



TRIANGLE ENGINEERING AGRICULTURAL FANS



Belt Drive

Ideal for...

- ◆ Poultry Houses
- ◆ Dairy Barns
- ◆ Greenhouses



SLW/Cone



Direct Drive

www.trianglefans.com



PFG SERIES DIRECT or BELT DRIVE

PFG SERIES FEATURES:

- ◆ All galvanized construction for corrosion resistance in harsh atmosphere
- ◆ Galvanized welded 1" x 2" wire guard on intake and exhaust
- ◆ Assembled, ready to install
- ◆ 36", 42", 48" or 54" blades
- ◆ 60 Hertz, totally enclosed air over (TEAO) motors with thermal protection
- ◆ 50 Hertz motors available on selected models
- ◆ 230V, 10 ft. Power cord with 3-prong molded plug
- ◆ Bolt-together design for easy part replacement
- ◆ Limited 3-year warranty



42" PFG 4213D

DIRECT DRIVE for economical maintenance

FEATURES:

- ◆ Economical Direct Drive
- ◆ Fewer moving parts mean less maintenance
- ◆ 3-Wing blade on all sizes

OPTIONS:

- ◆ Automatic shutters
- ◆ Automatic doors
- ◆ Discharge cones



42" PFG 4213

BELT DRIVE for smooth, quiet operation

FEATURES:

- ◆ Self-aligning, pre-lubricated ball bearing motors
- ◆ 4-Wing deep pitch blade for maximum CFM at low RPM and low noise level
- ◆ Choose optional 6-wing blade for increased CFM at higher static pressure
- ◆ Patented Automatic Belt Tensioner drive assembly

OPTIONS:

- ◆ Automatic shutters
- ◆ Automatic doors
- ◆ Discharge cones



Patent #6,190,140

Patented Automatic Belt Tensioning

- ◆ Increases belt life and eliminates maintenance
- ◆ Steady belt pressure prevents belt slippage and increases motor efficiency
- ◆ Allows belt changes without the use of tools



48" PFG 48156

For CFM and other operating comparisons, see specifications

SLW SERIES

Slant Wall Fans, DIRECT or BELT DRIVE

To save valuable interior space, the SLW series fans mount on the exterior of the structure. The heavy duty housing allows the automatic shutter to be placed on the intake side of fan to prevent the loss of warm air. This also provides weather protection for the motor and other components.



48" SLW 48156
shutter not shown

SLW SERIES FEATURES:

- ◆ All galvanized construction for corrosion resistance in harsh atmosphere
- ◆ Model IWS shutter included on intake side
- ◆ Galvanized welded 1" x 2" wire guard on exhaust side
- ◆ 36", 42" or 48" blades
- ◆ 60 Hertz, totally enclosed air over (TEAO) motors with thermal protection
- ◆ 50 Hertz motors available on selected models
- ◆ 230V, 10 ft. power cord with 3-prong molded plug
- ◆ Shipped two/crate, fully assembled and ready to install
- ◆ Bolt-together design for easy part replacement
- ◆ Automatic belt tensioning
- ◆ Limited 3-year warranty

DIRECT DRIVE:

- ◆ 3-Wing blade, lower maintenance cost

BELT DRIVE:

- ◆ Choice of 4-wing or 6-wing blade (6-wing blade increases air flow at higher static pressure)
- ◆ Low blade RPM for low noise level
- ◆ Allows belt change without using tools
- ◆ Self aligning, pre-lubricated ball bearing motors
- ◆ Optional discharge cones

AG 3613 AGRI-FAN

DIRECT DRIVE



36" AG 3613

Triangle's 36" Agri-Fan is designed for all livestock and poultry ventilation requirements. Other uses include farms, shops, garages, greenhouses or anywhere air movement is needed.

AGRI-FAN FEATURES:

- ◆ Direct drive eliminates belts and pulleys
- ◆ 36" 3-Wing balanced blade
- ◆ Galvanized fan frame and housing
- ◆ 1/2" x 1" galvanized welded wire guard on both sides
- ◆ Totally enclosed 1/2 hp motor, operates on 115V
- ◆ Single speed on-off switch
- ◆ 10-ft Power cord with molded plug
- ◆ Completely assembled, ready to operate
- ◆ Limited 3-year warranty

For CFM and other operating comparisons, see specifications

OPTIONS



IWS SERIES AUTOMATIC SHUTTERS

- ◆ May be used with belt or direct drive fans
- ◆ Opens automatically when fan is turned on and closes when air flow stops
- ◆ Frames are heavy-gauge galvanized steel with powder coat finish
- ◆ Extruded aluminum shutter blades attach with bronze bushings and steel fasteners. This eliminates rust and corrosion, permitting continuous, smooth operation without lubrication
- ◆ Available for all PFG fans, Standard on SLW series fans

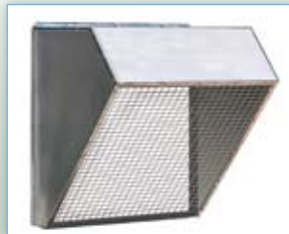


IWS 3187 ELECTRICAL SHUTTER OPERATOR

- ◆ Available for 33" thru 48" shutters.
- ◆ Complete with linkage for simple mounting directly to shutter frame
- ◆ 115/230/1 Voltage

ALL WEATHER HOODS

- ◆ All galvanized 18-gauge steel with 1" x 2" screen guards
- ◆ Fits over IWS shutter



IWD SERIES AUTOMATIC DOORS

- ◆ Unlike shutters which reduce CFM 20% or more, the IWD automatic doors maintain **100% +** of rated CFM
- ◆ Automatically opens when fan is turned on, no electric motors or complicated linkage to maintain.
- ◆ Heavy mill finish aluminum doors



DISCHARGE CONES

- ◆ Increases CFM without increasing motor size or energy cost
- ◆ All galvanized with a spun wire guard on exhaust side
- ◆ Available for PFG and SLW series fans
- ◆ Shipped knocked down, easy field assembly

SPECIFICATIONS

Model No.	Blade Dia.	HP	Amps	Volts	RPM @ 0" SP	.00" SP		.05" SP		.10" SP	
						CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt
16" HOUSING - DIRECT DRIVE - 3 WING BLADE											
PFG 3613 D	36"	1/2	6.0/3.0	115/230/1	843	10,740	19.6	9,960	17.4	9,100	15.3
PFG 4213 D	42"	1/2	6.0/3.0	115/230/1	794	13,060	18.8	11,680	15.9	10,300	13.3
PFG 4815 D	48"	1	4.6	230/1	839	18,800	20.6	17,900	19.0	16,000	16.5
PFG 4815 D-460	48"	1	5.2/2.6	230/460/3	839	18,800	20.6	17,900	19.0	16,000	16.5
AG 3613	36"	1/2	6.0/3.0	115/230/1	843	11,100	17.0	10,300	15.1	9,464	14.1

20" HOUSING - BELT DRIVE - 4 WING BLADE

PFG 3613	36"	1/2	7.6/3.8	115/230/1	550	10,380	18.5	9,260	16.6	8,670	14.6
PFG 4213	42"	1/2	7.6/3.8	115/230/1	499	13,640	20.9	12,490	18.2	11,220	15.6
PFG 4815	48"	1	11/5.5	115/230/1	475	19,400	21.0	17,500	18.4	15,700	15.9
PFG 5415	54"	1	11/5.5	115/230/1	450	23,800	22.6	22,000	20.1	19,800	17.6

20" HOUSING - BELT DRIVE - 6 WING BLADE

PFG 36136	36"	1/2	7.6/3.8	115/230/1	560	11,010	16.0	10,450	14.6	9,820	13.3
PFG 42136	42"	1/2	7.6/3.8	115/230/1	494	13,680	20.4	12,660	17.7	11,590	15.2
PFG 48156	48"	1	11/5.5	115/230/1	482	21,100	18.0	19,900	16.7	18,700	15.4
PFG 54156	54"	1	11/5.5	115/230/1	419	23,400	22.8	21,900	20.5	20,400	18.4

SLANT WALL - DIRECT DRIVE - 3 WING BLADE

SLW 3613 D	36"	1/2	6.0/3.0	115/230/1	852	10,220	16.8	9,410	14.6	8,420	13.1
SLW 4213 D	42"	1/2	6.0/3.0	115/230/1	810	12,210	18.5	10,680	15.4	9,170	12.3
SLW 4815 D	48"	1	4.6	230/1	827	18,600	18.3	17,000	15.7	15,400	13.4
SLW 48156 D-460	48"	1	5.2/2.6	230/460/3	827	18,600	18.3	17,000	15.7	15,400	13.4

SLANT WALL - BELT DRIVE - 4 WING BLADE

SLW 3613	36"	1/2	8.6/4.3	115/230/1	552	10,250	17.2	9,060	16.1	7,980	14.2
SLW 4213	42"	1/2	8.6/4.3	115/230/1	474	12,100	21.6	10,840	19.4	9,350	15.9
SLW 4815	48"	1	11.0/5.5	115/230/1	461	18,500	20.6	17,100	18.7	15,000	16.3

SLANT WALL - BELT DRIVE - 6 WING BLADE

SLW 36136	36"	1/2	8.6/4.3	115/230/1	538	10,120	17.1	9,610	15.7	9,000	13.6
SLW 42136	42"	1/2	8.6/4.3	115/230/1	470	12,580	20.9	11,640	18.4	10,600	15.9
SLW 48156	48"	1	13.4/6.7	115/230/1	457	19,400	19.1	18,300	17.6	17,100	15.7

Triangle's product line, including optional equipment, has been tested and certified under actual operating conditions by Bess Laboratories, University of Illinois.

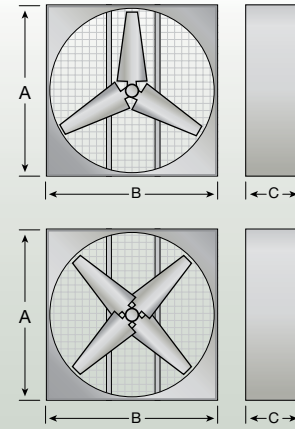
Specifications subject to change without notice.

- 50 Hertz motors are available on selected fan models
- 60 Hertz, 3-phase motors can be supplied for PFG 4815D and all belt drive fans

NOTE: Products are wired 230 volt at factory, AG 3613 is wired 115 volt.

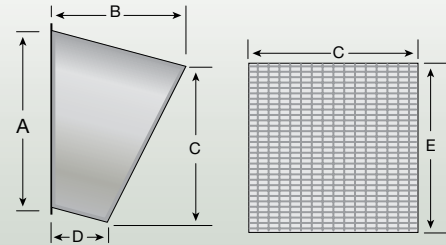
PFG and AGRI-FAN HOUSING DIMENSIONS

MODEL NO.	A	B	C	Crate Cu. Ft.	Ship. Wt.
PFG 3613 D	40 ³ / ₄ "	40 ³ / ₄ "	16"	14.8	98
PFG 4213 D	46 ³ / ₄ "	46 ³ / ₄ "	16"	19.6	126
PFG 4815 D	52 ³ / ₄ "	52 ³ / ₄ "	16"	25.0	176
PFG 3613	40 ³ / ₄ "	40 ³ / ₄ "	20"	18.5	132
PFG 4213	46 ³ / ₄ "	46 ³ / ₄ "	20"	24.3	160
PFG 4815	52 ³ / ₄ "	52 ³ / ₄ "	20"	31.3	194
PFG 5415	60 ³ / ₄ "	60 ³ / ₄ "	20"	39.0	237
PFG 36136	40 ³ / ₄ "	40 ³ / ₄ "	20"	18.5	137
PFG 42136	46 ³ / ₄ "	46 ³ / ₄ "	20"	24.3	165
PFG 48156	52 ³ / ₄ "	52 ³ / ₄ "	20"	31.3	201
PFG 54156	60 ³ / ₄ "	60 ³ / ₄ "	20"	39.0	242
AG 3613	40 ³ / ₄ "	40 ³ / ₄ "	16"	14.8	115



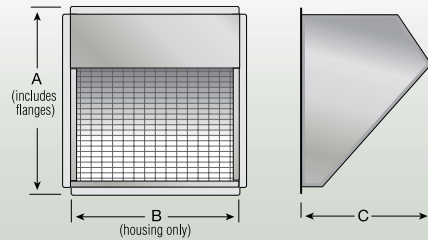
SLW HOUSING DIMENSIONS

MODEL NO.	A	B	C	D	E	Ship. Wt.
SLW 3613 D	42"	30"	40.50"	20.50"	40.50"	187
SLW 4213 D	48"	31"	46.50"	20.00"	46.50"	196
SLW 4815 D	54"	32"	52.50"	19.50"	52.50"	237
SLW 3613	42"	30"	40.50"	20.50"	40.50"	195
SLW 4213	48"	31"	46.50"	20.00"	46.50"	214
SLW 4815	54"	32"	52.50"	19.50"	52.50"	260
SLW 36136	42"	30"	40.50"	20.50"	40.50"	212
SLW 42136	48"	31"	46.50"	20.00"	46.50"	235
SLW 48156	54"	32"	52.50"	19.50"	52.50"	272



ALL WEATHER HOODS

MODEL	For Fan	A sq.	B sq.	C	Ship. Wt.
RH 24	24"	34 ¹ / ₄ "	31 ³ / ₄ "	31"	48
RH 30	30"	37 ¹ / ₄ "	34 ³ / ₄ "	33"	48
RH 36	36"	43 ¹ / ₄ "	40 ³ / ₄ "	37"	60
RH 42	42"	49 ¹ / ₄ "	46 ³ / ₄ "	41"	80
RH 48	48"	55 ¹ / ₄ "	52 ³ / ₄ "	45"	135
RH 54	54"	65 ¹ / ₄ "	62 ³ / ₄ "	52"	160
RH 60	60"	71 ¹ / ₄ "	68 ³ / ₄ "	57"	195



SHUTTERS *MOUNTS DIRECTLY TO FAN HOUSING

MODEL	For Fan	Outside Dimen.	Ins. Dimen.	Depth	Ship. Wt.
IWS-24	24"	33 ³ / ₈ " x 33 ³ / ₈ "	31" x 31"	4"	26
IWS-30	30"	36 ³ / ₈ " x 36 ³ / ₈ "	34" x 34"	4"	29
IWS-33*	36"	39 ³ / ₈ " x 39 ³ / ₈ "	37" x 37"	4"	33
IWS-36	36"	42 ³ / ₈ " x 42 ³ / ₈ "	40" x 40"	4"	39
IWS-39*	42"	45 ³ / ₈ " x 45 ³ / ₈ "	43" x 43"	4"	42
IWS-42	42"	48 ³ / ₈ " x 48 ³ / ₈ "	46" x 46"	4"	44
IWS-45*	48"	51 ³ / ₈ " x 51 ³ / ₈ "	49" x 49"	4"	49
IWS-48	48"	54 ³ / ₈ " x 54 ³ / ₈ "	52" x 52"	4"	55
IWS-54	54"	63 ³ / ₈ " x 63 ³ / ₈ "	61" x 61"	4.5"	76
IWS-60	60"	69 ³ / ₈ " x 69 ³ / ₈ "	67" x 67"	4"	88
IWS-3187 Shutter Operator	-	-	-	-	2.5
IWS-887 Shutter Operator	-	-	-	-	5

DOORS MOUNTS OUTSIDE OF FAN HOUSING

MODEL	For Fan	Outside Dimen.	Ins. Dimen.	Depth	Ship. Wt.
IWD-36	36"	42 ³ / ₈ " x 42 ³ / ₈ "	40" x 40"	4.5"	38
IWD-48	48"	54 ³ / ₈ " x 54 ³ / ₈ "	52" x 52"	4.5"	52

DISCHARGE CONES

MODEL	For Fan	Ship Wt.
PFC 36	36"	48
PFC 48	48"	63



Specifications subject to change without notice
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