.44	1690	2.84	1764	3.24					
	12562	1472	1.70	1628	2.43	1682	2.71	1733	3.00									
	13704	1606	2.21	1766	3.10													
	14846	1740	2.81															
	15988	1874	3.51															

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	7994	486	0.33	568	0.57	651	0.88	732	1.27	821	1.76						
	9136	555	0.50	627	0.75	699	1.08	772	1.48	843	1.94	919	2.48				
	10278	624	0.71	688	0.99	752	1.32	816	1.73	881	2.21	944	2.73	1010	3.32		
	11420	694	0.97	751	1.27	809	1.63	867	2.04	925	2.52	983	3.06	1039	3.63	1162	5.00
	12562	763	1.29	816	1.62	868	2.00	920	2.42	972	2.90	1026	3.45	1078	4.04	1183	5.35
	13704	833	1.68	881	2.03	929	2.43	976	2.88	1024	3.36	1072	3.90	1121	4.51	1218	5.83
	14846	902	2.13	947	2.51	990	2.93	1034	3.40	1079	3.90	1123	4.45	1167	5.04		
	15988	971	2.67	1013	3.07	1053	3.51	1095	4.00	1136	4.52	1176	5.07	1218	5.68		

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
098	7994	886	0.37	949	0.59	1006	0.83	1061	1.06	1112	1.31	1162	1.55	1211	1.81			
	9136	1013	0.55	1069	0.80	1120	1.07	1169	1.33	1217	1.60	1261	1.89	1305	2.17	1392	2.75	
	10278	1139	0.78	1190	1.06	1236	1.36	1280	1.66	1324	1.96	1366	2.27	1406	2.58	1484	3.22	
	11420	1266	1.08	1311	1.38	1354	1.71	1395	2.04	1434	2.38	1474	2.71	1511	3.05	1583	3.75	
	12562	1392	1.43	1434	1.77	1474	2.12	1511	2.48	1547	2.85	1583	3.22	1619	3.59	1687	4.34	
	13704	1519	1.86	1557	2.23	1594	2.61	1629	3.00	1663	3.40	1696	3.81	1729	4.20			
	14846	1646	2.36	1681	2.76	1715	3.17	1748	3.59	1780	4.02							
	15988	1772	2.95															

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

UTB - Belt Drive Fan Data

Upblast Roof Ventilator

036

Max. BHP = F (RPM/1000) ³	Prop Diameter = 36 in.
F = 1.099 (091 @ 18°)	Tip Speed, FPM = 9.42 x RPM
F = 3.52 (097 @ 28°)	F = 1.92 (098 @ 12°)
Inlet & Outlet Diameter (Area) = 36.38 in. (7.22 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	10108	805	0.49	927	0.82	1034	1.17	1129	1.53	1215	1.90	1295	2.29	1378	2.72		
	11552	920	0.73	1029	1.10	1126	1.49	1214	1.90	1296	2.32	1372	2.74	1443	3.18	1586	4.14
	12996	1035	1.04	1134	1.46	1223	1.89	1305	2.34	1381	2.80	1454	3.27	1522	3.74		
	14440	1150	1.43	1240	1.89	1321	2.36	1398	2.85	1471	3.36	1539	3.87				
	15884	1265	1.90	1348	2.40	1423	2.92	1495	3.46	1563	4.00						
	17328	1379	2.47	1457	3.01	1527	3.58										
	18772	1494	3.14	1566	3.73												
	20216	1609	3.92														

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	10108	431	0.42	504	0.71	578	1.11	651	1.61	730	2.22						
	11552	493	0.63	557	0.95	621	1.36	686	1.87	749	2.45	817	3.14				
	12996	555	0.89	611	1.25	668	1.67	725	2.18	783	2.79	839	3.45	897	4.19		
	14440	616	1.23	667	1.61	718	2.06	770	2.58	821	3.19	873	3.87	923	4.59	1033	6.32
	15884	678	1.63	724	2.05	771	2.52	817	3.06	864	3.67	911	4.36	958	5.11	1052	6.77
	17328	739	2.12	782	2.57	825	3.07	867	3.63	910	4.25	952	4.93	996	5.70	1082	7.38
	18772	801	2.69	841	3.17	880	3.70	919	4.29	959	4.93	998	5.62	1037	6.37		
	20216	863	3.36	900	3.88	935	4.43	972	5.05	1009	5.71	1045	6.41	1082	7.18		

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
098	10108	787	0.47	843	0.75	894	1.04	943	1.34	988	1.65	1032	1.96	1076	2.29		
	11552	899	0.69	949	1.01	995	1.35	1039	1.69	1081	2.03	1120	2.38	1159	2.74	1237	3.48
	12996	1012	0.99	1057	1.34	1098	1.71	1137	2.10	1176	2.48	1214	2.86	1249	3.26	1318	4.07
	14440	1124	1.36	1165	1.75	1203	2.16	1239	2.58	1274	3.01	1309	3.42	1343	3.85	1406	4.74
	15884	1237	1.81	1274	2.24	1309	2.68	1342	3.14	1374	3.61	1406	4.07	1438	4.53	1499	5.48
	17328	1349	2.34	1383	2.81	1416	3.29	1447	3.78	1477	4.29	1506	4.81	1536	5.31		
	18772	1461	2.98	1493	3.49	1524	4.00	1553	4.53	1581	5.07						
	20216	1574	3.72														

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Belt Drive Fan Data - UTB

Upblast Roof Ventilator

042

Max. BHP = $F (RPM/1000)^3$	Prop Diameter = 42 in.
F = 2.376 (091 @ 18°)	Tip Speed, FPM = 11.00 x RPM
F = 7.608 (097 @ 28°)	F = 4.15 (098 @ 12°)
Inlet & Outlet Diameter (Area) = 42.44 in. (9.82 sq. ft)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	13748	689	0.66	794	1.11	885	1.59	967	2.08	1041	2.59	1110	3.12	1181	3.70		
	15712	788	0.99	882	1.50	965	2.03	1040	2.58	1111	3.15	1176	3.73	1236	4.32	1359	5.63
	17676	886	1.41	971	1.98	1047	2.57	1118	3.18	1183	3.81	1246	4.44	1304	5.09		
	19640	985	1.94	1063	2.56	1132	3.21	1198	3.88	1260	4.57	1318	5.27				
	21604	1083	2.58	1155	3.26	1219	3.97	1281	4.70	1339	5.44						
	23568	1182	3.35	1248	4.09	1308	4.86										
	25532	1280	4.26	1342	5.06												
27496	1378	5.32															

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	13748	369	0.57	432	0.97	495	1.51	558	2.19	626	3.02						
	15712	422	0.85	477	1.29	532	1.85	587	2.54	642	3.34	700	4.27				
	17676	475	1.21	524	1.69	572	2.27	621	2.97	671	3.78	719	4.69	769	5.71		
	19640	528	1.66	571	2.18	616	2.80	660	3.51	704	4.34	748	6.26	791	6.24	885	8.60
	21604	581	2.22	621	2.78	660	3.43	700	4.16	740	4.99	781	5.93	821	6.95	901	9.21
	23568	633	2.88	670	3.49	707	4.17	743	4.94	779	5.77	816	6.70	854	7.75	927	10.00
	25532	686	3.66	720	4.31	754	5.03	787	5.83	821	6.70	855	7.64	888	8.66		
27496	739	4.57	771	5.27	801	6.01	833	6.67	864	7.76	895	8.71	927	9.77			

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
098	13748	674	0.63	722	1.01	766	1.42	808	1.82	846	2.24	884	2.67	922	3.11		
	15712	700	0.94	813	1.37	852	1.83	890	2.29	926	2.76	960	3.24	993	3.72	1060	4.73
	17676	867	1.34	905	1.83	941	2.33	974	2.86	1008	3.37	1040	3.89	1070	4.43	1129	5.53
	19640	963	1.84	998	2.38	1030	2.93	1061	3.50	1091	4.09	1121	4.65	1150	5.24	1205	6.44
	21604	1059	2.45	1091	3.04	1121	3.64	1150	4.26	1177	4.90	1205	5.54	1232	6.16	1284	7.45
	23568	1155	3.18	1185	3.82	1213	4.47	1240	5.14	1265	5.83	1290	6.53	1316	7.22		
	25532	1252	4.05	1279	4.74	1305	5.44	1330	6.16	1354	6.89						
27496	1348	5.06															

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

UTB - Belt Drive Fan Data

Upblast Roof Ventilator

048

Max. BHP = F (RPM/1000) ³	Prop Diameter = 48 in.
F = 4.632 (091 @ 18°)	Tip Speed, FPM = 12.57 x RPM
F = 14.833 (097 @ 28°)	F = 8.091 (098 @ 12°)
Inlet & Outlet Diameter (Area) = 48.50 in. (12.83 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	20528	689	1.30	772	1.96	844	2.65	910	3.38	972	4.11	1029	4.87	1082	5.65	1189	7.36
	23094	776	1.85	850	2.58	917	3.36	978	4.15	1036	4.97	1090	5.80	1141	6.65		
	25660	862	2.53	930	3.35	991	4.19	1048	5.07	1103	5.97	1154	6.88				
	28226	948	3.37	1011	4.27	1067	5.19	1121	6.14	1172	7.11						
	30792	1034	4.38	1092	5.35	1145	6.35										
	33358	1120	5.57	1174	6.62												
	35924	1207	6.95														

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	20528	370	1.11	418	1.69	466	2.41	514	3.32	562	4.36	613	5.58				
	23094	416	1.59	458	2.21	501	2.97	544	3.88	587	4.96	629	6.13	673	7.45		
	25660	462	2.18	500	2.85	539	3.66	577	4.59	616	5.67	655	6.88	692	8.16	774	11.20
	28226	508	2.90	543	3.63	578	4.48	613	5.44	648	6.52	683	7.75	719	9.09	789	12.00
	30792	554	3.76	567	4.56	618	5.46	650	6.46	682	7.54	714	8.76	747	10.10	811	13.10
	33358	601	4.78	630	5.63	660	6.58	689	7.62	719	8.76	748	9.99	777	11.30		
	35924	647	5.97	674	6.88	701	7.86	729	8.97	756	10.10	784	11.40	811	12.80		

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
098	20528	674	1.23	712	1.80	746	2.39	779	2.99	810	3.60	840	4.24	869	4.87	927	6.18
	23094	758	1.76	792	2.39	823	3.05	852	3.73	882	4.40	910	5.09	936	5.79	988	7.22
	25660	843	2.41	873	3.10	902	3.83	929	4.58	955	5.37	981	6.08	1007	6.84	1054	8.42
	28226	927	3.21	955	3.97	981	4.76	1006	5.57	1030	6.41	1054	7.23	1078	8.05	1124	9.74
	30792	1011	4.16	1037	4.99	1061	5.85	1085	6.72	1107	7.62	1129	8.84	1151	9.44		
	33358	1096	5.29	1119	6.19	1142	7.11	1164	8.05	1185	9.01						
	35924	1180	6.61														

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Belt Drive Fan Data - UTB

Upblast Roof Ventilator

054

Max. BHP = F (RPM/1000) ³	Prop Diameter = 54 in.
F = 8.347 (091 @ 18°)	Tip Speed, FPM = 14.14 x RPM
F = 26.73 (097 @ 28°)	
Inlet & Outlet Diameter (Area) = 54.56 in. (16.24 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	25984	613	1.64	686	2.48	751	3.36	809	4.27	864	5.21	915	6.16	962	7.15	1057	9.32
	29232	690	2.34	756	3.27	815	4.25	870	5.26	921	6.30	969	7.35	1015	8.42		
	32480	766	3.21	827	4.24	881	5.31	932	6.42	980	7.55	1026	8.71				
	35728	843	4.27	899	5.40	948	6.57	997	7.77	1042	9.00						
	38976	919	5.54	971	6.78	1018	8.04										
	42224	996	7.05	1044	8.38												
45472	1073	8.80															

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	25984	329	1.41	371	2.14	414	3.06	457	4.21	500	5.52	545	7.07				
	29232	370	2.01	408	2.80	445	3.76	483	4.91	522	6.28	559	7.75	598	9.43		
	32480	411	2.76	445	3.61	479	4.64	513	5.81	548	7.17	582	8.71	615	10.30	688	14.20
	35728	452	3.67	483	4.60	514	5.68	545	6.88	576	8.25	607	9.81	639	11.50	701	15.20
	38976	493	4.76	521	5.77	550	6.91	578	8.17	606	9.55	635	11.10	664	12.80	721	16.60
	42224	534	6.05	560	7.13	586	8.33	612	9.64	639	11.10	665	12.60	691	14.30		
45472	575	7.56	600	8.71	623	9.95	648	11.40	672	17.80	697	14.40	721	16.20			

060

Max. BHP = F (RPM/1000) ³	Prop Diameter = 60 in.
F = 14.136 (091 @ 18°)	Tip Speed, FPM = 15.71 x RPM
F = 45.267 (097 @ 28°)	
Inlet & Outlet Diameter (Area) = 60.63 in. (20.05 sq. ft.)	

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
091	32080	552	2.03	617	3.06	675	4.15	728	5.28	778	6.43	823	7.61	865	8.82	952	11.50
	36090	621	2.89	680	4.04	733	5.24	783	6.49	829	7.78	872	9.07	913	10.40		
	40100	690	3.96	744	5.24	793	6.56	839	7.93	882	9.33	923	10.80				
	44110	758	5.27	809	6.67	854	8.11	897	9.59	938	11.10						
	48120	827	6.84	874	8.37	916	9.93										
	52130	896	8.70	940	10.30												
56140	965	10.90															

Prop	CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
097	32080	296	1.74	334	2.64	373	3.77	411	5.19	450	6.81	490	8.72				
	36090	333	2.48	367	3.46	401	4.65	435	6.06	470	7.75	504	9.57	538	11.60		
	40100	370	3.40	400	4.46	431	5.72	462	7.17	493	8.85	524	10.70	554	12.70	620	17.60
	44110	407	4.53	435	5.68	462	7.01	490	8.50	518	10.20	547	12.10	575	14.20	631	18.80
	48120	444	5.88	469	7.12	495	8.53	520	10.10	546	11.80	571	13.70	598	15.80	649	20.50
	52130	481	7.47	504	8.81	528	10.30	551	11.90	575	13.70	599	15.60	622	17.70		
56140	517	9.34	540	10.80	561	12.30	583	14.00	605	15.90	627	17.80	649	19.90			

- Notes:**
- 1) Performance shown is for Installation Type A: free inlet, free outlet.
 - 2) Performance ratings do not include the effects of appurtenances in the airstream.
 - 3) Power rating (bhp) does not include drive losses.
 - 4) Performances shown in the shaded area require optional aluminum damper blades.

Sample Specifications - ULD

Upblast Roof Ventilator

Furnish and install as indicated on the plans PennBarry, Model ULD, Direct Drive, Low Silhouette-Upblast Roof Ventilator(s), complete with motor(s) and other accessories as described below. The fan(s) shall be of heavy duty construction, designed and suitable for continuous industrial use.

The fan housing shall be fabricated of heavy gauge sheet steel spun to form a smooth air inlet and welded to a structural plate motor mount. For a weatherproof installation the housing shall have overlapping joints and a curb cap extended down over the roof curb a minimum of 3". The fan discharge shall be of an up-blast design with an extended throat beyond the propeller and two (2) discharge dampers which shall open automatically from the airstream pressure and close automatically from the gravity of the damper blades. The damper blades shall be galvanized steel with a weatherproof overlapping formed edge-seal and shall each have a continuous full length 1/2" diameter axle for structural support of the damper blade. Each axle shall be welded to its damper blade and shall turn in bronze oilite bushings at both ends. The dampers shall be surrounded by a circular galvanized windband to shield the dampers from wind and allow them to close when the fan is shut off. All mild steel surfaces not galvanized shall be prepared for painting by means of a hot iron-phosphate wash and rinse. The prepared surfaces shall be coated with an air dry enamel paint. Finish coat shall be field applied by others to match building trim color. Galvanized surfaces are to be supplied uncoated.

The fan propeller shall be of cast aluminum or fabricated steel airfoil design. The propeller shall be statically and dynamically balanced to *commercially accepted standards*.

The fan motor shall be of a NEMA foot mounted design, suitable for continuous duty, and of the horsepower, speed and enclosure type (open) (totally-enclosed) (explosion-proof Class _____, Group _____,) listed in the fan schedule. The motor shall be suitable for operation on the power supply listed in the fan schedule for phase, cycles and voltage.

The fan accessories shall include: _____

The fan, motor, and accessory combination shall be as manufactured by PennBarry of Richardson, Texas. The fan shall be test run at the factory, and shall deliver the required airflow CFM when installed and operating against a system static pressure resistance as stated in the fan schedule.

ULB - Sample Specifications

Upblast Roof Ventilator

Furnish and install as indicated on the plans PennBarry, Model ULB, Belt Drive, Low Silhouette-Upblast Roof Ventilator(s), complete with belt drive(s) motor(s) and other accessories as described below. The fan(s) shall be of heavy duty construction, designed and suitable for continuous industrial use.

The fan housing shall be fabricated of heavy gauge sheet steel spun to form a smooth air inlet and welded to a structural bearing mounting plate and motor mounting plate assembly. For a weatherproof installation the housing shall have overlapping joints and a curb cap extended down over the roof curb a minimum of 3". The fan discharge shall be of an up-blast design with an extended throat beyond the propeller and two (2) discharge dampers which shall open automatically from the airstream pressure and close automatically from the gravity of the damper blades. The damper blades shall be galvanized steel with a weatherproof overlapping formed edge-seal and shall each have a continuous full length 1/2" diameter axle for structural support of the damper blade. Each axle shall be welded to its damper blade and shall turn in bronze oilite bushings at both ends. The dampers shall be surrounded by a circular galvanized windband to shield the dampers from wind and allow them to close when the fan is shut off. All mild steel surfaces not galvanized shall be prepared for painting by means of a hot iron-phosphate wash and rinse. The prepared surfaces shall be coated with an air dry enamel paint. Finish coat shall be field applied by others to match building trim color. Galvanized surfaces are to be supplied uncoated.

The belt drive shall have a drive service factor of 1.5. All drive sheaves shall be of cast or malleable iron, accurately machined and balanced. The drive belt tension shall be easily maintained by adjusting the motor position via slotted motor mounting holes on smaller motors and via the motors and via the motor slide base on motor frame sizes 215 and larger. The fan belts shall be removable without any disassembly of the unit.

The fan bearings shall be self-aligning 200 series ball bearing pillow-block units. The bearings shall be equipped with pressure relieving neoprene seals. The fan bearings shall have a minimum L10 bearing life of 35,000 hours (average life equals five times L10 life). The fan shaft shall be of mild steel turned, ground and polished to standard commercial tolerances and *compatible* with the tolerances suggested by the bearing manufacturer for rated bearing life.

The fan propeller shall be of cast aluminum or fabricated steel airfoil design. The propeller shall be statically and dynamically balanced to commercially accepted standards.

The fan motor shall be of a NEMA foot mounted design, suitable for continuous duty, and of the horsepower, speed and enclosure type (open) (totally-enclosed) (explosion-proof Class _____, Group _____,) listed in the fan schedule. The motor shall be suitable for operation on the power supply listed in the fan schedule for phase, cycles and voltage. The fan accessories shall include: _____

The fan, motor, and accessory combination shall be as manufactured by PennBarry of Richardson, Texas. The fan shall be test run at the factory, and shall deliver the required airflow CFM when installed and operating against a system static pressure resistance as stated in the fan schedule.

Sample Specifications - UTD

Upblast Roof Ventilator

Furnish and install as indicated on the plans PennBarry, Model UTD, Direct Drive, Upblast Roof Ventilator(s), complete with motor(s) and other accessories as described below. The fan(s) shall be of heavy duty construction, designed and suitable for continuous industrial use.

The fan housing shall be fabricated of heavy gauge sheet steel accurately rolled, continuously welded at the seam and bolted to the curb cap. A structural plate motor mount shall be accurately positioned in the housing and welded to the housing. For a weatherproof installation the housing shall have continuously welded joints and the curb cap shall extend down over the roof curb a minimum of 3". The fan discharge shall be of an up-blast design with an extended throat beyond the propeller and two (2) discharge dampers which shall open automatically from the airstream pressure and close automatically by gravity of the damper blades. The damper blades shall be galvanized steel with a weatherproof overlapping formed edge-seal and shall each have a continuous full length 1/2" diameter axle for structural support of the damper blade. Each axle shall be welded to its damper blade and shall turn in bronze oilite bushings at both ends. The dampers shall be surrounded by a circular galvanized windband to shield the dampers from wind and allow them to close when the fan is shut off. All mild steel surfaces not galvanized shall be prepared for painting by means of a hot iron-phosphate wash and rinse. The prepared surfaces shall be coated with an air dry enamel paint. Finish coat shall be field applied by others to match building trim color. Galvanized surfaces are to be supplied uncoated.

The fan propeller shall be of cast aluminum or fabricated steel airfoil design. The propeller shall be statically and dynamically balanced to *commercially accepted standards*.

The fan motor shall be of a NEMA foot mounted design, suitable for continuous duty, and of the horsepower, speed and enclosure type (open) (totally-enclosed) (explosion-proof Class _____, Group _____,) listed in the fan schedule. The motor shall be suitable for operation on the power supply listed in the fan schedule for phase, cycles and voltage.

The fan accessories shall include: _____

The fan, motor, and accessory combination shall be as manufactured by PennBarry of Richardson, Texas. The fan shall be test run at the factory, and shall deliver the required airflow CFM when installed and operating against a system static pressure resistance as stated in the fan schedule.

UTB - Sample Specifications

Upblast Roof Ventilator

Furnish and install as indicated on the plans PennBarry, Model UTB, Belt Drive, Upblast Roof Ventilator(s), complete with belt drive(s) motor(s) and other accessories as described below. The fan(s) shall be of heavy duty construction, designed and suitable for continuous industrial use.

The fan housing shall be fabricated of heavy gauge steel accurately rolled, continuously welded at the seams and bolted to the curb cap. For a weatherproof installation the housing shall have overlapping joints and a curb cap extended down over the roof curb a minimum of 3". The fan shall have an inner tube section, fully welded protecting the shaft, bearings and drive components from direct air stream exposure. The inner tube assembly shall have removable end covers to allow for access to the bearings and drive assembly. The fan discharge shall be of an up-blast design with an extended throat beyond the propeller and two (2) discharge dampers which shall open automatically from the from the gravity of the damper blades. The damper blades shall be galvanized steel with a weatherproof overlapping formed edge-seal and shall each have a continuous full length 1/2" diameter axle for structural support of the damper blade. Each axle shall be welded to its damper blade and shall turn in bronze oilite bushings at both ends. The dampers shall be surrounded by a circular galvanized windband to shield the dampers from wind and allow them to close when the fan is shut off. All mild steel surfaces not galvanized shall be prepared for painting by means of a hot iron-phosphate wash and rinse. The prepared surfaces shall be coated with an air dry enamel paint. Finish coat shall be field applied by others to match building trim color. Galvanized surfaces are to be supplied uncoated.

Motor is mounted externally on the fan casing and is not exposed to the air stream. The fan's motor support and mounting structure shall be fabricated of heavy gauge steel plate and provide a means for belt tension adjustment. The belt drive shall have a drive service factor of 1.5. All drive sheaves shall be of cast or malleable iron, accurately machined and balanced. The fan belts shall be removable without any disassembly of the unit.

The fan bearings shall be self-aligning 200 series ball bearing pillow-block units. The bearings shall be equipped with pressure relieving neoprene seals. The fan bearings shall have a minimum L10 bearing life of 35,000 hours (average life equals five times L10 life). The fan shaft shall be of mild steel turned, ground and polished to standard commercial tolerances and *compatible* with the tolerances suggested by the bearing manufacturer for rated bearing life.

The fan propeller shall be of cast aluminum or fabricated steel airfoil design. The propeller shall be statically and dynamically balanced to *commercially accepted standards*.

The fan motor shall be of a NEMA foot mounted design, suitable for continuous duty, and of the horsepower, speed and enclosure type (open) (totally-enclosed) (explosion-proof Class _____, Group _____,) listed in the fan schedule. The motor shall be suitable for operation on the power supply listed in the fan schedule for phase, cycles and voltage. The fan accessories shall include: _____

The fan, motor, and accessory combination shall be as manufactured by PennBarry of Richardson, Texas. The fan shall be test run at the factory, and shall deliver the required airflow CFM when installed and operating against a system static pressure resistance as stated in the fan schedule.

One Year Limited Warranty

Upblast Roof Ventilator

What Products Are Covered

PennBarry Commercial and Industrial Fans (each, a “PennBarry Product”)

One Year Limited Warranty For PennBarry Products

PennBarry warrants to the original commercial purchaser that the PennBarry Products will be free from defects in material and workmanship for a period of one (1) year from the date of shipment.

Exclusive Remedy

PennBarry will, at its option, repair or replace (without removal or installation) the affected components of any defective PennBarry Product; repair or replace (without removal or installation) the entire defective PennBarry Product; or refund the invoiced price of the PennBarry Product. In all cases, a reasonable time period must be allowed for warranty repairs to be completed.

What You Must Do

In order to make a claim under these warranties:

1. You must be the original commercial purchaser of the PennBarry Product.
2. You must promptly notify us within the warranty period of any defect and provide us with any substantiation that we may reasonably request.
3. The PennBarry Product must have been installed and maintained in accordance with good industry practice and any specific PennBarry recommendations.

Exclusions

These warranties do not cover defects caused by:

1. Improper design or operation of the system into which the PennBarry Product is incorporated.
2. Improper installation.
3. Accident, abuse or misuse.
4. Unreasonable use (including any use for non-commercial purposes, failure to provide reasonable and necessary maintenance as specified by PennBarry, misapplication and operation in excess of stated performance characteristics).
5. Components not manufactured by PennBarry.

Limitations

1. In all cases, PennBarry reserves the right to fully satisfy its obligations under the Limited Warranties by refunding the invoiced price of the defective PennBarry Product (or, if the PennBarry Product has been discontinued, of the most nearly comparable current product).
2. PennBarry reserves the right to furnish a substitute or replacement component or product in the event a PennBarry Product or any component of the product is discontinued or otherwise unavailable.
3. PennBarry’s only obligation with respect to components not manufactured by PennBarry shall be to pass through the warranty made by the manufacturer of the defective component.

General

The foregoing warranties are exclusive and in lieu of all other warranties except that of title, whether written, oral or implied, in fact or in law (including any warranty of merchantability or fitness for a particular purpose).

PennBarry hereby disclaims any liability for special, punitive, indirect, incidental or consequential damages, including without limitation lost profits or revenues, loss of use of equipment, cost of capital, cost of substitute products, facilities or services, downtime, shutdown or slowdown costs.

The remedies of the original commercial purchaser set forth herein are exclusive and the liability of PennBarry with respect to the PennBarry Products, whether in contract, tort, warranty, strict liability or other legal theory shall not exceed the invoiced price charged by PennBarry to its customer for the affected PennBarry Product at the time the claim is made.

Inquiries regarding these warranties should be sent to: PennBarry, 1401 North Plano Road, Richardson, TX 75081.

OTHER PENNBARRY PRODUCTS

CENTRIFUGAL PRODUCTS



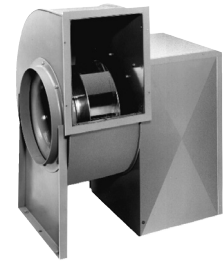
Domex
Centrifugal
Roof Exhausters



Fumex Fatrap
Kitchen Hood Centrifugal
Roof Exhausters



Zephyr
Ceiling and Inline Fans



Dynamo
Centrifugal Blowers



Centrex Inliner
Centrifugal Inline Fans



LC Dynafan
Low Contour Centrifugal
Roof Exhausters

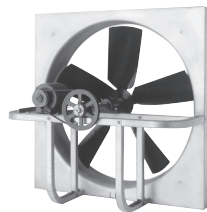


ESI
Efficient Silent
Inline Fan



Fume Exhaust
Curb Mounted
Centrifugal Fans

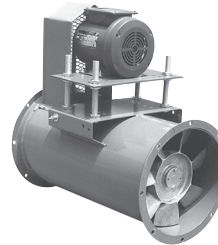
AXIAL / GRAVITY PRODUCTS



Breezeway
Propeller Wall Fans



HI-EX
Power Roof Ventilator



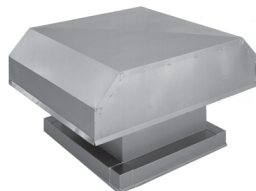
Tubeaxial
Inline Fans



Vaneaxial
Inline Fans



Powered Airette
Axial Roof Ventilators



Airette
Gravity Intake/Relief Hood



Domex Axial
Axial Roof Ventilators



Axcentrix
Bifurcator Fan

For more information contact your local PennBarry Sales
Manufacturer Representative or visit us at www.PennBarry.com

