



Fiberglass Exhaust Fans

HIGH PERFORMANCE FROM PATENTED ORIFICE AND MOTOR MOUNT SYSTEM

- Cone in/cone out orifice design provides excellent performance without the extra expense of a cone
- Provides same enhanced performance as larger cones without the negative effects of wind against the cone

NEW DESIGN REDUCES MAINTENANCE COST

- Injected, smooth inside and out, self-draining, sloped housing design is quick and easy to clean
- A corrosion resistant belt tensioner reduces maintenance and provides continuous, strong performance
- Long lasting, high quality, rubber belt is easily accessible
- New tie-bar shutter design provides smooth, quiet operation and cleans easily

LOW COST INSTALLATION

- Built in cone no extra assembly costs
- Optional cones available
- Fan supplied completely assembled ready to mount in the wall
- Single phase units supplied with 10 foot cord and molded plug
- Every fan is bench tested prior to shipment



FIBERGLASS FANS

FEATURES:

- The patented design provides excellent performance without a cone. Optional cone can be added if desired
- All fans are supplied completely assembled and are tested before shipping
- Smooth inside and out, self draining, sloped housing is quick and easy to clean reducing maintenance costs
- 36" and 50" belt drive fans
- 36" direct drive fans
- 50" fans with die-cast aluminum or galvanized steel blades.

Cones







TIE-BAR SHUTTERS

FEATURES:

- New tie-bar, smooth and quiet shutters have a strong, durable 304 stainless steel shutter frame and aerodynamic PVC louvers with tie-bar
- Top and bottom louvers are not tied, preventing problems with freeze-up and dirt build-up







BELT & TENSIONER

FEATURES:

- 36" and 50" sizes
- All belt-drive models use a high-end rubber belt with automatic rotary belt tensioner



MOTORS

FEATURES:

- Single phase, F class insulation, dual capacitor high efficiency, 115/230 dual voltage comes complete with a 10ft. 230 volt 3/14 SJT cord and 6-15P Plug
- Three phase 60Hz motors are 208-230/460 dual voltage with F class insulation
- Three phase 50 Hz motors are 220-240/380-415 volt with B class insulation





				FRAMING DIMENSIONS					
Fan	Fa	an	Co	ne	Width	Height			
Size	А	В	B C		All Walls	4" & 6" Wall			
36″	34	9	21	47	43	43			
50″	44	9	25	63	57	57			









TESTED PERFORMANCE:

Big Dutchman tests all ventilation equipment performance. All equipment should perform as indicated when properly maintained. Our fans are tested by BESS Labs or in our AMCA fig 15 test chamber. The test chamber was designed and built to exacting AMCA/ASHRE standards. A regimented calibration and verification schedule is followed. Be assured, Big Dutchman equipment will provide the performance you require.

		Specifications							Performance									
		Motor							0.00" SP		0.05" SP		0.10" SP					
HP		HP	Voltage	Phs	Hz	Material	RPM	Cone	CFM	CFM/Watt	CFM	CFM/Watt	Amps @ 0.05" SP	CFM	CFM/Watt	AFR	BESS #	
Direct Drive Belt Drive	50"	4.0	115/000	1	60	Cast Alum.	550	Υ	25,600	25.1	24,000	22.1	4.81	22,100	19.4	0.72	02011	
		1.0	115/230					Ν	24,300	22.8	22,800	20.3	4.92	21,000	17.8	0.72	02012	
		10	208 220/460	2	60		585	Υ	27,200	23.0	25,500	20.2	2.10	23,600	17.7	0.76	02071	
		1.0	208-230/400	3				Ν	25,500	20.7	24,000	18.6	2.10	22,300	16.5	0.76	02015	
		10	220 240/380 415	c v	50		565	Υ	25,200	23.4	23,500	21.1	2.04	21,800	18.9	0.75	03043	
		1.0	220-240/300-413	3				Ν	23,600	21.3	22,000	19.2	2.09	20,300	17.3	0.76	03042	
		10	115/230	1	60	Galv. Steel	575	Y	28,000	25.2	26,500	22.1	5.50	24,800	19.5	0.78	00071	
		1.0	1.0 113/230					Ν	25,900	22.5	24,400	20.0	5.70	22,800	17.7	0.79	00072	
		10	0 208-230/460	3			580	Y	24,800	23.8	23,400	21.2	1.90	21,100	18.8	0.78	02197	
		1.0						Ν	23,800	22.0	22,300	19.6	1.90	20,800	17.4	0.78	02196	
		1 0 220-24	220-240/380-415	3	50		570	Y	24,700	24.2	23,100	21.8	1.96	20,800	18.7	0.76	03044	
					00			Ν	23,300	21.7	21,900	19.9	2.02	20,100	17.2	0.77	03045	
	36"	1/2	115/230	1	60		540	Y	11,200	22.5	10,000	18.5	3.16	8,800	15.2	0.38	03048	
								Ν	10,700	20.5	9,600	17.1	3.24	8,400	14.2	0.39	03049	
		1/2	208-230/460	3	60		545	Y	11,300	25.0	10,300	21.4	1.68	9,100	17.7	0.39	03051	
								Ν	10,800	22.9	9,750	19.6	1.69	8,600	16.5	0.41	03050	
		1/2 220-2	220-240/380-415	3	50		540	Y	11,400	26.5	10,250	22.2	0.88	9,000	18.3	0.38	03047	
								N	10,800	24.2	9,800	20.5	0.91	8,600	17.2	0.38	03040	
		1.0	230	1	60	Galv. Steel	850	Y	17,000	18.5	16,200	17.1	4.15	15,400	15.6	0.83	02201	
								N	15,900	16.6	15,200	15.2	4.36	14,500	14.0	0.84	02200	
		1.0	1.0 208-230/460	3 60	60		830	Y	16,200	19.4	15,343	17.4	4.15	14,450	15.5	0.82	03060	
					-		N	15,400	17.5	14,700	15.8	4.23	13,900	14.4	0.82	03059		
		1/2	1/2 115/230	1 6	60	0	850	Y N	12,300	20.1	10,600	22.5	2.47	10,500	19.5	0.00	00080	
							810	N V	11,400	22.5	10,000	19.4	2.03	9,000	10.6	0.00	00075	
		1/2	208-230/460	3	60			N	11,200	20.9	10,300	21.9	2.00	9,350	17.5	0.67	03058	

Notes: AFR is the airflow ratio. Higher AFR indicates better performance under static pressure and against wind. It is calculated by dividing fan cfm at 0.20 static pressure by cfm at 0.05 sp.

Test results are with shutters installed.

All 60 Hz tests performed at 230 volts.

All 50 Hz tests perfomed at 380 volts.



For North, Central and South America please contact: Big Dutchman, Inc. - USA

3900 John F Donnelly Dr • Holland, MI 49424 • USA tel + 1 616 582 4000 • fax + 1 616 392 6188 www.bigdutchmanusa.com • info@bigdutchmanusa.com