

MODEL GED/GSD - DIRECT DRIVE SIDEWALL

10" to 20" Exhaust (GED)

See Accessory page for Supply (GSD) add

GED/ GSD Model No.	HP (2)(3)	RPM (1)	Blade Type (5)	Single Phase (3)(6) Open Drip- proof	TE	Variable Speed Control			UL 705	Wgt.	
				One Speed (1)(2)		115V Loose	115V Mounted & Wired	230V Loose			230V Mounted & Wired
10	1/10	1550	4FA	Y (115V)		Y (5 Amp)	Y			Y	30
	1/10	1550	4FA	Y (220/230V)	Y	-		Y	Y	Y	30
12	1/10	1550	4FA	Y (115V)		Y (5 Amp)	Y			Y	31
	1/10	1550	4FA	Y (220/230V)	Y	-		Y	Y	Y	31
	1/4	1625	4FA	Y	Y	Y (5 Amp)	Y	Y	Y	Y	32
14	1/4	1625	4FA	Y	Y	Y (5 Amp)	Y	Y	Y	Y	36
	1/2	1625	4FA	Y	Y	Y (10 Amp)	Y	Y	Y	Y	36
16	1/4	1075	4FA	Y	Y	Y (5 Amp)	Y	Y	Y	Y	33
	1/3	1625	3FA	Y	Y	Y (5 Amp)	Y	Y	Y	Y	39
18	1/4	1075	3FA	Y	Y	Y (5 Amp)	Y	Y	Y	Y	37
	1/4	1625	3FA	Y	Y	Y (5 Amp)	Y	Y	Y	Y	42
	1/2	1625	3FA	Y	Y	Y (10 Amp)	Y	Y	Y	Y	52
20	1/4	1075	3FA	Y	Y	Y (5 Amp)	Y	Y	Y	Y	52
	1/2	1625	3FA	Y	Y	Y (10 Amp)	Y	Y	Y	Y	52

(1) Motors shown are speed controllable. Non-speed controllable motors may be substituted if speed controller not ordered or specified (Speed Control 115V only).

(2) Motors are 1PH 115/208/230 volts except 1/10HP are specified.

(3) We reserve the right to substitute the next higher HP to maintain delivery schedules.

(4) See Model DF for 2 speed, 3 phase and explosion proof selections. Explosion Proof motors are 115/230V.

(5) Blade type: FA - Fixed Pitch Alum.

(6) Disconnects are excluded.

NOTE: See accessory sheets for details and footnotes.

**MODEL DFE/DFS - DIRECT DRIVE
SIDEWALL PROPELLER FAN
10" to 30" Exhaust (DFE)**

See Accessory page for Supply (DFS) add

DFE/ DFS Model No. (1)	HP (2)	RPM	Single Phase (7)				Three Phase (8)							Wt.
			Open Drip-proof		Totally Enclosed		Open Drip-proof			Totally Enclosed				
			One Speed (4)(7)	2 Speed 2 Wdg 1800/120 0 (5)	One Speed (4)(7)	Exp. Proof (4)(9)	One Speed (8)	2 Speed 1 Wdg 1800/90 0 (5)	2 Speed 2 Wdg 1800/120 0 (5)	One Speed (8)	2 Speed 1 Wdg 1800/90 0 (5)	2 Speed 2 Wdg 1800/120 0 (5)	Exp. Proof (6)(9)	
10	1/4	1750	Y	Y	Y	Y	Y			681				35
12	1/4	1750	Y	Y	Y	Y	Y							35
16	1/3	1750	Y	Y	Y	Y	Y							40
18	3/4	1750	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	50
20	1/3	1750	Y	Y	Y	Y	Y			Y				40
	1/2	1750	Y	Y	Y	Y	Y			Y				40
	1	1725	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	50
	1 1/2	1725	Y		Y	Y	Y	Y		Y	Y		Y	55
24	1/2	1750	Y	Y	Y	Y	Y			Y				60
	1	1725	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	65
	3/4	1140	Y		Y	Y	Y			Y				75
	1	1160	Y		Y		Y			Y				75
30	1 1/2	1725	Y		Y	Y	Y	Y		Y	Y			80
	1/2	1140	Y		Y	Y	Y			Y				90
	1	1140	Y		Y	Y	Y			Y				100
	1 1/2	1725	Y		Y	Y	Y	Y	Y	Y	Y	Y		102
	2	1725	Y		Y		Y	Y	Y	Y	Y	Y		107

(1) DF fans come standard in a galvanized finish.

(2) We reserve the right to substitute the next higher HP to maintain delivery schedules.

(3) Blade type: FA - Fixed Pitch Alum = CA - Cast Alum = P - Polypropylene (fiberglass).

(4) Single Phase are 115V 1/4 - 1/2hp and 115/208/230V 3/4 - 2hp. Explosion Proof are 115/230V.

(5) Single Phase 2 speeds are 115V. 2 Phase 3 speeds 1800/1200 are 460V. Specify voltage on 3 Phase 2 speeds 1800/900 - 208/230 or 480V. Order specific voltage if required.

2 disconnects or 6 pole type is required.

(6) Explosion Proof motors are 230/460V, 3 phase and 115/230, 1 phase.

(7) 1PH ODP & TE 1/3-1/2HP are 115V. net for 208/230V.

(8) 3PH ODP & TE are 208 or 230/460V. Except for 2 speed 1800/1200 - 460V only

(9) Note: Explosion Proof are class 1 group D and class II, group F and G only. Must use explosion proof disconnect. Factory assumes no responsibility for use outside of prescribed class and group

(10) UL is not available.

Motors come with Thermal Overload Protection as standard.

**MODEL DDE/DDS - DIRECT DRIVE
SIDEWALL PROPELLER FAN
24" and 30" Exhaust (DDE)**

See Accessory page for Supply (DDS) add

DDE/ DDS Model No. (1)	HP (2)	RPM	Single Phase (2)(3)			Three Phase (2)(4)							Wt.	
			Open Drip- proof	Totally Enclosed		Open Drip-proof			Totally Enclosed					
			One Speed (3)	One Speed (3)	Exp. Proof (5)	One Speed	2 Speed 1 Wdg 1800/900 (4)	2 Speed 2 Wdg 1800/1200 (4)	One Speed	2 Speed 1 Wdg 1800/900 (4)	2 Speed 2 Wdg 1800/1200 (4)	Exp. Proof (5)		
24	1/3	1160	Y	Y	Y									100
	1/2	1160	Y	Y	Y	Y			Y					110
	3/4	1160	Y	Y	Y	Y			Y			Y		110
	1	1160	Y	Y	Y	Y			Y			Y		115
	1/2	1750	Y	Y	Y	Y			Y					95
	3/4	1750	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
	1	1750	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	110
	1 1/2	1750	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	120
	2	1750	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	120
	3	1750				Y	Y	Y	Y	Y	Y	Y	Y	130
30	1	870				Y			Y					145
	1 1/2	870				Y			Y					155
	3/4	1160	Y	Y	Y	Y			Y			Y		115
	1	1160	Y	Y	Y	Y			Y			Y		130
	1 1/2	1160		Y	Y	Y			Y			Y		140
	2	1160				Y			Y			Y		160
	3	1160				Y			Y			Y		180
	2	1750	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	140
	3	1750				Y	Y	Y	Y	Y	Y	Y	Y	150

(1) All models foot mounted motors - DFE/S, DDE/S (Model GED/S not available). Single phase is 115/208/230V. Three phase is 230/460V

(2) We reserve the right to substitute the next higher HP to maintain delivery schedules.

(3) 1PH ODP & TE 1/3 & 1/2HP are 115V.

(4) 3PH ODP & TE are 208 or 230/460V. Except for 2 speed 1800/1200 - 460V only. 2 disconnects or 6 pole type required.

(5) 3PH Explosion Proof motors are 230/460V. 1PH are 115/230V.

(6) UL is not available.

NOTE: Disconnect switches are EXCLUDED.

NOTE: Explosion Proof Motors are class I group D and class II, Group F and G only. Must use explosion proof disconnect.

Factory assumes no responsibility for use outside of prescribed class and group.

Motors come with Thermal Overload Protection as standard.

**MODEL DDE/DDS - DIRECT DRIVE
SIDEWALL PROPELLER FAN
36" and 42" Exhaust (DDE)**

See Accessory page for Supply (DDS) add

DDE/D DS Model No. (1)	HP (2)	RPM	Single Phase (4)			Three Phase (5)							Wt.
			Open Drip- proof	Totally Enclosed		Open Drip-proof			Totally Enclosed				
				One Speed (3)	One Speed (3)	Exp. Proof (6)	One Speed (4)	2 Speed 1 Wdg 1800/900 (5)	2 Speed 2 Wdg 1800/1200 (5)	One Speed (4)	2 Speed 1 Wdg 1800/900 (5)	2 Speed 2 Wdg 1800/1200 (5)	
36	1	870	-	-	-	Y	-	-	Y	-	-	-	165
	1 1/2	870	-	-	-	Y	-	-	Y	-	-	-	155
	2	870	-	-	-	Y	-	-	Y	-	-	-	175
	3	870	-	-	-	Y	-	-	Y	-	-	-	195
	3/4	1160	Y	Y	Y	Y	-	-	Y	-	-	Y	135
	1	1160	Y	Y	Y	Y	-	-	Y	-	-	Y	140
	1 1/2	1160	-	Y	Y	Y	-	-	Y	-	-	Y	145
	2	1160	-	-	-	Y	-	-	Y	-	-	Y	190
	3	1160	-	-	-	Y	-	-	Y	-	-	Y	220
	5	1160	-	-	-	Y	-	-	Y	-	-	Y	225
	7 1/2	1160	-	-	-	Y	-	-	Y	-	-	Y	325
	42	3	1750	-	-	-	Y	Y	Y	Y	Y	Y	Y
5		1750	-	-	-	Y	Y	Y	Y	Y	Y	Y	190
7 1/2		1750	-	-	-	Y	Y	Y	Y	Y	Y	Y	245
1 1/2		870	-	-	-	Y	-	-	Y	-	-	-	170
2		870	-	-	-	Y	-	-	Y	-	-	-	190
42	3	870	-	-	-	Y	-	-	Y	-	-	-	215
	5	870	-	-	-	Y	-	-	Y	-	-	-	325
	3	1160	-	-	-	Y	-	-	Y	-	-	Y	210
	5	1160	-	-	-	Y	-	-	Y	-	-	Y	215
	7 1/2	1160	-	-	-	Y	-	-	Y	-	-	Y	360
	5	1750	-	-	-	Y	Y	Y	Y	Y	Y	Y	230
	7 1/2	1750	-	-	-	Y	Y	Y	Y	Y	Y	Y	260

- (1) All models foot mounted motors - DFE/S, DDE/S (Model GED/S not available).
- (2) We reserve the right to substitute the next higher HP to maintain delivery schedules.
- (3) 1PH ODP & TE 1/3 & 1/2HP are 115V.
- (4) 3PH ODP & TE are 208 or 230/460V. Except for 2 speed 1800/1200 - 460V only
- (5) 3PH 1800/900 2 speed- order 208/230V or 480V. 3 Phase 2 speed 1800/1200 - 460V only. 1 PH is 115V. 2 disconnects or 6 pole type required.
- (6) 3PH Explosion Proof Motors are 230/460V. 1PH Motors are 115/230V
- (7) UL is not available.

NOTE: Explosion Proof Motors are class I Group D and class II, Group F and G only. Must use explosion proof disconnect. Factory assumes no responsibility for use outside of prescribed class and group.

**MODEL DDE/DDS - DIRECT DRIVE
SIDEWALL PROPELLER FAN
48" thru 60" Exhaust (DDE)**

See Accessory page for Supply (DDS) add

DDE/ DDS Model No. (1)	HP (2)	RPM	Single Phase (4)			Three Phase (5)							
			Open Drip- proof	Totally Enclosed		Open Drip-proof			Totally Enclosed				
			One Speed (3)	One Speed (3)	Exp. Proof (6)	One Speed (4)	2 Speed 1 Wdg 1800/900 (5)	2 Speed 2 Wdg 1800/1200 (5)	One Speed (4)	2 Speed 1 Wdg 1800/900 (5)	2 Speed 2 Wdg 1800/1200 (5)	Exp. Proof (6)	
48	1 1/2	870	-	-	-	Y	-	-	Y	-	-	-	190
	2	870	-	-	-	Y	-	-	Y	-	-	-	200
	3	870	-	-	-	Y	-	-	Y	-	-	-	250
	5	870	-	-	-	Y	-	-	Y	-	-	-	360
	7 1/2	870	-	-	-	Y	-	-	Y	-	-	-	458
	10	870	-	-	-	Y	-	-	Y	-	-	-	470
	3	1160	-	-	-	Y	-	-	Y	-	-	Y	202
	5	1160	-	-	-	Y	-	-	Y	-	-	Y	212
	7 1/2	1160	-	-	-	Y	-	-	Y	-	-	Y	226
54	10	1160	-	-	-	Y	-	-	Y	-	-	Y	266
	5	1160	-	-	-	Y	-	-	Y	-	-	Y	242
	7 1/2	1160	-	-	-	Y	-	-	Y	-	-	Y	298
60	10	1160	-	-	-	Y	-	-	Y	-	-	Y	390
	7 1/2	870	-	-	-	Y	-	-	Y	-	-	-	495
	10	870	-	-	-	Y	-	-	Y	-	-	-	510

- (1) All models foot mounted motors - DFE/S, DDE/S (Model GED/S not available).
- (2) We reserve the right to substitute the next higher HP to maintain delivery schedules.
- (3) 1PH ODP & TE 1/3 & 1/2HP are 115V.
- (4) 3PH ODP & TE are 208 or 230/460V.
- (5) 3PH 1800/900 2 speed- order 208/230V or 480V. 3 Phase 2 speed 1800/1200 - 460V only. 1 PH is 115V. 2 disconnects or 6 pole type required.
- (6) 3PH Explosion Proof Motors are 230/460V. 1PH Motors are 115/230V
- (7) UL is not available.

NOTE: Explosion Proof Motors are class I Group D and class II, Group F and G only. Must use explosion proof disconnect. Factory assumes no responsibility for use outside of prescribed class and group.

OPTIONS & ACCESSORIES

MODELS GED/GSD & DFE/DFS

DIRECT DRIVE SIDEWALL PROPELLER FANS

TERMS: Prices are F.O.B Factory

Supply & Construction Options		Fan Size				
		10/12	14/16	18/20	24	30
Supply Fan add (1)		Y	Y	Y	Y	Y
Aluminum Blades (2)		-	-	-	Call Factory	
All Aluminum List Add Panel (3)	GED/GSD	Y	Y	Y	-	-
	DFE/DFS	Y	Y	Y	Y	Y

(1) Supply - Add to list price for supply style fan. We strongly recommend rainhood and motorized damper for all supply applications.

(2) Aluminum Blade - Has steel center hub.

(3) Aluminum List Add - Includes panel, pipe support, and blade wings. Blade hub is steel. Motor and bearing supports will be galvanized steel on all horsepower models, includes stainless steel fasteners.

Coating Options		Fan Size				
		10/12	14/16	18/20	24	30
Epoxy (4)(7)		Y	Y	Y	Y	Y
Air Dry Phenolic (Heresite)(5)(7)		Y	Y	Y	Y	Y
Synthetic Resin (formerly Eisenheiss)(6)(7)		Y	Y	Y	Y	Y

(4) Epoxy Coating - (Gray) For use in alkaline type atmosphere (not for use in acetic and nitric acids).

Epoxy forms an excellent hard, heavy film barrier against chemical attack as well as physical damage from direct impact and abrasion. Heat up to 250 degrees F.

(5) Air Dry Phenolic (Heresite) - Protection against salt atmosphere, humidity and mildly corrosive chemical conditions up to 150 deg F.

(6) Synthetic Resin (formerly Eisenheiss) - A two coat air dry finish effective preventing corrosion by acids, alkalis, fumes, steam and condensation.

(7) Coating prices are for fans only. For standard color, use 45 percent of the fan coating list price to establish list price add for each accessory.

INSIDE & OUTSIDE COVERAGE ONLY. For special color, use 60% of the fan coating price for each accessory.

NOTE: There is no additional charge for coating the flat wire guards/birdscreens.

Mounting Arrangements		Fan Size				
		10/12	14/16	18/20	24	30
Assembled Wall Housing Pack: Wall Housing, Rear Guard, and Gravity Damper Ships Assembled (8)	Exhaust/Supply	Y	Y	Y	Y	Y
	Exhaust/Supply	Y	Y	Y	Y	Y
Wall Housing* (9)	MAX CFM	-	4140	6210	10440	16560
	Bolted Access Door (std)	-	Y	Y	Y	Y
	Hinged Access Door	-	Y	Y	Y	Y
Filtered Wall Housing - Supply or Exhaust (10)		-	Y	Y	Y	Y
Wall Collar* (11)		Y	Y	Y	Y	Y

(8) Assembled Wall Housing Pack -Includes wall housing, gravity damper attached and rear OSHA 1/2" x 1" wire wall housing guard Unit ships completely assembled with fan. See #9 for more details.

(9) Wall Housing - Factory assembled wall housings are used to facilitate mounting fans with their accessories in a wall. The housing may be positioned inside or outside the building per the customer's preference or application. Typically, the wall housing for exhaust applications incorporates a damper on the exterior of the building and a guard on the interior of the building. On supply applications, a rainhood is highly recommended to help prevent moisture from being pulled into the building. Wall housing mounted exterior of building will require weatherproof caulking. Depending on mounting style, support by others may be required.

(10) Filtered Wall Housing - Includes Wall Housing and Filter Box. Standard construction is galvanized steel. 3 sets of 4 mounting flanges (1 set mounted to filter box and 2 sets shipped loose) included to mount filter box to wall housing and to mount filtered wall housing to the wall. Permanent 2-inch (51 mm) washable filters are accessed through a bolted panel (Hinged door optional) and can be easily removed for cleaning. Refer to current submittal for details. Filter Box shipped loose from Wall Housing.

(11) Wall Collar - The collar projects inward through the wall. It insures proper mounting of fan and front guard or damper. Refer to current submittal for details. Motorside guard not available with wall collar. Used when fan is mounted a minimum of 10' off floor or out of reach of personnel.

OPTIONS & ACCESSORIES (cont.)
MODELS GED/GSD & DFE/DFS
DIRECT DRIVE SIDEWALL PROPELLER FANS

Mounting Arrangement Accessories		Fan Size					
		10/12	14/16	18/20	24	30	
Rear or Front Wall Housing and Front Wall Collar Guard* (12)		Standard	Y	Y	Y	Y	Y
		Heavy Duty	Y	Y	Y	Y	Y
Rainhood* (13) Exhaust & Supply 10 thru 16" Fans "	Supply 90 Degrees	Supply Assembled			Y	Y	Y
		Supply K.D.			Y	Y	Y
	Exhaust 45 Degrees	Exhaust Assembled	Y	Y	Y	Y	Y
		Exhaust K.D.	Y	Y	Y	Y	Y
Birdguard for Rainhood (13)			Y	Y	Y	Y	Y
Angle Mounting Flanges (14)		Set	Y	Y	Y	Y	Y
CFM limits for Std Duty Damper			2500	4445	6994	11736	17778
Damper Std Duty Automatic (15)		Exh/Sup	Y	Y	Y	Y	Y
Damper Motor 115/230V (16)		Exh/Sup	Y	Y	Y	Y	Y
Center Pivot Motorized H.D. (17)		Exh/Sup	Y	Y	Y	Y	Y
Step Down Damper Transformer (18)			Y	Y	Y	Y	Y
Delay Switch (19)		5HP or Larger	Y	Y	Y	Y	Y
Damper Birdscreen (20)		Std Duty	Y	Y	Y	Y	Y

(12) Rear or Front Wall Housing Guard and Front Wall Collar Guard - Standard is 1/2" x 1" galvanized wire. HD uses aluminum expanded metal. Both are OSHA approved. Can only be used as front guard on wall collar.

(13) Rainhood - Refer to current submittal for details. When ordered knocked down, includes instructions and hardware. 90 degree supply style must be used with supply fan to prevent water entry. Rainhood attaches to wall housing or wall collar flanges. Birdguard is 1/2" x 1" galvanized wire and ships as ordered with rainhood.

(14) Angle Flanges - Angles attach to wall box to provide the means of attachment to the wall. Four (4) angles ship KD.

(15) Damper - Aluminum damper blades std through 3HP - Galvanized blades std. for 5HP and above.

(16) Damper Motor - Proper clearance must exist (minimum 12 inches). Damper motor kits and dampers ship separate with instructions and mounting hardware. For factory assembly of motor kits and mounting motorized damper to wall housing or wall collar -add 25% of damper price. Standard voltage is 115/230V. Supply dampers frame extends outward, approx. 3 inches. See current submittal. We strongly recommend motorized damper and rainhood for all supply applications.

(17) Center Pivoted Motorized H.D. - Required on all reversible fan applications, for tighter sealing, and on high CFM applications. Units ship separate and FFA from supplier. Standard voltage is 1/120/230. Order a Step Down Damper Transformer for other voltages (see #20). Refer to current submittal. Max 20HP. For factory assembly of damper to wall housing add \$103 list.

(18) Step Down Damper Transformer - Step down 208/230/460V to 115V. Ships separate.

(19) Delay (Tilt) Switch - For motorized applications. Must use on 5HP and higher HP.

(20) Damper Birdscreen - Consists of 1/2" x 1" galvanized wire. For standard and heavy-duty damper only. NOT FOR CENTER PIVOTED DAMPERS.

OPTIONS & ACCESSORIES

MODELS DDE/DDS

DIRECT DRIVE SIDEWALL PROPELLER FANS

Supply & Construction Options		Fan Size							
		25	31	38	46	50	54	62	
Supply Fan add (1)		Y	Y	Y	Y	Y	Y	Y	
Aluminum Blades (2)		Contact Factory							
Aluminum Reversible Blades (3)		Contact Factory							
All Aluminum List Add (fan) (4)		5HP Max	Y	Y	Y	Y	Y	Y	-
		Over 5HP	-	-	Y	Y	Y	Y	-

(1) Supply - Add to list price for supply style fan. We strongly recommend rainhood and motorized damper for all supply applications.

(2) Aluminum Blade - Has steel center hub.

(3) Aluminum Reversible Blades - Used to make unit a 2 way unit (supply/exhaust). If backdraft damper is required, the center pivoted style is required. Available on Three Phase ONLY. See note #18. Blades will be extruded aluminum.

(4) Aluminum List Add - Includes panel, pipe support, and blade wings. Blade hub is steel. Motor and bearing supports will be galvanized steel on all horsepower models, includes stainless steel fasteners.

Coating		Fan Size						
		25	31	38	44	50	56	62
Epoxy (5)(8)		Y	Y	Y	Y	Y	Y	Y
Air Dry Phenolic (Heresite) (6)(8)		Y	Y	Y	Y	Y	Y	Y
Synthetic Resin (formerly Eisenheiss) (7)(8)		Y	Y	Y	Y	Y	Y	Y

(5) Epoxy Coating - (Gray) For use in alkaline type atmosphere (not for use in acetic and nitric acids). Epoxy forms an excellent hard, heavy film barrier against chemical attack as well as physical damage from direct impact and abrasion. Heat up to 250 degrees F.

(6) Air Dry Phenolic (Heresite) - Protection against salt atmosphere, humidity and mildly corrosive chemical conditions up to 150 deg F.

(7) Synthetic Resin (formerly Eisenheiss) - A two coat air dry finish effective preventing corrosion by acids, alkalis, fumes, steam and condensation.

(8) Coating prices are for fans only. For standard color, use 45 percent of the fan coating list price to establish list price add for each accessory. INSIDE & OUTSIDE COVERAGE ONLY.

Mounting Arrangement		Fan Size						
		25	31	38	44	50	56	62
Assembled Wall Housing Pack: Wall Housing, Rear Guard, and Gravity Damper Ship Assembled (9)	Exhaust/Supply	Y	Y	Y	Y	Y	Y	Y
	Wall Housing* (10)	Y	Y	Y	Y	Y	Y	Y
Filtered Wall Housing - Supply or Exhaust (11)	MAX CFM	10440	16560	20880	26100	31320	39150	39150
	Bolted Access Door (std)	Y	Y	Y	Y	Y	Y	Y
	Hinged Access Door	Y	Y	Y	Y	Y	Y	Y
Wall Collar* (12)	Exhaust/Supply	Y	Y	Y	Y	Y	Y	Y

(9) Assembled Wall Housing Pack -Includes wall housing, gravity damper attached and rear OSHA 1/2" x 1" wire wall housing guard. Unit ships completely assembled with fan. See #10 for more details.

(10) Wall Housing - Factory assembled wall housings are used to facilitate mounting fans with their accessories in a wall. The housing may be positioned inside or outside the building per the customer's preference or application. Typically, the wall housing for exhaust applications incorporates a damper on the exterior of the building and a guard on the interior of the building. On supply applications, a rainhood is highly recommended to help prevent moisture from being pulled into the building. Wall housing mounted on exterior of building will require weatherproof caulking. Depending on mounting style, support by others may be required.

(11) Filtered Wall Housing -Includes Wall Housing and Filter Box. Standard construction is galvanized steel. 3 sets of 4 mounting flanges (1 set mounted to filter box and 2 sets shipped loose) included to mount filter box to wall housing and to mount filtered wall housing to the wall. Permanent 2-inch (51 mm) washable filters are accessed through a bolted panel (Hinged door optional) and can be easily removed for cleaning. Refer to current submittal for details. Filter Box shipped loose from Wall Housing.

(12) Wall Collar - The collar projects inward through the wall. It insures proper mounting of fan and front guard or damper. Refer to current submittal for details. Motorside guard not available with wall collar. Used when fan is mounted a minimum of 10' off floor or out of reach of personnel.

OPTIONS & ACCESSORIES (cont.)
MODELS DDE/DDS
DIRECT DRIVE SIDEWALL PROPELLER FANS

Mounting Arrangement Accessories			Fan Size						
			24	30	36	42	48	54	60
Rear or Front Wall Housing and Front Wall Collar Guard* (13)	Standard		Y	Y	Y	Y	Y	Y	Y
	Heavy Duty		Y	Y	Y	Y	Y	Y	Y
Rainhood* (14) Exhaust & Supply 10" thru 16" Fans	Supply 90 Degrees	Supply Assembled	Y	Y	Y	Y	Y	Y	Y
		Supply K.D.	Y	Y	Y	Y	Y	Y	Y
	Exhaust 45 Degrees	Exhaust Assembled	Y	Y	Y	Y	Y	Y	Y
		Exhaust K.D.	Y	Y	Y	Y	Y	Y	Y
Birdguard for Rainhood (14)			Y	Y	Y	Y	Y	Y	Y
Angle Mounting Flanges (15)		Set	Y	Y	Y	Y	Y	Y	Y
CFM limits for Std Duty Damper			11736	17778	25069	33611	40798	47587	62731
Damper Std Duty Automatic (16)		Exh/Sup	Y	Y	Y	Y	Y	Y	Y
Damper Motor 115/230V (17)		Exh/Sup	Y	Y	Y	Y	Y	Y	Y
Center Pivot Motorized H.D. (18)		Exh/Sup	Y	Y	Y	Y	Y	Y	Y
Step Down Damper Transformer (19)			Y	Y	Y	Y	Y	Y	Y
Delay Switch (20)		5HP or Larger	Y	Y	Y	Y	Y	Y	Y
Damper Birdscreen (21)		Std Duty	Y	Y	Y	Y	Y	Y	Y

(13) Rear or Front Wall Housing Guard and Front Wall Collar Guard - Standard is 1/2" x 1" galvanized wire. HD uses aluminum expanded metal. Both are OSHA approved. Can only be used as front guard on wall collar.

(14) Rainhood - Refer to current submittal for details. When ordered knocked down, includes instructions and hardware. 90 degree supply style must be used with supply fan to prevent water entry. Rainhood attaches to wall housing or wall collar flanges. Birdguard is 1/2" x 1" galvanized wire and ships as ordered with rainhood.

(15) Angle Flanges - Angles attach to wall box to provide the means of attachment to the wall. Four (4) angles ship KD.

(16) Damper - Aluminum damper blades std through 3HP - Galvanized blades std. for 5HP and above.

(17) Damper Motor - Proper clearance must exist (minimum 12 inches). Damper motor kits and dampers ship separate with instructions and mounting hardware. For factory assembly of motor kits and mounting motorized damper to wall housing or wall collar -add 25% of damper price. Standard voltage is 115/230V. Supply dampers frame extends outward, approx. 3 inches. See current submittal. We strongly recommend motorized damper and rainhood for all supply applications.

(18) Center Pivoted Motorized H.D. - Required on all reversible fan applications, for tighter sealing, and on high CFM applications. Units ship separate and FFA from supplier. Standard voltage is 1/120/230. Order a Step Down Damper Transformer for other voltages (see #20). Refer to current submittal. Max 20HP.

(19) Step Down Damper Transformer - Step down 208/230/460V to 115V. Ships separate.

(20) Delay (Tilt) Switch - For motorized applications. Must use on 5HP and higher HP.

(21) Damper Birdscreen - Consists of 1/2" x 1" galvanized wire. For standard and heavy-duty damper only.

NOT FOR CENTER PIVOTED DAMPERS.