



PARIC CORPORATION
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REQUEST FOR INFORMATION	DATE: April 26, 2017	NO.: RFI-522
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To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Joe Voypick

Project Name: 15051-Webster University Interdisciplinary Science Building	Project No.: 15051
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Subject: Kitchen Exhaust Fan 1

Response Required By: May 03, 2017

Drawing / Spec Reference:

Information Requested:

Kitchen exhaust fan 1 is called out on ME0003 as a 480v 3P fan, and was wired accordingly. The basis of design equipment is not available in 480 and is currently on site as 120v. Icon has contacted the supplier and confirmed the motor cannot be swapped within the fan.

Proposed solutions are to run 120v power to fan or to select an alternate fan.

Response: Per Contractor coordination, 120 volt power will be provided to the fan in-lieu of replacing the 120 volt fan with a 480 volt fan.

ARCHITECT'S RESPONSE:

This information is provided as an interpretation of the Contract Documents for implementation. It is not an authorization for change to the Contract Sum or Contract Time. If this information results in a claim for a change to the Contract, the Contractor shall notify the [Construction Manager][Architect] of a change through the change process.

Answered By: Mike Nolte, WTA

Date: 5/22/17

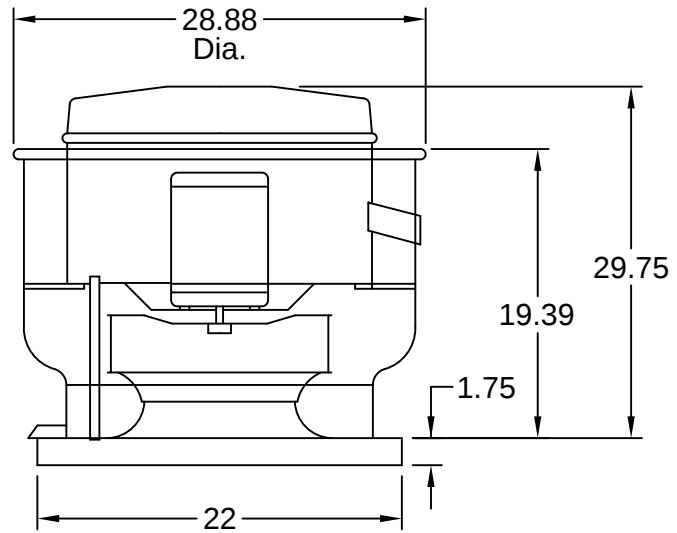
Model: CUE-141HP-VG

Direct Drive Upblast Centrifugal Roof Exhaust Fan

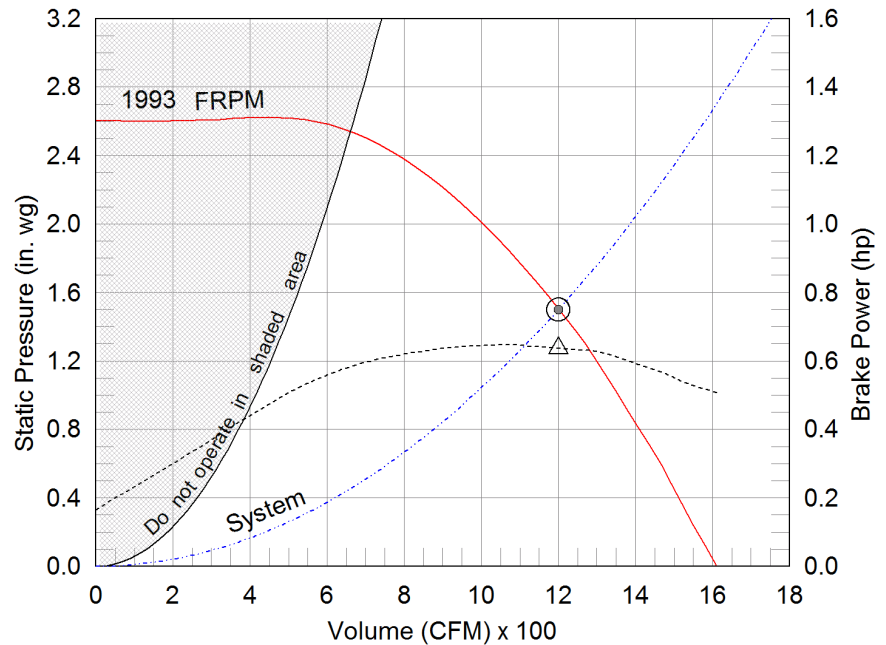
Dimensional	
Quantity	1
Weight w/o Acc's (lb)	64
Weight w/ Acc's (lb)	111
Roof Opening (in.)	18.5 x 18.5

Performance	
Requested Volume (CFM)	1,200
Actual Volume (CFM)	1,200
External SP (in. wg)	1.5
Total SP (in. wg)	1.5
Fan RPM	1993
Operating Power (hp)	0.64
Elevation (ft)	709
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.073
Tip Speed (ft/min)	7,633
Static Eff. (%)	44

Motor	
Motor Mounted	Yes
Size (hp)	3/4
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Motor RPM	2200
Windings	1
FLA (Amps)	11.3



*Overall height may be greater depending on motor



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

Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	83	84	76	75	73	71	70	67	79	68	17.5

Notes:

All dimensions shown are in units of in.
*Please consult factory for actual motor amp draw
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



Model: CUE-141HP-VG

Direct Drive Upblast Centrifugal Roof Exhaust Fan

Standard Construction Features:

- Aluminum housing - Backward inclined aluminum wheel - Aluminum curb cap with prepunched mounting holes - Drain trough - Ball bearing motors (sizes 98-160), sleeve bearing motors (sizes 60-95) - Motor isolated on shock mounts - Corrosion resistant fasteners

Selected Options & Accessories:

Motor - Vari-Green EC motor w/Mounted Potentiometer Dial
Standard curb cap size - 22 in. square
UL/cUL 762 Listed - "Power Ventilators for Rest. Exh. Appliances"
Switch, NEMA-3R, Toggle, Shipped Separate
Roof Curb-Galv., GPI-22-G12, Under Sized 1.5 in. Total
Curb Extension-Galv., VCE-22-G15.25
Hinged Base (Attached)
Curb Seal (Attached)
Grease Trap (PN 475538)
Unit Warranty: 1 Yr (Standard)

Disconnect Switch

Enclosure Rating: NEMA-3R

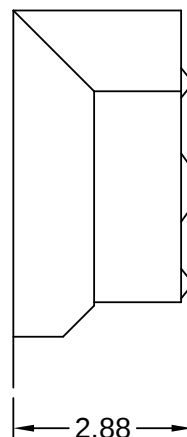
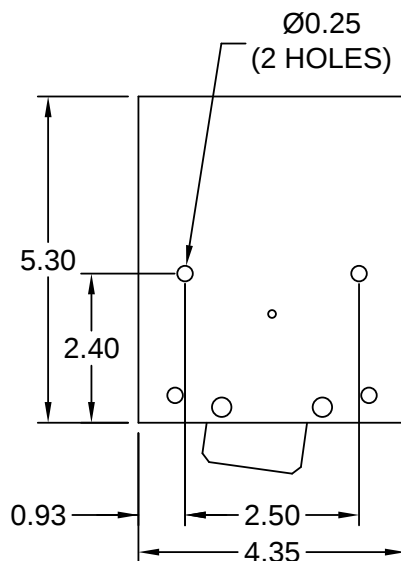
Standard Construction Features:

Enclosure constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment: to provide a degree of protection against falling dirt, rain, sleet, snow, and windblown dust. The enclosed equipment will be undamaged by the external formation of ice on the enclosure. This enclosure meets the rod entry, rain, external icing, outdoor corrosion protection and gasket design tests. Enclosure is equipped with provision to lockout in the off position with customer supplied lock.

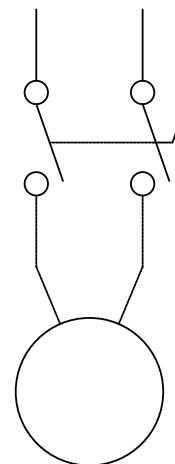
Disconnect Switch Configuration

Type:	Toggle	Motor Size:	3/4 hp	Voltage:	115	UL Listed:	Yes
Manufacturer:	Square D	Cycle:	60	Amperage:	30	CSA Approved:	Yes
Overload Protection:	None	Phase:	1	Switch Pole(s):	2	Rating:	15 hp
Junction Box Mtg.:	Ship Separate	RPM:	2200	Exp. Resist. Wiring:	None		
Switch Mounting:	Shipped Separate						

Electrical Drawing Details



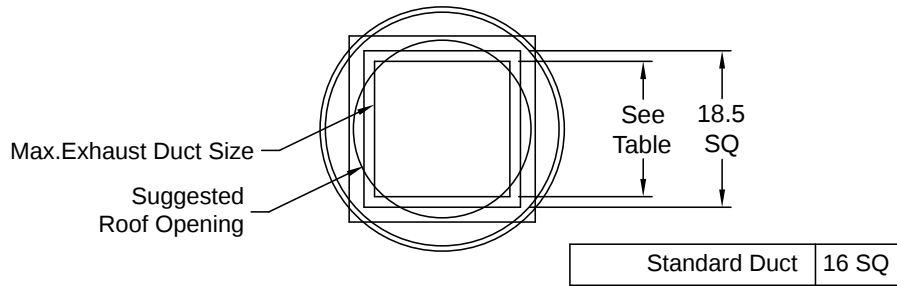
Wiring Schematic



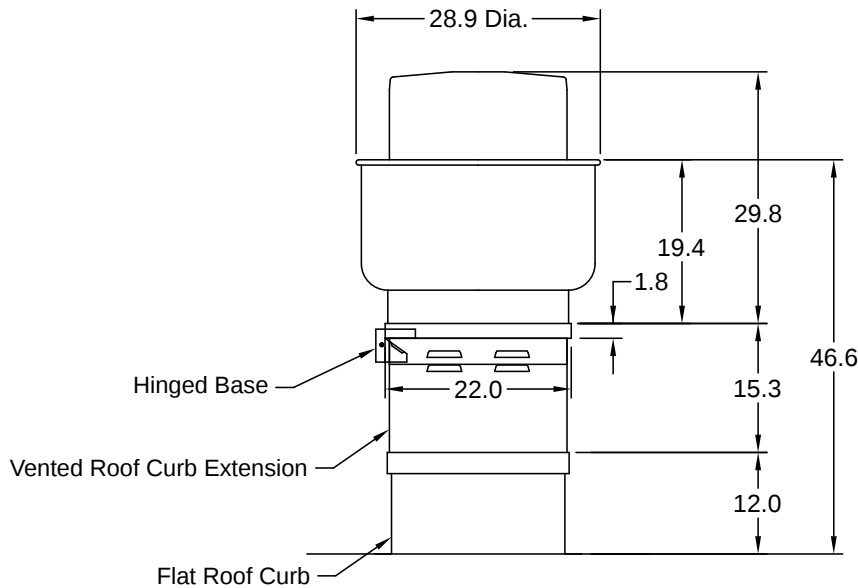
Notes: All dimensions shown are in units of in.

Assembly Drawing

Type: Direct Drive Upblast Centrifugal Roof Exhaust Fan



TOP VIEW



NOTE: Overall height may be greater depending on motor

FRONT VIEW

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

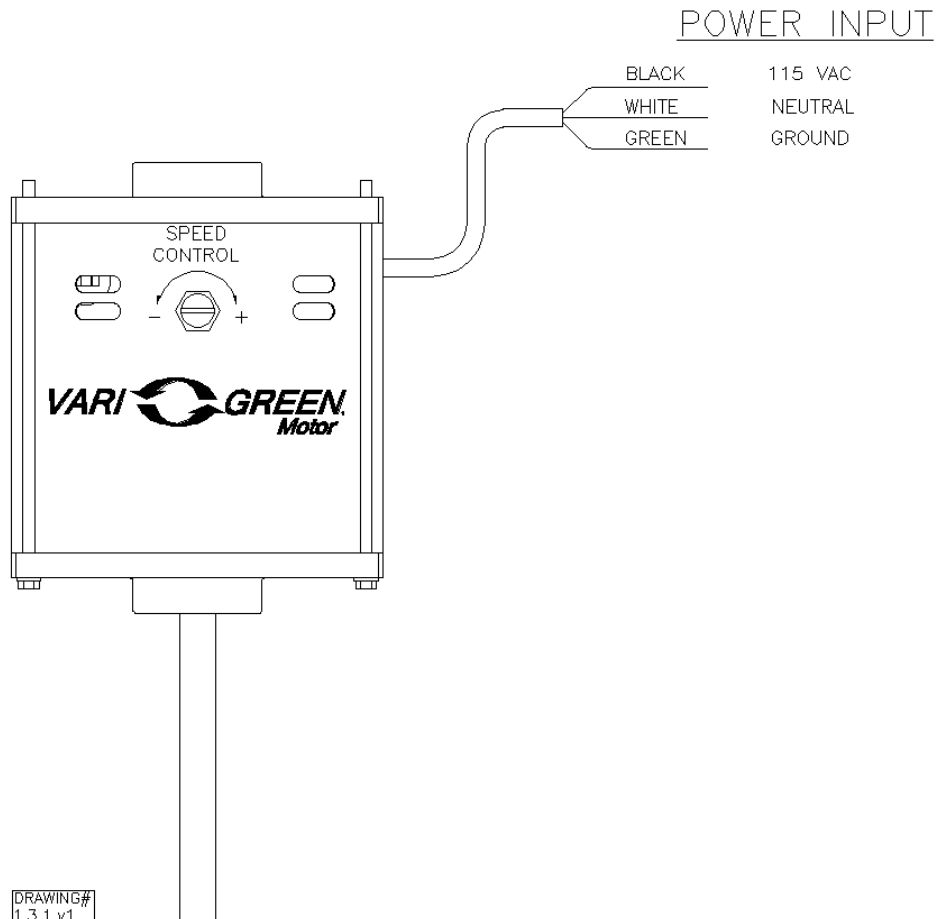
Vari-Green Motor & Control Options

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%.

Motor Type:

Dial on Motor

Wiring Diagram



Roof Curb

Model: GPI

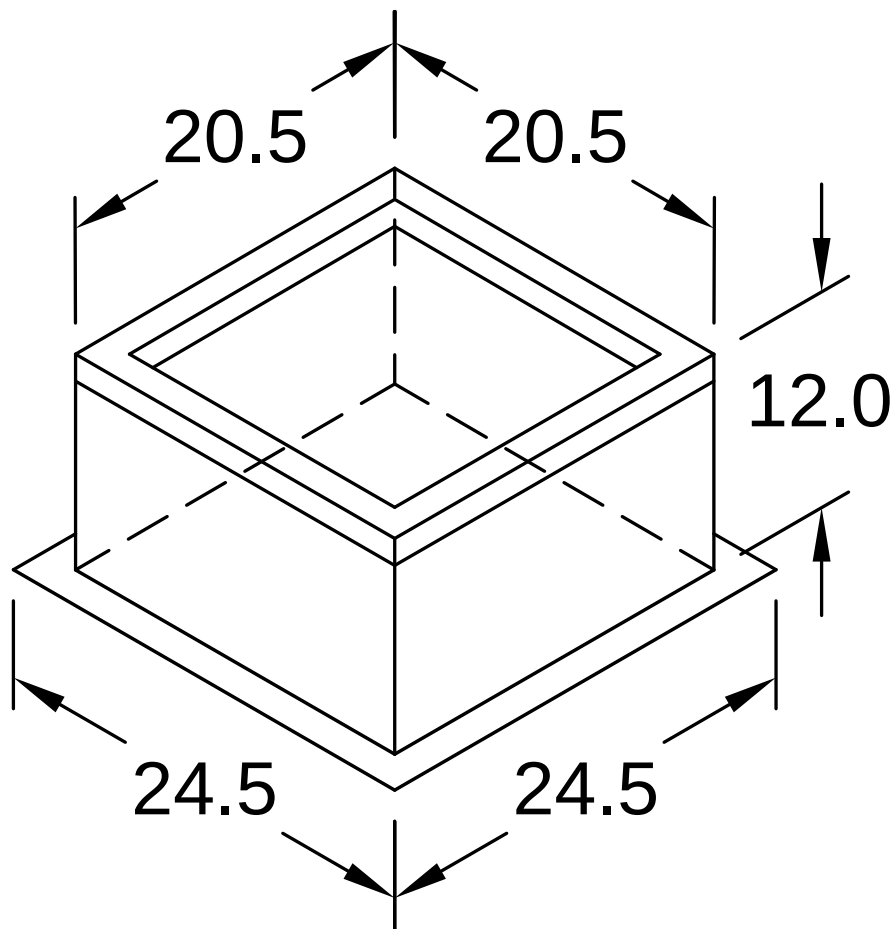
Material: Galvanized

Standard Construction Features:

- Roof Curb fits between the building roof and the fan mounted directly to the roof support structure - Constructed of either 18 ga galvanized steel or 0.064 in. aluminum - Straight Sided without a cant - 2 in. mounting flange - 3 lb density insulation - Height
- Available from 8 in. to 42 in. as specified in 0.5 in. increments.

Notes:

- The maximum roof opening dimension should not be greater than the "Actual" top outside dimension minus 2 in..
- The minimum roof opening dimension should be at least 2.5 in. more than the damper dimension or recommended duct size.
- The Roof Opening Dimension may NOT be the Structural Opening Dimension.
- Damper Tray is optional and must be specified. Tray size is same as damper size.
- Security bars are optional and must be specified. Frames and gridwork are all 12 ga steel. Gridwork is welded to the frame and the frame is welded to the curb.



Notes: All dimensions shown are in units of in.

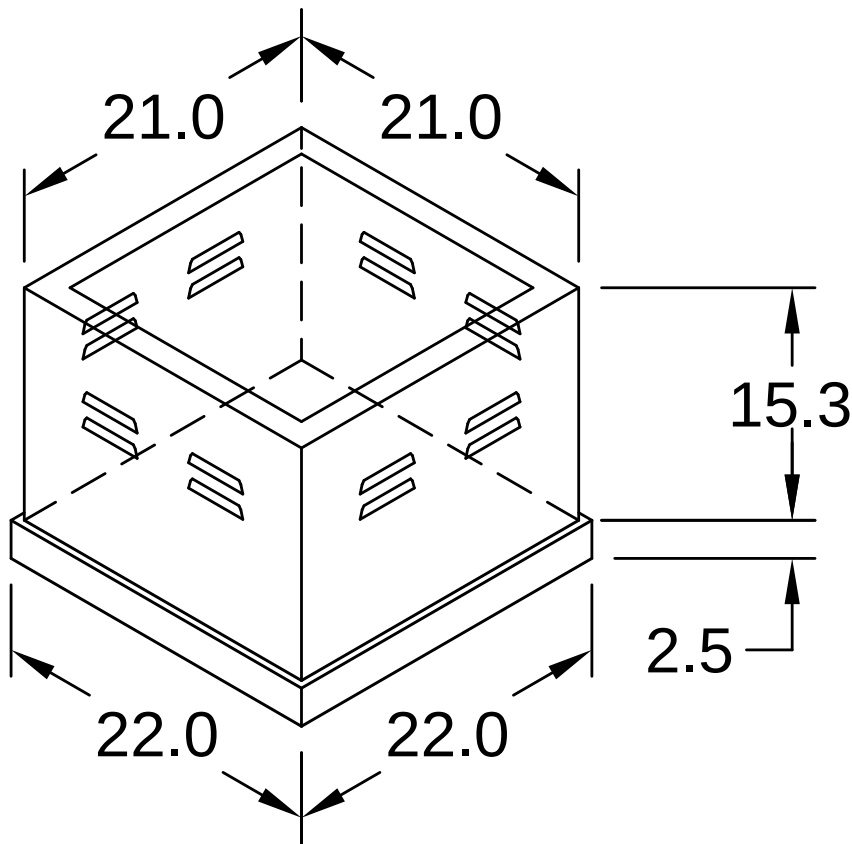
Vented Curb Extension

Model: VCE

Standard Construction Features:

- Curb Extension mounts between the fan and the roof curb - Constructed of either 18 ga galvanized or optional 0.064 in. aluminum - Louvered vents are designed to vent heat in restaurant exhaust applications - Designed to provide required 18 in. minimum discharge height above roof line when used with an 8 in. high roof curb and Greenheck model spun aluminum upblast exhaust fan per NFPA 96.

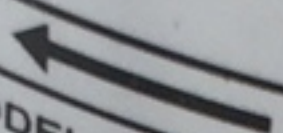
NOTE: Damper Trays are not available.

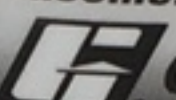


ISOMETRIC VIEW

Notes: All dimensions shown are in units of in.

VARI GREEN[®] Motor

ROT. 		GREENHECK P/N: 312361	
MODEL NO. F2248B4177		CIN120160IO110072	
110/120 V	50/60 HZ	11.3 AMP	300-2200 RPM
VARIABLE SPEED		3/4 HP	
INSUL CLASS B, E62815		THERMALLY PROTECTED	
MADE IN THE USA WITH DOMESTIC AND IMPORTED PARTS		UL US E62788	SEP 16
Patent #US 6,850,019		Replacement Parts: 800-355-5354	

 GREENHECK