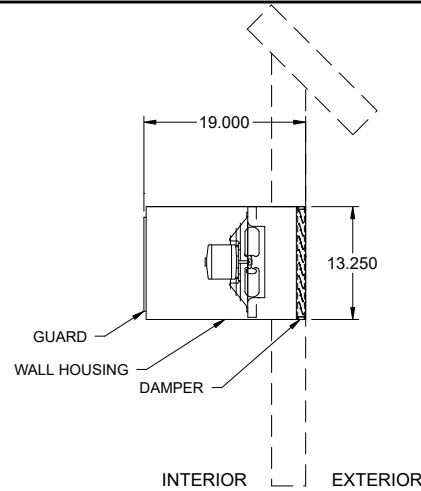


# Model: SE1-8-440-VG

Sidewall Direct Drive Fan  
Motor Access From Int. of Bldg.

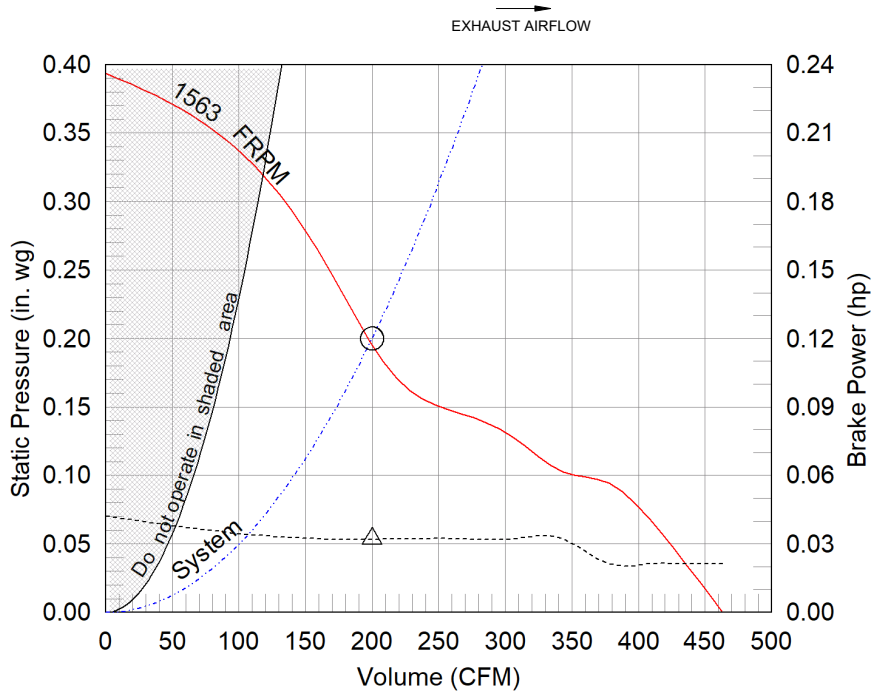
Dimensional	
Quantity	1
Weight w/o Acc's (lb)	16
Weight w/ Acc's (lb)	47
Optional Damper (in.)	10 x 10
Wall Opening (in.)	14.25 x 14.25



Performance	
Requested Volume (CFM)	200
Actual Volume (CFM)	200
Total External SP (in. wg)	0.2
Fan RPM	1563
Operating Power (hp)	0.03
Elevation (ft)	499
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.074
Tip Speed (ft/min)	3,274
Static Eff. (%)	20

Misc Fan Data	
Fan Eff. Index (FEI)	-
Outlet Velocity (ft/min)	541

Motor	
Motor Mounted	Yes
Size (hp)	1/15
Voltage/Cycle/Phase	115/60/1
Enclosure	TENV
Motor RPM	1725
Efficiency Rating	High
Windings	1
FLA (Amps)	1.3



- △ Operating Bhp point
- Operating point at Total External SP
- Fan curve
- - - System curve
- - - Brake horsepower curve

**Notes:**

All dimensions shown are in units of in.  
 \*NEC FLA, MCA and MOP are for reference only – based on tables 430.248 or 430.25 of National Electric Code 2020. Actual motor FLA may vary, for sizing thermal overload, consult factory.  
 MCA and MOP values shown only account for the motor, not accessories (damper actuator, field supplied VFD, etc).  
 LwA - A weighted sound power level, based on ANSI S1.4  
 dBA - A weighted sound pressure level, based on 11.5 dB attenuation per Octave band at 5 ft - dBA levels are not licensed by AMCA International  
 Sones - calculated using AMCA 301 at 5 ft

Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	72	73	62	58	56	53	49	44	63	51	6.5



## Model: SE1-8-440-VG

### Sidewall Direct Drive Fan

#### Standard Construction Features:

- Fan panels of galvanized steel - Aluminum blade propeller - Heavy gauge welded wire motor supports and fan guard that is Zinc plated - Motor mounted to support guard with neoprene isolators - Corrosion resistant fasteners

#### Selected Options & Accessories:

Motor - Vari-Green EC motor with Dial ONLY (Not capable for field conversion to 0-10)

Control - Dial for balancing

UL/cUL 705 Listed - "Power Ventilators"

Airflow Direction: Exhaust

Short Wall Hsg, Flush Exterior, w/OSHA Grd., Factory Installed

Motor Access: From Int. of Bldg.

Switch, NEMA-1, Toggle,

Junction Box Mounted & Wired

Aluminum Damper Guard, Factory Installed

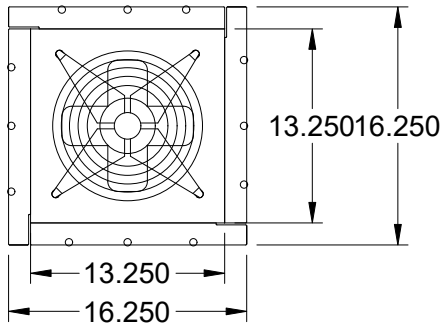
Unit Warranty: 1 Yr (Standard)

Damper Mounted, BD-320-PB-10X10, Gravity Operated, Not Coated

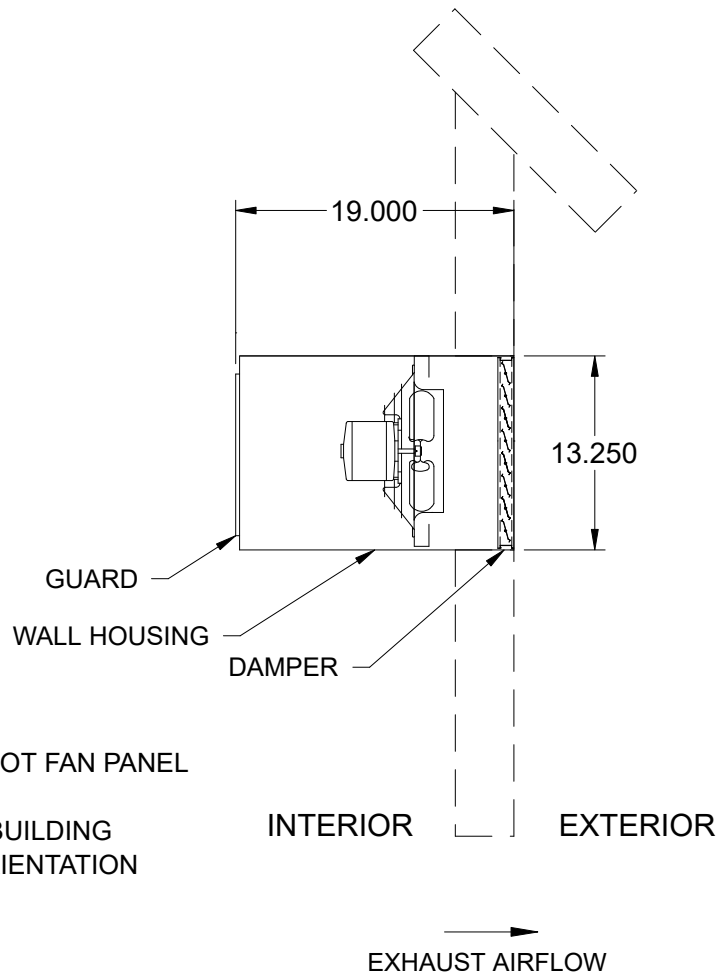
***The Vari-Green Motor included in this order has a 'Multi-Voltage' ability. This motor has the ability to accept 115V or 208-230V Single Phase power. The motor has an auto switch and does not require the user to change anything for the listed voltages.***

# Assembly Drawing

Type: Sidewall Direct Drive Fan



END VIEWED FROM INTERIOR  
 END VIEW DIMENSIONS ARE FOR HOUSING NOT FAN PANEL  
 WALL OPENING 14.25 SQ.  
 MOTOR IS ACCESSIBLE FROM INTERIOR OF BUILDING  
 THIS IS AN EXHAUST FAN DUE TO MOTOR ORIENTATION



Notes: All dimensions shown are in units of in..

# Vari-Green Motor & Control Options

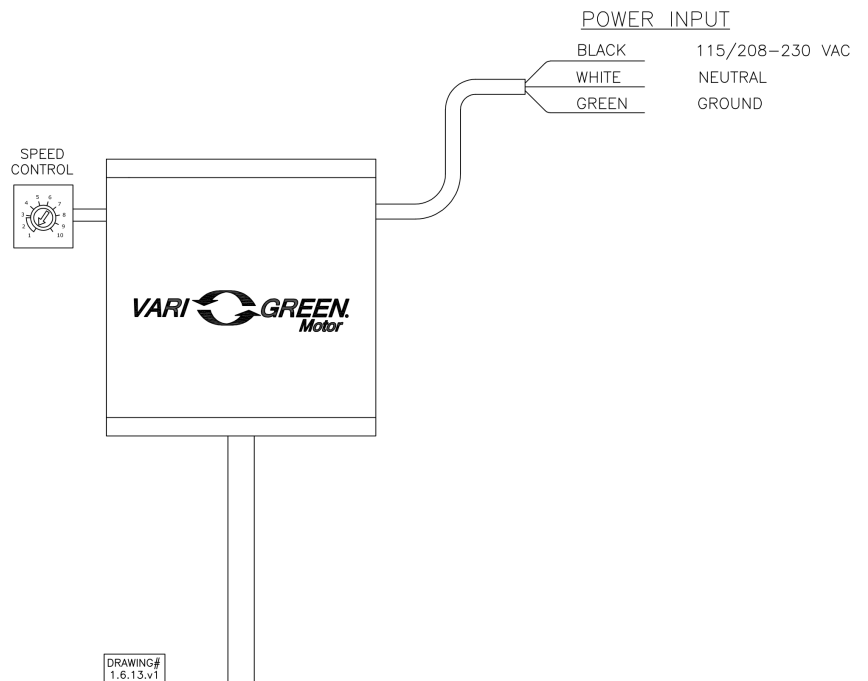
An EC motor that uses AC input power and internally converts it to DC power. Potentiometer (dial) mounted on the motor enclosure adjusts the speed (RPM) down 80%. Vari-Green motors feature a soft-start and inherent thermal and current protection built into each unit. Inrush current at start up is eliminated and the motor will automatically reduce speed or turn off if overloaded or it becomes too hot.

### Motor Configuration

Input Voltage: 115  
Speed Reference: Dial on Motor  
Permanent Dial: Yes

### Control Configuration

Control Type: N/A  
Transformer: None



# Vertical Mount Exhaust Damper

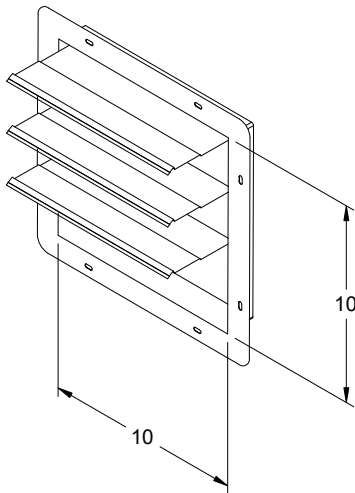
Model: BD-320

## Standard Construction Features:

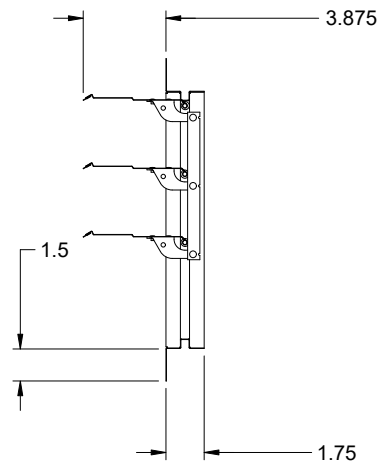
- Model BD-320 is a vertical mount exhaust damper and is constructed of 24 ga galvanized steel with pre-punched mounting holes and a flanged frame - Damper blades are 0.016 in. roll formed aluminum with vinyl seals on the closing edge - Axle/bearing is constructed of fiberglass reinforced nylon



Greenheck Fan Corporation certifies that the models BD-300, 320, and 330 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Air Leakage and Air Performance Ratings.



DAMPER



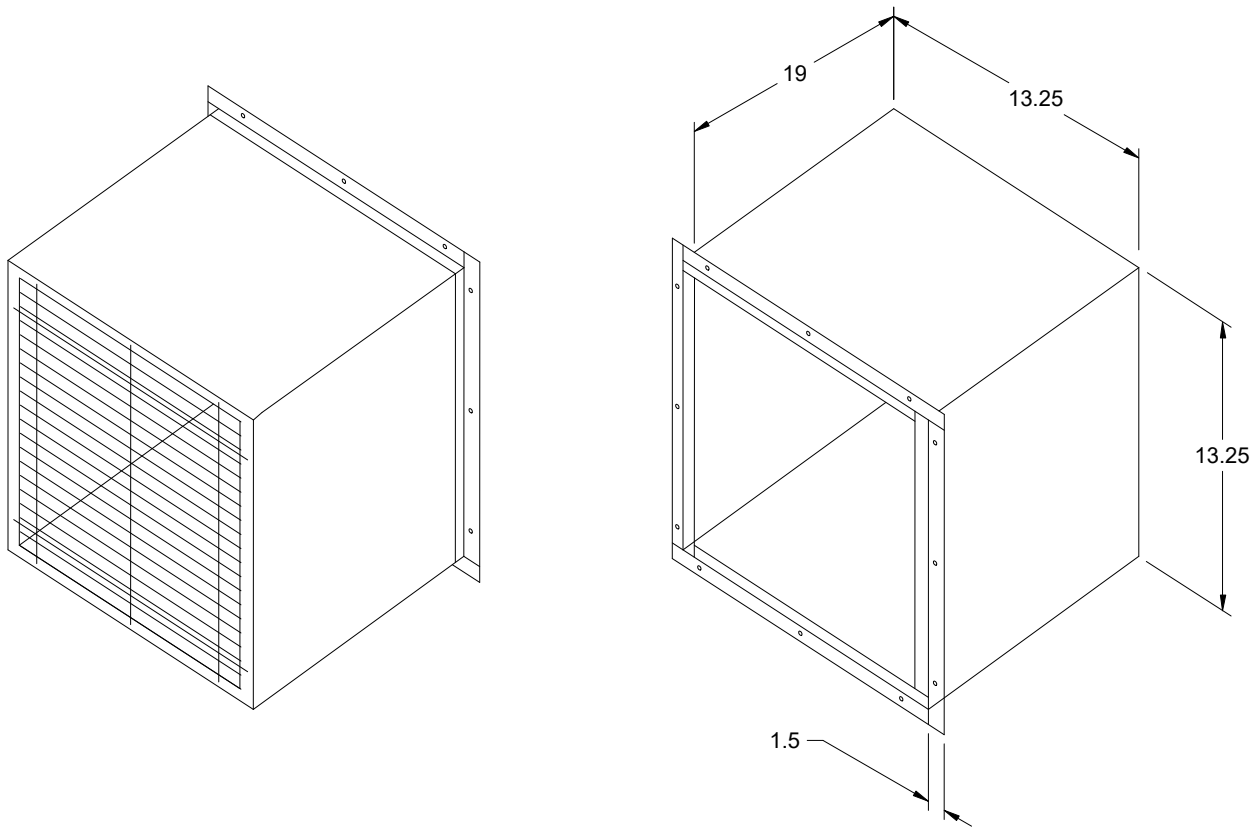
TYP. SECTION VIEW

Notes: All dimensions shown are in units of in.

## Short Wall Housing

### Standard Construction Features:

- Galvanized steel construction - Heavy gauge mounting flanges - Pre-punched mounting holes - Inside flanges allow damper to be mounted - Overlapping weatherhood flange keeps rain out - OSHA Protective guard of welded steel wire completely protects the drive side of the wall housing.



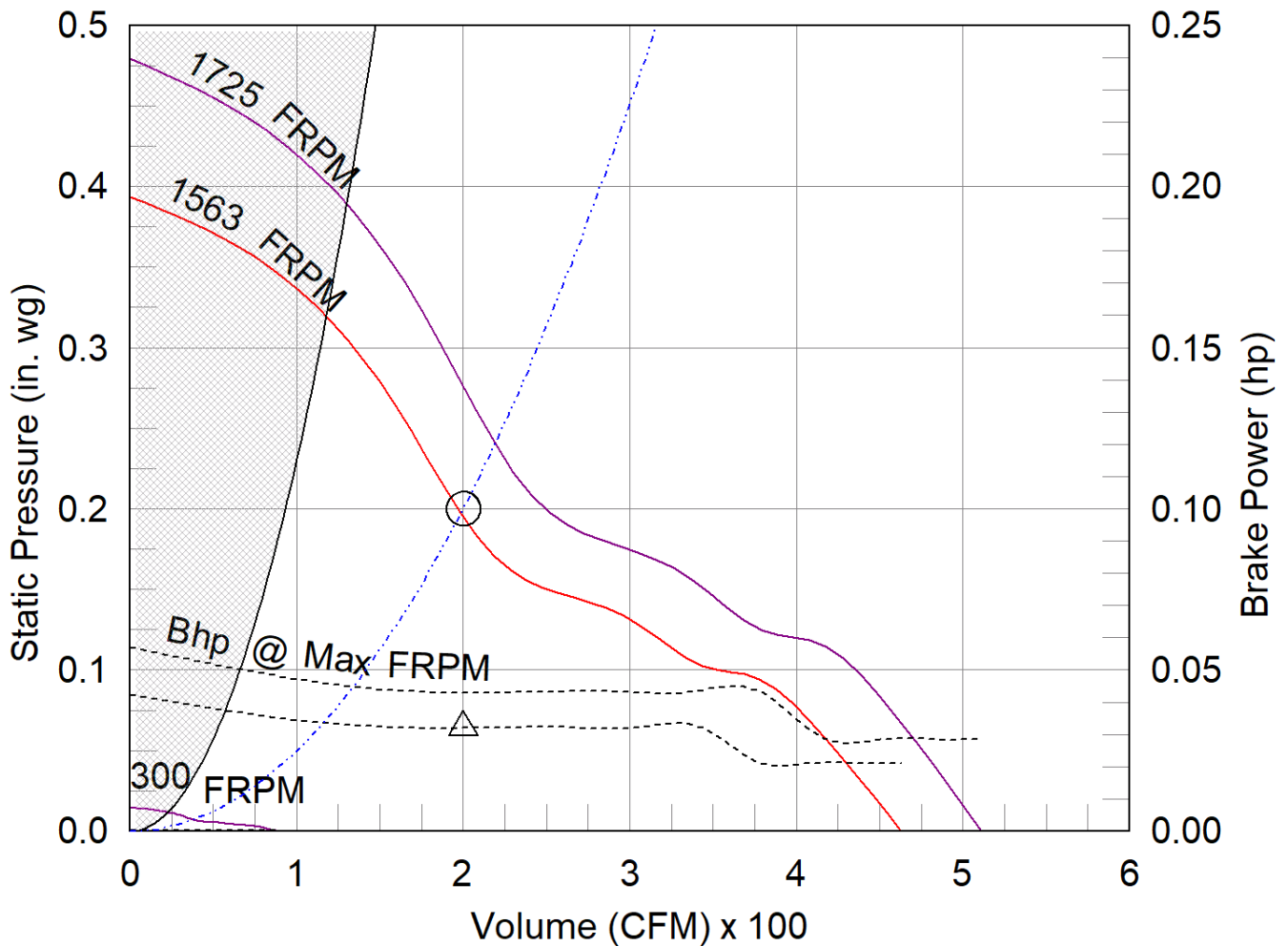
Notes: All dimensions shown are in units of in.

SE1-8-440-VG

Min/Max Fan Curve

**Performance**

Requested Volume (CFM)	Actual Volume (CFM)	Total External SP (in. wg)	Fan RPM	Operating Power (hp)
200	200	0.2	1563	0.03



- △ Operating Bhp point
- Operating point at Total External SP
- Construction Limit
- Fan curve
- Min FRPM
- System curve
- Brake horsepower curve

## AMCA



AMCA Licensed for Sound and Air Performance and FEI ratings. Power rating (BHP/kW) does not include transmission losses.

Greenheck Fan Corporation certifies that the model shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA certified ratings seal applies to sound and air performance and FEI ratings only. FEI calculation is based on default motor calculation in accordance with ANSI/AMCA Standard 208. Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP/kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. The A-Weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. dBA levels are not licensed by AMCA International. The AMCA Certified Ratings Seal applies to LwiA and inlet sone ratings only.