# MODELS GED/GSD, eGED/eGSD, DFE/DFS, DDE/DDS

## DIRECT DRIVE SIDEWALL PROPELLER FANS

## LINE OVERVIEW

S&P's Direct Drive Sidewall Propeller Fan line is designed to exhaust or supply large volumes of air at relatively low static pressures. With 3 types of construction, the direct drive models are designed for use in a variety of applications for commercial, industrial and agricultural buildings such as manufacturing and assembly plants, warehouses, parking garages, gymnasiums, equipment rooms, distribution centers, foundries, boiler rooms, greenhouses and OEM applications. The direct drive models provide general ventilation for a wide variety of buildings and enclosed areas within buildings. Examples include factories, assembly plants, warehouses, gymnasiums, garages, jails, machine rooms and many others.

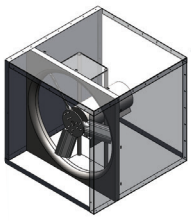
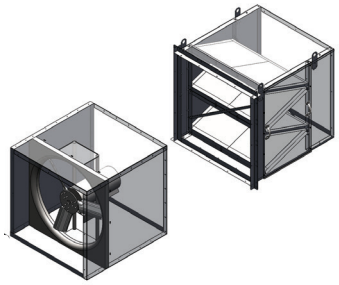
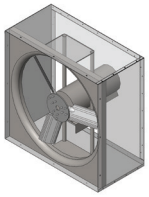
These Sidewall Propeller Fans are rated from 300 to 55,000 CFM with static pressures to 1" w.g. Models range from 10 to 60". A full line of accessories is available to meet any need or specification. See the below Model Comparison to find the right Direct Drive Sidewall Propeller Fan for your application.

Model GED is available in our Quickship program. Most sizes are available for next day or 10-day shipping from stock.

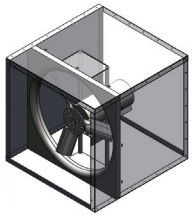
## MODEL COMPARISON

| Construction Type | Model | Size Range | Performance |
|---|---|---|---|
|  | GED<br>GSD | 10 to 20" | 300 to 3,500 CFM up to 3/4" w.g. |
|  | DFE<br>DFS | 10 to 30" | 500 to 12,000 CFM up to 1" w.g. |
|  | DDE<br>DDS | 24 to 60" | 3,500 to 55,000 CFM up to 1" w.g.. |

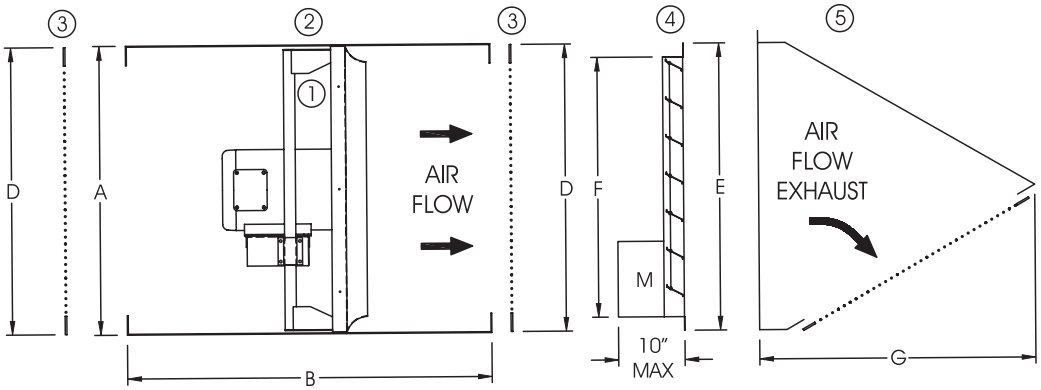
## MOUNTING ARRANGEMENT OPTIONS

| Mounting Arrangement | | Description |
|---|---|---|
| **Wall Housing** |  | Heavy-gauge, all galvanized G-90 steel housing provides a simple solution to installing a fan and all required accessories in a rough wall opening. It can be used in exhaust or supply applications and in fan sizes 10 through 60 inch. |
| **Filtered Wall Housing** |  | For installations where filtering is required. Heavy-gauge, all galvanized G-90 steel filtered wall housings are available in both supply and exhaust configurations. They are available in nine (9) sizes for fans ranging from size 14 to 60 inches. They are designed with the draw-thru concept to achieve the highest filter and fan efficiencies. |
| **Wall Collar** |  | Heavy-gauge, all G-90 galvanized mounting collar provides a simple solution to installing a fan in a rough wall opening when a rear safety guard is **NOT** required. |

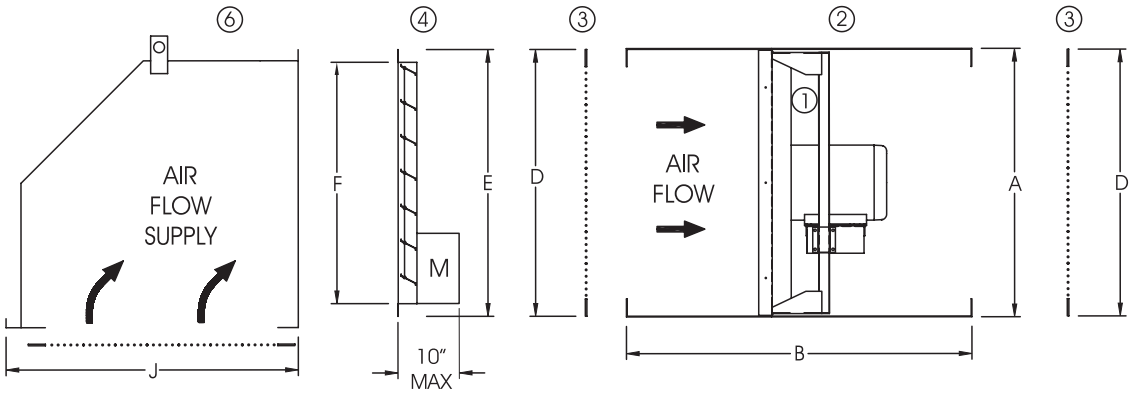
# WALL HOUSING MOUNTING OPTIONS



**WALL HOUSING**: This heavy-gauge, all galvanized G-90 steel (aluminum optional) housing provides a simple solution to installing a fan and all specified accessories in a rough wall opening. It can be used in exhaust or supply applications and maintains the proper clearance between the fan and damper. Depending on space and maintenance requirements, the wall housing may be installed projecting inside or outside of the building. All housings ship assembled with the fan to lessen job site installation costs. Wire motorside guard, damper or propeller side guard and rainhood may be attached to the flange. We strongly recommend a rainhood and motorized shutter for all supply applications and whenever additional weather resistance is desired.




| Fan Size | A (S.Q.) O.D. ① | Wall Housing ② B Length | | | | Minimum Wall Opening | Flat Guard ③ | Damper ④ | | Rainhood Exhaust 45 Deg. ⑤ |
|---|---|---|---|---|---|---|---|---|---|---|
| | | GED & DFE Only | | DDE/DDS | | | | | | |
| | | Exhaust | Supply | Exhaust | Supply | Square | D (SQ.) | E (O.D.) | F | G |
| 10/12 | 17 | 26 | 26 | N/A | N/A | 17 1/2 | 16 | 14 1/2 | 12 | 16 3/4 |
| 14/16 | 21 | 26 | 26 | N/A | N/A | 21 1/2 | 20 | 18 1/2 | 16 | 20 1/4 |
| 18/20 | 25 | 26 | 26 | N/A | N/A | 25 1/2 | 24 | 22 1/2 | 20 | 24 1/4 |
| 24 | 31 | 44 | 44 | 44 | 44 | 31 1/2 | 30 | 28 1/2 | 26 | 28 1/2 |
| 30 | 37 | 44 | 44 | 44 | 44 | 37 1/2 | 36 | 34 1/2 | 32 | 34 1/2 |
| 36 | 43 | N/A | N/A | 44 | 44 | 43 1/2 | 42 | 40 1/2 | 38 | 40 1/2 |
| 42 | 49 | N/A | N/A | 44 | 44 | 49 1/2 | 48 | 46 1/2 | 44 | 44 1/2 |
| 48 | 55 | N/A | N/A | 44 | 44 | 55 1/2 | 54 | 52 1/2 | 50 | 49 1/2 |
| 54 | 61 | N/A | N/A | 44 | 44 | 61 1/2 | 60 | 58 1/2 | 56 | 55 |
| 60 | 67 | N/A | N/A | 44 | 44 | 67 1/2 | 66 | 64 1/2 | 62 | 69 |

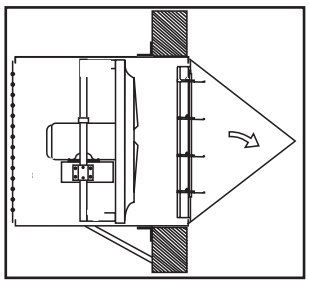



**90 Deg. Supply Rainhood - Sizes 20 Thru 60**

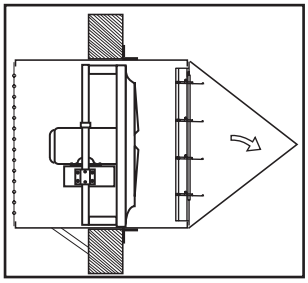
| Fan Size | Width | Height | J | Gauge | Degree |
|---|---|---|---|---|---|
| 20 | 22 | 22 | 27 3/4 | 18 | 90 |
| 24 | 27 1/4 | 26 1/2 | 38 1/2 | 18 | 90 |
| 30 | 32 1/2 | 33 1/2 | 44 1/2 | 18 | 90 |
| 36 | 38 1/2 | 39 1/4 | 49 | 18 | 90 |
| 42 | 44 1/2 | 45 1/4 | 56 1/2 | 18 | 90 |
| 48 | 50 1/2 | 51 1/2 | 62 1/2 | 18 | 90 |
| 54 | 56 3/4 | 57 | 73 | 18 | 90 |
| 60 | 62 3/4 | 63 | 73 | 18 | 90 |

# WALL HOUSING STANDARD MOUNTING ARRANGEMENTS

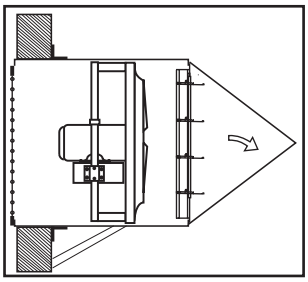
The most common mounting arrangement (below left) leaves a clean building exterior and allows access to the fan, motor and drives from inside the building. Additional bracing angle, rod or cable (field provided) should be used in addition to the mounting angles to support the fan and wall housing assembly.



Wall housing flush with outside wall and projecting inside the building



Wall housing centered within wall

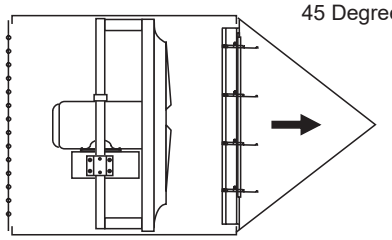


Wall housing flush with inside wall and projecting outside the building

**NOTE:** Supply applications have the fan venturi spun on the opposite side of the fans shown above. The fans shown are exhaust. Rainhoods are required on supply applications and recommended on exhaust applications where additional weather protection is desired. Exhaust and/or supply fans installed as shown should be serviced from the interior of the building. Where service is required from the exterior of the building, consult the factory or representative for recommendations. All bracing shown is field provided. Field flashing and caulking of wall housing seams and unused mounting holes, will ensure a weather resistant installation.

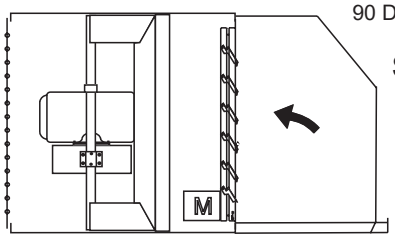
# PRESSURE LOSS GUIDE FOR ACCESSORIES

Use the estimated pressure drop graphs to help select the proper exhaust or supply fan that will deliver the desired airflow. Enter the graph from the bottom at the specified CFM and move vertically upward to the fan curve for the desired size, then horizontally to the left and read the estimated static pressure drop resulting from these typical accessory packages. Add the accessory pressure loss to the system (or building) design static pressure loss to obtain the total static pressure loss to be used for the proper fan selection.



45 Degree

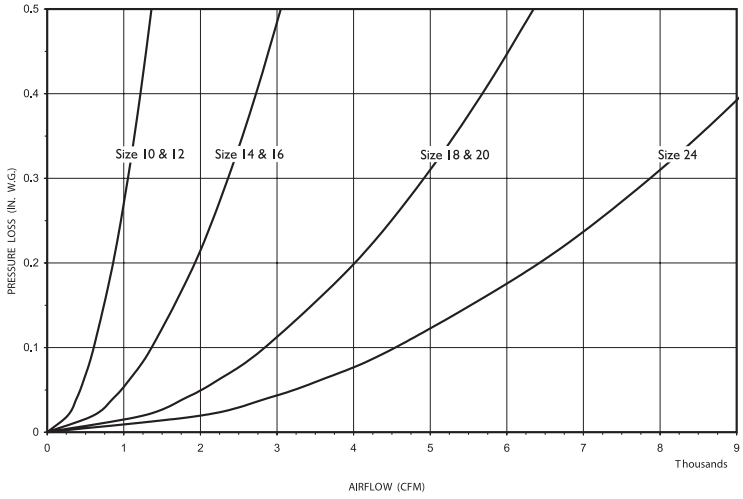
**EXHAUST AIRFLOW**
with WALL HOUSING,
GRAVITY DAMPER,
RAINHOOD AND
FLAT GUARD



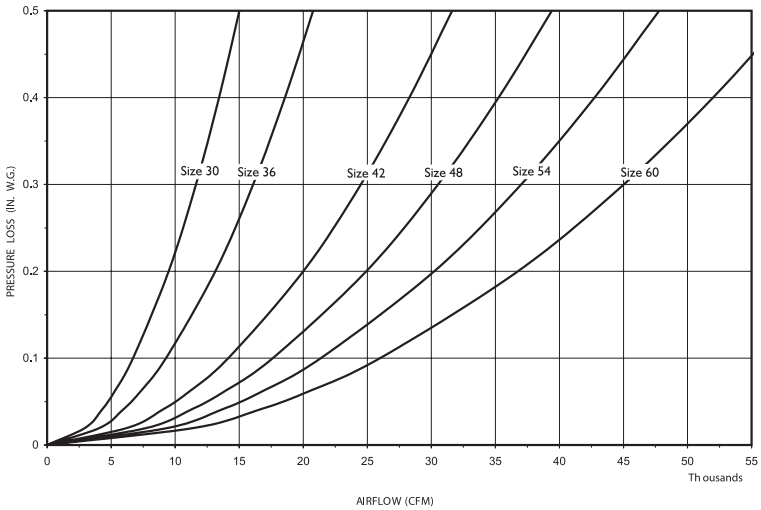

90 Degree

**SUPPLY AIRFLOW**
with WALL HOUSING,
MOTORIZED DAMPER,
RAINHOOD AND
FLAT GUARD

**SIZES 10 THROUGH 24**



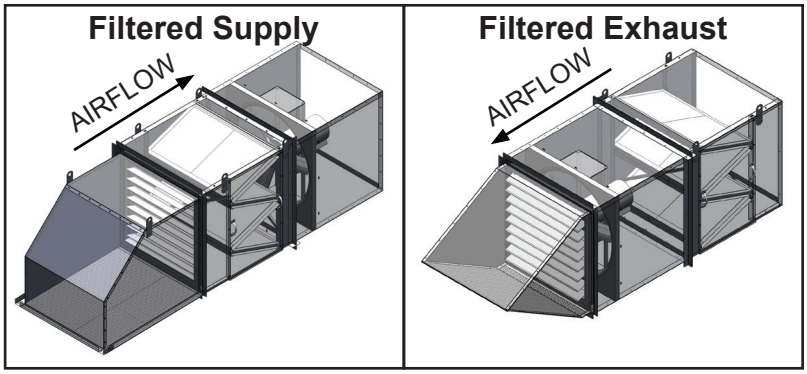

**SIZES 30 THROUGH 60**



# FILTERED WALL HOUSING MOUNTING OPTIONS

Filtered wall housings are available in both supply and exhaust configurations. They are available in nine (9) sizes for fans ranging from size 14 to 60 inches. They are designed with the draw-thru concept to achieve the highest filter and fan efficiencies.

Standard construction is galvanized steel. Mounting flanges are factory installed for either flush exterior or flush interior. Permanent 2-inch (51 mm) washable filters are accessed through a bolted or hinged panel and can be easily removed for cleaning.




## FILTERED SUPPLY WALL HOUSING

### Standard Features and Options

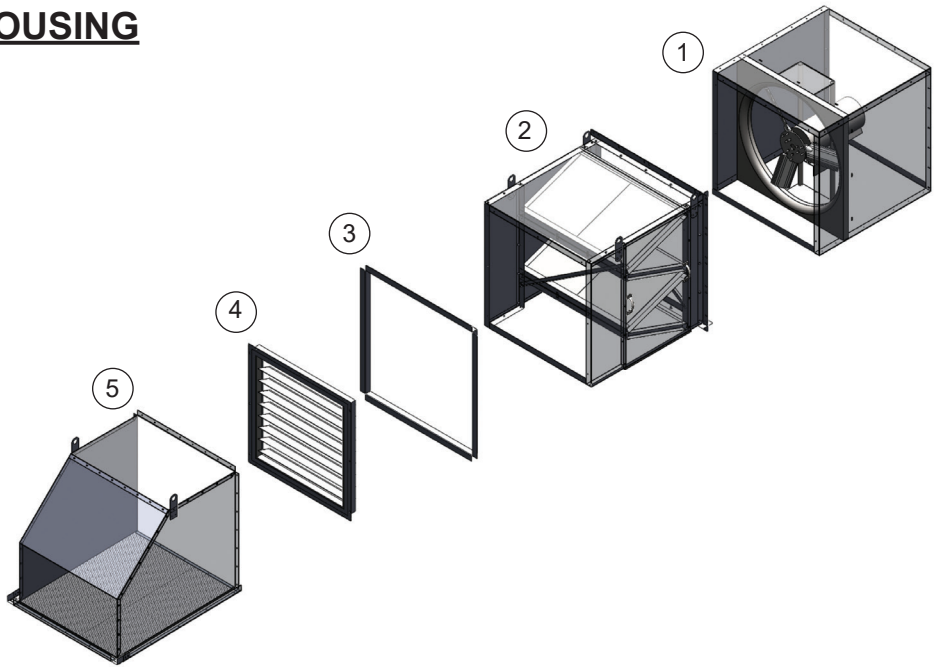
1. **Wall Housing Box (Standard)**

2. **Filter Box (Standard)**
   - Bolted or Hinged Door
   - Includes 2 sets of flanges for mounting filter box to wall housing.

3. **Wall Mount Flanges**
   - Set of 4 - shipped loose

4. **Damper (Optional)**
   - Supply Type
   - Gravity, Motorized, or Center Pivot

5. **Rain Hood (Optional)**
   - 90 Degree - Supply Type




## FILTERED EXHAUST WALL HOUSING

### Standard Features and Options

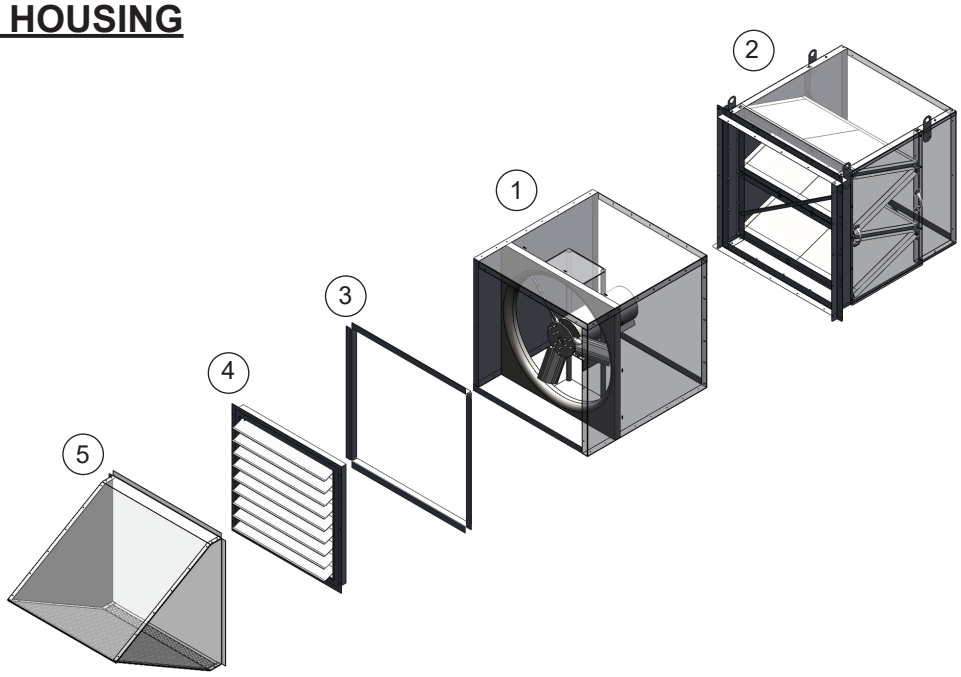
1. **Wall Housing Box (Standard)**

2. **Filter Box (Standard)**
   - Bolted or Hinged Door
   - Includes 2 sets of flanges for mounting filter box to wall housing.

3. **Wall Mount Flanges**
   - Set of 4 - shipped loose

4. **Damper (Optional)**
   - Exhaust Type
   - Gravity, Motorized, or Center Pivot

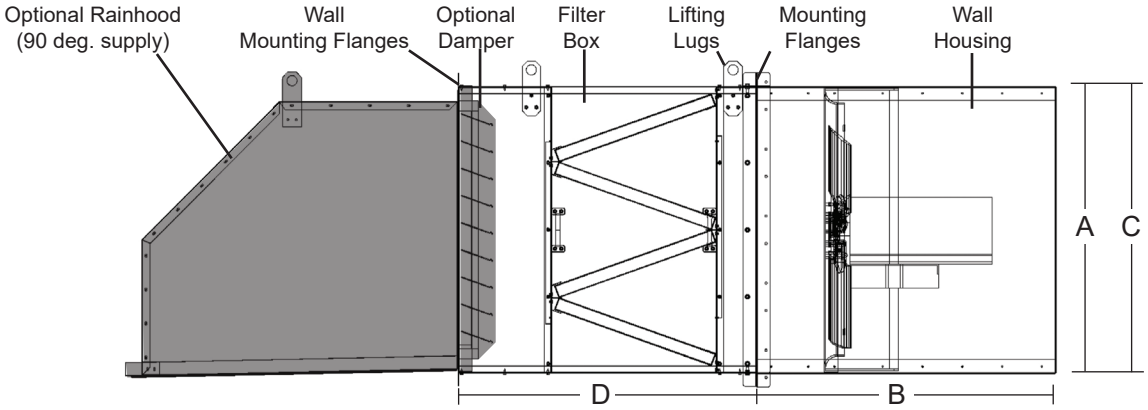
5. **Rain Hood (Optional)**
   - 45 Degree - Exhaust Type



# FILTERED WALL HOUSING MOUNTING OPTIONS Cont.

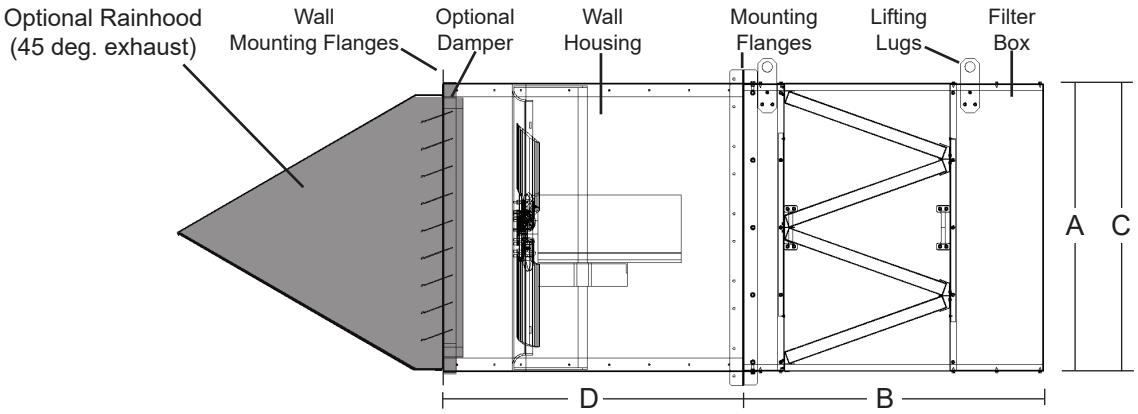
## Filtered Wall Housing Dimensions

### Filtered Supply



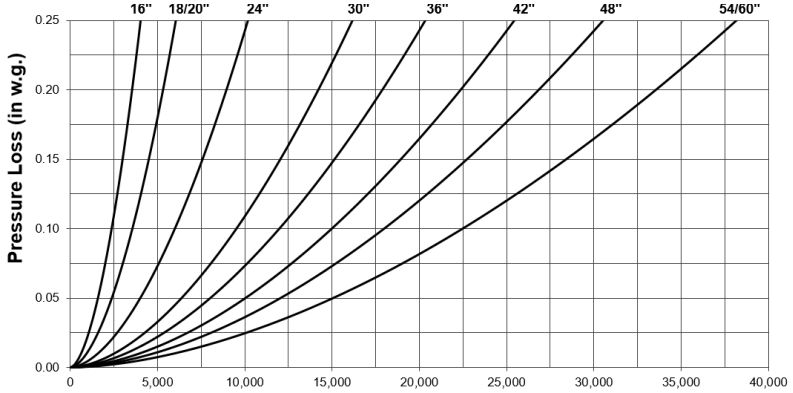

| Fan Size | A (S.Q.) O.D. | Wall Housing B Length | | | | Minimum Wall Opening | Filter Box | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | GED & DFE Only | | DDE/DDS | | | C | D | # of Filters | Filter Actual Dimensions |
| | | Exhaust | Supply | Exhaust | Supply | Square | | | | |
| 14/16 | 21 | 26 | 26 | N/A | N/A | 21 1/2 | 21 | 39 | 2 | 19 5/8 x 19 5/8 x 1 7/8 |
| 18/20 | 25 | 26 | 26 | N/A | N/A | 25 1/2 | 25 | 44 1/8 | 3 | 19 5/8 x 24 5/8 x 1 7/8 |
| 24 | 31 | 44 | 44 | 44 | 44 | 31 1/2 | 31 | 41 1/8 | 4 | 19 5/8 x 24 5/8 x 1 7/8 |
| 30 | 37 | 44 | 44 | 44 | 44 | 37 1/2 | 37 | 44 1/8 | 8 | 15 5/8 x 24 5/8 x 1 7/8 |
| 36 | 43 | N/A | N/A | 44 | 44 | 43 1/2 | 43 | 44 1/8 | 8 | 19 5/8 x 24 5/8 x 1 7/8 |
| 42 | 49 | N/A | N/A | 44 | 44 | 49 1/2 | 49 | 44 1/8 | 10 | 19 5/8 x 24 5/8 x 1 7/8 |
| 48 | 55 | N/A | N/A | 44 | 44 | 55 1/2 | 55 | 40 1/2 | 12 | 19 5/8 x 24 5/8 x 1 7/8 |
| 54 | 61 | N/A | N/A | 44 | 44 | 61 1/2 | 61 | 44 1/8 | 15 | 19 5/8 x 24 5/8 x 1 7/8 |
| 60 | 67 | N/A | N/A | 44 | 44 | 67 1/2 | 67 | 44 1/8 | 15 | 19 5/8 x 24 5/8 x 1 7/8 |

### Filtered Exhaust



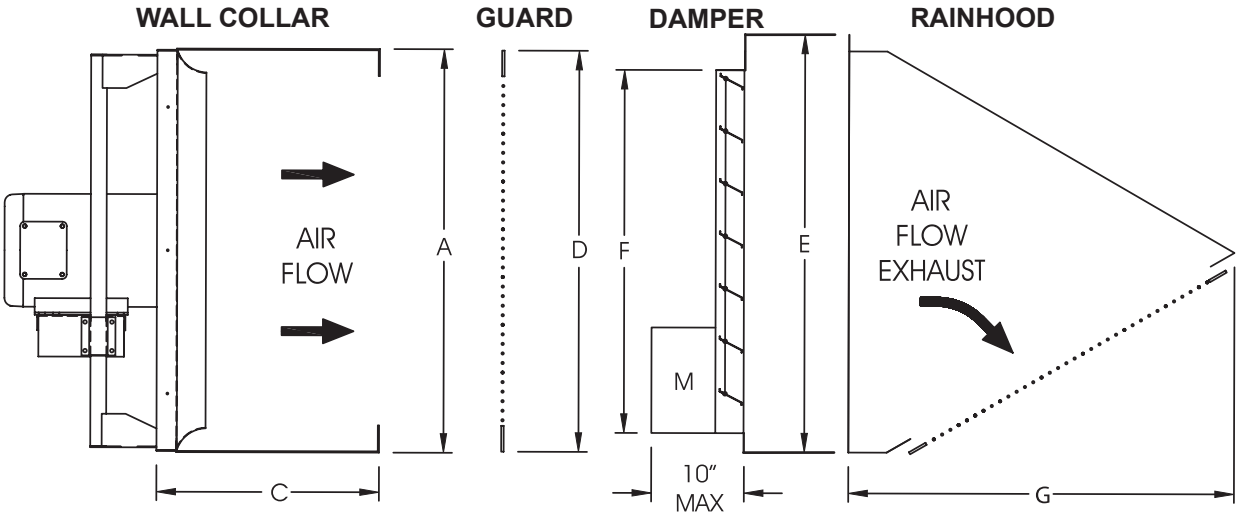

## PRESSURE LOSS GUIDE FOR FILTER BOX

Use the estimated pressure drop graphs to help select the proper exhaust or supply fan that will deliver the desired airflow. Enter the graph from the bottom at the specified CFM and move vertically upward to the fan curve for the desired size, then horizontally to the left and read the estimated static pressure drop resulting from these typical accessory packages. Add the accessory pressure loss to the system (or building) design static pressure loss to obtain the total static pressure loss to be used for the proper fan selection.



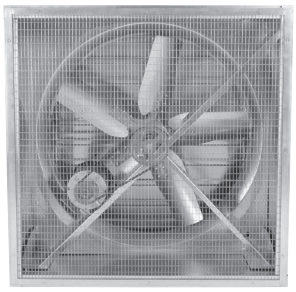
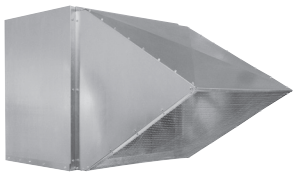
# WALL COLLAR MOUNTING OPTIONS

**WALL COLLAR**: This heavy-gauge, all G-90 galvanized (aluminum optional) mounting collar provides a simple solution to installing a fan in a rough wall opening when a rear safety guard is **NOT** required. A front wire guard or shutter and rainhood can be attached to the front flanges. The wall collar can be used in exhaust or supply applications for all fan sizes and maintain the proper clearance between the fan and damper. The wall collar is mounted with the fan on the interior side of the building. All collars ship fully assembled with the fan to lessen job site installation costs. We strongly recommend a rainhood and motorized shutter for all supply applications and for additional weather protection.



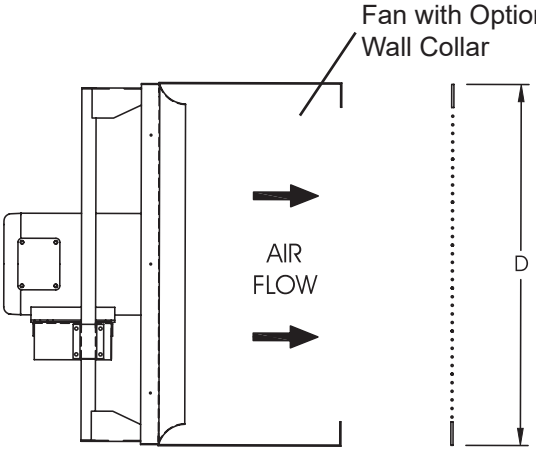

| Fan Size | WALL COLLAR | | MINIMUM WALL OPENING | FLAT GUARD | DAMPER | | RAINHOOD Exhaust 45 Deg. |
|---|---|---|---|---|---|---|---|
| | A | C | Square | D (SQ.) | E (O.D.) | F | G |
| 10/12 | 17 | 16 | 17 1/2 | 16 | 14 1/2 | 12 | 16 3/4 |
| 14/16 | 21 | 16 | 21 1/2 | 20 | 18 1/2 | 16 | 20 1/4 |
| 18/20 | 25 | 16 | 25 1/2 | 24 | 22 1/2 | 20 | 24 1/4 |
| 24 | 31 | 21 | 31 1/2 | 30 | 28 1/2 | 26 | 28 1/2 |
| 30 | 37 | 21 | 37 1/2 | 36 | 34 1/2 | 32 | 34 1/2 |
| 36 | 43 | 21 | 43 1/2 | 42 | 40 1/2 | 38 | 40 1/2 |
| 42 | 49 | 21 | 49 1/2 | 48 | 46 1/2 | 44 | 44 1/2 |
| 48 | 55 | 21 | 55 1/2 | 54 | 52 1/2 | 50 | 49 1/2 |
| 54 | 61 | 21 | 61 1/2 | 60 | 58 1/2 | 56 | 55 |
| 60 | 67 | 21 | 67 1/2 | 66 | 64 1/2 | 62 | 69 |

# ACCESSORIES & OPTIONS
## FOR MOUNTING ARRANGEMENTS

| Accessory or Option | |
|---|---|
|  | **Safety Guards**<br>Safety Guards (Standard or Heavy-Duty Flat Guards) are strongly recommended to protect personnel from accidental injury and to prevent debris from entering the fan. OSHA approved guards are required in many installations including when the fans are within 7 feet of the floor or work/access area. |
|  | **Rainhoods or Weatherhoods**<br>Designed to provide additional weather protection by partially shielding the wall opening and should be used for all supply applications and whenever additional weather resistance is desired. The galvanized (aluminum optional) hood attaches to the wall housing or wall collar flanges. Field flashing and caulking will reduce moisture penetration. Shown with optional birdscreen. |
|  | **Dampers**<br>Used alone or in conjunction with the wall housing or wall collar, a complete line of dampers are available for exhaust or supply configurations. |

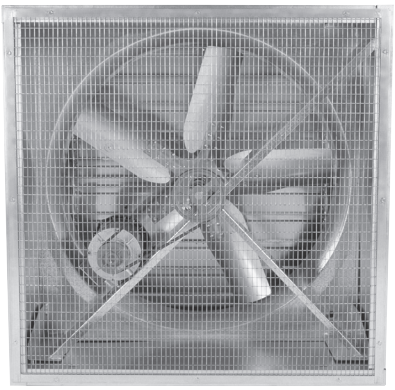
# ACCESSORIES & OPTIONS
## FOR MOUNTING ARRANGEMENTS Cont.

### Safety Guards
Safety guards are strongly recommended to protect personnel from accidental injury and to prevent debris from entering the fan. OSHA approved guards are required in many installations including when the fans are within 7 feet of the floor or work/access area.




### Dimensions

| Fan Size | D (SQ.) |
|---|---|
| 10/12 | 16 |
| 14/16 | 20 |
| 18/20 | 24 |
| 24 | 30 |
| 30 | 36 |
| 36 | 42 |
| 42 | 48 |
| 48 | 54 |
| 54 | 60 |
| 60 | 66 |



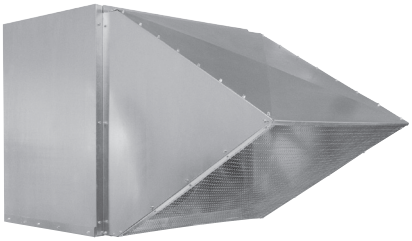
**Standard Duty Flat Wire Guard**
The removable safety guard satisfies OSHA requirements when used with the optional wall housing as a motor-side (rear) guard. The 16 ga. 1/2" X 1" welded wire mesh is mounted in a galvanized frame and attaches to the inward flanges of the wall housing.

**Heavy-Duty Flat Wire Guard**
The removable safety guard satisfies OSHA requirements when used with the optional wall housing as a motor-side (rear) guard. The H.D. expanded aluminum mesh is mounted in a galvanized frame and attaches to the inward flanges of the wall housing.

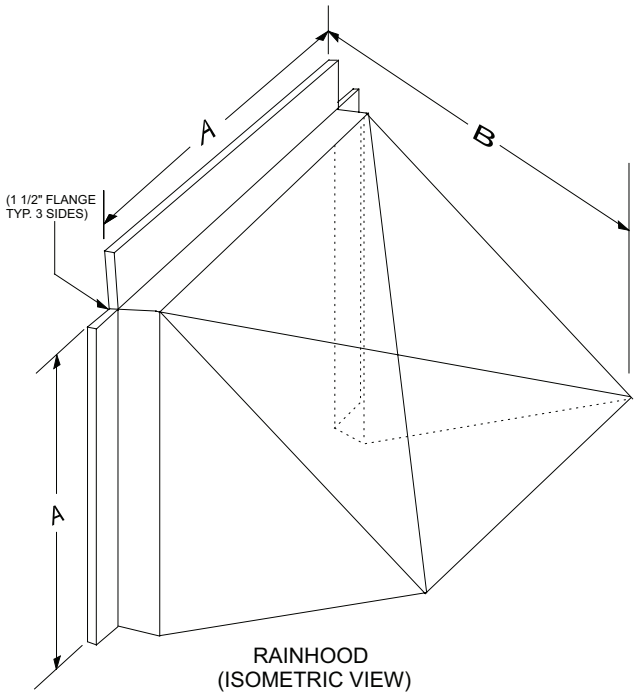
# ACCESSORIES & OPTIONS
## FOR MOUNTING ARRANGEMENTS Cont.

### Rainhoods or Weatherhoods

Designed to provide additional weather protection by partially shielding the wall opening and should be used for all supply applications and whenever additional weather resistance is desired. The galvanized (aluminum optional) hood attaches to the wall housing or wall collar flanges. Field flashing and caulking will reduce moisture penetration. Shown with optional birdscreen.



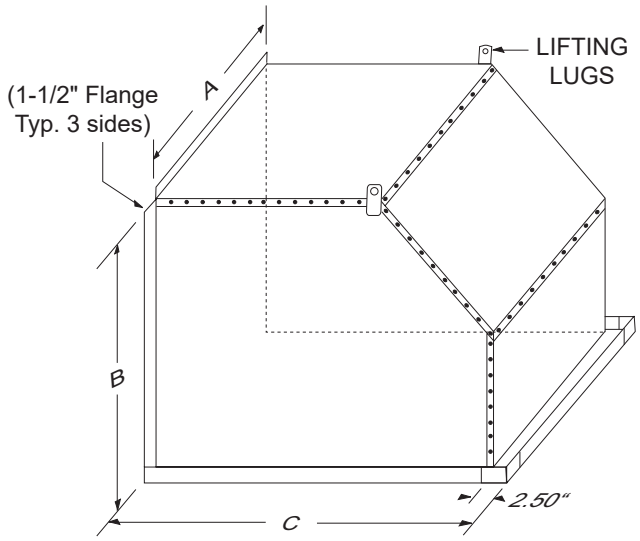
### 45 Degree Exhaust or Supply Sizes 10-16




RAINHOOD
(ISOMETRIC VIEW)

| Fan Size | A | B | GAUGE (2) | AVG. WT. |
|---|---|---|---|---|
| 10/12 | 14 | 16-1/4 | 18 | 15 |
| 14/16 | 18 | 20-1/4 | 18 | 20 |
| 18/20 | 22 | 24-1/2 | 18 | 25 |
| 24 | 28 | 28-1/2 | 18 | 30 |
| 30 | 34 | 34-1/2 | 18 | 40 |
| 36 | 40 | 40-1/2 | 18 | 50 |
| 42 | 46 | 46-1/2 | 18 | 60 |
| 48 | 52 | 49-1/2 | 16 | 70 |
| 54 | 58 | 58-1/2 | 16 | 120 |
| 60 | 64 | 64-1/2 | 16 | 175 |

### 90 Degree Supply Sizes 18-60




| Fan Size | A | B | C | GAUGE (2) | AVG. WT. |
|---|---|---|---|---|---|
| 20 | 22 | 22 | 27-3/4 | 18 | 25 |
| 24 | 27-1/4 | 26-1/2 | 38-1/2 | 18 | 30 |
| 30 | 32-1/2 | 33-1/2 | 44-1/2 | 18 | 40 |
| 36 | 38-1/2 | 39-1/4 | 49 | 18 | 50 |
| 42 | 44-1/2 | 45-1/4 | 56-1/2 | 18 | 60 |
| 48 | 50-1/2 | 51-1/2 | 62-1/2 | 18 | 70 |
| 54 | 56-3/4 | 57 | 73 | 18 | 120 |
| 60 | 62-3/4 | 63 | 73 | 18 | 175 |

# ACCESSORIES & OPTIONS
## FOR MOUNTING ARRANGEMENTS Cont.

## Damper Types (Shutters)

### Heavy-Duty Galvanized Exhaust Motorized Shutter

This damper has a flanged frame and is designed to fit the inside flanges of the optional wall housing or wall mounting collar. The frame and blades are constructed of galvanized steel and are rated to 3000 FPM with proper clearance as provided by all factory accessories. The damper body recesses into the opening for a flush appearance.

### Standard Duty Aluminum Exhaust Gravity Shutter

This damper can greatly reduce the infiltration of outside air and although not completely watertight, will provide weather protection in an economical fashion. Constructed with a galvanized frame and aluminum blades this damper is rated to 2000 FPM with the proper clearance as provided by all factory accessories. The damper body is recessed into the opening for a flush appearance.

### Heavy-Duty Galvanized Supply Motorized Shutter

The motorized option improves weather protection by providing a tighter closure seal and is recommended for all supply applications. Heavy-duty dampers are constructed with galvanized frames and blades and are rated to 3000 FPM. The damper body is not recessed providing extra clearance between the fan and damper blades.

### Standard Duty Aluminum Supply Motorized Shutter

The motorized option improves weather protection by providing a tighter closure seal and is recommended for all supply applications. Standard duty dampers are constructed with galvanized frames and aluminum blades and are rated to 2000 FPM. The damper body is not recessed providing extra clearance between the fan and damper blades.

### Center Pivot Motorized Damper - Supply or Exhaust

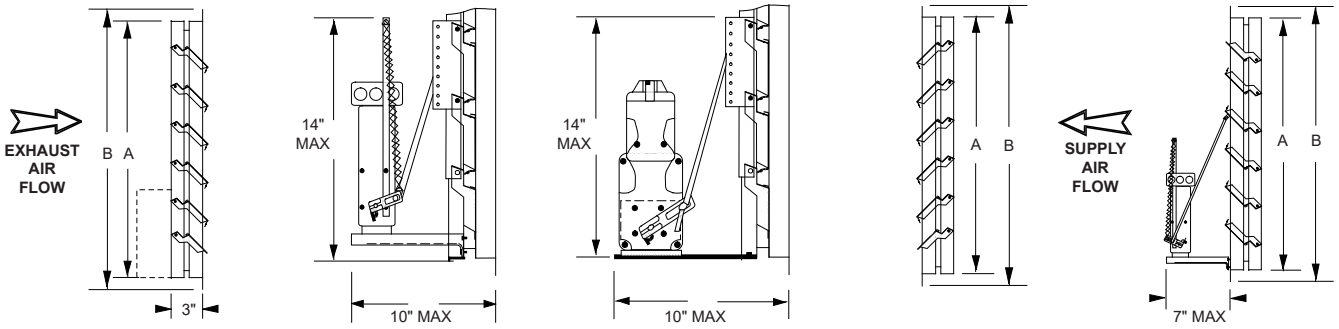
The flanged frame damper is designed to recess inside the flanges of the optional wall housing or wall mounting collar. The center pivot style damper provides superior weather resistance. Galvanized (optional aluminum) construction is rated to 3500 FPM with proper clearance as provided by all factory accessories.

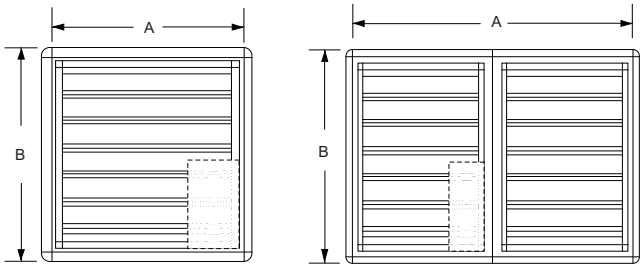
### Electric Damper Operators

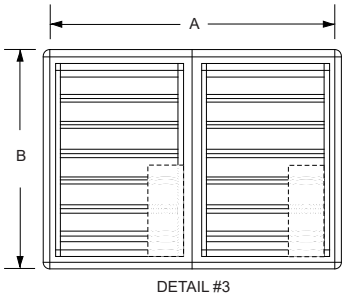
Electric damper operators provide more positive open and closed damper positions which helps increase weather resistance. Power open - spring close (POSC) motor and linkage kits are field installed (except for center pivot style) and are available in 24, 120/240, or 460 volts (single phase) and require approximately 0.5 amps at 120/1/60 power supply. Transformers are available for voltage reduction. For fan motors 5HP and larger, we recommend a factory tilt switch or "delay-on" timer in the control circuit (by others) to allow the damper to open prior to allowing fan operation, which will protect the damper blades and fan from damage when the fan is first energized.

# ACCESSORIES & OPTIONS
## FOR MOUNTING ARRANGEMENTS Cont.

### Dimensions (Standard and Heavy-Duty Dampers)

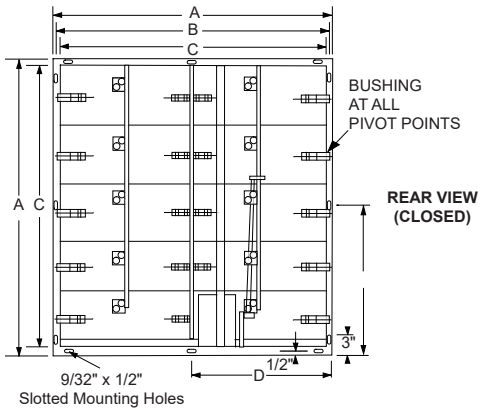



| Fan Size | A Sq. Size | B Sq. OD Flange | Panels (Detail) | Motor Type | | | |
|---|---|---|---|---|---|---|---|
| | | | | Exhaust | | Supply | |
| | | | | Type | Qty | Type | Qty |
| 10/12 | 12 | 14 1/2 | 1 | MP-2781 | 1 | MP-2781-S | 1 |
| 14/16 | 16 | 18 1/2 | 1 | MP-2781 | 1 | MP-2781-S | 1 |
| 18/20 | 20 | 22 1/2 | 1 | MP-2781 | 1 | MP-2781-S | 1 |
| 24 | 26 | 28 1/2 | 1 | MP-2781 | 1 | MP-2781-S | 1 |
| 30 | 32 | 34 1/2 | 1 | MP-2781 | 1 | MA-220-S | 1 |
| 36 | 38 | 40 1/2 | 1 | MA-220 | 1 | MA-220-S | 1 |
| 42 | 44 | 46 1/2 | 2 | MA-220 | 1 | MA-220-S | 2 |
| 48 | 50 | 52 1/2 | 2 | MA-220 | 1 | MA-220-S | 2 |
| 54 | 56 | 58 1/2 | 3 | MA-220 | 2 | MA-220-S | 2 |
| 60 | 62 | 64 1/2 | 3 | MA-220 | 2 | MA-220-S | 2 |

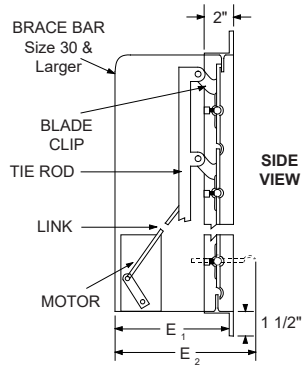
**Heavy Duty Dampers required on all units with 7 1/2HP motors and above.**




### Dimensions (Center Pivot Motorized Damper)

| Fan Size | Opening Required | A O.D. | B (1) | C "Size" | D (Center of Holes) | # of Panels | G | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Closed (E-1) | Open (E-2) |
| 24 | 27 | 29 | 24-1/2 | 26 | - | 1 x 1 | 7-1/4 | 8-1/2 |
| 30 | 33 | 35 | 30-1/2 | 32 | - | 1 x 1 | 10-1/4 | 13-3/4 |
| 36 | 39 | 41 | 36-1/2 | 38 | 19-1/2 | 1 x 1 | 10-1/4 | 13-3/4 |
| 42 | 45 | 47 | 42-1/2 | 44 | 22-1/2 | 1 x 1 | 10-1/4 | 13-3/4 |
| 48 | 51 | 53 | 48-1/2 | 50 | 25-1/2 | 2 x 1 | 10-1/4 | 13-3/4 |
| 54 | 57 | 59 | 54-1/2 | 56 | 28-1/2 | 2 x 1 | 10-1/4 | 12-3/4 |
| 60 | 63 | 65 | 60-1/2 | 62 | 31-1/2 | 2 x 1 | 10-1/4 | 12-3/4 |

| Fan Size | Motor (2) | | |
|---|---|---|---|
| | Power Supply | Max Amps | Stall Torque (in. lbs) |
| 24-48 | 120-240V 60Hz | 0.3/0.6 | 25 |
| 54-72 | 240V 60Hz | 0.5 | 60 |




(1) Minimum opening to clear pins.
(2) Motor is 60 Hz, single phase continuous duty with 104°F (40°C), maximum ambient temperature

# ACCESSORIES & OPTIONS

**Electrical Accessories** are available to simplify the installation and reduce the total project cost.

**Disconnect Switches** can be shipped loose or factory mounted and wired (except explosion proof and two speed) in NEMA 1, 3R, 4X, or other enclosures. Two-speed and explosion proof disconnects are available but may be subject to more stringent code requirements. It is the responsibility of the buyer and the installer to comply with all local and national codes.

**Aluminum Construction** is available for most models and typically includes propeller blades, fan panel, motor and drive support (large frame motors may have steel reinforcement) and accessories. When an explosion proof motor is specified, aluminum fan construction must be used for additional spark resistance.

**Extended Lube Lines** provide convenient access for routine bearing lubrication. Lubrication lines are installed from the fan shaft bearings to the exterior of the wall housing or sheet metal motorside guard and are provided with zerk fittings.

**Paints and Coatings** for protective and decorative purposes. Available coatings include: Epoxy, Synthetic Resin, and Heresite (air-dried phenolic). Contact your Soler & Palau representative or the factory for more information on available coatings and colors.

**Mounting Angles** facilitate the installation and a secure attachment of the wall housing or wall collar into the framed wall opening. Galvanized or aluminum angles are available and are pre-cut to the proper length. Additional bracing, mounting hardware, flashing and caulking are typically provided by the installer.

**Factory Wiring** can simplify jobsite installation and reduce the overall project cost. Optional services include wiring of motor, disconnect switch, damper actuator, and other custom controls. Please note that some wiring options may not be available for explosion proof, two speed and special motors.

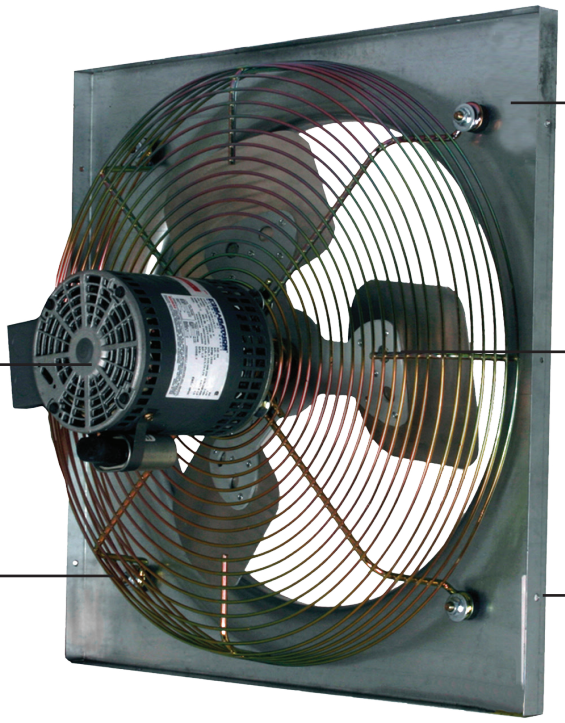
# MODELS GED/GSD & eGED/eGSD CONSTRUCTION FEATURES

**Entire Unit**
Suitable for all-angle installation.

**Motor**
Nationally recognized brands, locally serviced.

**Motor Side Guard**
Integral OSHA approved guard is standard.

**Factory Run & Tested**
For quality assurance and dependable operation.



**Panel**
Galvanized steel with spun venturi.

**Propeller**
Fabricated Aluminum blades.

**Mounting Holes**
Prepunched in panel for ease in installation.

**AMCA Seal**
Assures rating of Sound and Air performance.

cULus Listed - Standard 705
(optional)

Ecowatt® *

**eGED & eGSD only*

**Industry best 5 year fan housing warranty, 1 year motor warranty**

## Construction/Specification Checklist

### Panel Assembly

- Galvanized steel, 16 or 18 gauge, G-90.
- One piece spun venturi for maximum efficiency.
- Prepunched mounting holes for easy installation.
- Formed flanges for added rigidity.
- Integral OSHA approved motorside guard.

### Propeller

- Fabricated aluminum blades, precision pitch.
- Mounted directly on motor shaft for maximum efficiency.
- Separate exhaust and supply designs.
- Statically and dynamically balanced.

### Certifications

- AMCA Air and Sound Licensed.
- cULus 705 Listed Power Roof Ventilator label assures electrical reliability.
- UL label must be specified when needed.

### Motors

- Nationally recognized brands, locally serviced.
- Sealed ball bearings on larger fractional PSCs.
- Sleeve bearings on smaller fractional PSCs.

### Electronically Commutated Motors (eGED/eGSD)

- Brands are nationally recognized and locally serviced.
- Easy speed variability by ECM Speed Control.
- Motor has 80% usable turndown vs. 30% on a PSC motor.
- Internal motor circuitry converts single phase AC power to DC voltage for increased efficiencies.
- All motors are rated for continuous duty.
- 3/4 HP Motor is 230V. 1/3 HP & 1/2 HP Motors are 115V.

### Entire Fan Unit

- Suitable for all-angle installation.
- Completely assembled and factory tested prior to shipment.

All specifications are subject to change without notice unless approved in submittal by S&P USA.

# eMotor - Electronically Commutated Motor

S&P's eMotor is 115V, 60 Hz in 1/3 HP & 1/2 HP and is 230V in 3/4 HP. This fully controllable motor offers both reliability and low maintenance in one of the most efficient motor fan combinations in the industry.

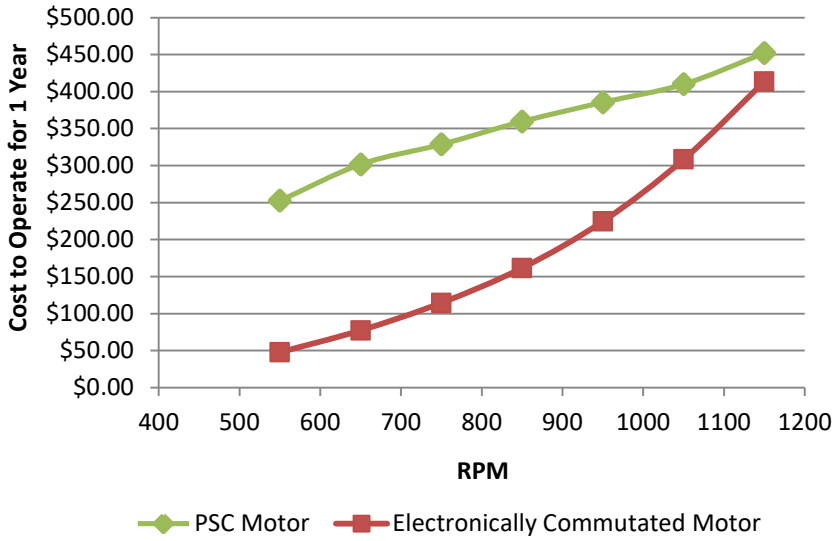
When used in S&P's eGED/eGSD, the eMotor is the ideal solution for a low cost, fully controlled ventilation system. This motor in the eGED/eGSD can move air volumes up to 3,700 CFM.

**Features and Advantages**

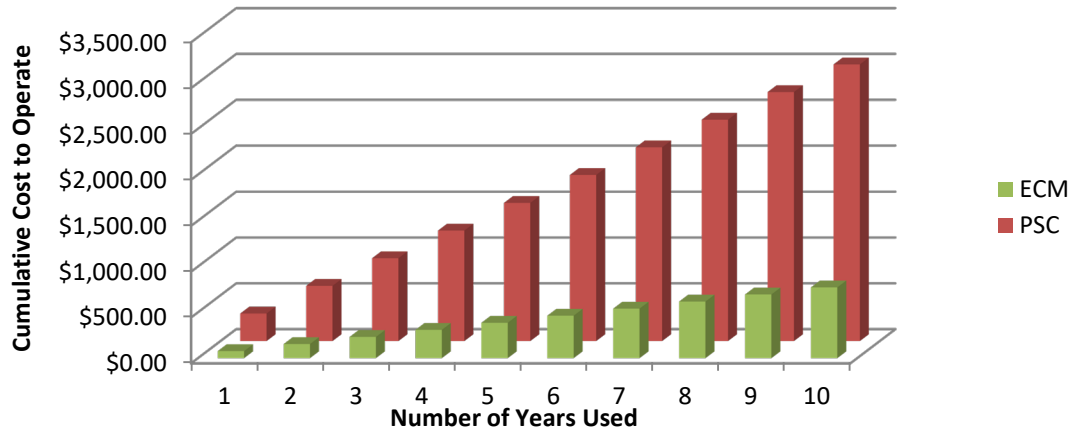
- Easy speed variability by ECM Speed Control.
- Motor has 80% usable turndown vs. 30% on a PSC motor.
- Internal motor circuitry converts 115V single phase AC power to DC voltage for increased efficiencies.
- cULus 705 Listing.

**Energy Savings = $ Savings**

## eGED with 1/2 HP Motor - Continuous Ventilation

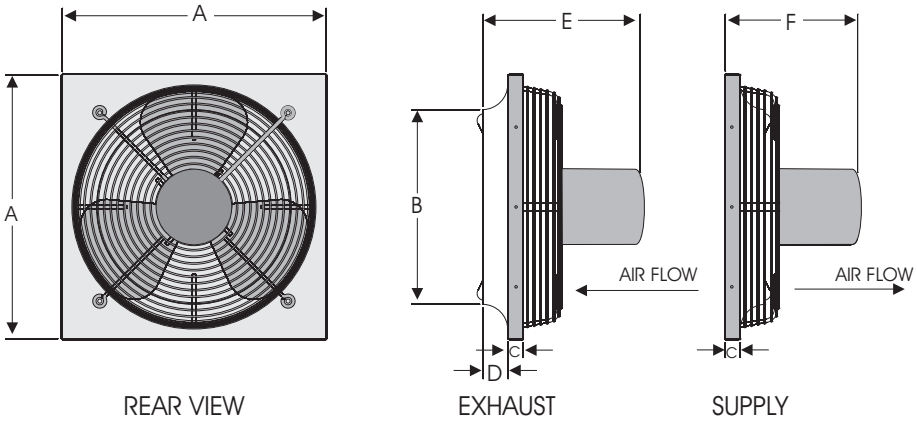



## Cost to Operate Motors @ 650 RPM Continuous Ventilation



# PERFORMANCE/DIMENSIONS

## Model GED (Exhaust)/GSD (Supply) & eGED/eGSD




| GED/GSD, eGED*/eGSD* Size | Dimensions (in.) | | | | | | Avg. Ship Wt. (lbs.) |
|---|---|---|---|---|---|---|---|
| | A | B | C | D | E* | F* | |
| 10 | 16 | 10-1/2 | 1 | 2 | 11 | 9 | 30 |
| 12 | 16 | 12-1/2 | 1 | 2 | 14 | 12 | 30 |
| 14 | 20 | 14-1/2 | 1 | 2 | 14 | 12 | 34 |
| 16 | 20 | 16-1/2 | 1 | 2 | 14 | 12 | 37 |
| 18 | 24 | 18-1/2 | 1 | 2 | 15 | 13 | 45 |
| 20 | 24 | 20-1/2 | 1 | 2 | 15 | 13 | 50 |

****There is no size 10 for eGED/eGSD*

A. Outside dimension of square panel.
B. Diameter of venturi.
C. Width of flange, 1" for all models.
D. Depth of venturi, 2" for all models.
E. Depth of fan (exhaust).
F. Depth of fan (supply).
*** Varies with motor selection.**

## SIZE 10

| Motor HP | RPM | Sones @ 0" SP | | Static Pressure in Inches w.g. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0 | .10 | .125 | .25 | .375 | .50 | .625 | .75 |
| GED1/10 HP 1550 RPM | 1150 | 2.9 | CFM | 580 | 343 | 327 | - | - | - | - | - |
| | | | BHP | 0.03 | 0.03 | 0.03 | - | - | - | - | - |
| | 1250 | 3.5 | CFM | 631 | 397 | 368 | - | - | - | - | - |
| | | | BHP | 0.04 | 0.04 | 0.04 | - | - | - | - | - |
| | 1350 | 4.0 | CFM | 681 | 460 | 416 | 227 | - | - | - | - |
| | | | BHP | 0.06 | 0.06 | 0.06 | 0.05 | - | - | - | - |
| | 1450 | 4.6 | CFM | 731 | 575 | 469 | 347 | - | - | - | - |
| | | | BHP | 0.07 | 0.07 | 0.07 | 0.07 | - | - | - | - |
| | 1550 | 5.3 | CFM | 782 | 646 | 558 | 428 | - | - | - | - |
| | | | BHP | 0.08 | 0.08 | 0.08 | 0.08 | - | - | - | - |

*Speed (RPM) shown is nominal. Performance is based on actual speed of test.*
*Performance certified is for installation type A-free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).*
*The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation Type A: free inlet hemispherical sone levels.*

Motors designed for use with optional speed controller.

cULus available on most models (optional).

Supply performance is obtained by reversing the direction of the venturi.

S&P USA Ventilation Systems, LLC., Div. of Soler & Palau Ventilation Group, certifies that the models GED & GSD are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

**Standard 705**
(optional)

## SIZE 12

| Motor HP | RPM | Sones @ 0" SP | | Static Pressure in Inches w.g. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0 | .10 | .125 | .25 | .375 | .50 | .625 | .75 |
| GED/GSD 1/10 HP 1550 RPM | 1150 | 5.3 | CFM | 1131 | 953 | - | - | - | - | - | - |
| | | | BHP | 0.05 | 0.05 | - | - | - | - | - | - |
| | 1250 | 6.2 | CFM | 1230 | 1080 | 1017 | - | - | - | - | - |
| | | | BHP | 0.06 | 0.06 | 0.08 | - | - | - | - | - |
| | 1350 | 7.1 | CFM | 1328 | 1197 | 1149 | - | - | - | - | - |
| | | | BHP | 0.08 | 0.08 | 0.08 | - | - | - | - | - |
| | 1450 | 8.1 | CFM | 1426 | 1307 | 1270 | 830 | - | - | - | - |
| | | | BHP | 0.10 | 0.10 | 0.10 | 0.10 | - | - | - | - |
| | 1550 | 9.3 | CFM | 1525 | 1414 | 1383 | 1049 | - | - | - | - |
| | | | BHP | 0.12 | 0.12 | 0.12 | 0.12 | - | - | - | - |
| GED/GSD 1/4 HP 1625 RPM | 1125 | 4.6 | CFM | 1038 | 891 | 765 | - | - | - | - | - |
| | | | BHP | 0.14 | 0.15 | 0.17 | - | - | - | - | - |
| | 1225 | 5.3 | CFM | 1130 | 1001 | 952 | - | - | - | - | - |
| | | | BHP | 0.06 | 0.06 | 0.07 | - | - | - | - | - |
| | 1325 | 6.2 | CFM | 1222 | 1096 | 1074 | 600 | - | - | - | - |
| | | | BHP | 0.07 | 0.08 | 0.08 | 0.09 | - | - | - | - |
| | 1425 | 7.1 | CFM | 1315 | 1200 | 1172 | 728 | - | - | - | - |
| | | | BHP | 0.09 | 0.10 | 0.10 | 0.11 | - | - | - | - |
| | 1525 | 8.0 | CFM | 1407 | 1303 | 1271 | 901 | 544 | - | - | - |
| | | | BHP | 0.11 | 0.12 | 0.12 | 0.12 | 0.15 | - | - | - |
| | 1625 | 9.0 | CFM | 1499 | 1404 | 1375 | 1159 | 739 | - | - | - |
| | | | BHP | 0.14 | 0.14 | 0.14 | 0.16 | 0.17 | - | - | - |
| eGED/eGSD 1/3 HP 1750 RPM | 825 | 2.3 | CFM | 761 | - | - | - | - | - | - | - |
| | | | BHP | 0.02 | - | - | - | - | - | - | - |
| | 925 | 3.1 | CFM | 853 | 489 | - | - | - | - | - | - |
| | | | BHP | 0.02 | 0.03 | - | - | - | - | - | - |
| | 1025 | 3.8 | CFM | 946 | 727 | 535 | - | - | - | - | - |
| | | | BHP | 0.03 | 0.04 | 0.04 | - | - | - | - | - |
| | 1125 | 4.6 | CFM | 1038 | 891 | 765 | - | - | - | - | - |
| | | | BHP | 0.14 | 0.15 | 0.17 | - | - | - | - | - |
| | 1225 | 5.3 | CFM | 1130 | 1001 | 952 | - | - | - | - | - |
| | | | BHP | 0.06 | 0.06 | 0.07 | - | - | - | - | - |
| | 1325 | 6.2 | CFM | 1222 | 1096 | 1074 | 600 | - | - | - | - |
| | | | BHP | 0.07 | 0.08 | 0.08 | 0.09 | - | - | - | - |
| | 1425 | 7.1 | CFM | 1315 | 1200 | 1172 | 728 | - | - | - | - |
| | | | BHP | 0.09 | 0.10 | 0.10 | 0.11 | - | - | - | - |
| | 1525 | 8.0 | CFM | 1407 | 1303 | 1271 | 901 | 544 | - | - | - |
| | | | BHP | 0.11 | 0.12 | 0.12 | 0.12 | 0.15 | - | - | - |
| | 1625 | 9.0 | CFM | 1499 | 1404 | 1375 | 1159 | 739 | - | - | - |
| | | | BHP | 0.14 | 0.14 | 0.14 | 0.16 | 0.17 | - | - | - |
| | 1675 | 9.6 | CFM | 1545 | 1453 | 1426 | 1255 | 825 | - | - | - |
| | | | BHP | 0.15 | 0.16 | 0.16 | 0.17 | 0.18 | - | - | - |
| | 1725 | 10.1 | CFM | 1591 | 1503 | 1477 | 1336 | 874 | - | - | - |
| | | | BHP | 0.16 | 0.17 | 0.17 | 0.19 | 0.19 | - | - | - |
| | 1750 | 10.4 | CFM | 1614 | 1528 | 1502 | 1371 | 897 | 607 | - | - |
| | | | BHP | 0.17 | 0.18 | 0.18 | 0.19 | 0.20 | 0.23 | | |

S&P USA Ventilation Systems, LLC., Div. of Soler & Palau Ventilation Group, certifies that the models GED & GSD are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

c UL us
Standard 705

*Speed (RPM) shown is nominal. Performance is based on actual speed of test.*
*Performance certified is for installation type A-free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).*
*The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation Type A: free inlet hemispherical sone levels.*

Motors designed for use with optional speed controller.
Supply performance is obtained by reversing the direction of the venturi.

## SIZE 14

| Motor HP | | RPM | Sones @ 0" SP | | Static Pressure in Inches w.g. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | .10 | .125 | .25 | .375 | .50 | .625 | .75 |
| | eGED/eGSD 1/3 HP 1750 RPM | 625 | 1.1 | CFM | 787 | - | - | - | - | - | - | - |
| | | | | BHP | 0.01 | - | - | - | - | - | - | - |
| | | 725 | 1.8 | CFM | 913 | - | - | - | - | - | - | - |
| | | | | BHP | 0.02 | - | - | - | - | - | - | - |
| | | 825 | 2.5 | CFM | 1039 | 604 | 513 | - | - | - | - | - |
| | | | | BHP | 0.03 | 0.03 | 0.03 | - | - | - | - | - |
| | | 925 | 3.2 | CFM | 1165 | 867 | 681 | - | - | - | - | - |
| | | | | BHP | 0.04 | 0.04 | 0.04 | - | - | - | - | - |
| | | 1025 | 3.9 | CFM | 1291 | 1057 | 951 | - | - | - | - | - |
| | | | | BHP | 0.05 | 0.06 | 0.06 | - | - | - | - | - |
| GED/GSD 1/4 HP 1625 RPM | | 1125 | 4.6 | CFM | 1417 | 1229 | 1142 | 664 | - | - | - | - |
| | | | | BHP | 0.07 | 0.08 | 0.08 | 0.07 | - | - | - | - |
| | | 1225 | 5.3 | CFM | 1543 | 1383 | 1320 | 820 | 581 | - | - | - |
| | | | | BHP | 0.09 | 0.10 | 0.10 | 0.09 | 0.10 | - | - | - |
| | | 1325 | 6.1 | CFM | 1669 | 1527 | 1479 | 1001 | 739 | - | - | - |
| | | | | BHP | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | - | - | - |
| | | 1425 | 6.9 | CFM | 1795 | 1665 | 1627 | 1291 | 883 | 693 | - | - |
| | | | | BHP | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | - | - |
| | | 1525 | 7.7 | CFM | 1921 | 1800 | 1768 | 1486 | 1048 | 846 | 597 | - |
| | | | | BHP | 0.18 | 0.19 | 0.19 | 0.19 | 0.18 | 0.18 | 0.19 | - |
| | | 1625 | 8.5 | CFM | 2047 | 1934 | 1905 | 1679 | 1231 | 989 | 828 | - |
| | | | | BHP | 0.22 | 0.22 | 0.22 | 0.23 | 0.22 | 0.22 | 0.22 | - |
| | | 1675 | 9.0 | CFM | 2110 | 2000 | 1972 | 1770 | 1371 | 1065 | 903 | - |
| | | | | BHP | 0.24 | 0.25 | 0.25 | 0.26 | 0.25 | 0.24 | 0.24 | - |
| | | 1725 | 9.4 | CFM | 2173 | 2066 | 2040 | 1855 | 1529 | 1147 | 974 | 803 |
| | | | | BHP | 0.26 | 0.27 | 0.27 | 0.28 | 0.27 | 0.26 | 0.26 | 0.27 |
| | | 1750 | 9.6 | CFM | 2205 | 2100 | 2073 | 1896 | 1592 | 1191 | 1009 | 857 |
| | | | | BHP | 0.27 | 0.28 | 0.28 | 0.29 | 0.28 | 0.27 | 0.27 | 0.28 |
| GED/GSD 1/2 HP 1625 RPM | | 1225 | 7.0 | CFM | 1920 | 1662 | 1604 | - | - | - | - | - |
| | | | | BHP | 0.19 | 0.19 | 0.19 | - | - | - | - | - |
| | | 1325 | 7.9 | CFM | 2076 | 1863 | 1766 | 1300 | - | - | - | - |
| | | | | BHP | 0.25 | 0.24 | 0.24 | 0.25 | - | - | - | - |
| | | 1425 | 8.9 | CFM | 2233 | 2043 | 1971 | 1432 | 1260 | - | - | - |
| | | | | BHP | 0.17 | 0.18 | 0.18 | 0.19 | 0.20 | - | - | - |
| | | 1525 | 10.0 | CFM | 2390 | 2215 | 2163 | 1787 | 1445 | 1035 | - | - |
| | | | | BHP | 0.37 | 0.37 | 0.37 | 0.37 | 0.38 | 0.37 | - | - |
| | | 1625 | 11.1 | CFM | 2546 | 2383 | 2340 | 2100 | 1594 | 1406 | 818 | - |
| | | | | BHP | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | - |

*Speed (RPM) shown is nominal. Performance is based on actual speed of test.*
*Performance certified is for installation type A-free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).*
*The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation Type A: free inlet hemispherical sone levels.*

Motors designed for use with optional speed controller.

cULus available on most models (optional).

Supply performance is obtained by reversing the direction of the venturi.

S&P USA Ventilation Systems, LLC., Div. of Soler & Palau Ventilation Group, certifies that the models GED & GSD are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

**Standard 705**
(optional)

## SIZE 16

| Motor HP | | RPM | Sones @ 0" SP | | Static Pressure in Inches w.g. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | .10 | .125 | .25 | .375 | .50 | .625 | .75 |
| GED/GSD 1/4 HP 1075 RPM | | 775 | 4.6 | CFM | 1783 | 1204 | - | - | - | - | - | - |
| | | | | BHP | 0.09 | 0.09 | - | - | - | - | - | - |
| | | 875 | 5.9 | CFM | 2014 | 1660 | 1378 | - | - | - | - | - |
| | | | | BHP | 0.13 | 0.13 | 0.13 | - | - | - | - | - |
| | | 975 | 7.4 | CFM | 2244 | 1981 | 1842 | - | - | - | - | - |
| | | | | BHP | 0.17 | 0.17 | 0.17 | - | - | - | - | - |
| | | 1075 | 8.6 | CFM | 2474 | 2238 | 2174 | - | - | - | - | - |
| | | | | BHP | 0.23 | 0.23 | 0.23 | - | - | - | - | - |
| | eGED/eGSD 1/3 HP 1750 RPM | 625 | 1.7 | CFM | 1029 | - | - | - | - | - | - | - |
| | | | | BHP | 0.02 | - | - | - | - | - | - | - |
| | | 725 | 2.5 | CFM | 1194 | 584 | - | - | - | - | - | - |
| | | | | BHP | 0.03 | 0.03 | - | - | - | - | - | - |
| | | 825 | 3.4 | CFM | 1359 | 965 | 703 | - | - | - | - | - |
| | | | | BHP | 0.04 | 0.04 | 0.04 | - | - | - | - | - |
| | | 925 | 4.2 | CFM | 1523 | 1251 | 1089 | - | - | - | - | - |
| | | | | BHP | 0.05 | 0.05 | 0.05 | - | - | - | - | - |
| | | 1025 | 5.1 | CFM | 1688 | 1448 | 1378 | - | - | - | - | - |
| | | | | BHP | 0.07 | 0.07 | 0.07 | - | - | - | - | - |
| GED/GSD 1/3 HP 1625 RPM | | 1125 | 6.0 | CFM | 1853 | 1636 | 1578 | - | - | - | - | - |
| | | | | BHP | 0.10 | 0.10 | 0.10 | - | - | - | - | - |
| | | 1225 | 6.9 | CFM | 2018 | 1816 | 1768 | 1219 | - | - | - | - |
| | | | | BHP | 0.13 | 0.13 | 0.13 | 0.13 | - | - | - | - |
| | | 1325 | 7.9 | CFM | 2182 | 1994 | 1950 | 1600 | - | - | - | - |
| | | | | BHP | 0.16 | 0.16 | 0.16 | 0.16 | - | - | - | - |
| | | 1425 | 9.0 | CFM | 2347 | 2170 | 2129 | 1893 | 1204 | - | - | - |
| | | | | BHP | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | - | - | - |
| | | 1525 | 10.0 | CFM | 2512 | 2344 | 2306 | 2103 | 1590 | 1004 | - | - |
| | | | | BHP | 0.24 | 0.25 | 0.25 | 0.24 | 0.24 | 0.24 | - | - |
| | | 1625 | 11.4 | CFM | 2676 | 2518 | 2482 | 2298 | 1968 | 1318 | 889 | - |
| | | | | BHP | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | - |
| | | 1675 | 12.0 | CFM | 2759 | 2604 | 2569 | 2394 | 2134 | 1497 | 1038 | 632 |
| | | | | BHP | 0.32 | 0.33 | 0.33 | 0.32 | 0.33 | 0.32 | 0.32 | 0.33 |
| | | 1725 | 12.7 | CFM | 2841 | 2690 | 2656 | 2487 | 2269 | 1694 | 1181 | 795 |
| | | | | BHP | 0.35 | 0.36 | 0.36 | 0.35 | 0.36 | 0.35 | 0.35 | 0.36 |
| | | 1750 | 13.1 | CFM | 2882 | 2733 | 2699 | 2533 | 2330 | 1793 | 1257 | 877 |
| | | | | BHP | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |

*Speed (RPM) shown is nominal. Performance is based on actual speed of test.*
*Performance certified is for installation type A-free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).*
*The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation Type A: free inlet hemispherical sone levels.*

Motors designed for use with optional speed controller.

cULus available on most models (optional).

Supply performance is obtained by reversing the direction of the venturi.

S&P USA Ventilation Systems, LLC., Div. of Soler & Palau Ventilation Group, certifies that the models GED & GSD are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

**Standard 705**
(optional)

## SIZE 18 (Continued on next page)

| Motor HP | | RPM | Sones @ 0" SP | | Static Pressure in Inches w.g. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | .10 | .125 | .25 | .375 | .50 | .625 | .75 |
| GED/GSD 1/4 HP 1075 RPM | | 775 | 4.6 | CFM | 2151 | 1703 | 1545 | - | - | - | - | - |
| | | | | BHP | 0.08 | 0.09 | 0.09 | - | - | - | - | - |
| | | 875 | 5.8 | CFM | 2428 | 2048 | 1935 | - | - | - | - | - |
| | | | | BHP | 0.12 | 0.13 | 0.13 | - | - | - | - | - |
| | | 975 | 7.0 | CFM | 2706 | 2378 | 2279 | - | - | - | - | - |
| | | | | BHP | 0.17 | 0.17 | 0.19 | - | - | - | - | - |
| | | 1075 | 8.3 | CFM | 2983 | 2686 | 2610 | 1986 | - | - | - | - |
| | | | | BHP | 0.23 | 0.24 | 0.23 | 0.23 | - | - | - | - |
| | eGED/eGSD 1/3 HP 1750 RPM | 625 | 2.9 | CFM | 1144 | - | - | - | - | - | - | - |
| | | | | BHP | 0.01 | - | - | - | - | - | - | - |
| | | 725 | 3.9 | CFM | 1327 | - | - | - | - | - | - | - |
| | | | | BHP | 0.02 | - | - | - | - | - | - | - |
| | | 825 | 5.0 | CFM | 1510 | 1119 | 826 | - | - | - | - | - |
| | | | | BHP | 0.03 | 0.03 | 0.03 | - | - | - | - | - |
| | | 925 | 6.0 | CFM | 1693 | 1351 | 1258 | - | - | - | - | - |
| | | | | BHP | 0.04 | 0.04 | 0.04 | - | - | - | - | - |
| | | 1025 | 7.1 | CFM | 1876 | 1575 | 1489 | - | - | - | - | - |
| | | | | BHP | 0.06 | 0.06 | 0.06 | - | - | - | - | - |
| GED/GSD 1/4 HP 1625 RPM | | 1125 | 8.3 | CFM | 2059 | 1786 | 1716 | 969 | - | - | - | - |
| | | | | BHP | 0.08 | 0.08 | 0.08 | 0.08 | - | - | - | - |
| | | 1225 | 9.5 | CFM | 2242 | 1990 | 1928 | 1487 | - | - | - | - |
| | | | | BHP | 0.10 | 0.10 | 0.10 | 0.10 | - | - | - | - |
| | | 1325 | 10.8 | CFM | 2425 | 2194 | 2135 | 1822 | 972 | - | - | - |
| | | | | BHP | 0.12 | 0.13 | 0.13 | 0.13 | 0.13 | - | - | - |
| | | 1425 | 12.1 | CFM | 2608 | 2395 | 2338 | 2048 | 1410 | - | - | - |
| | | | | BHP | 0.15 | 0.16 | 0.16 | 0.16 | 0.16 | - | - | - |
| | | 1525 | 13.5 | CFM | 2791 | 2595 | 2541 | 2280 | 1928 | 1101 | - | - |
| | | | | BHP | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | - | - |
| | | 1625 | 14.8 | CFM | 2974 | 2792 | 2742 | 2500 | 2237 | 1524 | 902 | - |
| | | | | BHP | 0.23 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | - |
| | | 1675 | 15.7 | CFM | 3065 | 2889 | 2841 | 2607 | 2351 | 1800 | 1105 | 599 |
| | | | | BHP | 0.25 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 |
| | | 1725 | 16.4 | CFM | 3156 | 2987 | 2940 | 2712 | 2460 | 2069 | 1316 | 777 |
| | | | | BHP | 0.27 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 |
| | | 1750 | 16.8 | CFM | 3202 | 3035 | 2990 | 2764 | 2519 | 2181 | 1417 | 872 |
| | | | | BHP | 0.29 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |

*Speed (RPM) shown is nominal. Performance is based on actual speed of test.*
*Performance certified is for installation type A-free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).*
*The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation Type A: free inlet hemispherical sone levels.*

Motors designed for use with optional speed controller.

cULus available on most models (optional).

Supply performance is obtained by reversing the direction of the venturi.

S&P USA Ventilation Systems, LLC., Div. of Soler & Palau Ventilation Group, certifies that the models GED & GSD are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

**Standard 705**
(optional)

## SIZE 18 (Con't)

| Motor HP | | RPM | Sones @ 0" SP | | Static Pressure in Inches w.g. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | .10 | .125 | .25 | .375 | .50 | .625 | .75 |
| | eGED/eGSD 1/2 HP 1750 RPM | 625 | 2.8 | CFM | 1494 | - | - | - | - | - | - | - |
| | | | | BHP | 0.03 | - | - | - | - | - | - | - |
| | | 725 | 3.8 | CFM | 1733 | 1235 | - | - | - | - | - | - |
| | | | | BHP | 0.04 | 0.04 | - | - | - | - | - | - |
| | | 825 | 4.9 | CFM | 1972 | 1570 | 1444 | - | - | - | - | - |
| | | | | BHP | 0.06 | 0.06 | 0.06 | - | - | - | - | - |
| | | 925 | 6.0 | CFM | 2211 | 1877 | 1764 | - | - | - | - | - |
| | | | | BHP | 0.09 | 0.09 | 0.09 | - | - | - | - | - |
| | | 1025 | 7.2 | CFM | 2450 | 2152 | 2072 | - | - | - | - | - |
| | | | | BHP | 0.12 | 0.12 | 0.12 | - | - | - | - | - |
| GED/GSD 1/2 HP 1625 RPM | | 1125 | 8.3 | CFM | 2689 | 2419 | 2349 | 2112 | - | - | - | - |
| | | | | BHP | 0.16 | 0.16 | 0.16 | 0.16 | - | - | - | - |
| | | 1225 | 9.6 | CFM | 2928 | 2687 | 2616 | 2236 | - | - | - | - |
| | | | | BHP | 0.21 | 0.21 | 0.21 | 0.21 | - | - | - | - |
| | | 1325 | 10.8 | CFM | 3167 | 2950 | 2885 | 2549 | - | - | - | - |
| | | | | BHP | 0.26 | 0.26 | 0.26 | 0.26 | - | - | - | - |
| | | 1425 | 12.2 | CFM | 3406 | 3210 | 3150 | 2860 | 2484 | - | - | - |
| | | | | BHP | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | - | - | - |
| | | 1525 | 13.7 | CFM | 3646 | 3465 | 3412 | 3142 | 2808 | - | - | - |
| | | | | BHP | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | - | - | - |
| | | 1625 | 15.1 | CFM | 3885 | 3718 | 3670 | 3414 | 3130 | 2780 | - | - |
| | | | | BHP | 0.48 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | - | - |
| | | 1675 | 16.0 | CFM | 4004 | 3844 | 3798 | 3548 | 3288 | 2981 | - | - |
| | | | | BHP | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | - | - |
| | | 1725 | 16.9 | CFM | 4124 | 3969 | 3925 | 3680 | 3442 | 3140 | 2110 | - |
| | | | | BHP | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | - |
| | | 1750 | 17.2 | CFM | 4183 | 4031 | 3988 | 3747 | 3516 | 3212 | 3127 | - |
| | | | | BHP | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | - |

*Speed (RPM) shown is nominal. Performance is based on actual speed of test.*
*Performance certified is for installation type A-free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).*
*The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation Type A: free inlet hemispherical sone levels.*

Motors designed for use with optional speed controller.

cULus available on most models (optional).

Supply performance is obtained by reversing the direction of the venturi.

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**Standard 705**
(optional)

## SIZE 20

| Motor HP | | RPM | Sones @ 0" SP | | Static Pressure in Inches w.g. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | .10 | .125 | .25 | .375 | .50 | .625 | .75 |
| GED/GSD 1/4 HP 1075 RPM | | 775 | 5.6 | CFM | 2495 | 1995 | 1830 | - | - | - | - | - |
| | | | | BHP | 0.09 | 0.093 | 0.09 | - | - | - | - | - |
| | | 875 | 6.9 | CFM | 2817 | 2391 | 2265 | 938 | - | - | - | - |
| | | | | BHP | 0.13 | 0.133 | 0.13 | 0.13 | - | - | - | - |
| | | 975 | 8.3 | CFM | 3139 | 2769 | 2661 | 1354 | 563 | - | - | - |
| | | | | BHP | 0.18 | 0.184 | 0.18 | 0.18 | 0.18 | - | - | - |
| | | 1,075 | 9.7 | CFM | 3461 | 3128 | 3040 | 2462 | 1169 | - | - | - |
| | | | | BHP | 0.24 | 0.247 | 0.25 | 0.25 | 0.25 | - | - | - |
| | eGED/eGSD 3/4 HP 1750 RPM | 625 | 2.8 | CFM | 1328 | 516 | - | - | - | - | - | - |
| | | | | BHP | 0.03 | 0.026 | - | - | - | - | - | - |
| | | 725 | 3.8 | CFM | 1540 | 865 | 668 | - | - | - | - | - |
| | | | | BHP | 0.04 | 0.040 | 0.04 | - | - | - | - | - |
| | | 825 | 4.8 | CFM | 1753 | 1238 | 1021 | - | - | - | - | - |
| | | | | BHP | 0.06 | 0.059 | 0.06 | - | - | - | - | - |
| GED/GSD 1/2 HP 1625 RPM | | 925 | 5.9 | CFM | 1965 | 1545 | 1393 | 595 | - | - | - | - |
| | | | | BHP | 0.08 | 0.083 | 0.08 | 0.08 | - | - | - | - |
| | | 1025 | 6.9 | CFM | 2177 | 1826 | 1700 | 944 | - | - | - | - |
| | | | | BHP | 0.11 | 0.113 | 0.11 | 0.11 | - | - | - | - |
| | | 1125 | 8.0 | CFM | 2390 | 2085 | 1984 | 1290 | 701 | - | - | - |
| | | | | BHP | 0.15 | 0.150 | 0.15 | 0.15 | 0.15 | - | - | - |
| | | 1225 | 9.1 | CFM | 2602 | 2329 | 2248 | 1663 | 1050 | 555 | - | - |
| | | | | BHP | 0.19 | 0.193 | 0.19 | 0.19 | 0.19 | 0.19 | - | - |
| | | 1325 | 10.3 | CFM | 2815 | 2563 | 2497 | 2025 | 1393 | 900 | 469 | - |
| | | | | BHP | 0.24 | 0.244 | 0.24 | 0.24 | 0.24 | 0.24 | 0.25 | - |
| | | 1425 | 11.6 | CFM | 3027 | 2791 | 2735 | 2331 | 1754 | 1250 | 810 | - |
| | | | | BHP | 0.30 | 0.304 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | - |
| | | 1525 | 12.9 | CFM | 3240 | 3016 | 2965 | 2622 | 2131 | 1591 | 1159 | 764 |
| | | | | BHP | 0.37 | 0.373 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |
| | | 1625 | 14.3 | CFM | 3452 | 3240 | 3192 | 2898 | 2487 | 1949 | 1508 | 1110 |
| | | | | BHP | 0.45 | 0.451 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 |
| | | 1675 | 15.0 | CFM | 3558 | 3351 | 3305 | 3030 | 2645 | 2135 | 1676 | 1285 |
| | | | | BHP | 0.49 | 0.494 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 |
| | | 1725 | 15.7 | CFM | 3664 | 3462 | 3417 | 3160 | 2795 | 2323 | 1849 | 1460 |
| | | | | BHP | 0.54 | 0.539 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 |
| | | 1750 | 16.1 | CFM | 3718 | 3517 | 3473 | 3223 | 3869 | 3419 | 1937 | 1547 |
| | | | | BHP | 0.56 | 0.563 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 |

*Speed (RPM) shown is nominal. Performance is based on actual speed of test.*
*Performance certified is for installation type A-free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).*
*The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation Type A: free inlet hemispherical sone levels.*

Motors designed for use with optional speed controller.

cULus available on most models (optional).

Supply performance is obtained by reversing the direction of the venturi.

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Standard 705
(optional)

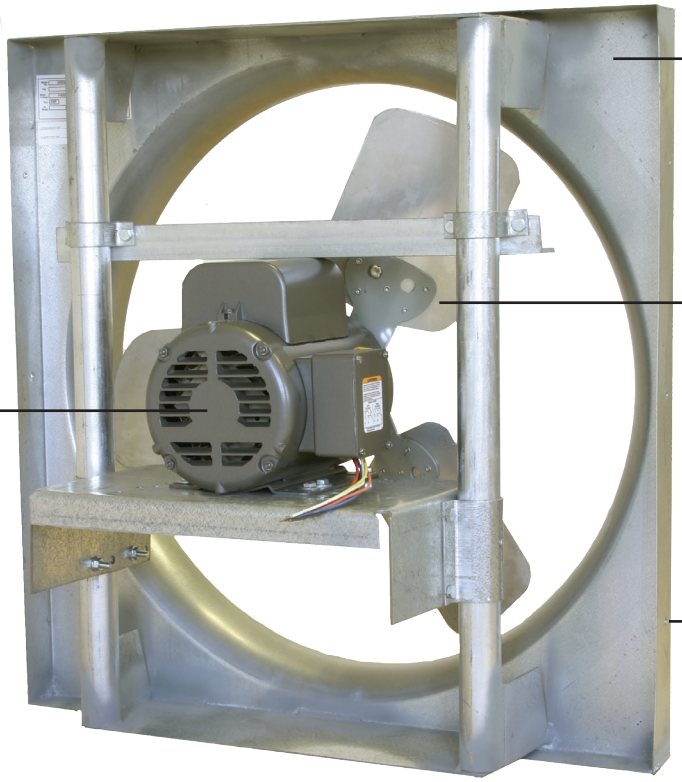
# MODEL DFE & DFS CONSTRUCTION FEATURES

## Model DFE & DFS

**Entire Unit**
Suitable for all-angle installation.

**Motor**
Nationally recognized brands, locally serviced.

**Factory Run & Tested**
For quality assurance and dependable operation.



**Panel**
Galvanized steel with spun venturi.

**Propeller**
Fabricated Aluminum blades.

**Mounting Holes**
Prepunched in panel for ease in installation.

**Industry best 5 year fan housing warranty, 1 year motor warranty**

## Construction/Specification Checklist

### Panel Assembly
- Galvanized steel,16 or 18 gauge, G-90.
- Precision spun orifice for maximum performance.
- Prepunched mounting holes.
- Welded schedule 40 galvanized steel pipe support structure.

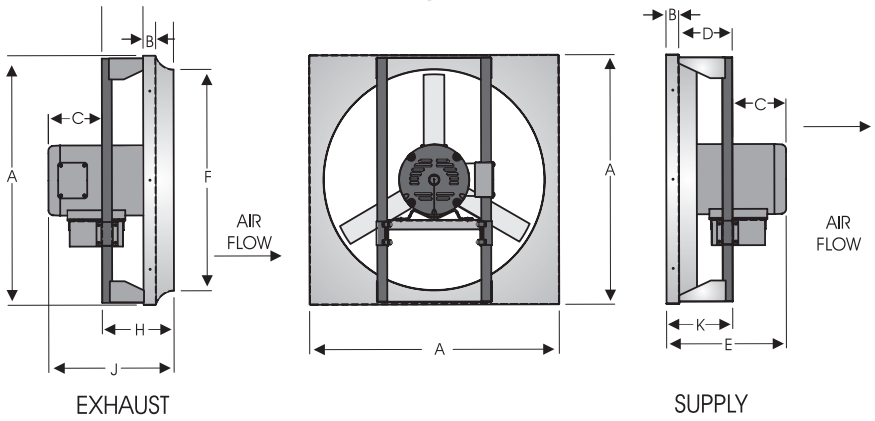
### Propeller
- Precision pitched fabricated aluminum blades.
- Mounted directly on shaft for maximum efficiency.
- Cast aluminum and nonmetallic blade options on select sizes.
- Statically and dynamically balanced.

### Motors
- Nationally recognized brands, locally serviced.
- Permanently lubricated sealed ball bearing type.
- Open drip-proof, totally enclosed and explosion proof options.
- Available 2 speed units in select models.

### Entire Fan Unit
- Suitable for all-angle installation.
- Completely assembled and factory tested prior to shipment.

# PERFORMANCE/DIMENSIONS

## Model DFE (Exhaust) / DFS (Supply)




| DFE/ DFS Size | Dimensions (in.) | | | | | | | | | | | Avg. Ship Wt. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C* | D | E* | F | G | H | I | J* | K | |
| 10 | 16 | 1 | 6 | 6 | 11 | 10-1/2 | 2 | 8 | 5 | 14 | 7 | 30 |
| 12 | 16 | 1 | 6 | 6 | 11 | 12-1/2 | 2 | 8 | 5 | 14 | 7 | 30 |
| 16 | 20 | 1 | 6 | 6 | 12 | 16-1/2 | 2 | 8 | 5 | 14 | 7 | 37 |
| 18 | 24 | 1 | 6 | 6 | 12 | 18-1/2 | 2 | 8 | 5 | 14 | 7 | 45 |
| 20 | 24 | 1 | 7 | 6 | 12 | 20-1/2 | 2 | 8 | 5 | 15 | 7 | 50 |
| 24 | 30 | 2 | 10 | 9 | 21 | 25 | 3 | 10 | 4 | 20 | 11 | 70 |
| 30 | 36 | 2 | 10 | 9 | 21 | 31 | 3 | 10 | 4 | 20 | 11 | 100 |

**A**. Outside dimension of square panel.
**B**. Width of flange.
**C**. Depth of motor beyond support structure.*
**D**. Depth of support structure - supply.
**E**. Depth of fan - supply. *
**F**. Diameter of venturi.
**G**. Depth of venturi.
**H**. Depth of panel and support structure - exhaust.
**I**. Depth of support structure - exhaust.
**J**. Depth of fan - exhaust.*
**K**. Depth of panel and support structure - supply.
*** Varies with motor selection**

| Model DFE/ DFS | HP | RPM | Sones @ 0" SP | CFM / BHP @ Static Pressure (Inches W.G.) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0 | 1/10 | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 1 |
| 10 | 1/4 | 1750 | 8.4 | 617/.04 | 532/.04 | 503/.04 | 307/.06 | 181/.06 | 37/.07 | - | - | - |
| | 2S | 1160 | 5.5 | 409/.01 | 221/.02 | 178/.02 | - | - | - | - | - | - |
| 12 | 1/4 | 1750 | 16.7 | 1306/.09 | 1199/.12 | 1169/.12 | 992/.12 | 734/.12 | 576/.14 | 488/.14 | 412/.13 | 275/.14 |
| | 2S | 1160 | 12.8 | 866/.03 | 682/.04 | 613/.04 | 347/.04 | 235/.04 | 132/.05 | - | - | - |
| 16 | 1/3 | 1750 | 18.8 | 2439/.26 | 2309/.27 | 2274/.27 | 2208/.18 | 1872/.34 | 1633/.36 | 1350/.38 | 1152/.42 | 876/.43 |
| | 2S | 1160 | 11.7 | 1617/.08 | 1404/.09 | 1342/.09 | 974/.10 | 683/.12 | 491/.14 | 307/.15 | 132/.16 | - |
| 18 | 3/4 | 1750 | 20 | 4174/.52 | 4021/.59 | 3982/.60 | 3781/.64 | 3564/.65 | 3321/.72 | 3029/.72 | 2468/.76 | 1977/.83 |
| | 2S | 1160 | 10.9 | 2767/.15 | 2531/.19 | 2468/.19 | 2102/.21 | 1504/.22 | 1085/.27 | 626/.28 | 264/.30 | - |
| 20 | 1/3 | 1750 | 19.4 | 3649/.31 | 3455/.34 | 3409/.34 | 3177/.41 | 2635/.44 | 2634/.44 | 2635/.44 | 2344/.49 | - |
| | 2S | 1160 | 10.1 | 2418/.09 | 2134/.12 | 2063/.12 | 1639/.14 | 1153/.16 | 787/.17 | 509/.19 | - | - |
| | 1 | 1725 | 24 | 6008/.94 | 5788/1.01 | 5731/1.02 | 5431/1.06 | 5101/1.06 | 4734/1.13 | 4315/1.13 | 3835/1.17 | 2512/1.26 |
| | 1 1/2 | 1725 | 40 | 6605/1.44 | 6383/1.44 | 6339/1.44 | 6061/1.44 | 5711/1.45 | 5279/1.36 | 4738/1.36 | 3885/1.26 | 2756/1.30 |
| | 1/2 | 1750 | 14.7 | 4131/.31 | 3961/.37 | 3920/.38 | 3705/.45 | 3387/.50 | 3063/.59 | 2669/.68 | 2314/.68 | - |
| | 2S | 1160 | 7.7 | 2738/.09 | 2488/.13 | 2403/.13 | 1898/.17 | 1400/.21 | - | - | - | - |
| 24 | 1/2 | 1750 | 18.4 | 5137/.37 | 4938/.43 | 4885/.45 | 4596/.53 | 4268/.63 | 3917/.67 | 3514/.76 | 2959/.92 | 2172/1.06 |
| | 2S | 1160 | 9.6 | 3405/.11 | 3083/.15 | 2989/.16 | 2459/.21 | 1700/.27 | 1196/.32 | - | - | - |
| | 1 | 1725 | 32 | 6655/.76 | 6416/.87 | 6354/.87 | 6033/.95 | 5681/.96 | 5278/.99 | 4775/.99 | 4118/1.02 | 2407/1.14 |
| | 3/4 | 1140 | 37 | 6684/.62 | 6252/.70 | 6140/.71 | 5525/.72 | 4686/.74 | 3221/.79 | 2031/.85 | 1287/.91 | 98/1.07 |
| | 1 | 1160 | 17.4 | 7464/.92 | 7015/.97 | 6898/.99 | 6267/1.01 | 5473/1.02 | 4052/1.08 | 2676/1.15 | 1820/1.19 | - |
| | 1 1/2 | 1725 | 32 | 8897/1.48 | 8644/1.60 | 8579/1.62 | 8239/1.71 | 7870/1.74 | 7467/1.74 | 7020/1.80 | 6510/1.80 | 4703/1.80 |
| 30 | 1/2 | 1140 | 20 | 8427/.59 | 7520/.63 | 7288/.63 | 5939/.63 | 4108/.61 | 1455/.55 | - | - | - |
| | 1 | 1140 | 27 | 10635/1.15 | 9468/1.12 | 9328/1.12 | 8205/1.12 | 6718/1.13 | 4175/1.10 | 1397/1.20 | - | - |
| | 1 1/2 | 1725 | 44 | 11570/1.68 | 11083/1.68 | 10956/1.68 | 10200/1.75 | 9323/1.74 | 8504/1.81 | 7625/1.74 | 6594/1.72 | 3905/1.67 |
| | 2 | 1725 | 48 | 12415/1.89 | 11878/1.99 | 11723/2.01 | 10879/2.01 | 10141/2.01 | 9172/2.01 | 8172/2.01 | 7185/1.89 | 4705/1.84 |

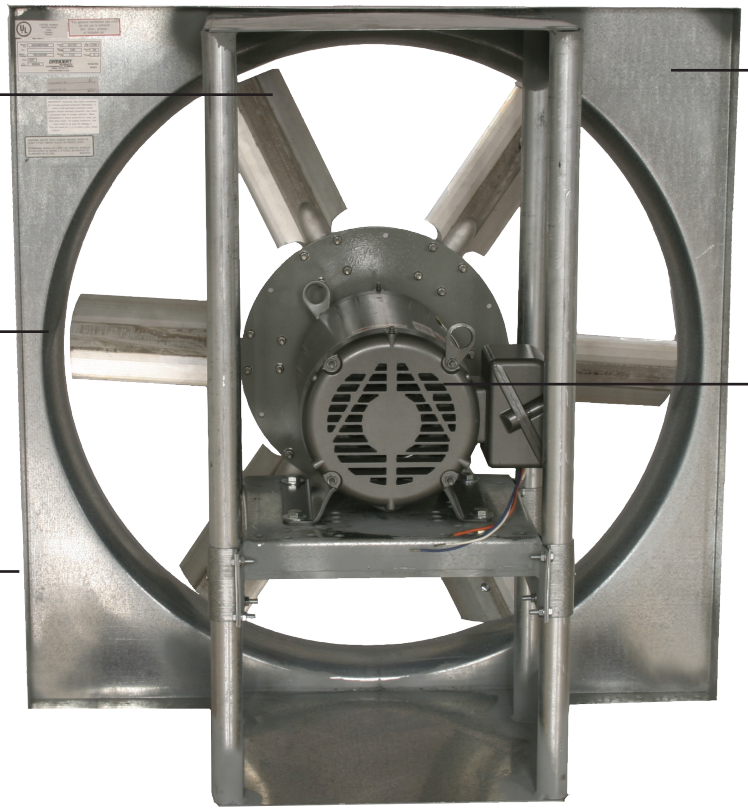
Performance shown is for wall ventilators for installation type A: Free inlet, Free outlet. The power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

Sound ratings shown are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: Free inlet fan sone levels. For additional sound data and for selections at other static pressures, please refer to the Optisizer Selection Program.

Available motor RPM's may vary from table.

Supply performance is obtained by reversing the direction of the venturi.

# MODEL DDE & DDS CONSTRUCTION FEATURES



**Propeller**
Precision pitched extruded or cast aluminum blades.

**Deep Spun Venturi**
One piece for maximum efficiency.

**Mounting Holes**
Prepunched in panel for ease in installation.

**Factory Run & Tested**
For quality assurance and dependable operation.

**Panel Assembly**
All welded galvanized steel construction.

**Motor**
Nationally recognized brands, locally serviced.

**Entire Unit**
Suitable for all-angle installation.

**Industry best 5 year fan housing warranty, 1 year motor warranty**

## Construction/Specification Checklist

### Panel Assembly
- Galvanized steel, 14 gauge, G-90, sizes 54-60.
- Galvanized steel, 16 gauge, G-90, sizes 24-48.
- Precision spun orifice for smooth performance.
- Prepunched mounting holes for convenient installation.
- Welded schedule 40 galvanized steel pipe support structure.

### Propeller
- Aluminum airfoil blades, extruded or cast.
- Mounted directly on motor shaft for maximum efficiency.
- Steel hub plate with taper lock bushing as standard.
- Statically balanced.

### Motors
- Nationally recognized brands, locally serviced.
- Sealed ball bearings on larger fractionals.
- 1/3 hp motor is the smallest available for the DDE/DDS.
- Open drip-proof, totally enclosed and explosion proof options.
- Available 2 speed units in select formats.

### Entire Fan Unit
- Suitable for all-angle installation.
- Completely assembled and factory tested prior to shipment.

All specifications are subject to change without notice unless approved in submittal by S&P USA.

# PERFORMANCE

## Model DDE (Exhaust) / DDS (Supply)

| Model DDE/DDS | MOTOR HP | MOTOR RPM | Sones @ 0" SP | CFM / BHP @ Static Pressure (INCHES W.G.) 0 | 1/10 | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | 1/3 | 1160 | 17.8 | 5600/.37 | 4960/.37 | 4800/.37 | 3600/.37 | - | - | - | - | - |
| | 1/2 | 1160 | 22 | 6600/.60 | 6200/.60 | 6100/.60 | 5400/.60 | 4300/.60 | - | - | - | - |
| | 3/4 | 1160 | 20 | 7800/.82 | 7240/.82 | 7100/.82 | 6300/.82 | 5400/.82 | - | - | - | - |
| | 1 | 1160 | 21 | 8700/1.09 | 8140/1.09 | 8000/1.09 | 7300/1.09 | 6300/1.09 | 4900/1.09 | - | - | - |
| | 1/2 | 1750 | 27 | 5900/.55 | 5420/.55 | 5300/.55 | 4700/.55 | 3900/.55 | 3000/.55 | - | - | - |
| | 3/4 | 1750 | 28 | 7000/.81 | 6600/.81 | 6500/.81 | 5900/.81 | 5300/.81 | 4400/.81 | 3500/.81 | - | - |
| | 1 | 1750 | 32 | 8000/1.15 | 7600/1.15 | 7500/1.15 | 7000/1.15 | 6300/1.15 | 5500/1.15 | 4700/1.15 | 3700/1.15 | - |
| | 1 1/2 | 1750 | 35 | 9000/1.66 | 8760/1.66 | 8700/1.66 | 8300/1.66 | 7900/1.66 | 7400/1.66 | 6900/1.66 | 6200/1.66 | - |
| | 2 | 1750 | 35 | 10500/2.25 | 10180/2.25 | 10100/2.25 | 9600/2.25 | 9100/2.25 | 8600/2.25 | 8100/2.25 | 7400/2.25 | 5900/2.25 |
| | 3 | 1750 | 37 | 12500/3.30 | 12100/3.30 | 12000/3.30 | 11500/3.30 | 11100/3.30 | 10500/3.30 | 10000/3.30 | 9300/3.30 | 7900/3.30 |
| 30 | 1 | 870 | 19.9 | 11700/1.12 | 10700/1.12 | 10450/1.12 | 8900/1.12 | 6300/1.12 | - | - | - | - |
| | 1 1/2 | 870 | 24 | 14300/1.65 | 13300/1.65 | 13050/1.65 | 11400/1.65 | 8850/1.65 | 5550/1.65 | - | - | - |
| | 3/4 | 1160 | 25 | 9900/.84 | 9020/.84 | 8800/.84 | 7500/.84 | 5700/.84 | - | - | - | - |
| | 1 | 1160 | 28 | 10600/1.16 | 10340/1.16 | 10054/1.16 | 9900/1.16 | 9478/1.16 | 9000/1.16 | 7900/1.16 | 6500/1.16 | - |
| | 1 1/2 | 1160 | 28 | 12800/1.67 | 12080/1.67 | 11900/1.67 | 10900/1.67 | 9800/1.67 | 8400/1.67 | 6700/1.67 | - | - |
| | 2 | 1160 | 29 | 14400/2.28 | 13680/2.28 | 13500/2.28 | 12400/2.28 | 11300/2.28 | 9800/2.28 | 7800/2.28 | 6000/2.28 | - |
| | 3 | 1160 | 36 | 17300/3.37 | 16660/3.37 | 16500/3.37 | 15600/3.37 | 14700/3.37 | 13000/3.37 | 11200/3.37 | 8600/3.37 | - |
| | 2 | 1750 | 44 | 13800/2.27 | 13160/2.27 | 13000/2.27 | 12200/2.27 | 11300/2.27 | 10400/2.27 | - | - | - |
| | 3 | 1750 | 55 | 14200/3.38 | 13800/3.38 | 13700/3.38 | 13200/3.38 | 12700/3.38 | 12100/3.38 | 11500/3.38 | 10700/3.38 | 9300/3.38 |
| 36 | 1 | 870 | 25 | 13000/1.14 | 12040/1.14 | 11800/1.14 | 10200/1.14 | 8200/1.14 | 6000/1.14 | - | - | - |
| | 1 1/2 | 870 | 26 | 16300/1.70 | 15180/1.70 | 14900/1.70 | 13200/1.70 | 11000/1.70 | 7900/1.70 | - | - | - |
| | 2 | 870 | 27 | 18500/2.23 | 17140/2.23 | 16800/2.23 | 15000/2.23 | 12900/2.23 | 9600/2.23 | - | - | - |
| | 3 | 870 | 32 | 21100/3.36 | 20060/3.36 | 19800/3.36 | 18100/3.36 | 15800/3.36 | 12800/3.36 | 9600/3.36 | 8100/3.36 | - |
| | 3/4 | 1160 | 30 | 11500/.85 | 10220/.85 | 9900/.85 | 8100/.85 | 6200/.85 | - | - | - | - |
| | 1 | 1160 | 31 | 13500/1.18 | 12460/1.18 | 12200/1.18 | 10700/1.18 | 8800/1.18 | 6500/1.18 | - | - | - |
| | 1 1/2 | 1160 | 33 | 15900/1.73 | 14780/1.73 | 14500/1.73 | 13000/1.73 | 11300/1.73 | 9200/1.73 | - | - | - |
| | 2 | 1160 | 39 | 15700/2.25 | 14980/2.25 | 14800/2.25 | 13800/2.25 | 12800/2.25 | 11600/2.25 | 10200/2.25 | 8500/2.25 | - |
| | 3 | 1160 | 40 | 20700/3.39 | 19900/3.39 | 19700/3.39 | 18600/3.39 | 17300/3.39 | 15900/3.39 | 14300/3.39 | 12300/3.39 | - |
| | 5 | 1160 | 42 | 25100/5.49 | 24200/5.49 | 24000/5.49 | 22900/5.49 | 21700/5.49 | 20300/5.49 | 18700/5.49 | 16700/5.49 | - |
| | 7 1/2 | 1160 | 53 | 30500/8.15 | 29540/8.15 | 29300/8.15 | 28100/8.15 | 26700/8.15 | 25200/8.15 | 23400/8.15 | 21400/8.15 | 15500/8.15 |
| | 3 | 1750 | 58 | 18000/3.28 | 17200/3.28 | 17000/3.28 | 16000/3.28 | 15000/3.28 | 13900/3.28 | 12800/3.28 | 11600/3.28 | 9100/3.28 |
| | 5 | 1750 | 81 | 18600/5.42 | 18280/5.42 | 18200/5.42 | 17800/5.42 | 17300/5.42 | 16800/5.42 | 16200/5.42 | 15700/5.42 | 14500/5.42 |
| | 7 1/2 | 1750 | 75 | 27000/8.25 | 26360/8.25 | 26200/8.25 | 25400/8.25 | 24600/8.25 | 23600/8.25 | 22500/8.25 | 21500/8.25 | 19200/8.25 |
| 42 | 1 1/2 | 870 | 36 | 17500/1.72 | 16140/1.72 | 15800/1.72 | 14100/1.72 | 12000/1.72 | 9500/1.72 | 7500/1.72 | - | - |
| | 2 | 870 | 36 | 19800/2.22 | 18520/2.22 | 18200/2.22 | 16200/2.22 | 14000/2.22 | 11000/2.22 | 8800/2.22 | 7200/2.22 | - |
| | 3 | 870 | 36 | 24500/3.26 | 22980/3.26 | 22600/3.26 | 20600/3.26 | 18000/3.26 | 14800/3.26 | 11200/3.26 | 9200/3.26 | - |
| | 5 | 870 | 40 | 31300/5.53 | 29780/5.53 | 29400/5.53 | 27300/5.53 | 24800/5.53 | 21800/5.53 | 17000/5.53 | 13200/5.53 | - |
| | 3 | 1160 | 60 | 20500/3.30 | 19700/3.30 | 19500/3.30 | 18500/3.30 | 17300/3.30 | 15900/3.30 | 14400/3.30 | 13000/3.30 | 9700/3.30 |
| | 5 | 1160 | 61 | 28000/5.45 | 27200/5.45 | 27000/5.45 | 25800/5.45 | 24500/5.45 | 22800/5.45 | 20900/5.45 | 18900/5.45 | 13700/5.45 |
| | 7 1/2 | 1160 | 62 | 34500/8.26 | 33540/8.26 | 33300/8.26 | 32000/8.26 | 30600/8.26 | 28800/8.26 | 26800/8.26 | 24700/8.26 | 19400/8.26 |
| | 5 | 1750 | 89 | 26000/5.41 | 24960/5.41 | 24700/5.41 | 23500/5.41 | 22100/5.41 | 20700/5.41 | 19300/5.41 | 17900/5.41 | - |
| | 7 1/2 | 1750 | 94 | 32500/8.25 | 31700/8.25 | 31500/8.25 | 30300/8.25 | 29140/8.25 | 27800/8.25 | 26500/8.25 | 25200/8.25 | - |
| 48 | 1 1/2 | 870 | 36 | 22800/1.68 | 20560/1.68 | 20000/1.68 | 16600/1.68 | 12100/1.68 | - | - | - | - |
| | 2 | 870 | 38 | 25900/2.25 | 23740/2.25 | 23200/2.25 | 19800/2.25 | 15800/2.25 | - | - | - | - |
| | 3 | 870 | 48 | 27000/3.37 | 25640/3.37 | 25300/3.37 | 23400/3.37 | 21100/3.37 | 18400/3.37 | 15200/3.37 | | - |
| | 5 | 870 | 48 | 36000/5.57 | 34320/5.57 | 33900/5.57 | 31600/5.57 | 29000/5.57 | 25800/5.57 | 21900/5.57 | 17800/5.57 | - |
| | 7 1/2 | 870 | 51 | 42100/8.14 | 40420/8.14 | 40000/8.14 | 37600/8.14 | 34900/8.14 | 31800/8.14 | 28000/8.14 | 22500/8.14 | - |
| | 10 | 870 | 63 | 46600/11.03 | 44920/11.03 | 44500/11.03 | 42200/11.03 | 39500/11.03 | 36100/11.03 | 32300/11.03 | 27500/11.03 | 20500/11.03 |
| | 3 | 1160 | 59 | 27000/3.29 | 25320/3.29 | 24900/3.29 | 22600/3.29 | 19800/3.29 | 17000/3.29 | 13800/3.29 | 11100/3.29 | - |
| | 5 | 1160 | 64 | 34700/5.54 | 33180/5.54 | 32800/5.54 | 30700/5.54 | 28400/5.54 | 26000/5.54 | 22900/5.54 | 19300/5.54 | - |
| | 7 1/2 | 1160 | 76 | 40500/8.12 | 38900/8.12 | 38500/8.12 | 36500/8.12 | 34000/8.12 | 31500/8.12 | 28700/8.12 | 25500/8.12 | - |
| | 10 | 1160 | 81 | 43400/10.81 | 42280/10.81 | 42000/10.81 | 40500/10.81 | 39000/10.81 | 37200/10.81 | 35200/10.81 | 33000/10.81 | 28000/10.81 |
| 54 | 5 | 1160 | 75 | 37300/5.41 | 35220/5.41 | 34700/5.41 | 32000/5.41 | 29200/5.41 | 26100/5.41 | 23000/5.41 | 19600/5.41 | - |
| | 7 1/2 | 1160 | 79 | 46000/8.21 | 44320/8.21 | 43900/8.21 | 41700/8.21 | 39200/8.21 | 36400/8.21 | 33000/8.21 | 29500/8.21 | - |
| | 10 | 1160 | 86 | 51600/11.00 | 49920/11.00 | 49500/11.00 | 47300/11.00 | 44800/11.00 | 42200/11.00 | 39300/11.00 | 36200/11.00 | - |
| 60 | 7 1/2 | 870 | 77 | 49000/8.25 | 47000/8.25 | 46500/8.25 | 43900/8.25 | 41100/8.25 | 37700/8.25 | 34200/8.25 | 30500/8.25 | 22700/8.25 |
| | 10 | 870 | 77 | 55800/10.33 | 53800/10.33 | 53300/10.33 | 50500/10.33 | 47300/10.33 | 43600/10.33 | 39800/10.33 | 35700/10.33 | 27000/10.33 |

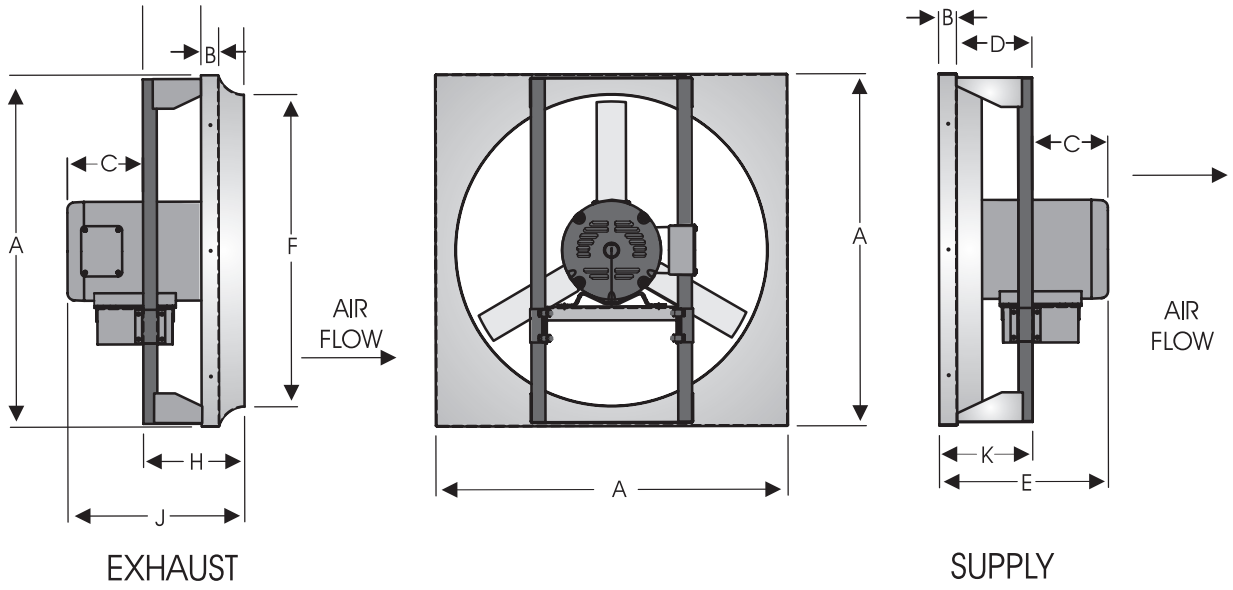
Performance shown is for wall ventilators for installation type A: Free inlet, Free outlet. The power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

Sound ratings shown are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: Free inlet fan sone levels.

For additional sound data and for selections at other static pressures, please refer to the Optisizer Selection Program. Available motor RPM's may vary from table. Supply performance is obtained by reversing the direction of the venturi.

# DIMENSIONS

## Model DDE & DDS




| DDE/ DDS Size | Dimensions (in.) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C* | D | E* | F | G | H | I | J | K |
| 24 | 30 | 2 | 11 | 9 | 21 | 25 | 3 | 9 | 4 | 20 | 11 |
| 30 | 36 | 2 | 11 | 9 | 21 | 31 | 3 | 9 | 4 | 20 | 11 |
| 36 | 42 | 2 | 11 | 9 | 21 | 37 | 3 | 9 | 4 | 20 | 11 |
| 42 | 48 | 2 | 11 | 9 | 21 | 43 | 3 | 9 | 4 | 20 | 11 |
| 48 | 54 | 2 | 12 | 10 | 23 | 49-1/4 | 4 | 10 | 4 | 22 | 12 |
| 54 | 60 | 2 | 13 | 11 | 25 | 55-1/4 | 5 | 11 | 4 | 24 | 13 |
| 60 | 66 | 2 | 13 | 11 | 25 | 61-1/4 | 5 | 11 | 4 | 24 | 13 |

**A**. Outside dimension of square panel.
**B**. Width of flange.
**C**. Depth of motor beyond support structure.*
**D**. Depth of support structure - supply.
**E**. Depth of fan - supply. *
**F**. Diameter of venturi.
**G**. Depth of venturi.
**H**. Depth of panel and support structure - exhaust.
**I**. Depth of support structure - exhaust.
**J**. Depth of fan - exhaust.*
**K**. Depth of panel and support structure - supply.
*** Varies with motor selection**