



Submittal Record

Our Passion is Building®

Rodgers Builders, Inc.
PO Box 18446 (28218)
5701 North Sharon Amity Road
Charlotte, NC 28215

rodgersbuilders.com
704 537 6044 TELEPHONE
704 535 0055 FAX

Architect:

Project:

Rodgers Project #:

Form of Submittal

Submittal No.

- Product Data
- Shop Drawings
- Mix Designs
- MSDS Sheets
- Physical Samples
- Manufacturer's Certification
- Test Reports
- Installation Instructions
- Letter of Affidavit / Compliance
- Welding Certificates
- Sample Warranty
- Other (Specify) - _____

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F-17 PAGE 70

Item: _____

Drawing Number: _____

Spec. Section & Package No.: _____

Manufacturer: _____

Brand: _____

Submitted By: _____

Review Due Date: _____

Gravity ventilators to be re-submitted under spec section 23 37 23

- NO EXCEPTIONS TAKEN
- EXCEPTIONS INDICATED
- REVISE AND RESUBMIT
- REJECTED; RESUBMIT

REVIEWED ONLY FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE VERIFIED AND CORRELATED AT THE SITE; FOR QUANTITY VERIFICATION; FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR THE MEANS, METHODS, TECHNIQUES OR SEQUENCES AND PROCEDURES OF CONSTRUCTION; AND FOR COORDINATION OF THE WORK OF ALL TRADES.

YATES-CHREITZBERG-HUGHES ARCHITECTS
7035 NORTHWINDS DR. NW
CONCORD, NORTH CAROLINA 28027

BY: JRS DATE: 03/28/2025

Rodgers Stamp

Rodgers Builders, Inc.

- _____ No Exception Taken _____ Make Corrections Noted
- _____ Rejected _____ Revise and Resubmit
- _____ Submit Specified Item _____ Reviewed

Corrections and comments are only for general conformance with the design concepts of the project and general compliance with the information given in the contract documents. Action shown is subject to the requirements of the plans and specifications. This review does not relieve the subcontractor/vendor from compliance with requirements of the drawings and specifications. Subcontractor /vendor is responsible for dimensions which shall be confirmed and correlated at the job site, fabrication process, and techniques of construction: coordination of their work with that of all other trades and the satisfactory performance of their work.

By _____ Date _____
 No. _____

A/E Stamp

**OPTIMA ENGINEERING, P.A.
SHOP DRAWING REVIEW**

REVIEW IS FOR GENERAL COMPLIANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS. MECHANICAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR CORRECTNESS, DIMENSIONS, DETAILS, QUANTITIES AND ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT, INCLUDING ELECTRICAL CHANGES, MAINTENANCE ACCESS, CLEARANCES, BUILDING ALTERATIONS, PIPING, REPLACEMENT OF OTHER SYSTEM COMPONENTS, ETC.

NO EXCEPTION TAKEN	
APPROVED AS NOTED	X
REVISE AND RESUBMIT	
REJECTED	

Reviewed By: Kelsey Sheehan Date: 03/27/2025

OPTIMA: SEE COMMENTS THROUGHOUT

Date	March 19, 2025
Hoffman & Hoffman Order #	470.476.10301
Branch Office	Charlotte, NC
Salesman	Blake Anderson

REV1: 3/19/2025



PROJECT: Coltrane-Webb/Beverly Hills
Concord, NC

CONTRACTOR: Superior Mechanical
Randleman, NC

ENGINEER: Optima Engineering
Charlotte, NC

EQUIPMENT: Fans by Loren Cook

PER LATEST DRAWINGS: 10/21/2024

General Notes:

Above per the attached data and cut sheets

- [Tags FAN F 1-3 submitted with Accurex, please see Accurex submittal.](#)
- Motor horsepower and electrical voltage must be confirmed.
- We don't include any controls, motor starters, dampers of any kind, shaft grounding seismic construction, high wind rated construction, painted finishes or coatings, pitched or metal building roof curbs, rigging, or wiring.

REV1:

- Birdscreen added for all ACED Fans.
- Gravity backdraft damper added to tag F-6, hanging brackets/vibration isolation not available.
- Please confirm all CFM's and Static Pressures as all have been corrected if possible.

SUBMITTAL

APPROVAL REQUIRED

HOFFMAN & HOFFMAN, INC.

HVAC Manufacturers Representative

Website: www.hoffman-hoffman.com

Asheville, NC (828) 252-5782	Charleston, SC (843) 884-3201
Charlotte, NC (704) 364-4700	Columbia, SC (803) 765-9360
Raleigh, NC (919) 781-8011	Greenville, SC (864) 676-1888
Wilmington, NC (910) 791-4775	Chesapeake, VA (757) 548-1700
Chattanooga, TN (423) 693-2890	Richmond, VA (804) 272-1500
Knoxville, TN (865) 450-9770	Roanoke, VA (540) 725-8701
Corporate: Greensboro, NC (336) 292-8777	

We have exercised care in the preparation of this submittal. We believe it satisfies our interpretation of the designer's intent and scope. It contains the list of materials, quantities, sizes, style and the finish as we propose to furnish for this job. Please examine and check carefully that all items are exactly as required and that our interpretation of the applicable plans and/or specifications are consistent with the design. Approval by the engineer and purchaser will be required before release of this equipment for production. If any discrepancies are discovered, please notify us as soon as possible.



COOK



MARK: F-4
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

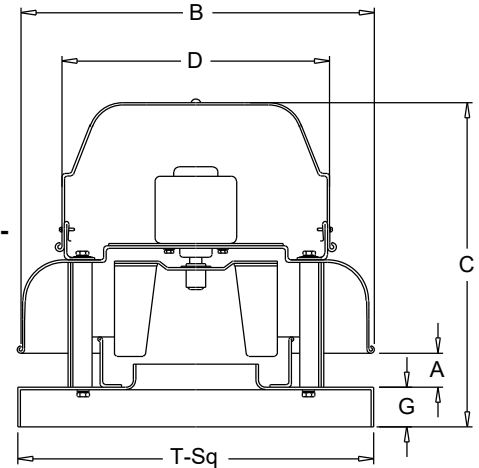
ACE-D

Downblast Centrifugal Exhaust Ventilator

Roof Mounted/Direct Drive

STANDARD CONSTRUCTION FEATURES:

All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches (sizes 120 - 300) - Welded curb cap corners - Birdscreen - Permanently lubricated ball bearing motors - Corrosion resistant fasteners - Transit tested packaging.



Performance

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Input Watts	FEG	Speed Control
1	90C10DM	225	.250	1096	82	n/a(<1HP)	FSC

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	TOL
1/25	1050	115/1/60	ODP -SE	Yes

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
62	61	60	55	48	46	44	50	57	46	4.9

- Distance from Sound source 5 ft

Accessories:

- DISCONNECT NEMA 1 PRE-WIRED
- BD-12 DAMPER
- ROOF CURB RCG 16 18H -C+T+N
- GASKET W/NAILER-CURB
- ALUMINUM BIRDSCREEN
- FAN SPEED CONTROLLER 5A 120V PREWIRED

Dimensions (inches)

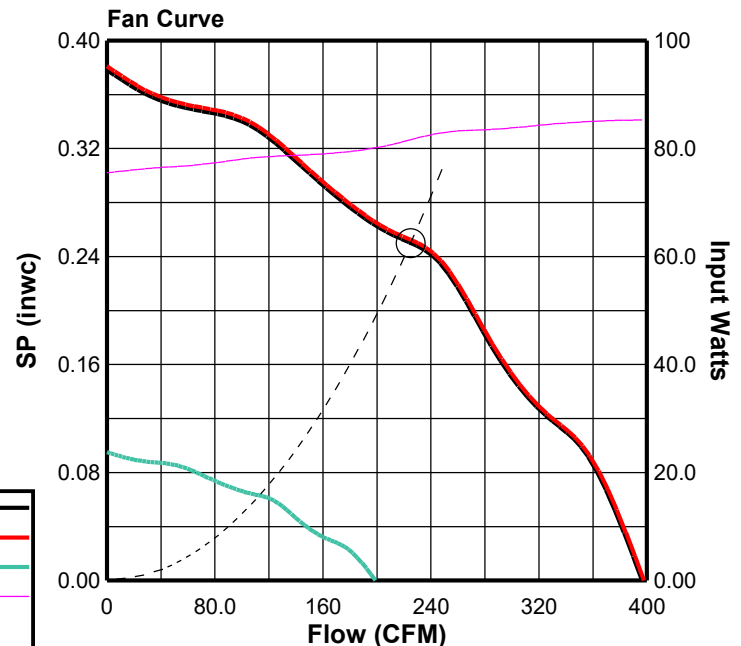
A	2-1/2
B O.D.	18-3/4
C	16-13/16
D O.D.	16-3/4
G	2
T Sq.	18
Roof Open. Sq.*	13-1/2

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	67	Unit	59
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* Roof opening size for curbs supplied by Cook only.

***Includes fan, motor & accessories.



Fan Curve Legend

CFM vs SP (1096)	—
100% FSC (1100)	—
Min FSC (550)	—
CFM vs Watts	—
Point of Operation	○
System Curve	---



COOK



MARK: F-4
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-D

Performance

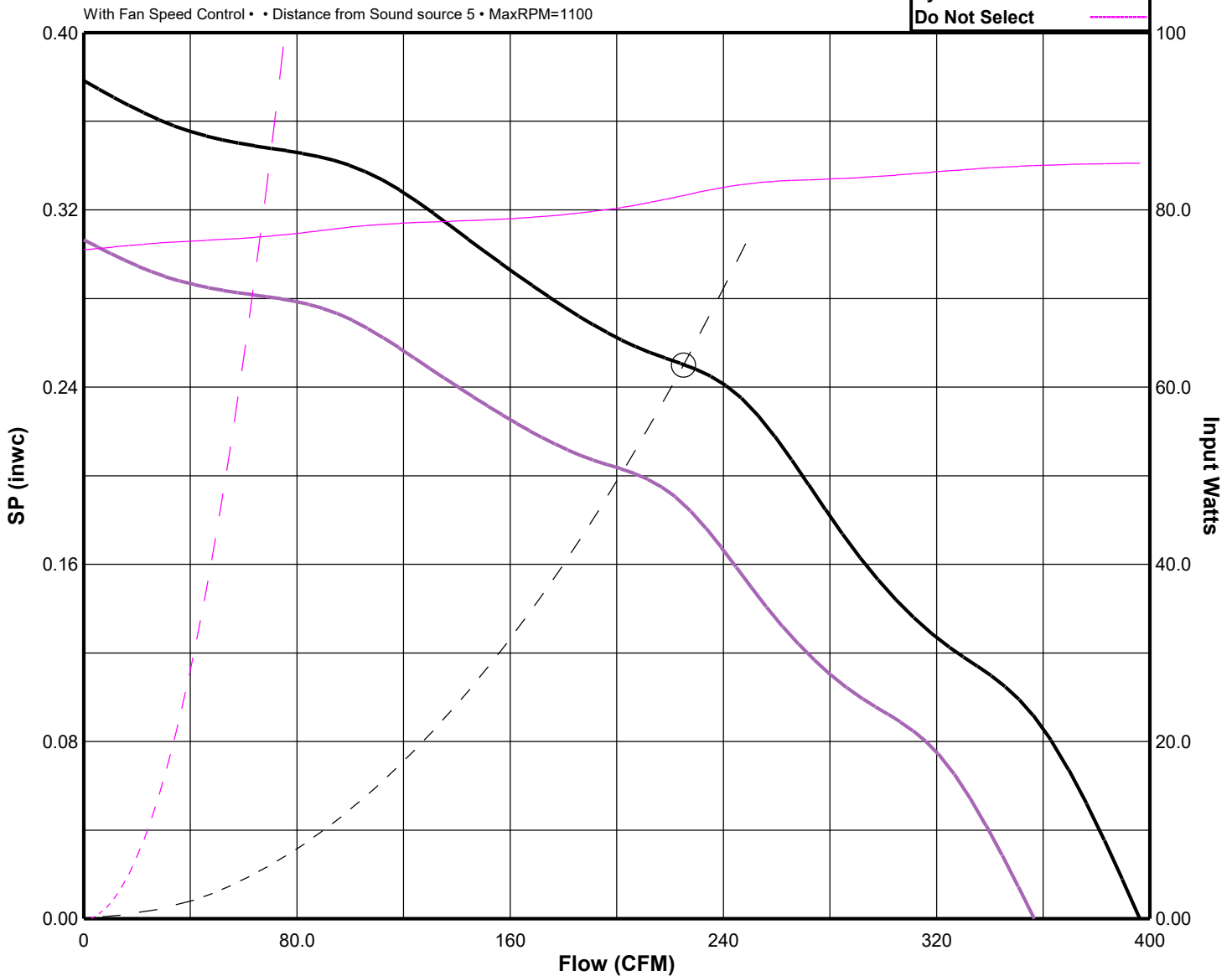
Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Input Watts	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
90C10DM	225	.250	1096	82	n/a(<1HP)	291	2582	27%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
62	61	60	55	48	46	44	50	57	46	4.9

Fan Curve Legend

CFM vs SP	—
100% FSC (1100)	—
- 10%(986)	—
CFM vs Watts	—
Point of Operation	○
System Curve	- - -
Do Not Select	---





COOK

ACE-D

MARK: F-4
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

AMCA License Information

Loren Cook Company certifies that the 90C10DM 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.

Performance certified is for installation type A: free inlet, free outlet. Speed (RPM/RPS) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels. The AMCA International licensed air and/or sound performance data has been modified for installation, appurtenances or accessories, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.

The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to sone ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.





BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

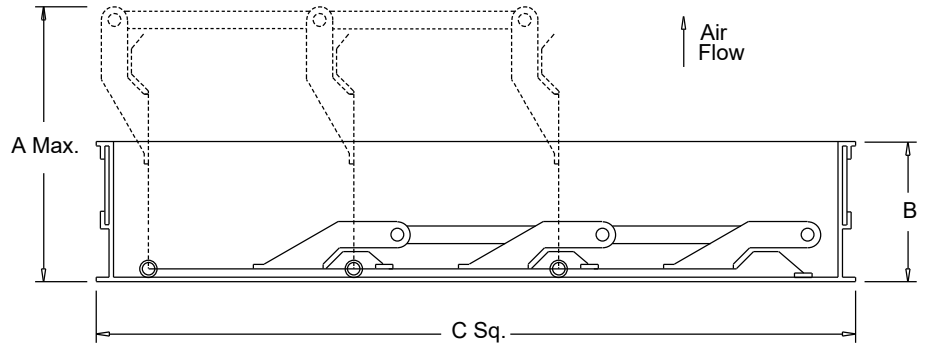
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-4	1	BD-12 DAMPER	5-3/16	1-7/8	11-3/4	1



RCG

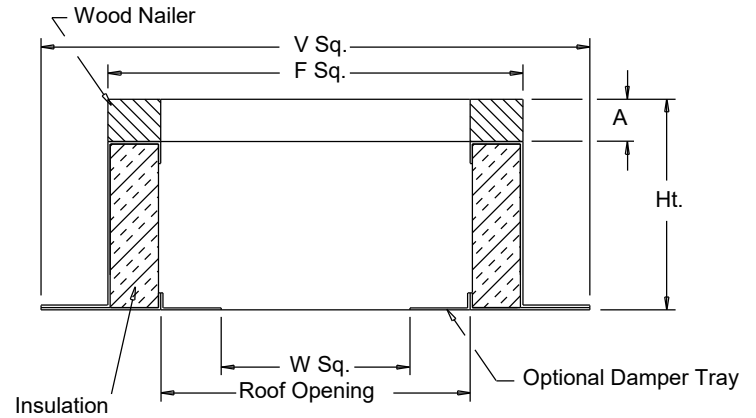
Galvanized Steel Roof Curb

STANDARD CONSTRUCTION FEATURES:

18 gauge galvanized steel - 1-1/2",
 3 lbs. density thermal and acoustical insulation - Continuously welded corners - Wood nailer.

Options:(As noted below*)

- 1) No wood nailer (deduct 1-1/2" for actual height).
- 2) Damper tray.
- 3) Liner.
- 4) Gasket on wood nailer.
- 5) Lorenized coating.
- 6) Enamel coating.
- 7) Burglar bars.



Dimensions (inches)

Mark	Qty	Description	Ht	Options*	A	F Sq.	V Sq.	W Sq.	Roof Opening
F-4	1	RCG 16	18	2; 4;	1-1/2	16-1/2	20-1/2	9-3/4	13-1/2



FSC

Fan Speed Controls

STANDARD CONSTRUCTION FEATURES:

PRODUCT DESCRIPTION - Through the "Quadrac" integrated semi-conductor device it is now possible to offer this system with many advantages. Fewer semi-conductor parts mean greater reliability and the passivation process used in the manufacture of the semi-conductor insures long life.

Printed circuit construction eliminates wiring difficulties and guarantees workmanship.

All of these factors serve to offer the most important of all features - quality.

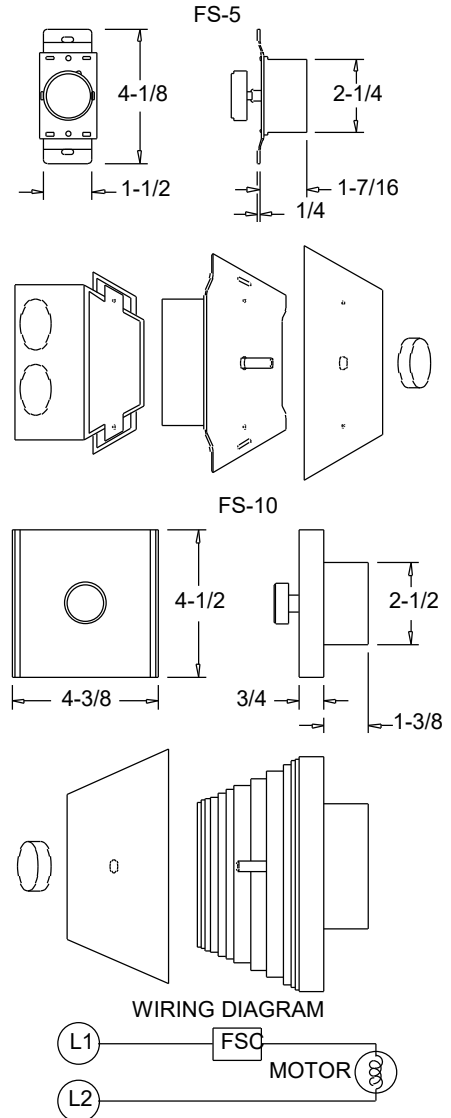
SPEED CONTROL - Positive Off/On action in the control dial. Speed range set to the customer's requirements. **CONTROL RATING** - 120 volts, 60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP, 15 AMP). 220/240 volt, 50/60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP). 220/240 volt model not UL listed. Fan cannot have UL listing if furnished with prewired 220/240 volt FSC. 277 volt, 60 cycles, 1 phase.

Maximum ambient temperature - 120 degree F (5 AMP). **WARNING** - Power must be turned off before installing this unit. **STANDARD INSTALLATION** - Fits any standard single gang box.

Turn off power and connect the two wires on the control to the two switch wires in the usual manner. The connection box is not supplied. **SPECIAL FEATURES** - Complete range control, solid state "Quadrac" integrated circuitry, solid state construction for long reliable operating life, saves on electric bills.

Dimensions (inches)

Mark	Qty	Description
F-4	1	FSC 5A 120V PREWIRED





COOK



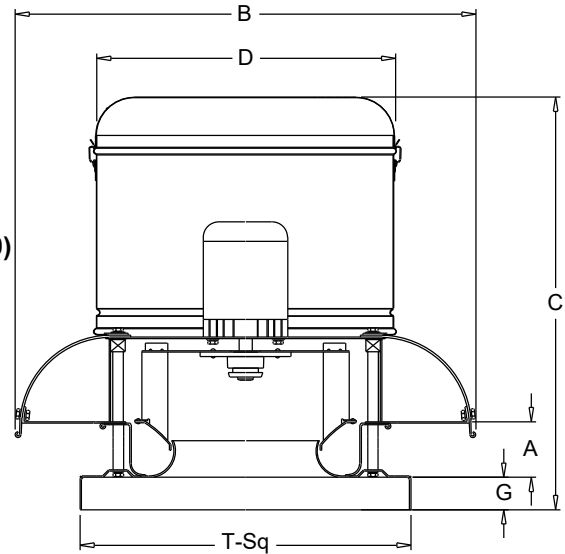
MARK: F-5
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-D

**Downblast Centrifugal Exhaust Ventilator
Roof Mounted/Direct Drive**

STANDARD CONSTRUCTION FEATURES:

All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches (sizes 120 - 300)
- Welded curb cap corners - Birdscreen - Permanently lubricated ball bearing motors - Corrosion resistant fasteners - Transit tested packaging.



Performance

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	Speed Control
1	135C10D	1200	.250	953	.109	n/a(<1HP)	FSC

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	TOL
1/6	1050	115/1/60	ODP -SE	Yes

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
65	68	67	60	59	54	48	43	64	53	6.3

- Distance from Sound source 5 ft

Accessories:

- DISCONNECT NEMA 1 PRE-WIRED
- BD-14 DAMPER
- ROOF CURB RCG 18 18H -C+T+N
- GASKET W/NAILER-CURB
- ALUMINUM BIRDSCREEN
- FAN SPEED CONTROLLER 5A 120V PREWIRED

Dimensions (inches)

A	1-15/16
B O.D.	28-7/16
C	28-11/16
D O.D.	20-3/8
G	2
T Sq.	20
Roof Open. Sq.*	15-1/2

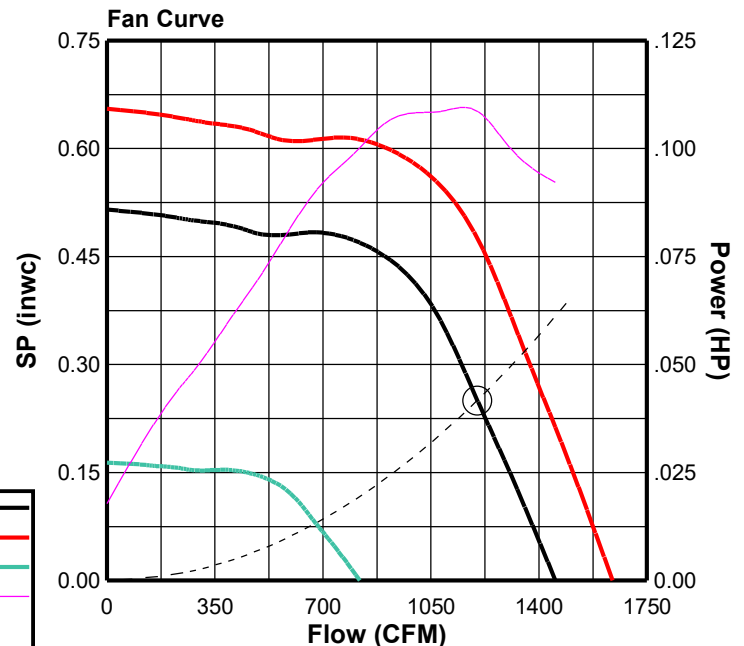
NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping 94	Unit 78
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* Roof opening size for curbs supplied by Cook only.
***Includes fan, motor & accessories.

Fan Curve Legend

CFM vs SP (953)	—
100% FSC (1075)	—
Min FSC (537.5)	—
CFM vs HP	—
Point of Operation	○
System Curve	-----





COOK



MARK: F-5

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

ACE-D

Performance

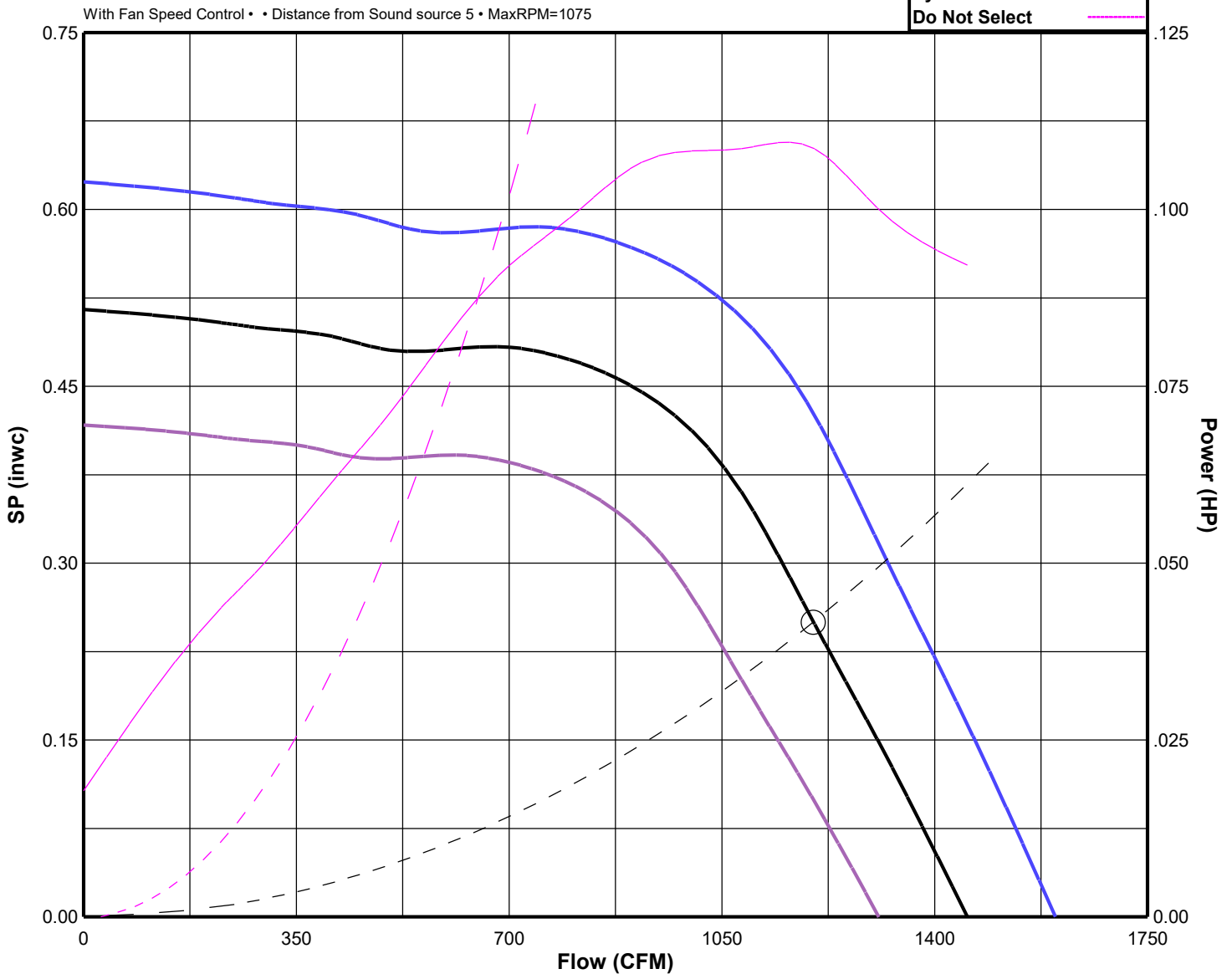
Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
135C10D	1200	.250	953	.109	n/a(<1HP)	997	3368	43%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
65	68	67	60	59	54	48	43	64	53	6.3

Fan Curve Legend

CFM vs SP	—
+ 10%(1048)	—
- 10%(858)	—
CFM vs HP	—
Point of Operation	○
System Curve	- - -
Do Not Select	—





COOK

ACE-D

MARK: F-5

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

AMCA License Information

Loren Cook Company certifies that the 135C10D 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.

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 hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels. The AMCA International licensed air and/or sound performance data has been modified for installation, appurtenances or accessories, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.

The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to sone ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.





BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

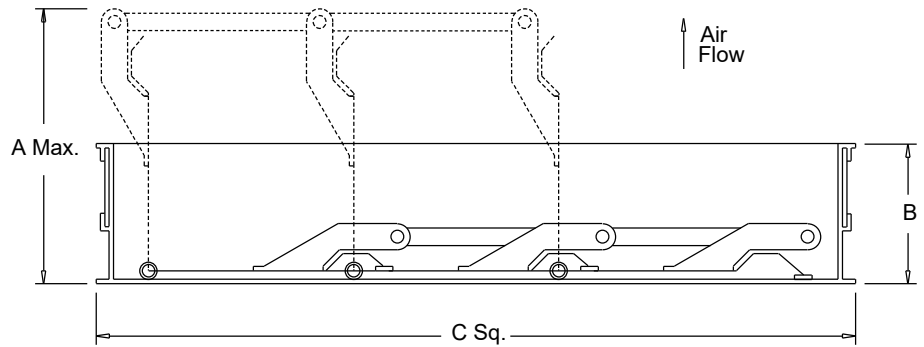
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-5	1	BD-14 DAMPER	5-3/16	1-7/8	13-3/4	1



RCG

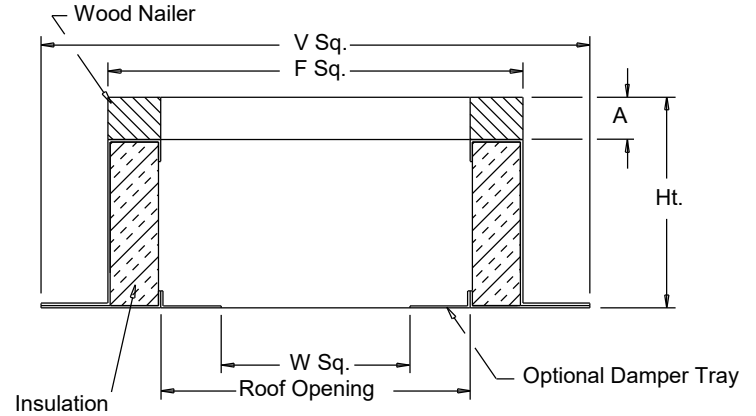
Galvanized Steel Roof Curb

STANDARD CONSTRUCTION FEATURES:

18 gauge galvanized steel - 1-1/2",
3 lbs. density thermal and acoustical
insulation - Continuously welded corners -
Wood nailer.

Options:(As noted below*)

- 1) No wood nailer (deduct 1-1/2" for actual height).
- 2) Damper tray.
- 3) Liner.
- 4) Gasket on wood nailer.
- 5) Lorenized coating.
- 6) Enamel coating.
- 7) Burglar bars.



Dimensions (inches)

Mark	Qty	Description	Ht	Options*	A	F Sq.	V Sq.	W Sq.	Roof Opening
F-5	1	RCG 18	18	2; 4;	1-1/2	18-1/2	22-1/2	11-3/4	15-1/2



FSC

Fan Speed Controls

STANDARD CONSTRUCTION FEATURES:

PRODUCT DESCRIPTION - Through the "Quadrac" integrated semi-conductor device it is now possible to offer this system with many advantages. Fewer semi-conductor parts mean greater reliability and the passivation process used in the manufacture of the semi-conductor insures long life.

Printed circuit construction eliminates wiring difficulties and guarantees workmanship.

All of these factors serve to offer the most important of all features - quality.

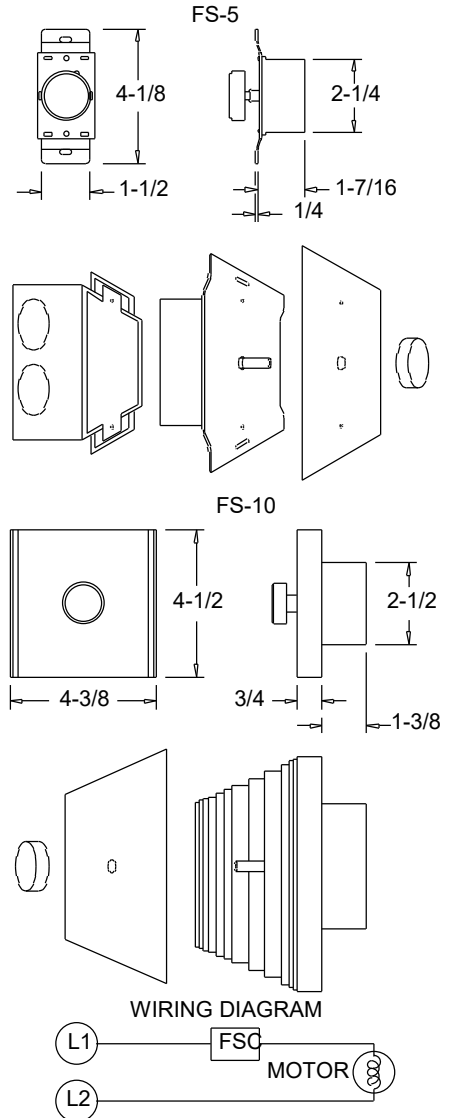
SPEED CONTROL - Positive Off/On action in the control dial. Speed range set to the customer's requirements. **CONTROL RATING** - 120 volts, 60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP, 15 AMP). 220/240 volt, 50/60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP). 220/240 volt model not UL listed. Fan cannot have UL listing if furnished with prewired 220/240 volt FSC. 277 volt, 60 cycles, 1 phase.

Maximum ambient temperature - 120 degree F (5 AMP). **WARNING** - Power must be turned off before installing this unit. **STANDARD INSTALLATION** - Fits any standard single gang box.

Turn off power and connect the two wires on the control to the two switch wires in the usual manner. The connection box is not supplied. **SPECIAL FEATURES** - Complete range control, solid state "Quadrac" integrated circuitry, solid state construction for long reliable operating life, saves on electric bills.

Dimensions (inches)

Mark	Qty	Description
F-5	1	FSC 5A 120V PREWIRED





COOK

MARK: F-6

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025



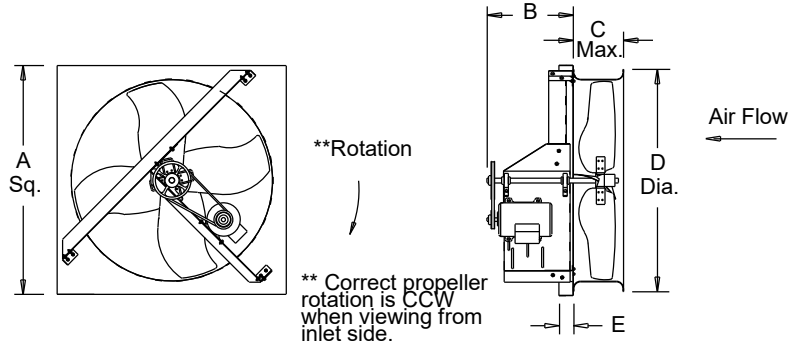
XMW-Supply

Medium-Pressure
Wall Supply Fan
Steel Propeller

Belt Drive

STANDARD CONSTRUCTION FEATURES:

X-stream steel propeller - Propeller hub keyed to shaft - Propellers are statically and dynamically balanced - Double spun venturi - Welded wall base corners - Lorenized powder paint finish - Regreasable bearings in a cast housing rated at 200,000 hours average life - Adjustable pitch drives through 5 hp - Corrosion resistant fasteners - Static resistant belts - All fans factory adjusted to specified fan RPM.



Performance (*Bhp includes 16% drive loss)

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG
1	20XMWS	2000	.250	917	.217	n/a(<1HP)

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	Mounted
1/4	1725	115/1/60	ODP -SE	5.8	Yes

FLA based on NEC (2017) Table 430.248

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
83	82	76	71	66	63	59	53	74	62	12.9

- Distance from Sound source 5 ft

Accessories:

- DRIVES (1.5 SF) @ 917 RPM
- DISCONNECT NEMA 1 PRE-WIRED
- MOTORIZED CTR PIVOT (HVY-DUTY) -22 115V
- WALL COLLAR
- WIREGUARD-MOTOR SIDE
- WEATHER HOOD-STL 45D

Dimensions (inches)

A Sq.	24-3/16
B	14-5/16
C	6-5/8
D Dia.	23-3/8
E	2
Wall Opening*	24-7/16

NOTE: Accessories may affect dimensions shown.

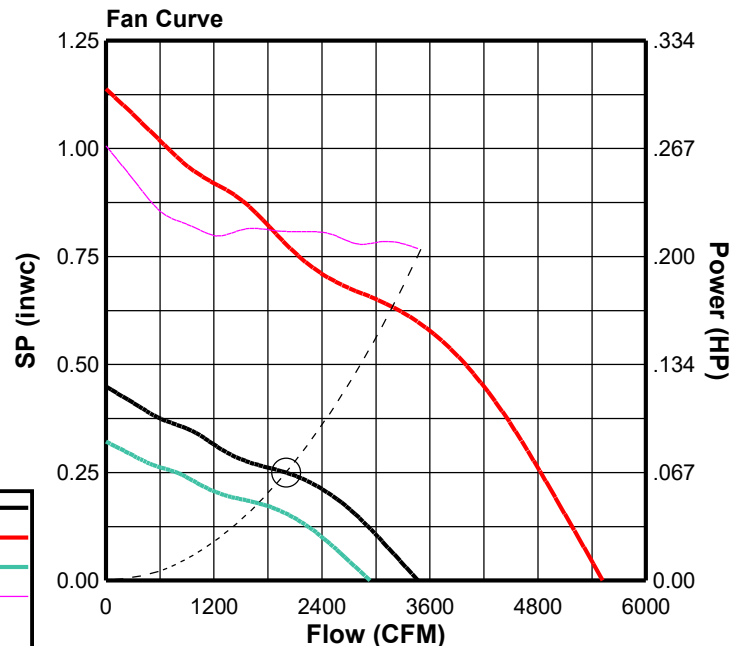
Weight(lbs)***	Shipping	323	Unit	169
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* See wire guard or wall collar submittal for accessory wall opening.
***Includes fan, motor & accessories.

Provide Gravity Backdraft Damper, Hanging brackets with vibration isolation per accessories note on drawing M002 Fan Schedule

Fan Curve Legend

CFM vs SP (917)	— (Black)
MaxRPM(1460)	— (Red)
MinRPM(776)	— (Cyan)
CFM vs HP	— (Magenta)
Point of Operation	○ (Circle)
System Curve	- - - (Dashed)





COOK

MARK: F-6

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

XMW-Supply

Performance (*Bhp includes 16% drive loss)

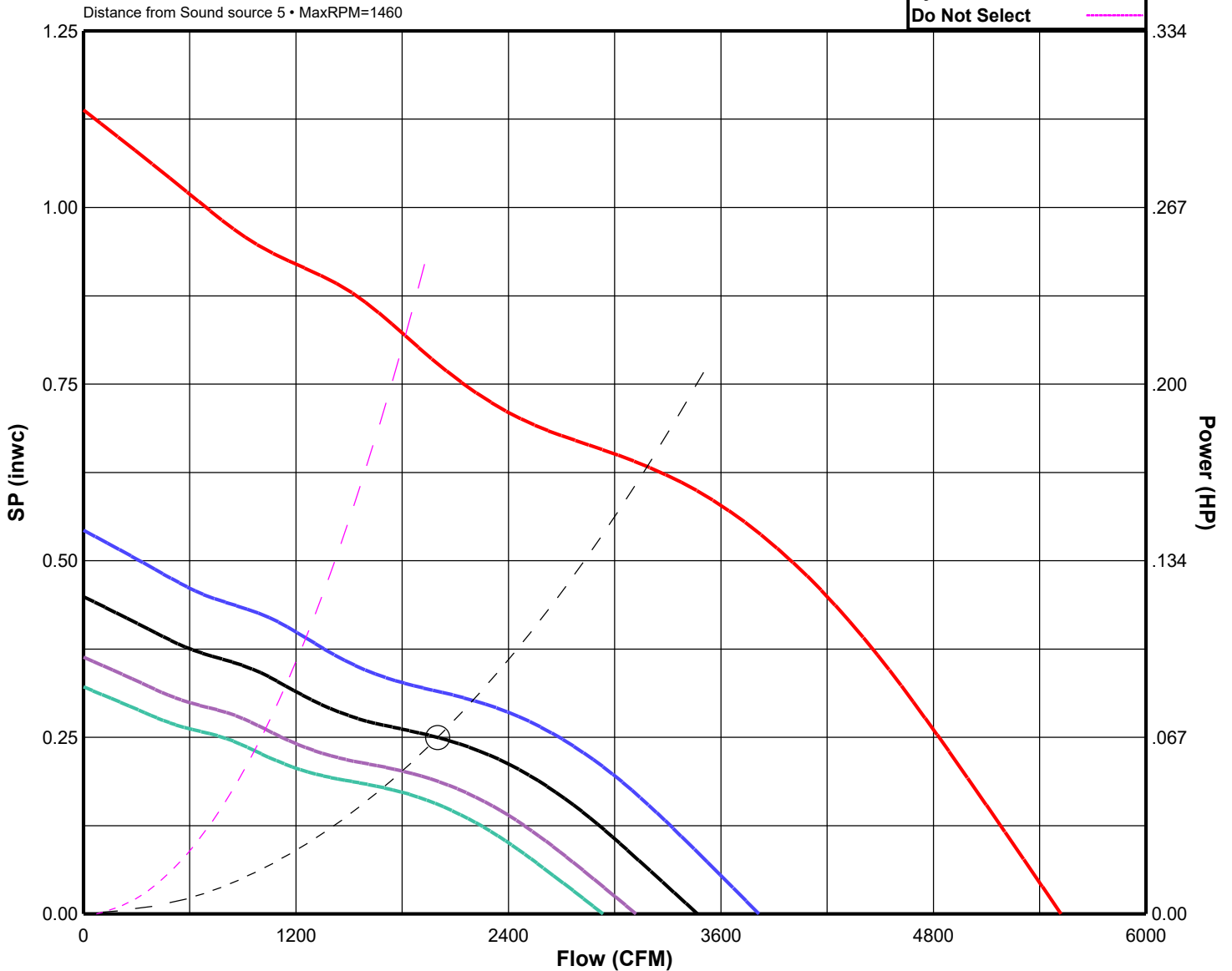
Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
20XMWS	2000	.250	917	.217	n/a(<1HP)	872	4876	42%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
83	82	76	71	66	63	59	53	74	62	12.9

Fan Curve Legend

- CFM vs SP (917) ———
- MaxRPM(1460) ———
- MinRPM(776) ———
- + 10%(1009) ———
- 10%(825) ———
- CFM vs HP ———
- Point of Operation ○
- System Curve - - - - -
- Do Not Select - - - - -





COOK

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

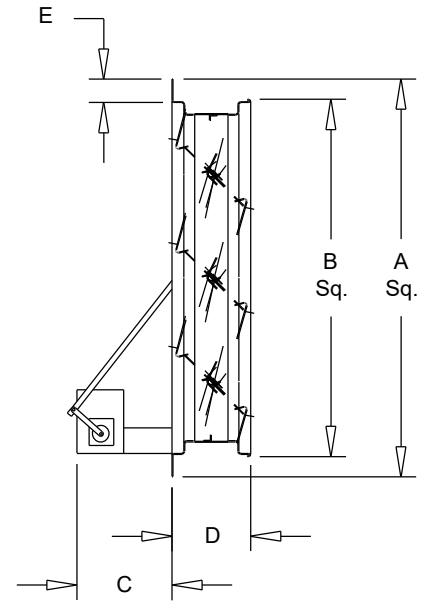
MIC

Motorized Center Pivot Intake Shutter

NOTES:

The Model MIC shutters are designed to reduce backdrafts, prevent entry of some foreign material and pests, such as birds, and limit the amount of rain that enters the building. These shutters are intended to be weather-resistant, but are not weather-proof for extreme conditions.

- 1) Shutter sizes are the same for units with or without wall collars.
- 2) Shutter is motorized open - spring return.
- 3) Motors are non-overloading type. Available voltages - 24V AC/DC, 115-1PH, 230-1PH. 230V-3PH and 460V-3PH are provided as 115V-1PH with a transformer.
- 4) All galvanized steel construction: Blades 16. ga; Frame 16 ga.



Dimensions (inches)

Mark	Qty	Description	A Sq.	B Sq.	C	D	E	# Motors
F-6	1	MIC-22 115V	25	22	7-7/8	5	1-1/2	1



COOK

PROJECT: COLTRANE - WEBB

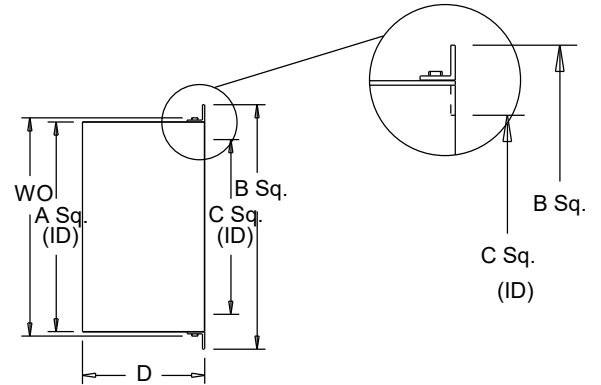
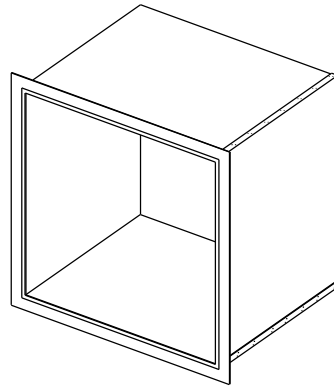
DATE: 3/19/2025

WALL COLLAR

Propeller Wall Fans

NOTES:

Fasteners should be placed on 6 to 10 inch centers on the perimeter of the wall collar.
Wall collar should be caulked to the exterior of the wall.



Dimensions (inches)

Mark	Qty	Description	A Sq.	B Sq.	C Sq.	D	WO
F-6	1	WALL COLLAR	24-1/4	27-1/2	22-3/8	17-1/2	25-1/4



COOK

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

WIRE GUARD

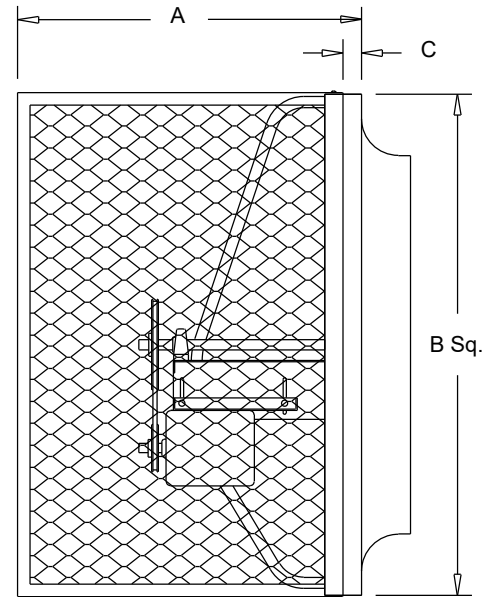
Motor Side Propeller Wall Ventilators

STANDARD CONSTRUCTION FEATURES:

14 Ga. steel frame - 1/2" X 1" X 16 Ga.
expanded metal screen - Lorenized finish -
Removable end panel - Sheet metal screws
attach wire guard to fan, shipped
assembled on fan.

NOTES:

* A & B Sq. are to outside of fasteners on wire guard.



Dimensions (inches)

Mark	Qty	Description	A	B Sq.*	C
F-6	1	WIREGUARD-MOTOR SIDE	21-9/16	25	1



COOK

PROJECT: COLTRANE - WEBB

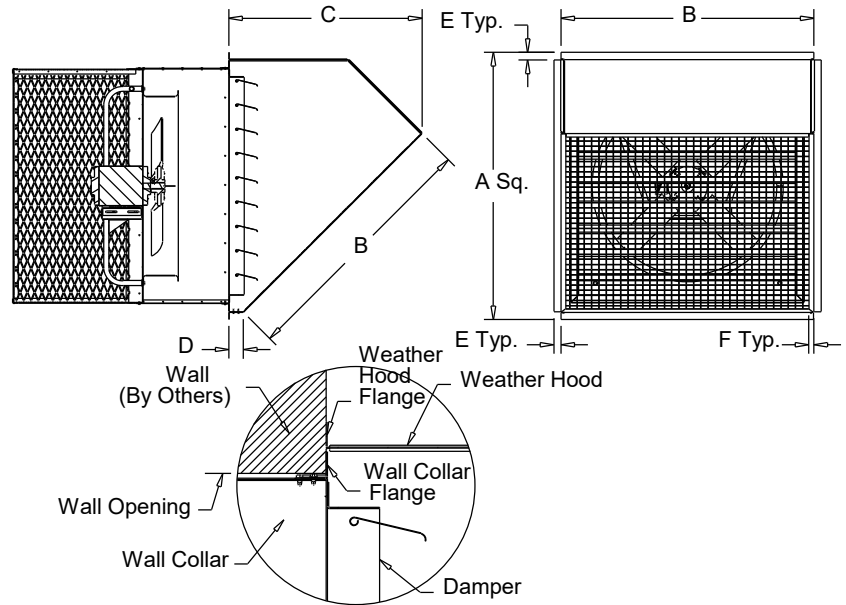
DATE: 3/19/2025

WEATHER HOOD

Propeller Wall Fans

NOTES:

Minimum 18 ga. galvanized steel construction
 1/2" galvanized mesh bird screen - The weather hood attaches directly to the wall. It does not connect to the wall collar or PAC housing. - The weather hood should be securely fastened and sealed to the wall.



Dimensions (inches)

Mark	Qty	Description	A Sq.	B	C	D	E	F	Hood Free Area (Sq. Ft.)
F-6	1	WEATHER HOOD-STL 45D	33	30	24-1/4	3	1-1/2	1	5.4



COOK



MARK: F-7
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

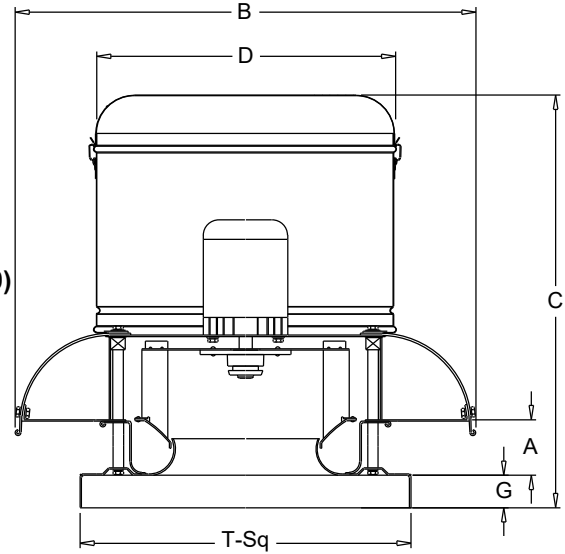
ACE-D VF

**Downblast Centrifugal Exhaust Ventilator
Roof Mounted/Direct Drive**

Electronically Commutated Vari-Flow® Motor

STANDARD CONSTRUCTION FEATURES:

- All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches (sizes 120 - 300)
- Welded curb cap corners - Birdscreen - Permanently lubricated ball bearing motors - Corrosion resistant fasteners - Transit tested packaging.



Performance

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	Speed Control
1	101C17D (VF)	700	.500	1624	.122	n/a(<1HP)	EC

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM*	Volts/Ph/Hz	Enclosure	RLA
1/6	1725	115/1/60	OPEN -EC	2.4



*Motor programmed to max speed of 1725 RPM.
RLA based on motor manufacturer's data at programmed HP and max RPM.
Motor is electronically/thermally protected.

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
70	71	75	69	63	60	54	50	71	59	9.6

- Distance from Sound source 5 ft

Accessories:

- EXTERNAL SIGNAL SPEED CONTROL
- CTL & XFMR BY OTHERS
- DISCONNECT NEMA 1 PRE-WIRED
- BD-12 DAMPER
- ROOF CURB RCG 16 18H -C+T+N
- GASKET W/NAILER-CURB

Provide Gravity Backdraft Damper, Hanging brackets with vibration isolation per accessories note on drawing M002 Fan Schedule

Fan Curve Legend

CFM vs SP (1624)	—
100% EC (1725)	—
Min EC (466)	—
CFM vs HP	—
Point of Operation	○
System Curve	---

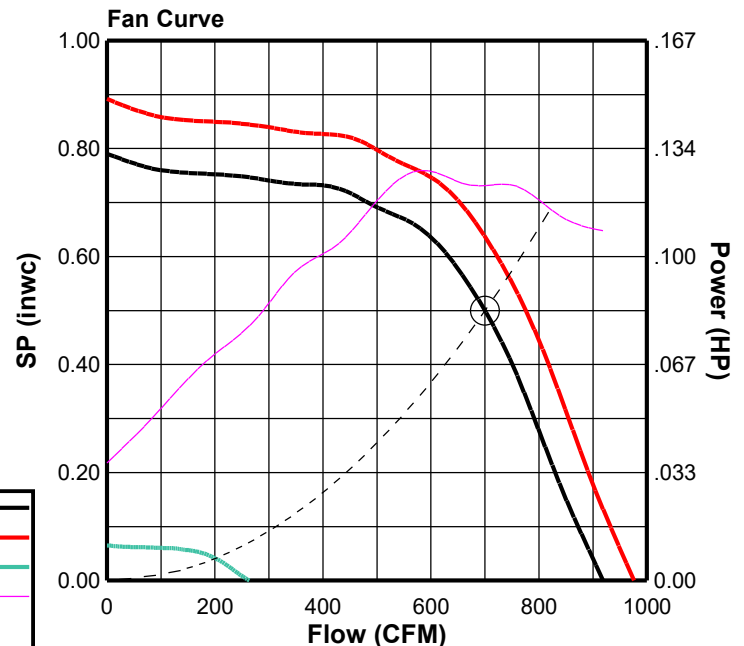
Dimensions (inches)

A	2-3/8
B O.D.	23-9/16
C	21-1/8
D O.D.	16-3/4
G	2
T Sq.	18
Roof Open. Sq.*	13-1/2

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	69	Unit	51
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* Roof opening size for curbs supplied by Cook only.
***Includes fan, motor & accessories.





COOK



MARK: F-7
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-D VF

Performance

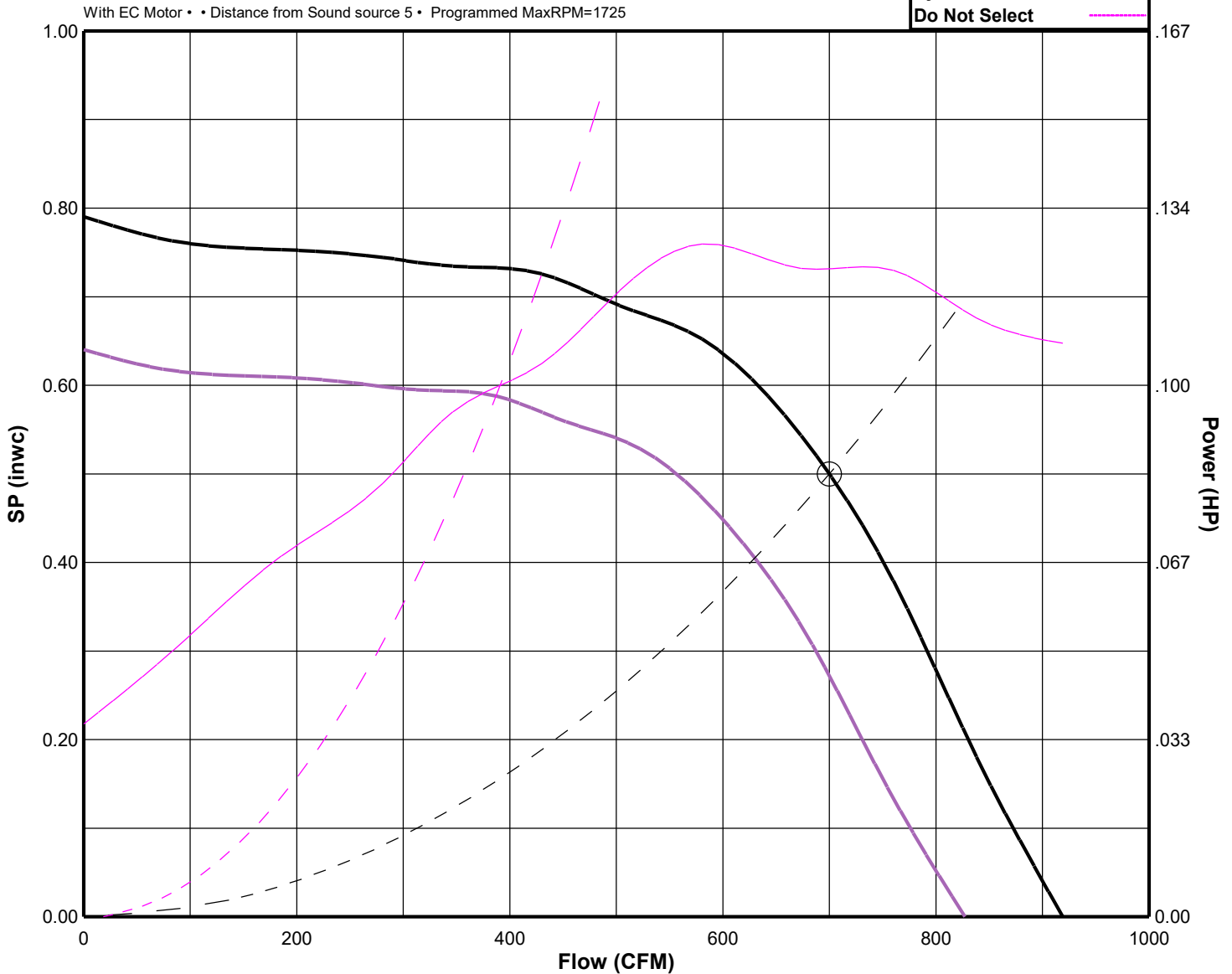
Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
101C17D (VF)	700	.500	1624	.122	n/a(<1HP)	1070	4251	45%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
70	71	75	69	63	60	54	50	71	59	9.6

Fan Curve Legend

CFM vs SP	—
100% EC (1725)	—
CFM vs HP	—
Point of Operation	○
System Curve	- - -
Do Not Select	—





ACE-D VF

MARK: F-7
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

AMCA License Information



Loren Cook Company certifies that the 101C17D 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.

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 hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels.



The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to sone ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.



COOK

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

Speed Control

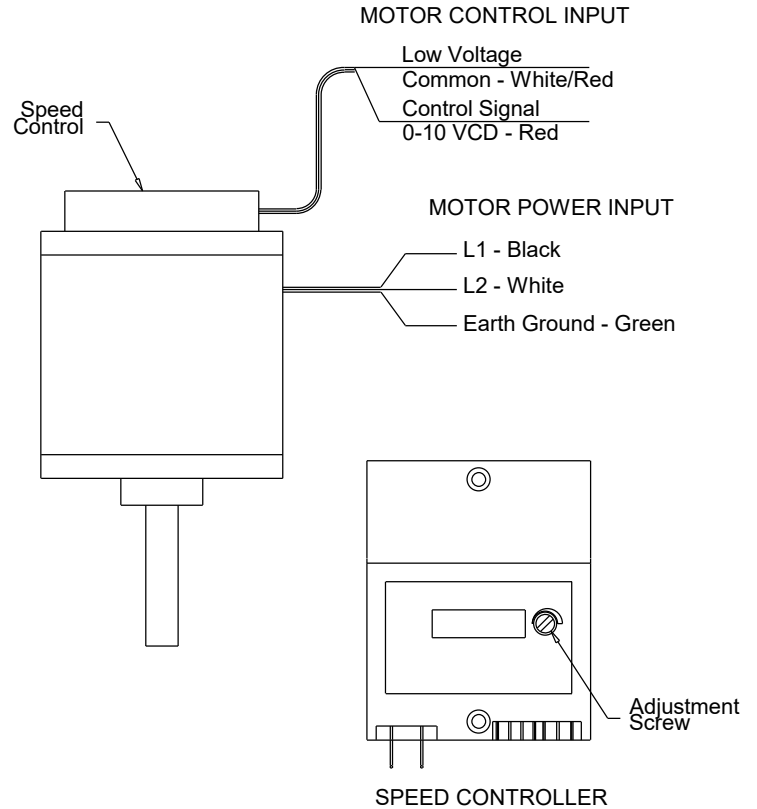
External Speed Control Electronically Commutated (EC) Motor Type N

STANDARD CONSTRUCTION FEATURES:

Vari-Flow EC Motors are available in 1/8 to 1 HP for 120V or 208-230V -Single phase applications have a adjustable speed range of 500 to 1725 or 500 to 2800 - Some motors come with a factory programmed maximum RPM for specific applications - External signal speed control requires a 0-10 VDC control signal to adjust speed of the motor - The motor will operate from 2-10 VDC and turns off when the control signal is below 1.9 VDC - Dial on speed control must be set to 0 for proper external speed control operation.

Dimensions (inches)

Mark	Qty	Description
F-7	1	OPEN -1/6HP - 115V/1 PH/ 60 1725/0000 -EC





BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

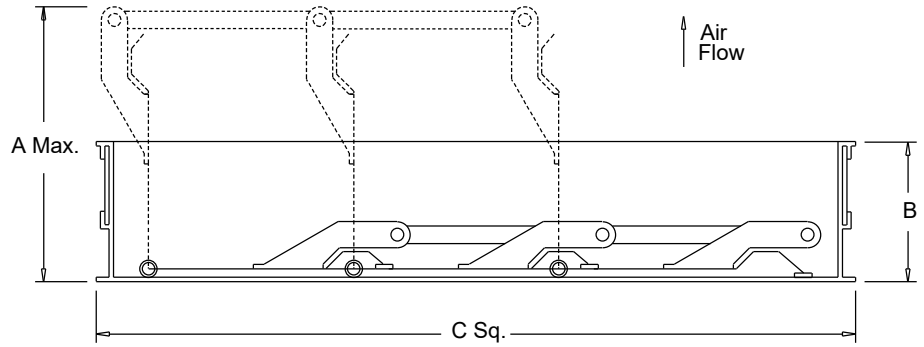
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-7	1	BD-12 DAMPER	5-3/16	1-7/8	11-3/4	1



RCG

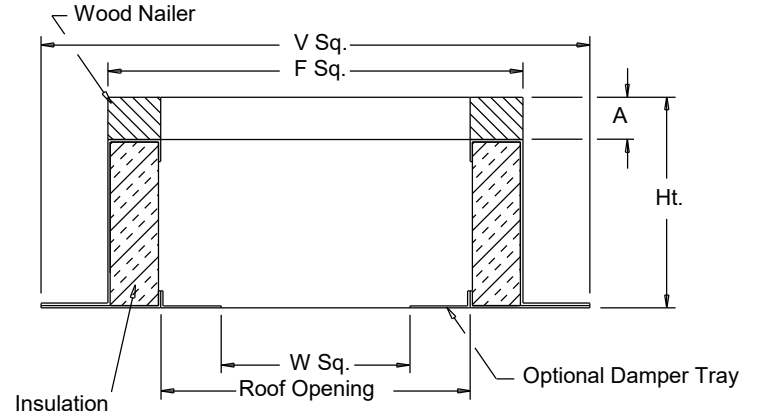
Galvanized Steel Roof Curb

STANDARD CONSTRUCTION FEATURES:

18 gauge galvanized steel - 1-1/2",
 3 lbs. density thermal and acoustical insulation - Continuously welded corners - Wood nailer.

Options:(As noted below*)

- 1) No wood nailer (deduct 1-1/2" for actual height).
- 2) Damper tray.
- 3) Liner.
- 4) Gasket on wood nailer.
- 5) Lorenized coating.
- 6) Enamel coating.
- 7) Burglar bars.



Dimensions (inches)

Mark	Qty	Description	Ht	Options*	A	F Sq.	V Sq.	W Sq.	Roof Opening
F-7	1	RCG 16	18	2; 4;	1-1/2	16-1/2	20-1/2	9-3/4	13-1/2



COOK



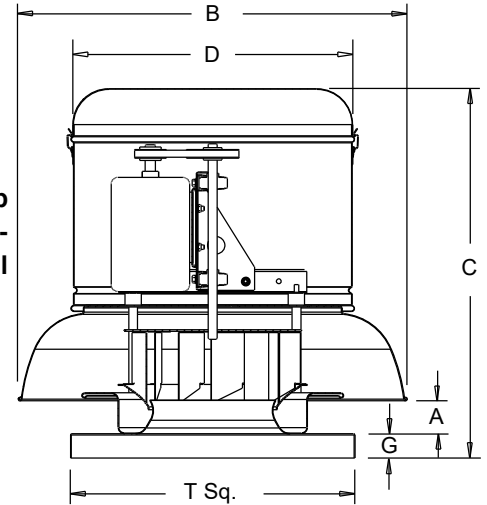
MARK: F-8
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-B

**Downblast Centrifugal Exhaust Ventilator
Roof Mounted/Belt Drive**

STANDARD CONSTRUCTION FEATURES:

All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches - Welded curb cap corners - Birdscreen - Vibration isolators - Lifting Lugs - Permanently lubricated ball bearing motors - Oil and heat resistant, static conducting belts - Adjustable pitch drives through 5 hp motor - Corrosion resistant fasteners - Regreasable bearings in a cast iron pillow block housing, rated at 200,000 hours average life - All fans factory adjusted to specified fan RPM - Transit tested packaging - Standard motors ship factory installed.



Performance (*Bhp includes 15% drive loss)

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG
1	120C5B	1600	.250	1613	.305	n/a(<1HP)

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	Mounted
1/2	1725	115/1/60	ODP -SE	9.8	Yes

FLA based on NEC (2017) Table 430.248

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
74	76	80	73	68	68	61	55	76	65	13.2

- Distance from Sound source 5 ft

Accessories:

- DRIVES (1.5 SF) @ 1613 RPM
- DISCONNECT NEMA 1 PRE-WIRED
- BD-14 DAMPER
- ROOF CURB RCG 18 18H -C+T+N
- GASKET W/NAILER-CURB

Dimensions (inches)

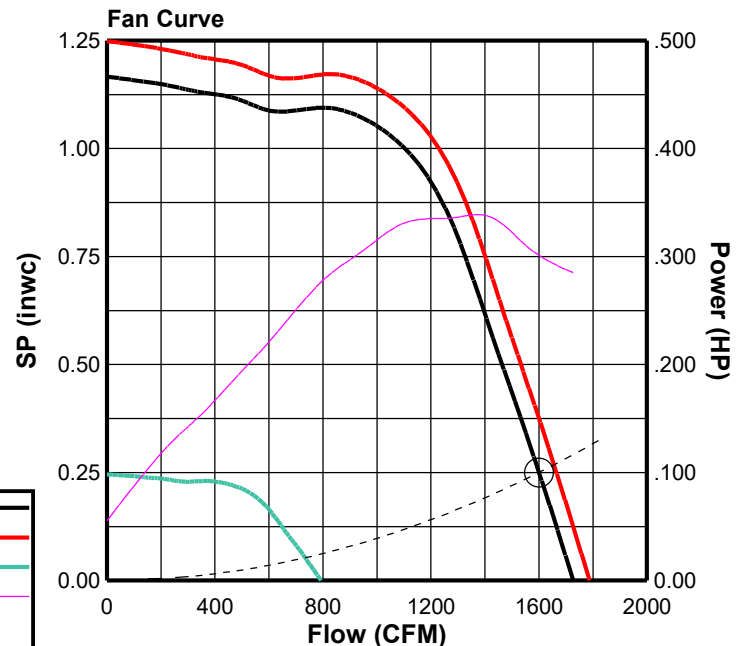
A	1-13/16
B	28-7/16
C	26-7/8
D	20-5/16
G	2
T Sq.	20
Roof Open.Sq.*	15-1/2

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	121	Unit	105
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*Roof opening size for curbs supplied by Cook only.

***Includes fan, motor & accessories.





COOK



MARK: F-8
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-B

Performance (*Bhp includes 15% drive loss)

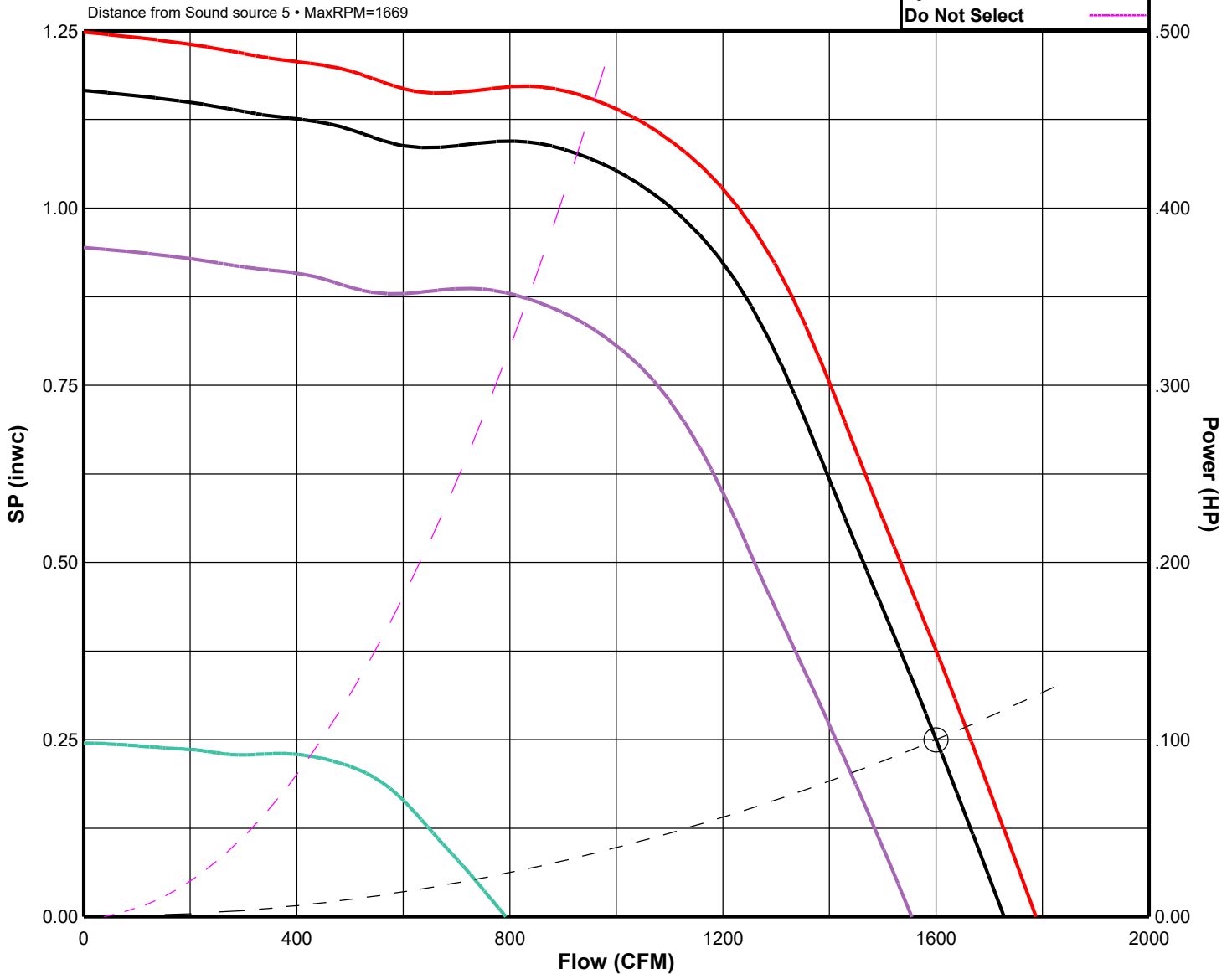
Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
120C5B	1600	.250	1613	.305	n/a(<1HP)	1685	5067	24%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
74	76	80	73	68	68	61	55	76	65	13.2

Fan Curve Legend

- CFM vs SP (1613) ———
- MaxRPM(1669) ———
- MinRPM(740) ———
- 10%(1452) ———
- CFM vs HP ———
- Point of Operation ○
- System Curve - - - - -
- Do Not Select - - - - -





COOK

ACE-B

MARK: F-8

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

AMCA License Information



Loren Cook Company certifies that the 120C5B 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.

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 hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels. The AMCA International licensed air and/or sound performance data has been modified for installation, appurtenances or accessories, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.



The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to sone ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.



BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

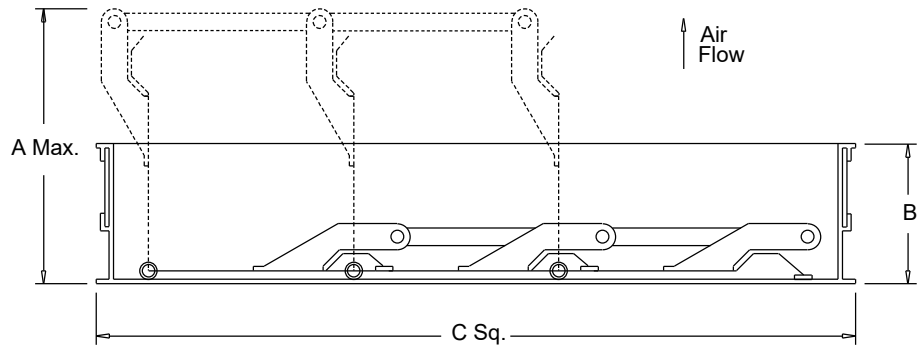
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-8	1	BD-14 DAMPER	5-3/16	1-7/8	13-3/4	1



RCG

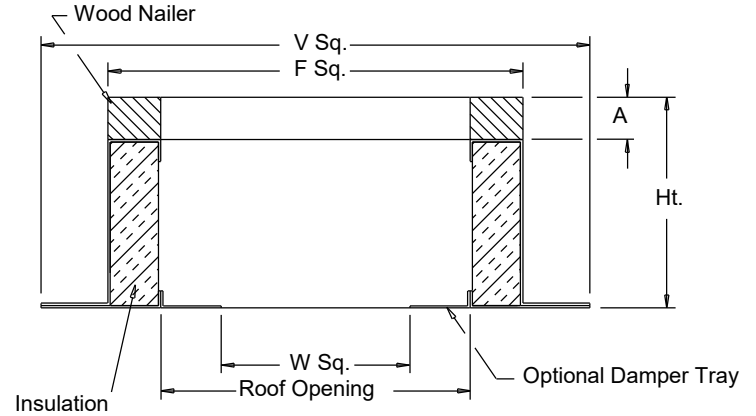
Galvanized Steel Roof Curb

STANDARD CONSTRUCTION FEATURES:

18 gauge galvanized steel - 1-1/2",
 3 lbs. density thermal and acoustical insulation - Continuously welded corners - Wood nailer.

Options:(As noted below*)

- 1) No wood nailer (deduct 1-1/2" for actual height).
- 2) Damper tray.
- 3) Liner.
- 4) Gasket on wood nailer.
- 5) Lorenized coating.
- 6) Enamel coating.
- 7) Burglar bars.



Dimensions (inches)

Mark	Qty	Description	Ht	Options*	A	F Sq.	V Sq.	W Sq.	Roof Opening
F-8	1	RCG 18	18	2; 4;	1-1/2	18-1/2	22-1/2	11-3/4	15-1/2



COOK



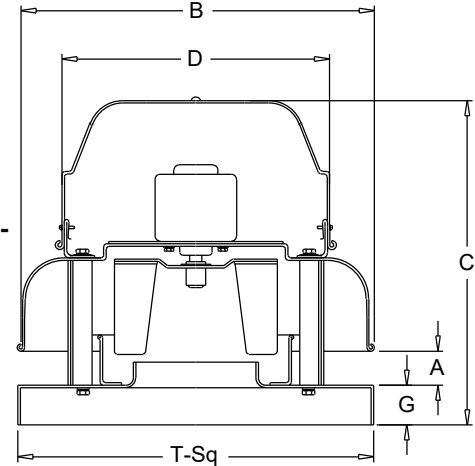
MARK: F-9
PROJECT: COLTRANE - WEBB
DATE: 3/20/2025

ACE-D

**Downblast Centrifugal Exhaust Ventilator
Roof Mounted/Direct Drive**

STANDARD CONSTRUCTION FEATURES:

All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches (sizes 120 - 300) - Welded curb cap corners - Birdscreen - Permanently lubricated ball bearing motors - Corrosion resistant fasteners - Transit tested packaging.



Performance

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Input Watts	FEG	Speed Control
1	100C10DH	150	.350	1006	75	n/a(<1HP)	FSC

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	TOL
1/25	1050	115/1/60	ODP -SE	Yes

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
64	70	64	54	48	46	43	42	60	48	5.1

- Distance from Sound source 5 ft

Accessories:

- DISCONNECT NEMA 1 PRE-WIRED
- BD-12 DAMPER
- ROOF CURB RCG 16 18H -C+T+N
- GASKET W/NAILER-CURB
- ALUMINUM BIRDSCREEN
- FAN SPEED CONTROLLER 5A 120V PREWIRED

Dimensions (inches)

A	2-1/2
B O.D.	18-3/4
C	16-13/16
D O.D.	16-3/4
G	2
T Sq.	18
Roof Open. Sq.*	13-1/2

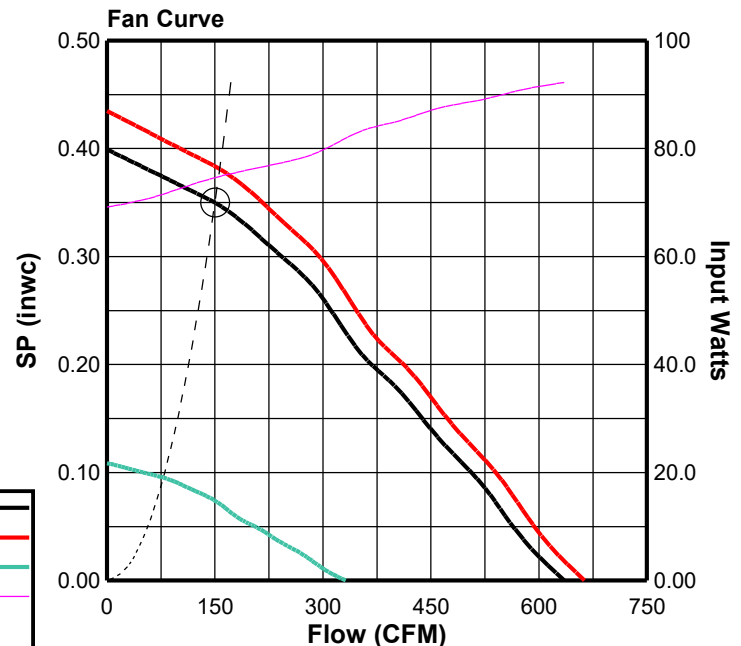
NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	68	Unit	60
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* Roof opening size for curbs supplied by Cook only.
***Includes fan, motor & accessories.

Fan Curve Legend

CFM vs SP (1006)	—
100% FSC (1050)	—
Min FSC (525)	—
CFM vs Watts	—
Point of Operation	○
System Curve	---





COOK



MARK: F-9
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-D

Performance

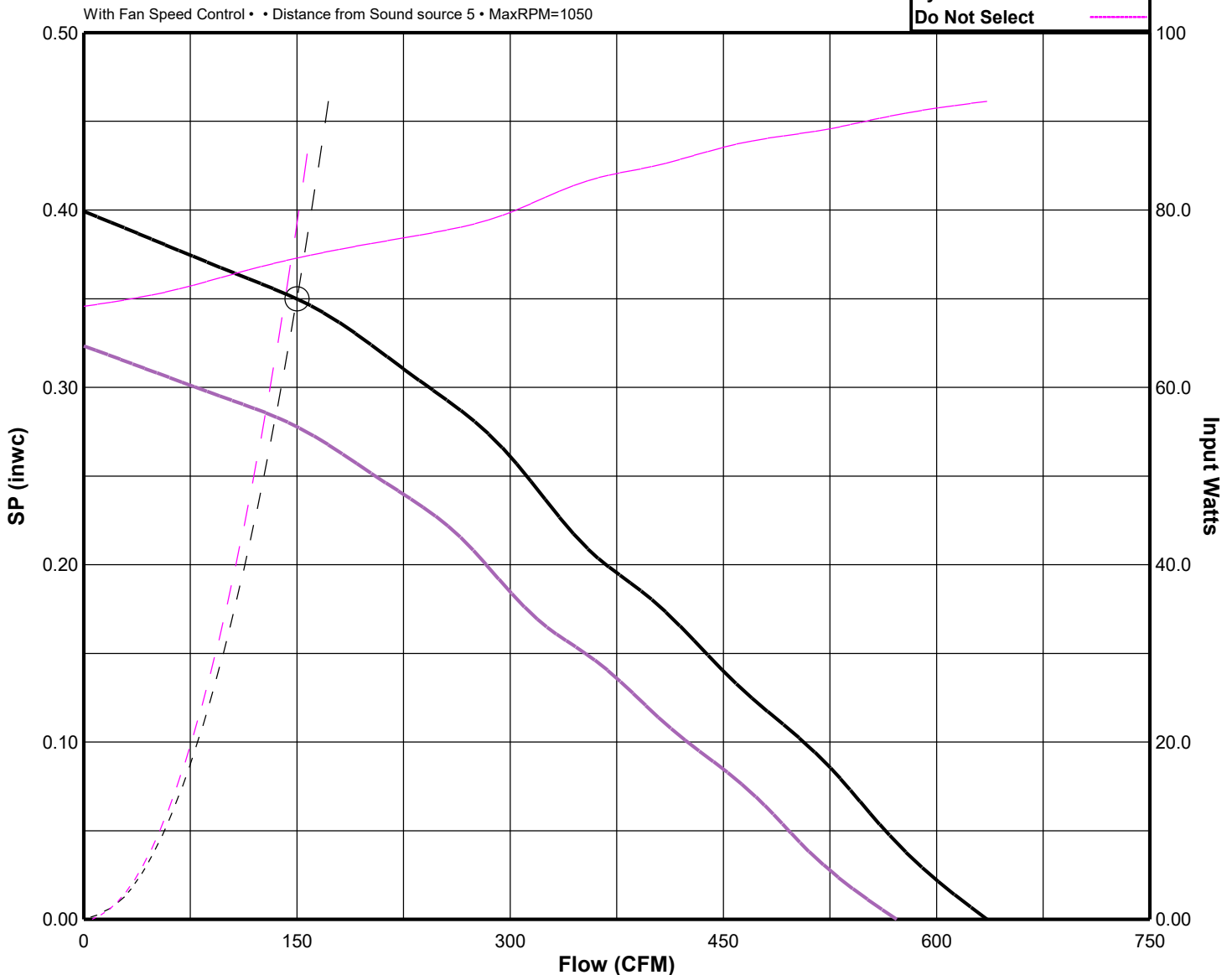
Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Input Watts	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
100C10DH	150	.350	1006	75	n/a(<1HP)	175	2633	28%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
64	70	64	54	48	46	43	42	60	48	5.1

Fan Curve Legend

CFM vs SP	—
100% FSC (1050)	—
- 10%(905)	—
CFM vs Watts	—
Point of Operation	○
System Curve	- - -
Do Not Select	—





COOK

ACE-D

MARK: F-9

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

AMCA License Information

Loren Cook Company certifies that the 100C10DH 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.

Performance certified is for installation type A: free inlet, free outlet. Speed (RPM/RPS) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels. The AMCA International licensed air and/or sound performance data has been modified for installation, appurtenances or accessories, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.

The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to sone ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.





BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

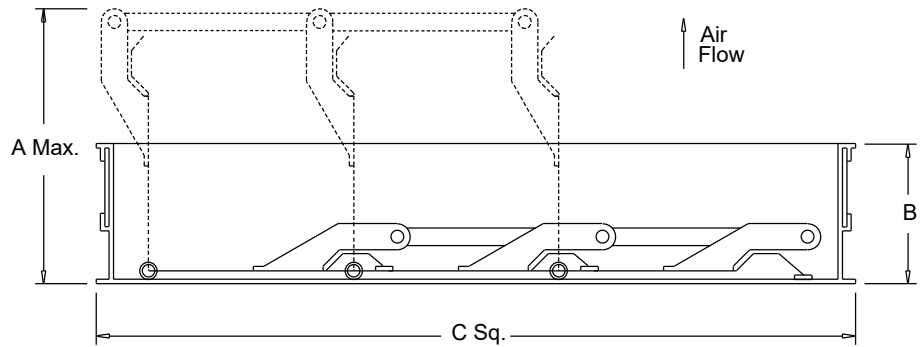
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-9	1	BD-12 DAMPER	5-3/16	1-7/8	11-3/4	1



RCG

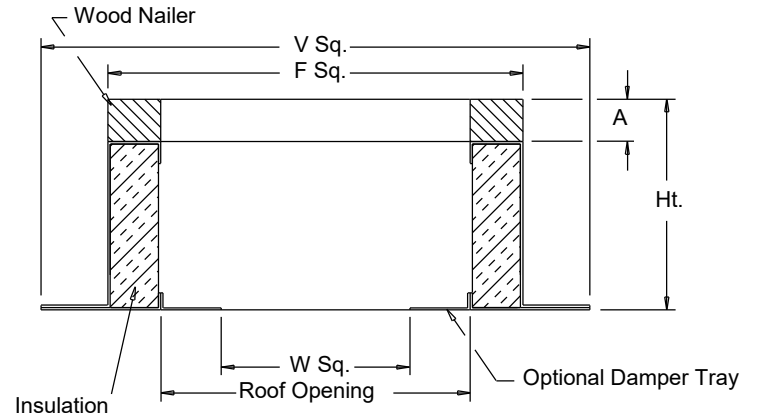
Galvanized Steel Roof Curb

STANDARD CONSTRUCTION FEATURES:

18 gauge galvanized steel - 1-1/2",
3 lbs. density thermal and acoustical
insulation - Continuously welded corners -
Wood nailer.

Options:(As noted below*)

- 1) No wood nailer (deduct 1-1/2" for actual height).
- 2) Damper tray.
- 3) Liner.
- 4) Gasket on wood nailer.
- 5) Lorenized coating.
- 6) Enamel coating.
- 7) Burglar bars.



Dimensions (inches)

Mark	Qty	Description	Ht	Options*	A	F Sq.	V Sq.	W Sq.	Roof Opening
F-9	1	RCG 16	18	2; 4;	1-1/2	16-1/2	20-1/2	9-3/4	13-1/2



FSC

Fan Speed Controls

STANDARD CONSTRUCTION FEATURES:

PRODUCT DESCRIPTION - Through the "Quadrac" integrated semi-conductor device it is now possible to offer this system with many advantages. Fewer semi-conductor parts mean greater reliability and the passivation process used in the manufacture of the semi-conductor insures long life.

Printed circuit construction eliminates wiring difficulties and guarantees workmanship.

All of these factors serve to offer the most important of all features - quality.

SPEED CONTROL - Positive Off/On action in the control dial. Speed range set to the customer's requirements. **CONTROL RATING** - 120 volts, 60 cycles, 1 phase. Maximum ambient temperature -

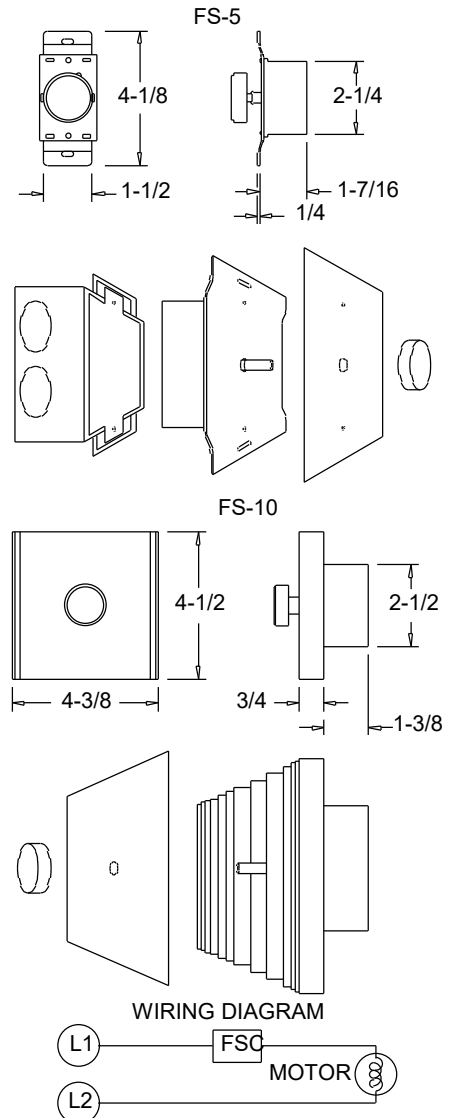
120 degree F (5 AMP, 10 AMP, 15 AMP). 220/240 volt, 50/60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP). 220/240 volt model not UL listed. Fan cannot have UL listing if furnished with prewired 220/240 volt FSC. 277 volt, 60 cycles, 1 phase.

Maximum ambient temperature - 120 degree F (5 AMP). **WARNING** - Power must be turned off before installing this unit. **STANDARD INSTALLATION** - Fits any standard single gang box.

Turn off power and connect the two wires on the control to the two switch wires in the usual manner. The connection box is not supplied. **SPECIAL FEATURES** - Complete range control, solid state "Quadrac" integrated circuitry, solid state construction for long reliable operating life, saves on electric bills.

Dimensions (inches)

Mark	Qty	Description
F-9	1	FSC 5A 120V PREWIRED





COOK



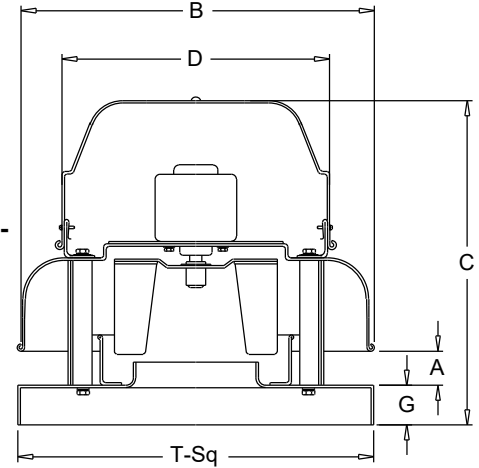
MARK: F-10
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-D

Downblast Centrifugal Exhaust Ventilator

Roof Mounted/Direct Drive

STANDARD CONSTRUCTION FEATURES:
 All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches (sizes 120 - 300) - Welded curb cap corners - Birdscreen - Permanently lubricated ball bearing motors - Corrosion resistant fasteners - Transit tested packaging.



COORDINATE HP WITH ELECTRICAL

Performance

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Input Watts	FEG	Speed Control
1	90C15DH	300	.350	1253	73	n/a(<1HP)	FSC

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	TOL
1/8	1550	115/1/60	ODP -SE	Yes

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
64	65	70	58	53	51	46	41	63	52	6.1

- Distance from Sound source 5 ft

Accessories:

- DISCONNECT NEMA 1 PRE-WIRED
- BD-12 DAMPER
- ROOF CURB RCG 16 18H -C+T+N
- GASKET W/NAILER-CURB
- ALUMINUM BIRDSCREEN**
- FAN SPEED CONTROLLER 5A 120V PREWIRED

Dimensions (inches)

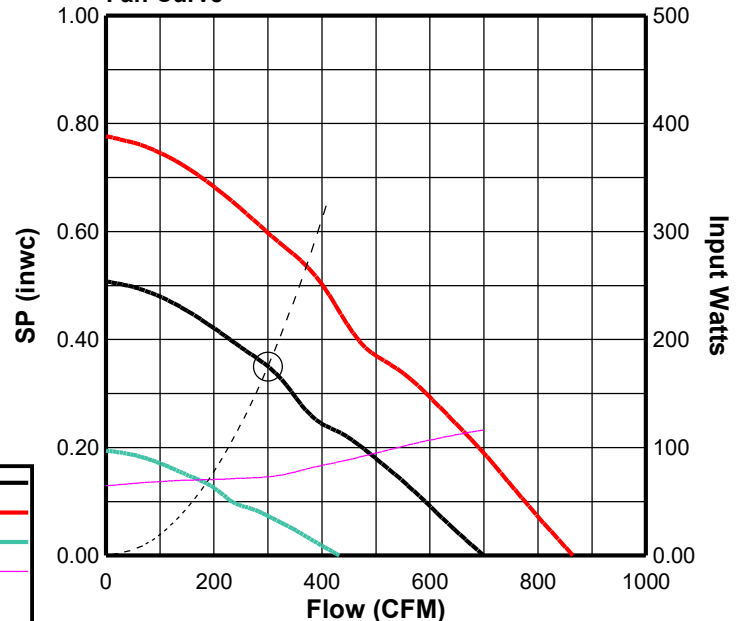
A	2-1/2
B O.D.	18-3/4
C	16-13/16
D O.D.	16-3/4
G	2
T Sq.	18
Roof Open. Sq.*	13-1/2

NOTE: Accessories may affect dimensions shown.

Weight(lbs)**	Shipping	69	Unit	51
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* Roof opening size for curbs supplied by Cook only.
 ***Includes fan, motor & accessories.

Fan Curve



Fan Curve Legend

CFM vs SP (1253)	—
100% FSC (1550)	—
Min FSC (775)	—
CFM vs Watts	—
Point of Operation	○
System Curve	- - -



COOK



MARK: F-10
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-D

Performance

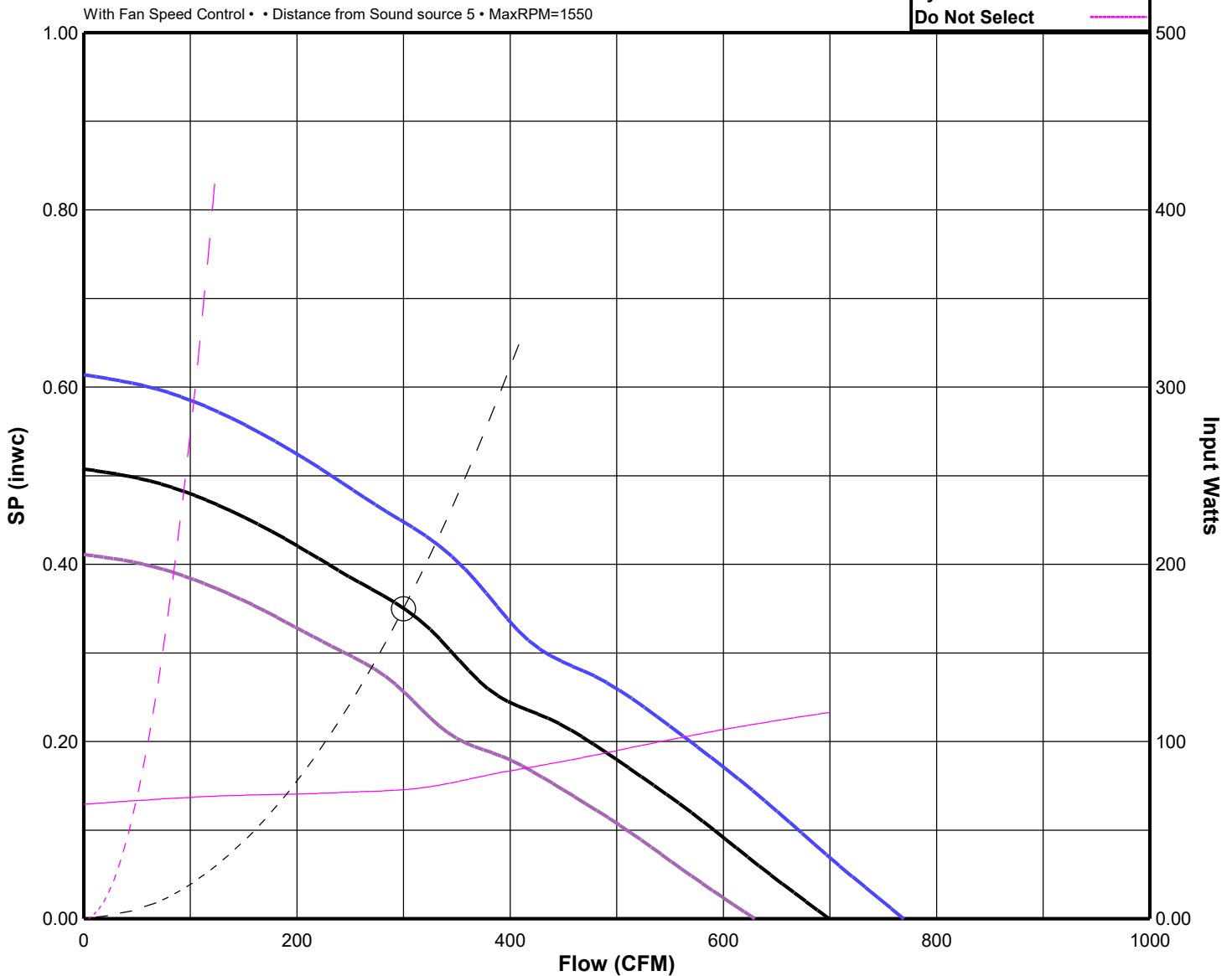
Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Input Watts	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
90C15DH	300	.350	1253	73	n/a(<1HP)	388	2952	56%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
64	65	70	58	53	51	46	41	63	52	6.1

Fan Curve Legend

CFM vs SP	—
+ 10%(1378)	—
- 10%(1128)	—
CFM vs Watts	—
Point of Operation	○
System Curve	- - -
Do Not Select	—





COOK

ACE-D

MARK: F-10

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

AMCA License Information



Loren Cook Company certifies that the 90C15DH 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.

Performance certified is for installation type A: free inlet, free outlet. Speed (RPM/RPS) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels. The AMCA International licensed air and/or sound performance data has been modified for installation, appurtenances or accessories, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.



The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to sone ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.



BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

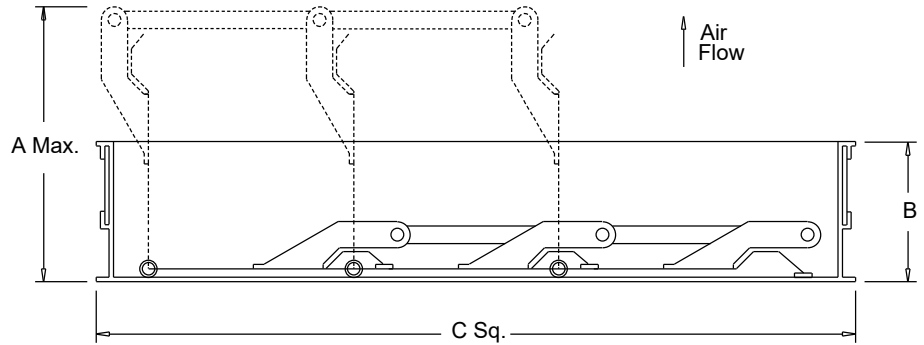
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-10	1	BD-12 DAMPER	5-3/16	1-7/8	11-3/4	1



RCG

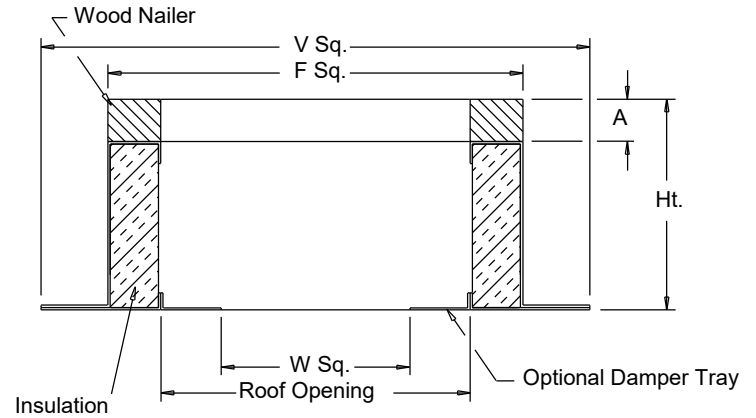
Galvanized Steel Roof Curb

STANDARD CONSTRUCTION FEATURES:

18 gauge galvanized steel - 1-1/2",
3 lbs. density thermal and acoustical
insulation - Continuously welded corners -
Wood nailer.

Options:(As noted below*)

- 1) No wood nailer (deduct 1-1/2" for actual height).
- 2) Damper tray.
- 3) Liner.
- 4) Gasket on wood nailer.
- 5) Lorenized coating.
- 6) Enamel coating.
- 7) Burglar bars.



Dimensions (inches)

Mark	Qty	Description	Ht	Options*	A	F Sq.	V Sq.	W Sq.	Roof Opening
F-10	1	RCG 16	18	2; 4;	1-1/2	16-1/2	20-1/2	9-3/4	13-1/2



FSC

Fan Speed Controls

STANDARD CONSTRUCTION FEATURES:

PRODUCT DESCRIPTION - Through the "Quadrac" integrated semi-conductor device it is now possible to offer this system with many advantages. Fewer semi-conductor parts mean greater reliability and the passivation process used in the manufacture of the semi-conductor insures long life.

Printed circuit construction eliminates wiring difficulties and guarantees workmanship.

All of these factors serve to offer the most important of all features - quality.

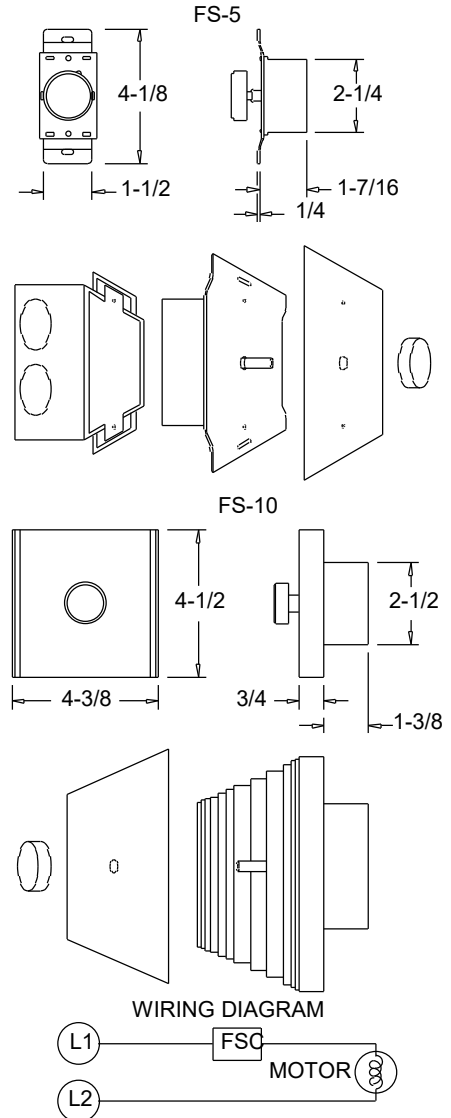
SPEED CONTROL - Positive Off/On action in the control dial. Speed range set to the customer's requirements. **CONTROL RATING** - 120 volts, 60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP, 15 AMP). 220/240 volt, 50/60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP). 220/240 volt model not UL listed. Fan cannot have UL listing if furnished with prewired 220/240 volt FSC. 277 volt, 60 cycles, 1 phase.

Maximum ambient temperature - 120 degree F (5 AMP). **WARNING** - Power must be turned off before installing this unit. **STANDARD INSTALLATION** - Fits any standard single gang box.

Turn off power and connect the two wires on the control to the two switch wires in the usual manner. The connection box is not supplied. **SPECIAL FEATURES** - Complete range control, solid state "Quadrac" integrated circuitry, solid state construction for long reliable operating life, saves on electric bills.

Dimensions (inches)

Mark	Qty	Description
F-10	1	FSC 5A 120V PREWIRED





COOK



MARK: F-11
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

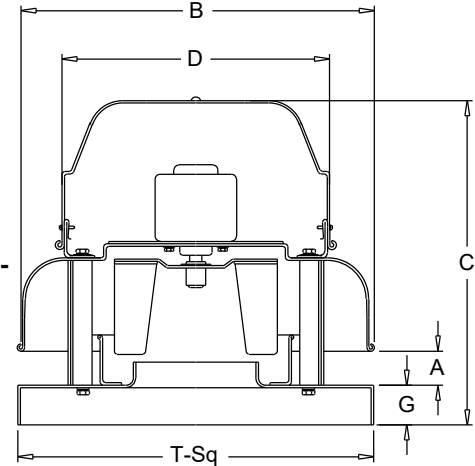
ACE-D VF

Downblast Centrifugal Exhaust Ventilator
Roof Mounted/Direct Drive

Electronically Commutated Vari-Flow® Motor

STANDARD CONSTRUCTION FEATURES:

All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches (sizes 120 - 300) - Welded curb cap corners - Birdscreen - Permanently lubricated ball bearing motors - Corrosion resistant fasteners - Transit tested packaging.



COORDINATE HP WITH ELECTRICAL

Performance

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	Speed Control
1	100C17DL (VF)	175	.350	1103	.026	n/a(<1HP)	EC

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM*	Volts/Ph/Hz	Enclosure	RLA
1/8	1725	115/1/60	OPEN -EC	1.9



*Motor programmed to max speed of 1725 RPM.
 RLA based on motor manufacturer's data at programmed HP and max RPM.
 Motor is electronically/thermally protected.

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
62	66	65	53	48	42	37	35	59	47	4.5

- Distance from Sound source 5 ft

Accessories:

- EXTERNAL SIGNAL SPEED CONTROL
- CTL & XFMR BY OTHERS
- DISCONNECT NEMA 4 - PRE WIRED
- BD-12 DAMPER
- ROOF CURB RCG 16 18H -C+T+N
- GASKET W/NAILER-CURB

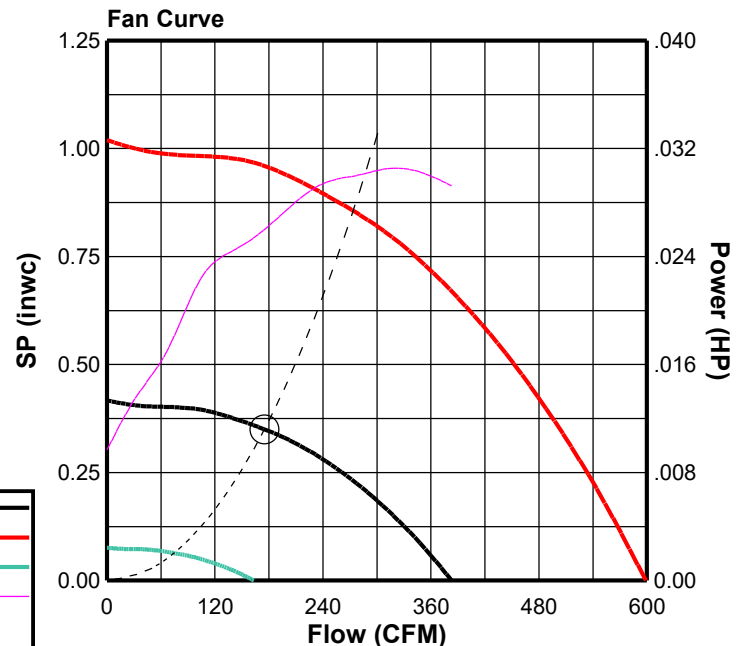
Dimensions (inches)

A	2-1/2
B O.D.	18-3/4
C	16-13/16
D O.D.	16-3/4
G	2
T Sq.	18
Roof Open. Sq.*	13-1/2

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	68	Unit	50
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* Roof opening size for curbs supplied by Cook only.
 ***Includes fan, motor & accessories.





COOK



MARK: F-11
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

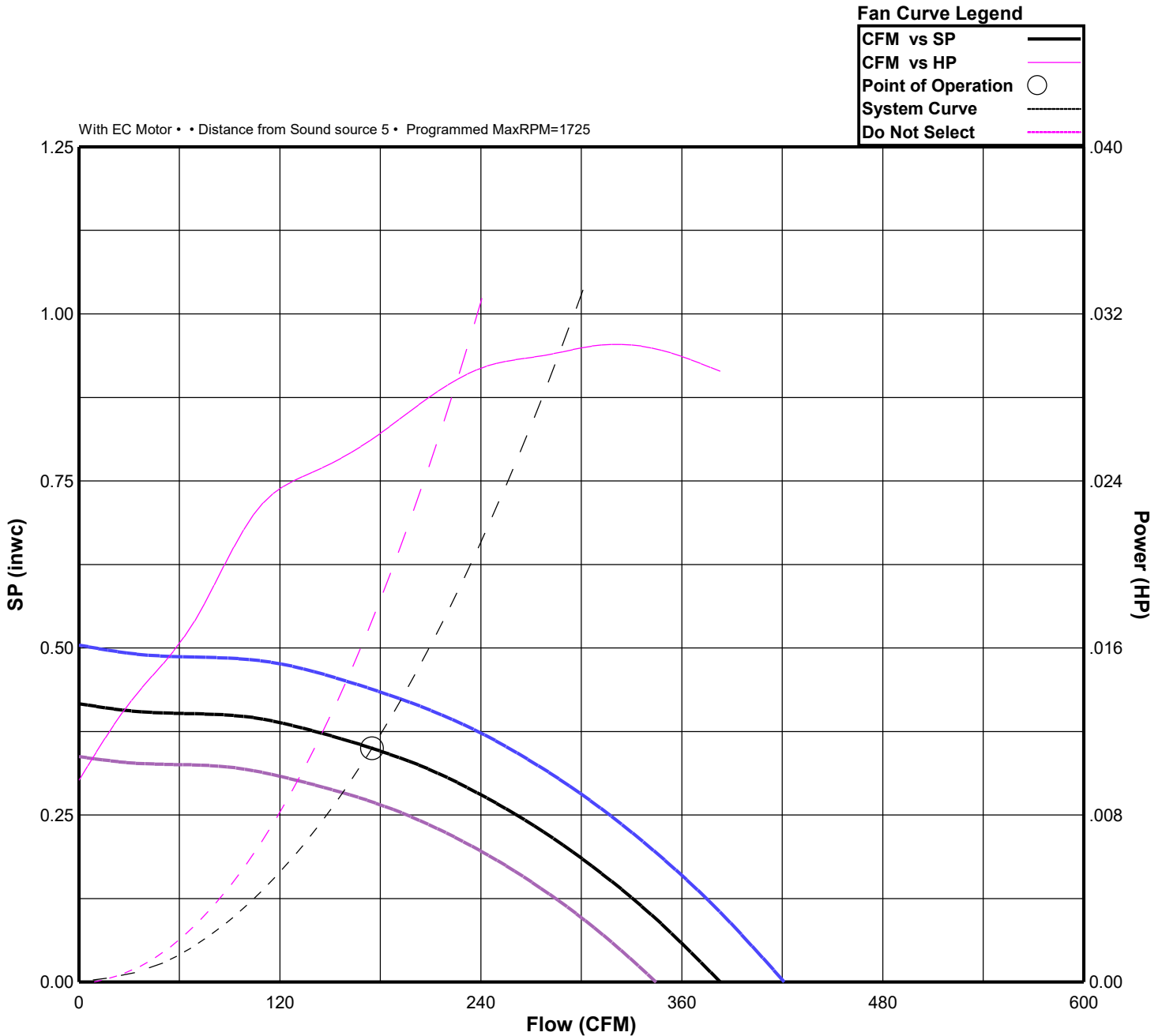
ACE-D VF

Performance

Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
100C17DL (VF)	175	.350	1103	.026	n/a(<1HP)	204	2887	37%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
62	66	65	53	48	42	37	35	59	47	4.5





ACE-D VF

MARK: F-11
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

AMCA License Information



Loren Cook Company certifies that the 100C17DL 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.

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 hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels.

The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to sone ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.





COOK

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

Speed Control

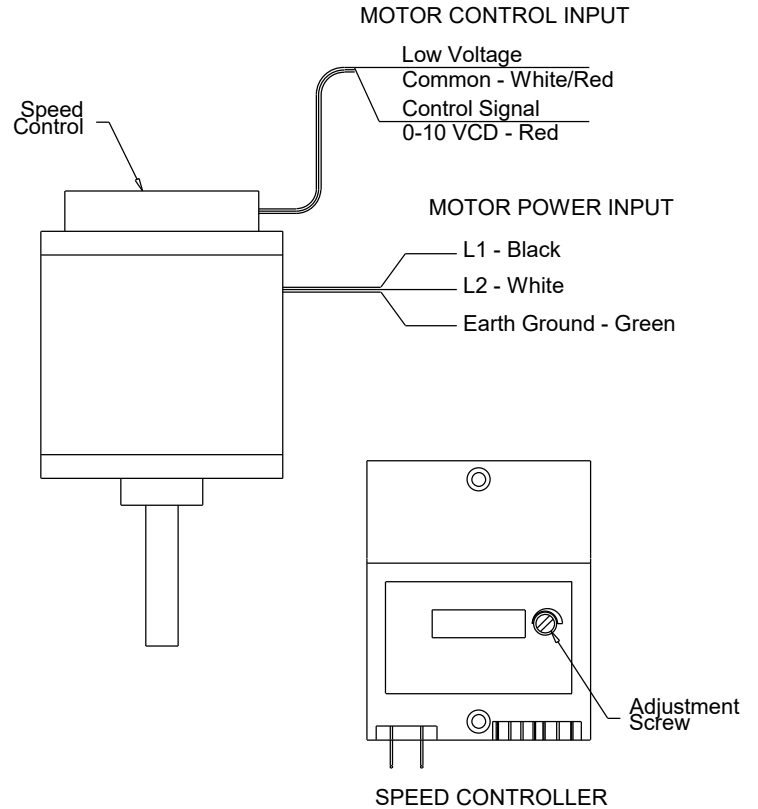
External Speed Control Electronically Commutated (EC) Motor Type N

STANDARD CONSTRUCTION FEATURES:

Vari-Flow EC Motors are available in 1/8 to 1 HP for 120V or 208-230V -Single phase applications have a adjustable speed range of 500 to 1725 or 500 to 2800 - Some motors come with a factory programmed maximum RPM for specific applications - External signal speed control requires a 0-10 VDC control signal to adjust speed of the motor - The motor will operate from 2-10 VDC and turns off when the control signal is below 1.9 VDC - Dial on speed control must be set to 0 for proper external speed control operation.

Dimensions (inches)

Mark	Qty	Description
F-11	1	OPEN -1/8HP - 115V/1 PH/ 60 1725/0000 -EC





BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

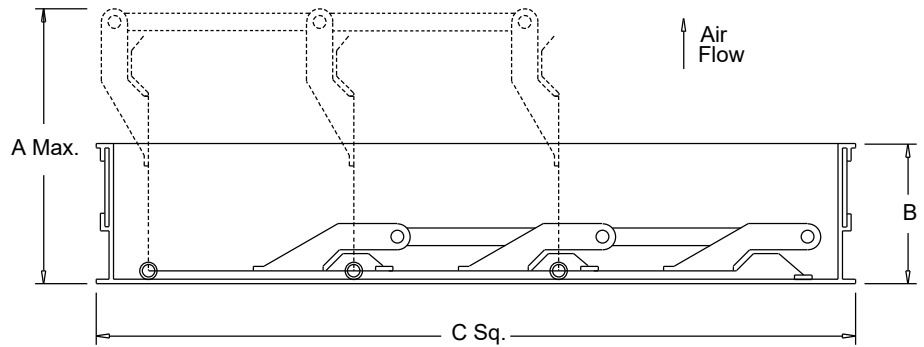
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-11	1	BD-12 DAMPER	5-3/16	1-7/8	11-3/4	1



RCG

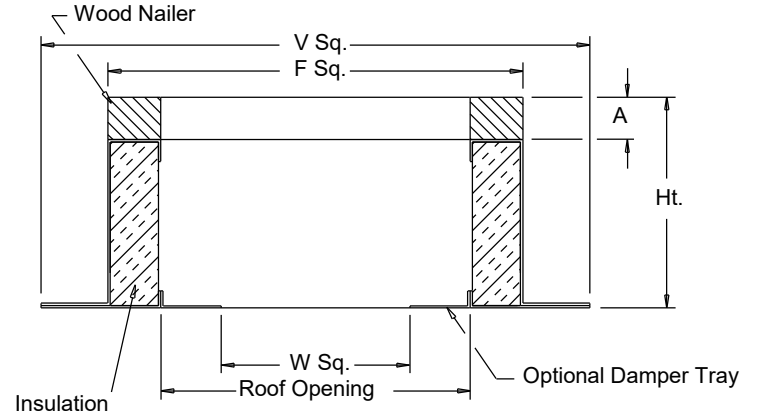
Galvanized Steel Roof Curb

STANDARD CONSTRUCTION FEATURES:

18 gauge galvanized steel - 1-1/2",
3 lbs. density thermal and acoustical
insulation - Continuously welded corners -
Wood nailer.

Options:(As noted below*)

- 1) No wood nailer (deduct 1-1/2" for actual height).
- 2) Damper tray.
- 3) Liner.
- 4) Gasket on wood nailer.
- 5) Lorenized coating.
- 6) Enamel coating.
- 7) Burglar bars.



Dimensions (inches)

Mark	Qty	Description	Ht	Options*	A	F Sq.	V Sq.	W Sq.	Roof Opening
F-11	1	RCG 16	18	2; 4;	1-1/2	16-1/2	20-1/2	9-3/4	13-1/2



COOK



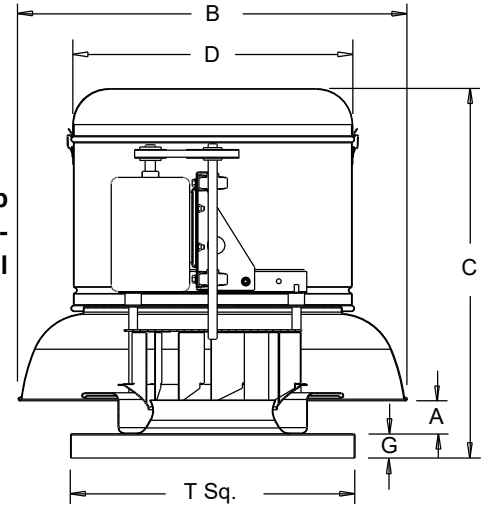
MARK: F-12
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-B

**Downblast Centrifugal Exhaust Ventilator
Roof Mounted/Belt Drive**

STANDARD CONSTRUCTION FEATURES:

All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches - Welded curb cap corners - Birdscreen - Vibration isolators - Lifting Lugs - Permanently lubricated ball bearing motors - Oil and heat resistant, static conducting belts - Adjustable pitch drives through 5 hp motor - Corrosion resistant fasteners - Regreasable bearings in a cast iron pillow block housing, rated at 200,000 hours average life - All fans factory adjusted to specified fan RPM - Transit tested packaging - Standard motors ship factory installed.



Performance (*Bhp includes 16% drive loss)

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG
1	100C3B	900	.500	1907	.229	n/a(<1HP)

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	Mounted
1/4	1725	115/1/60	ODP -SE	5.8	Yes

FLA based on NEC (2017) Table 430.248

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
73	75	78	76	69	65	60	55	76	65	12.7

- Distance from Sound source 5 ft

Accessories:

- DRIVES (1.5 SF) @ 1907 RPM
- DISCONNECT NEMA 1 PRE-WIRED
- BD-12 DAMPER
- ROOF CURB RCG 16 18H -C+T+N
- GASKET W/NAILER-CURB

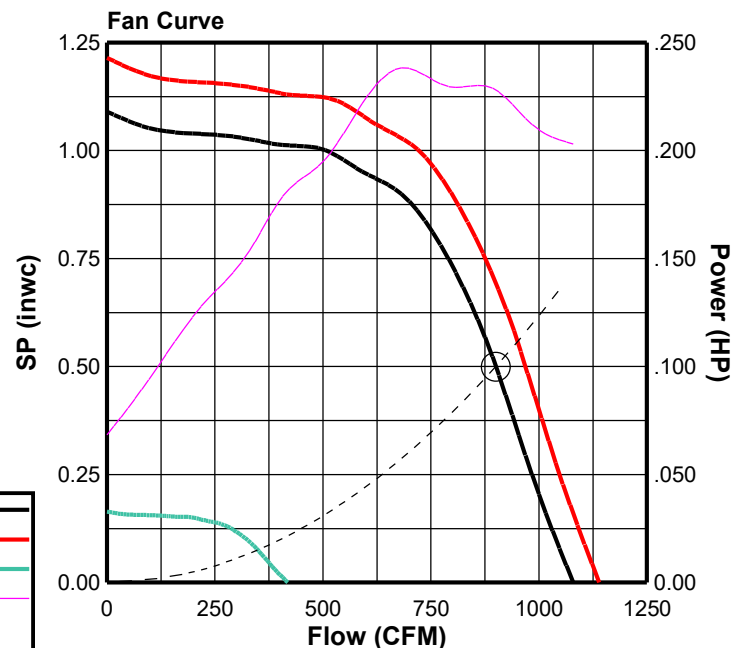
Dimensions (inches)

A	2-7/8
B	23-9/16
C	21-1/8
D	16-11/16
G	2
T Sq.	18
Roof Open.Sq.*	13-1/2

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	89	Unit	31
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*Roof opening size for curbs supplied by Cook only.
***Includes fan, motor & accessories.





COOK



MARK: F-12
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-B

Performance (*Bhp includes 16% drive loss)

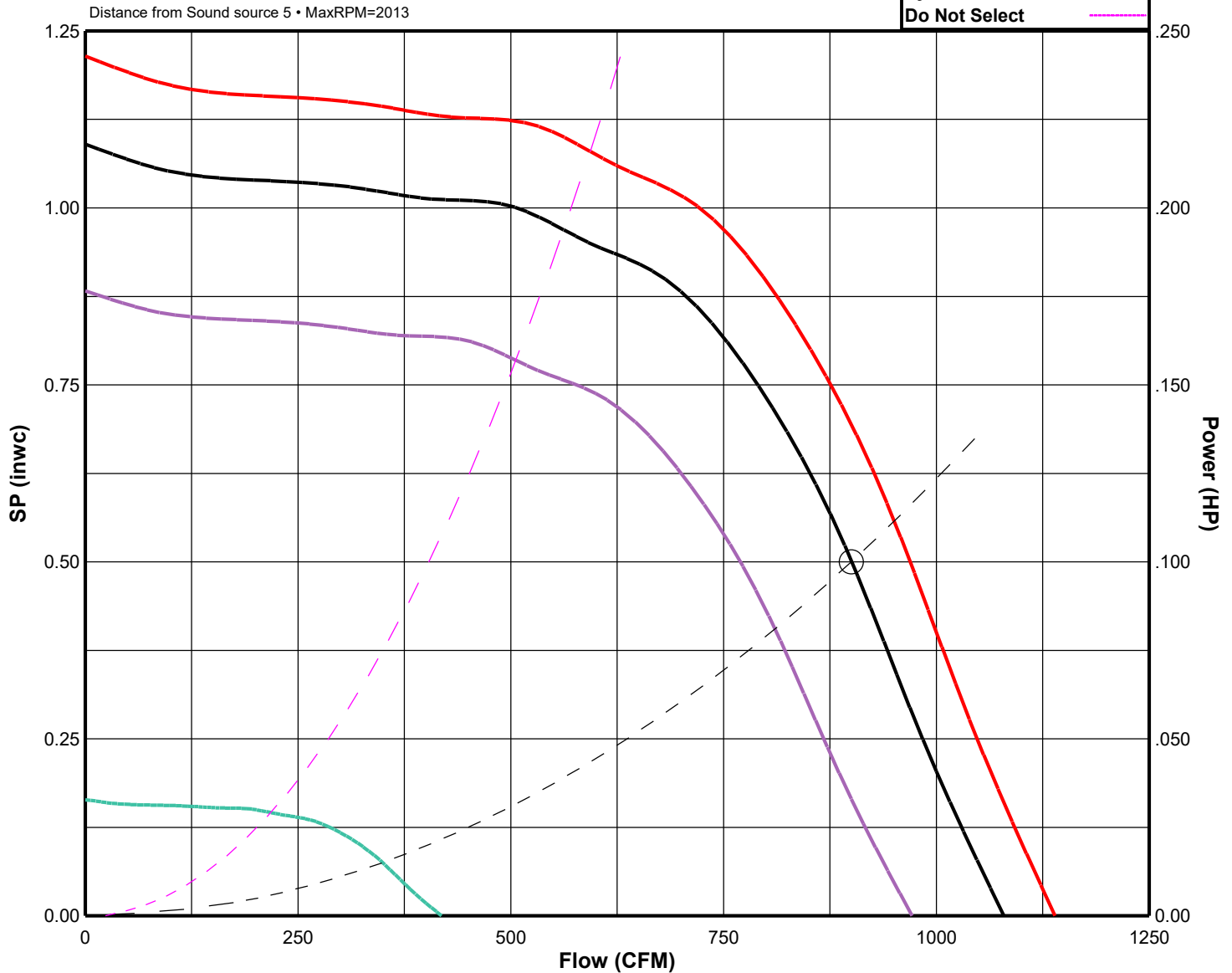
Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
100C3B	900	.500	1907	.229	n/a(<1HP)	1376	4992	36%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
73	75	78	76	69	65	60	55	76	65	12.7

Fan Curve Legend

CFM vs SP (1907)	—
MaxRPM(2013)	—
MinRPM(740)	—
- 10%(1716)	—
CFM vs HP	—
Point of Operation	○
System Curve	- - -
Do Not Select	—





COOK

ACE-B

MARK: F-12

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

AMCA License Information

Loren Cook Company certifies that the 100C3B 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.

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 hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels. The AMCA International licensed air and/or sound performance data has been modified for installation, appurtenances or accessories, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.

The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to sone ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.





BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

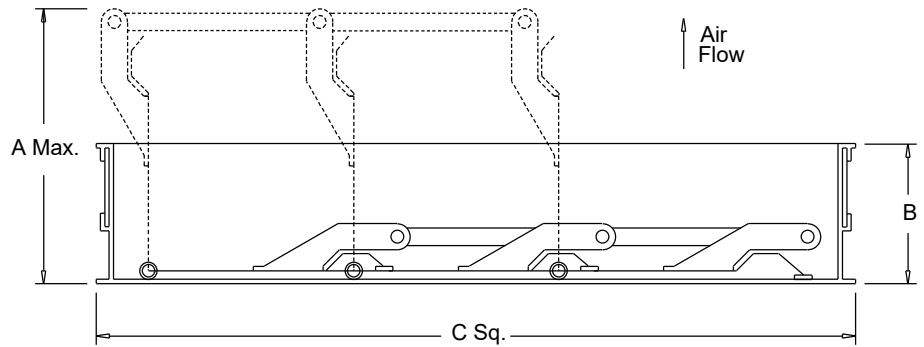
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-12	1	BD-12 DAMPER	5-3/16	1-7/8	11-3/4	1



RCG

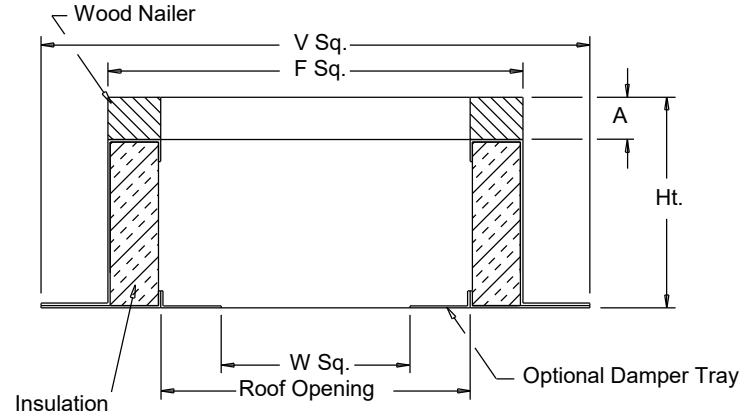
Galvanized Steel Roof Curb

STANDARD CONSTRUCTION FEATURES:

18 gauge galvanized steel - 1-1/2",
3 lbs. density thermal and acoustical
insulation - Continuously welded corners -
Wood nailer.

Options:(As noted below*)

- 1) No wood nailer (deduct 1-1/2" for actual height).
- 2) Damper tray.
- 3) Liner.
- 4) Gasket on wood nailer.
- 5) Lorenized coating.
- 6) Enamel coating.
- 7) Burglar bars.



Dimensions (inches)

Mark	Qty	Description	Ht	Options*	A	F Sq.	V Sq.	W Sq.	Roof Opening
F-12	1	RCG 16	18	2; 4;	1-1/2	16-1/2	20-1/2	9-3/4	13-1/2



COOK



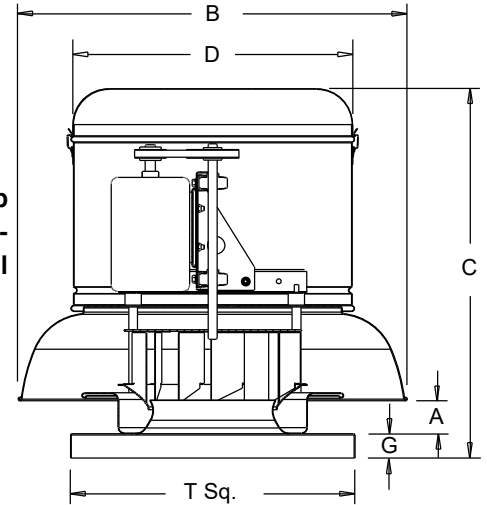
MARK: F-13
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-B

**Downblast Centrifugal Exhaust Ventilator
Roof Mounted/Belt Drive**

STANDARD CONSTRUCTION FEATURES:

All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches - Welded curb cap corners - Birdscreen - Vibration isolators - Lifting Lugs - Permanently lubricated ball bearing motors - Oil and heat resistant, static conducting belts - Adjustable pitch drives through 5 hp motor - Corrosion resistant fasteners - Regreasable bearings in a cast iron pillow block housing, rated at 200,000 hours average life - All fans factory adjusted to specified fan RPM - Transit tested packaging - Standard motors ship factory installed.



Performance (*Bhp includes 15% drive loss)

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG
1	165C4B	2000	.500	944	.332	n/a(<1HP)

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	Mounted
1/3	1725	115/1/60	ODP -SE	7.2	Yes

FLA based on NEC (2017) Table 430.248

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
72	74	72	65	64	59	54	49	69	58	8.9

- Distance from Sound source 5 ft

Accessories:

- DRIVES (1.5 SF) @ 944 RPM
- DISCONNECT NEMA 1 PRE-WIRED
- BD-18 DAMPER
- ROOF CURB RCG 22 18H -C+T+N
- GASKET W/NAILER-CURB

Dimensions (inches)

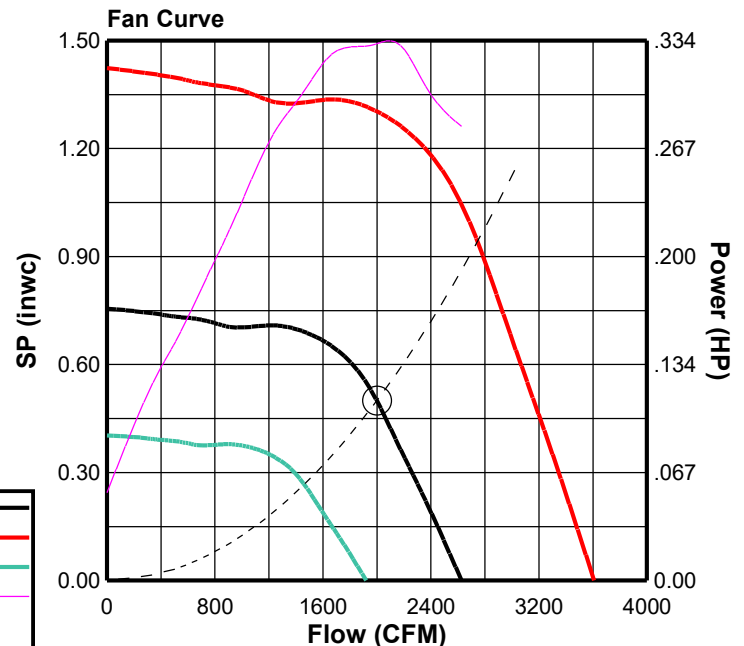
A	3-9/16
B	32-7/8
C	29-3/8
D	23-3/4
G	2
T Sq.	24
Roof Open.Sq.*	19-1/2

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	150	Unit	124
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*Roof opening size for curbs supplied by Cook only.

***Includes fan, motor & accessories.





COOK



MARK: F-13
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-B

Performance (*Bhp includes 15% drive loss)

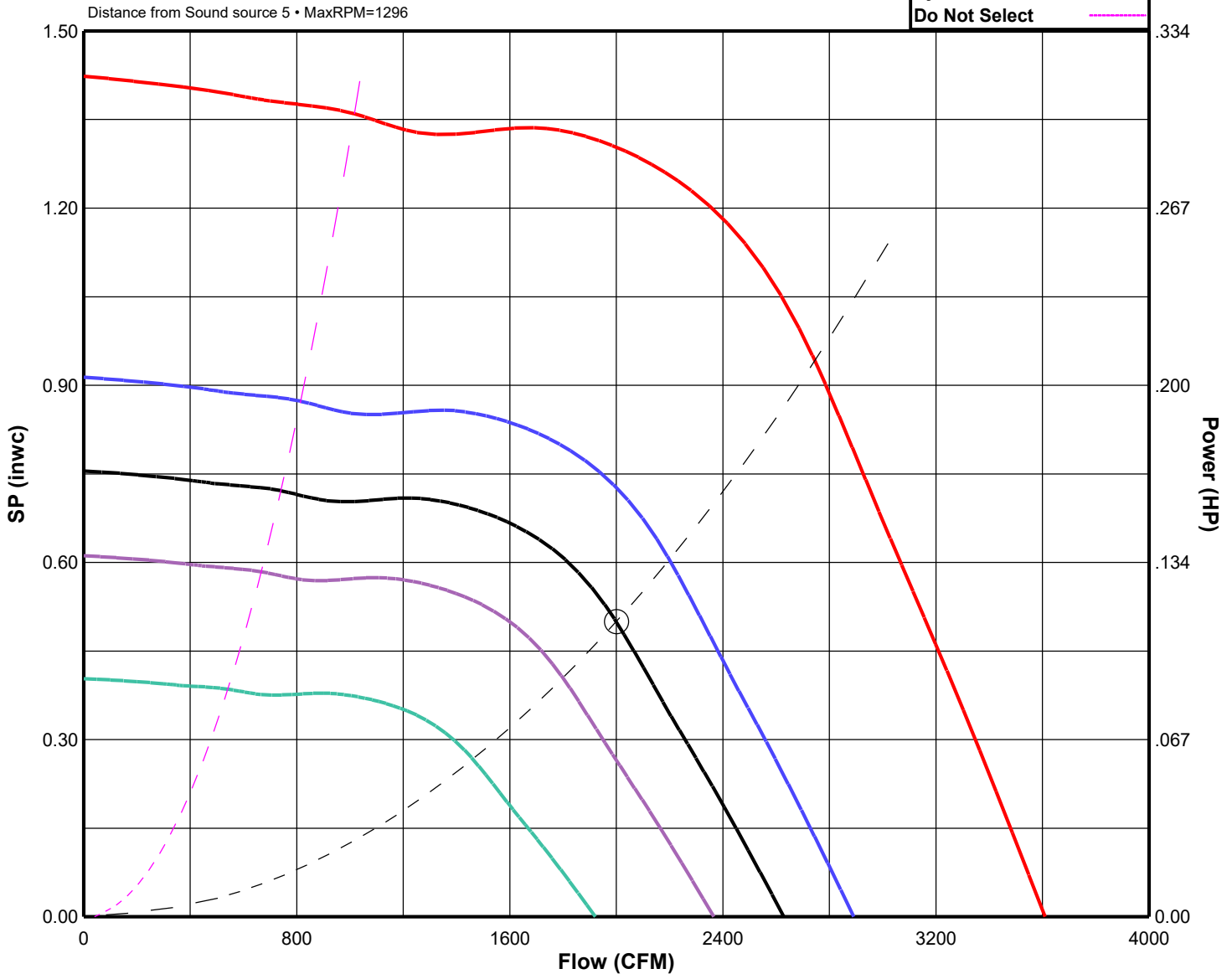
Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
165C4B	2000	.500	944	.332	n/a(<1HP)	1122	4077	55%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
72	74	72	65	64	59	54	49	69	58	8.9

Fan Curve Legend

CFM vs SP (944)	—
MaxRPM(1296)	—
MinRPM(690)	—
+ 10%(1038)	—
- 10%(850)	—
CFM vs HP	—
Point of Operation	○
System Curve	- - -
Do Not Select	—





COOK

ACE-B

MARK: F-13

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

AMCA License Information

Loren Cook Company certifies that the 165C4B 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.

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 hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels. The AMCA International licensed air and/or sound performance data has been modified for installation, appurtenances or accessories, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.

The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to sone ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.





BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

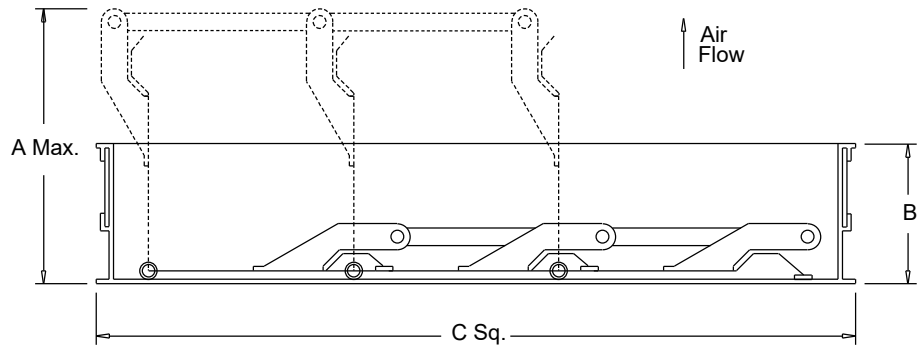
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-13	1	BD-18 DAMPER	5-3/16	1-7/8	17-3/4	1



RCG

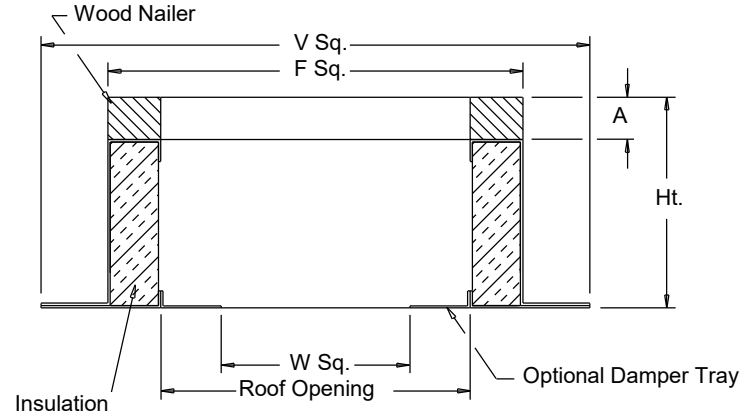
Galvanized Steel Roof Curb

STANDARD CONSTRUCTION FEATURES:

18 gauge galvanized steel - 1-1/2",
 3 lbs. density thermal and acoustical insulation - Continuously welded corners - Wood nailer.

Options:(As noted below*)

- 1) No wood nailer (deduct 1-1/2" for actual height).
- 2) Damper tray.
- 3) Liner.
- 4) Gasket on wood nailer.
- 5) Lorenized coating.
- 6) Enamel coating.
- 7) Burglar bars.



Dimensions (inches)

Mark	Qty	Description	Ht	Options*	A	F Sq.	V Sq.	W Sq.	Roof Opening
F-13	1	RCG 22	18	2; 4;	1-1/2	22-1/2	26-1/2	15-3/4	19-1/2



COOK



MARK: F-14

PROJECT: COLTRANE - WEBB

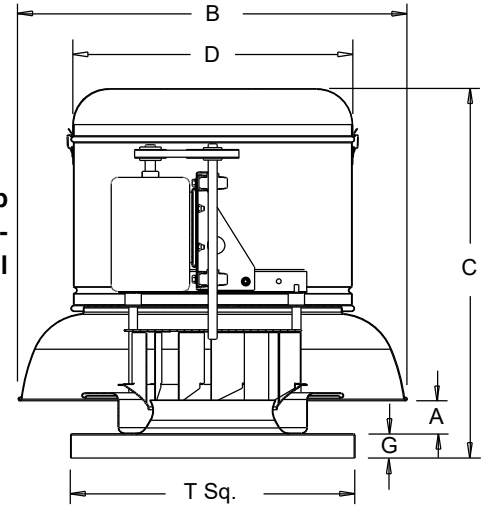
DATE: 3/19/2025

ACE-B

**Downblast Centrifugal Exhaust Ventilator
Roof Mounted/Belt Drive**

STANDARD CONSTRUCTION FEATURES:

All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches - Welded curb cap corners - Birdscreen - Vibration isolators - Lifting Lugs - Permanently lubricated ball bearing motors - Oil and heat resistant, static conducting belts - Adjustable pitch drives through 5 hp motor - Corrosion resistant fasteners - Regreasable bearings in a cast iron pillow block housing, rated at 200,000 hours average life - All fans factory adjusted to specified fan RPM - Transit tested packaging - Standard motors ship factory installed.



COORDINATE HP WITH ELECTRICAL

Performance (*Bhp includes 17% drive loss)

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG
1	120C2B	975	.500	1242	.157	n/a(<1HP)

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	Mounted
1/6	1725	115/1/60	ODP -SE	4.4	Yes

FLA based on NEC (2017) Table 430.248

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
67	69	73	63	60	57	52	47	68	56	8.1

- Distance from Sound source 5 ft

Accessories:

- DRIVES (1.5 SF) @ 1242 RPM
- DISCONNECT NEMA 1 PRE-WIRED
- BD-14 DAMPER
- ROOF CURB RCG 18 18H -C+T+N
- GASKET W/NAILER-CURB

Dimensions (inches)

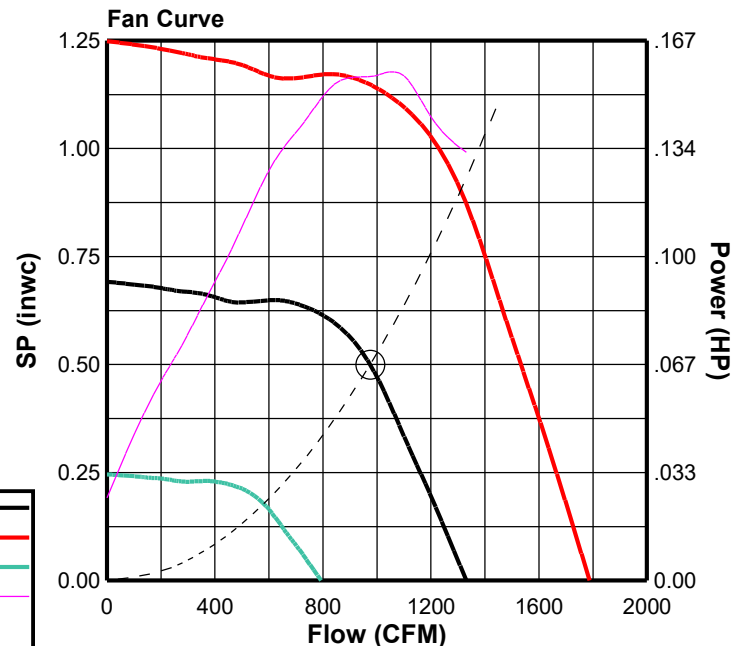
A	1-13/16
B	28-7/16
C	26-7/8
D	20-5/16
G	2
T Sq.	20
Roof Open.Sq.*	15-1/2

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	107	Unit	91
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*Roof opening size for curbs supplied by Cook only.

***Includes fan, motor & accessories.





COOK



MARK: F-14
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-B

Performance (*Bhp includes 17% drive loss)

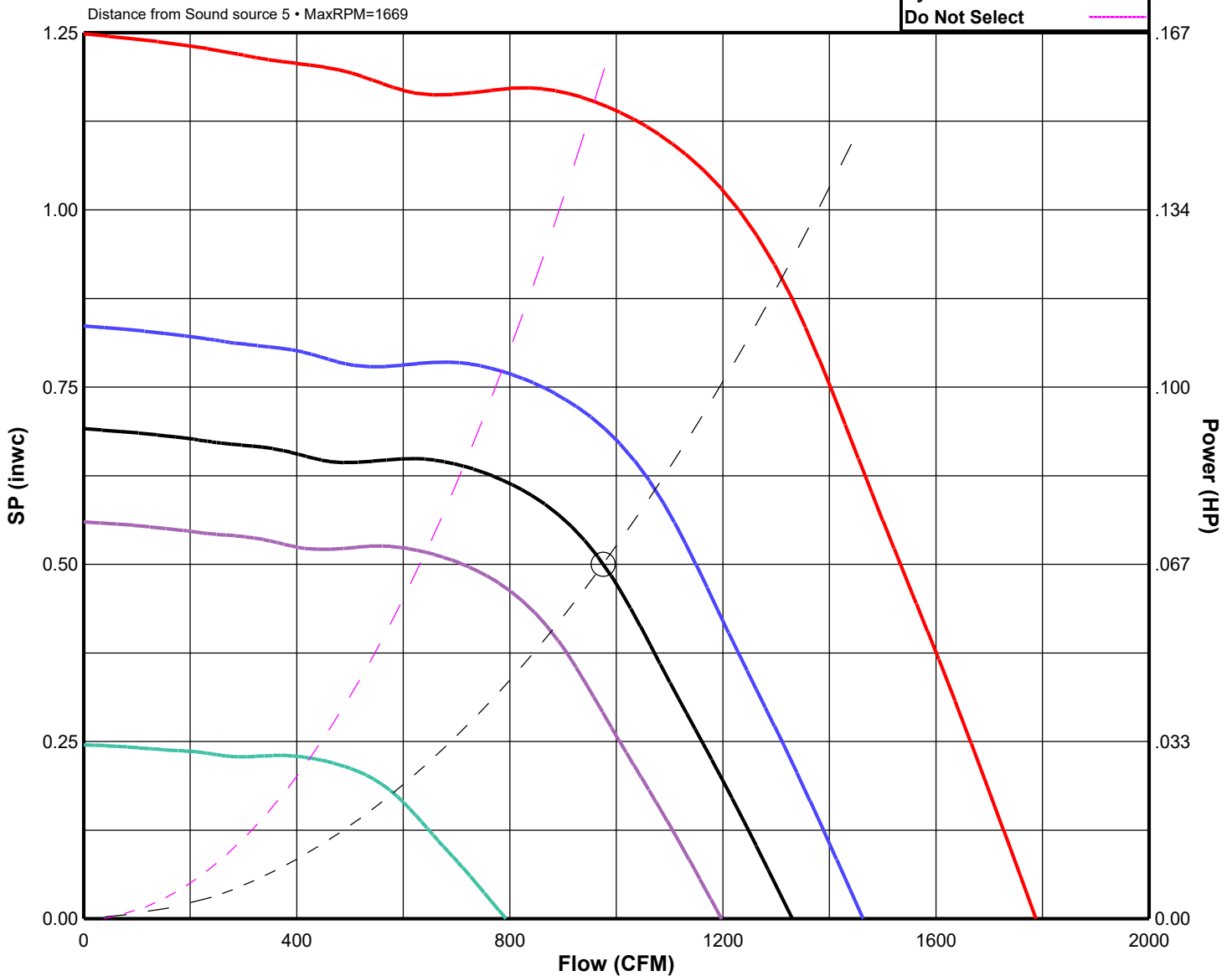
Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
120C2B	975	.500	1242	.157	n/a(<1HP)	1027	3901	58%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
67	69	73	63	60	57	52	47	68	56	8.1

Fan Curve Legend

CFM vs SP (1242)	—
MaxRPM(1669)	—
MinRPM(740)	—
+ 10%(1366)	—
- 10%(1118)	—
CFM vs HP	—
Point of Operation	○
System Curve	- - -
Do Not Select	—





COOK

ACE-B

MARK: F-14

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

AMCA License Information

Loren Cook Company certifies that the 120C2B 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.

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 hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels. The AMCA International licensed air and/or sound performance data has been modified for installation, appurtenances or accessories, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.

The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to sone ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.





BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

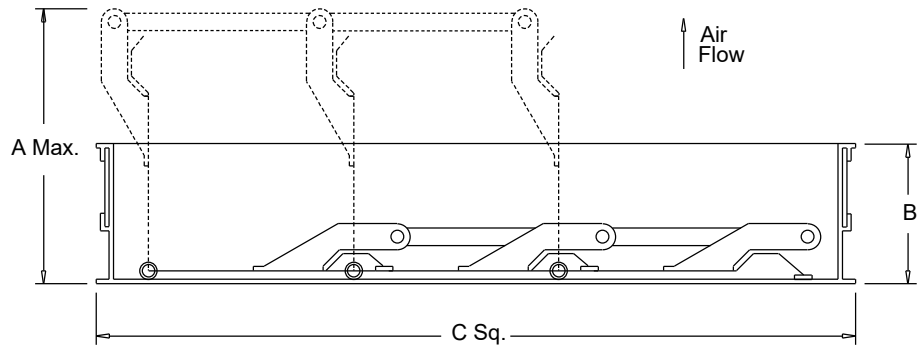
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-14	1	BD-14 DAMPER	5-3/16	1-7/8	13-3/4	1



RCG

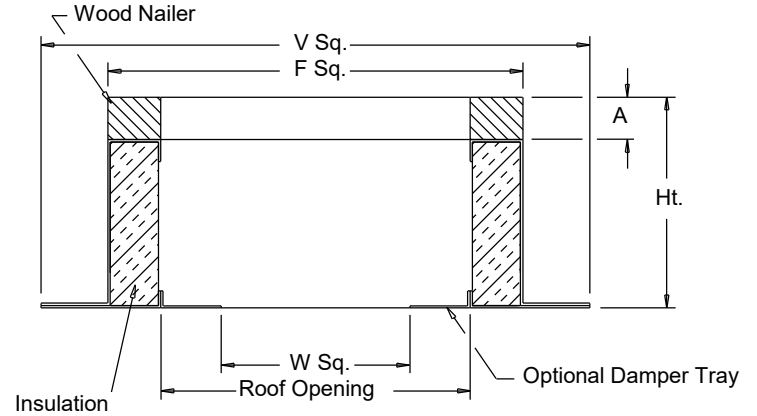
Galvanized Steel Roof Curb

STANDARD CONSTRUCTION FEATURES:

18 gauge galvanized steel - 1-1/2",
3 lbs. density thermal and acoustical
insulation - Continuously welded corners -
Wood nailer.

Options:(As noted below*)

- 1) No wood nailer (deduct 1-1/2" for actual height).
- 2) Damper tray.
- 3) Liner.
- 4) Gasket on wood nailer.
- 5) Lorenized coating.
- 6) Enamel coating.
- 7) Burglar bars.



Dimensions (inches)

Mark	Qty	Description	Ht	Options*	A	F Sq.	V Sq.	W Sq.	Roof Opening
F-14	1	RCG 18	18	2; 4;	1-1/2	18-1/2	22-1/2	11-3/4	15-1/2



COOK



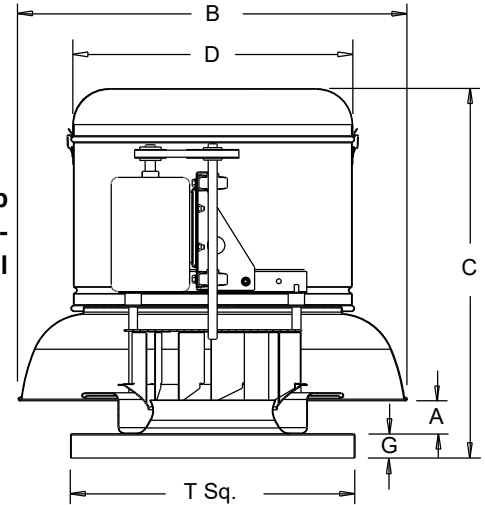
MARK: F-15
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-B

**Downblast Centrifugal Exhaust Ventilator
Roof Mounted/Belt Drive**

STANDARD CONSTRUCTION FEATURES:

All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches - Welded curb cap corners - Birdscreen - Vibration isolators - Lifting Lugs - Permanently lubricated ball bearing motors - Oil and heat resistant, static conducting belts - Adjustable pitch drives through 5 hp motor - Corrosion resistant fasteners - Regreasable bearings in a cast iron pillow block housing, rated at 200,000 hours average life - All fans factory adjusted to specified fan RPM - Transit tested packaging - Standard motors ship factory installed.



Performance (*Bhp includes 17% drive loss)

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG
1	120C3B	1150	.350	1290	.175	n/a(<1HP)

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	Mounted
1/4	1725	115/1/60	ODP -SE	5.8	Yes

FLA based on NEC (2017) Table 430.248

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
68	71	75	66	62	60	53	48	70	58	9.2

- Distance from Sound source 5 ft

Accessories:

- DRIVES (1.5 SF) @ 1290 RPM
- DISCONNECT NEMA 1 PRE-WIRED
- BD-14 DAMPER
- ROOF CURB RCG 18 18H -C+T+N
- GASKET W/NAILER-CURB

Dimensions (inches)

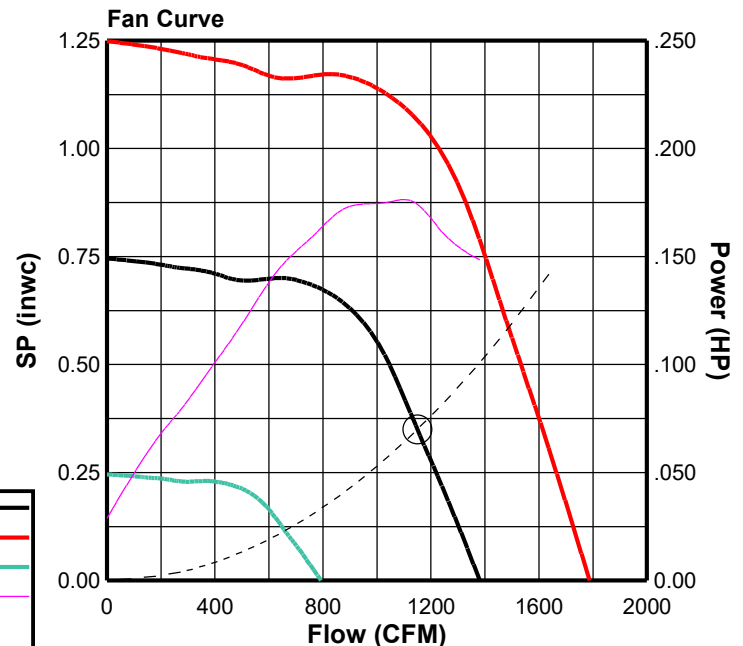
A	1-13/16
B	28-7/16
C	26-7/8
D	20-5/16
G	2
T Sq.	20
Roof Open.Sq.*	15-1/2

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	113	Unit	97
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*Roof opening size for curbs supplied by Cook only.

***Includes fan, motor & accessories.





COOK



MARK: F-15
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

ACE-B

Performance (*Bhp includes 17% drive loss)

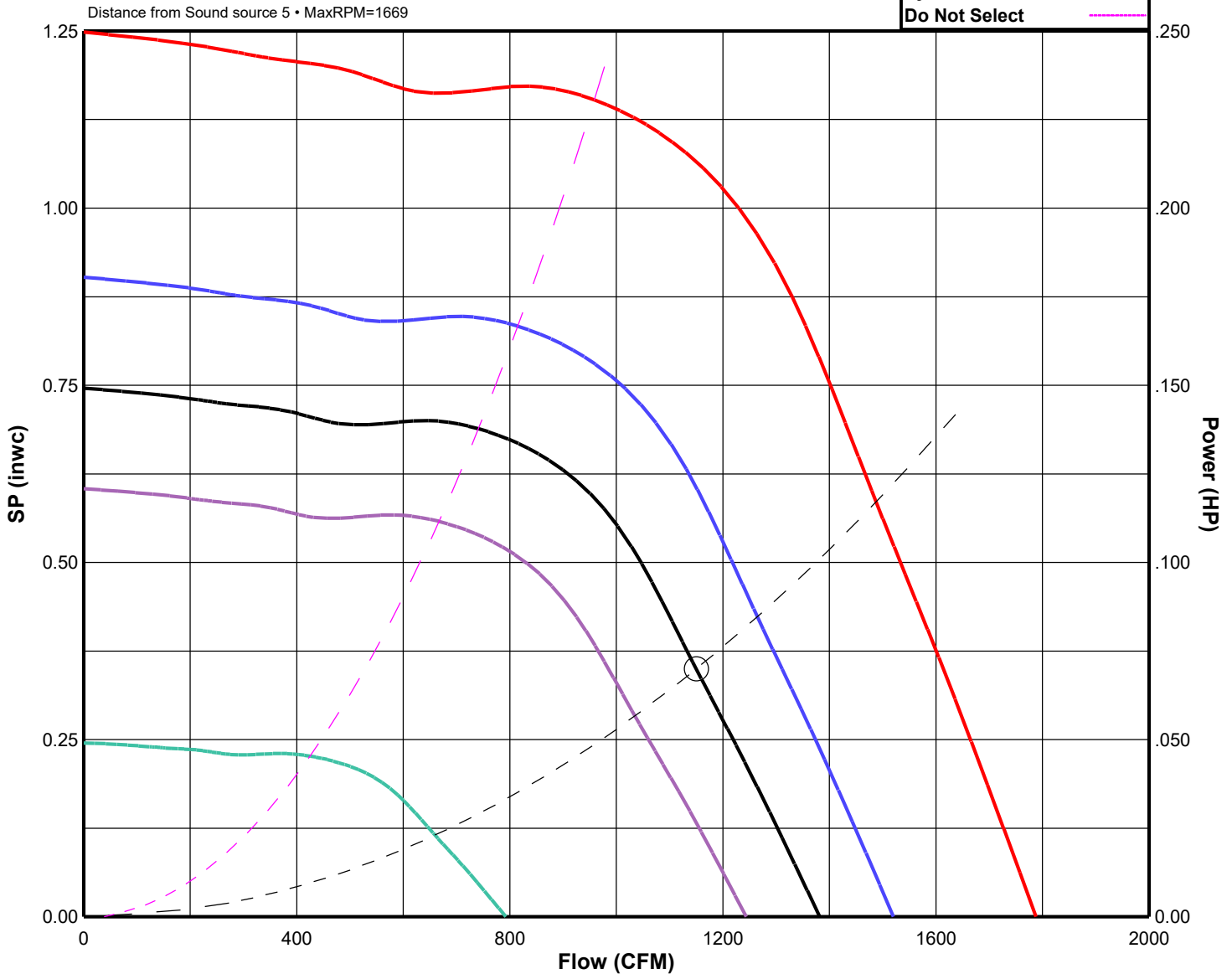
Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
120C3B	1150	.350	1290	.175	n/a(<1HP)	1211	4052	43%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
68	71	75	66	62	60	53	48	70	58	9.2

Fan Curve Legend

CFM vs SP (1290)	—
MaxRPM(1669)	—
MinRPM(740)	—
+ 10%(1419)	—
- 10%(1161)	—
CFM vs HP	—
Point of Operation	○
System Curve	- - -
Do Not Select	—





COOK

ACE-B

MARK: F-15

PROJECT: COLTRANE - WEBB

DATE: 3/19/2025

AMCA License Information

Loren Cook Company certifies that the 120C3B 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.

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 hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels. The AMCA International licensed air and/or sound performance data has been modified for installation, appurtenances or accessories, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.

The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to some ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.





BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

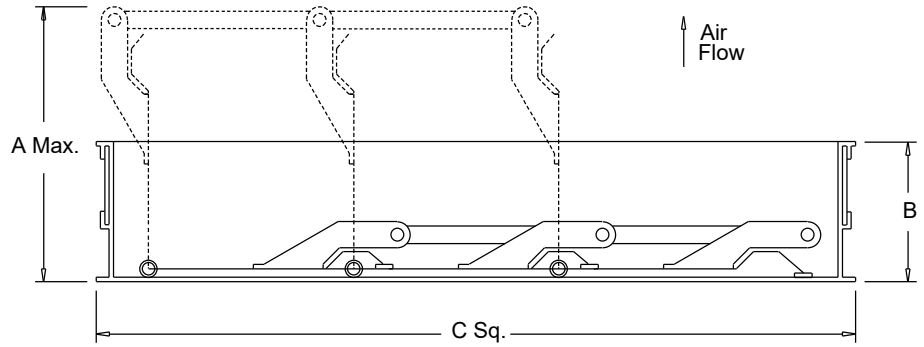
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-15	1	BD-14 DAMPER	5-3/16	1-7/8	13-3/4	1



RCG

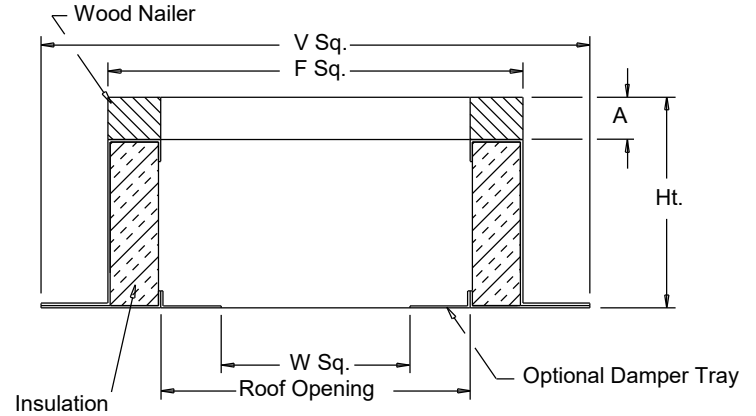
Galvanized Steel Roof Curb

STANDARD CONSTRUCTION FEATURES:

18 gauge galvanized steel - 1-1/2",
 3 lbs. density thermal and acoustical insulation - Continuously welded corners - Wood nailer.

Options:(As noted below*)

- 1) No wood nailer (deduct 1-1/2" for actual height).
- 2) Damper tray.
- 3) Liner.
- 4) Gasket on wood nailer.
- 5) Lorenized coating.
- 6) Enamel coating.
- 7) Burglar bars.



Dimensions (inches)

Mark	Qty	Description	Ht	Options*	A	F Sq.	V Sq.	W Sq.	Roof Opening
F-15	1	RCG 18	18	2; 4;	1-1/2	18-1/2	22-1/2	11-3/4	15-1/2



COOK



MARK: F-17
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

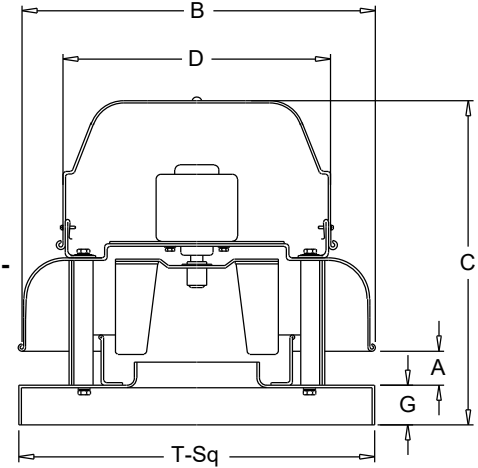
ACE-D VF

**Downblast Centrifugal Exhaust Ventilator
Roof Mounted/Direct Drive**

Electronically Commutated Vari-Flow® Motor

STANDARD CONSTRUCTION FEATURES:

All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches (sizes 120 - 300) - Welded curb cap corners - Birdscreen - Permanently lubricated ball bearing motors - Corrosion resistant fasteners - Transit tested packaging.



Performance

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	Speed Control
1	90C17DL (VF)	215	.350	1278	.026	n/a(<1HP)	EC

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure
1/20	1725	115/1/60	TENV -EC



Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
60	64	66	54	49	45	40	37	59	48	4.8

- Distance from Sound source 5 ft

Accessories:

- EXTERNAL SIGNAL SPEED CONTROL
- CTL & XFMR BY OTHERS
- DISCONNECT NEMA 1 PRE-WIRED
- BD-12 DAMPER
- ROOF CURB RCG 16 18H -C+T+N
- GASKET W/NAILER-CURB
- ALUMINUM BIRDSCREEN

Dimensions (inches)

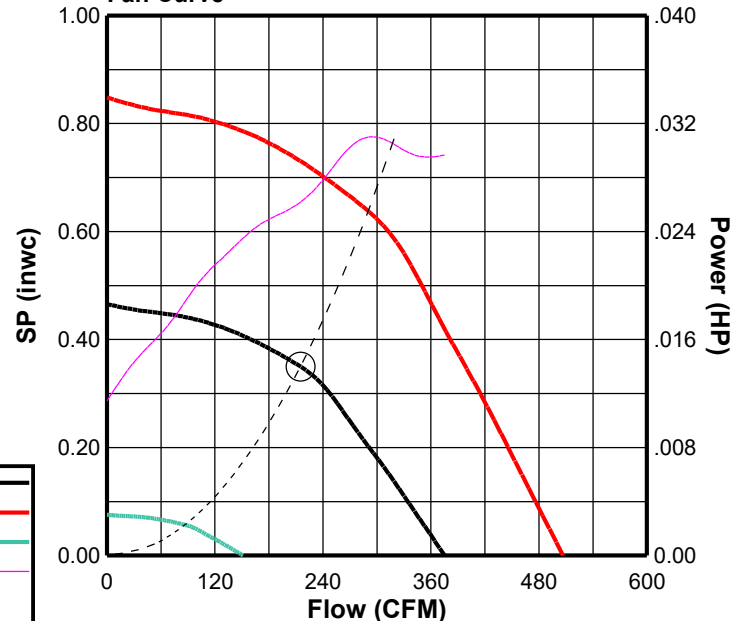
A	2-1/2
B O.D.	18-3/4
C	16-13/16
D O.D.	16-3/4
G	2
T Sq.	18
Roof Open. Sq.*	13-1/2

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping 62	Unit 54
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* Roof opening size for curbs supplied by Cook only.
***Includes fan, motor & accessories.

Fan Curve



Fan Curve Legend

CFM vs SP (1278)	—
100% EC (1725)	—
Min EC (515)	—
CFM vs HP	—
Point of Operation	○
System Curve	- - -



COOK



MARK: F-17
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

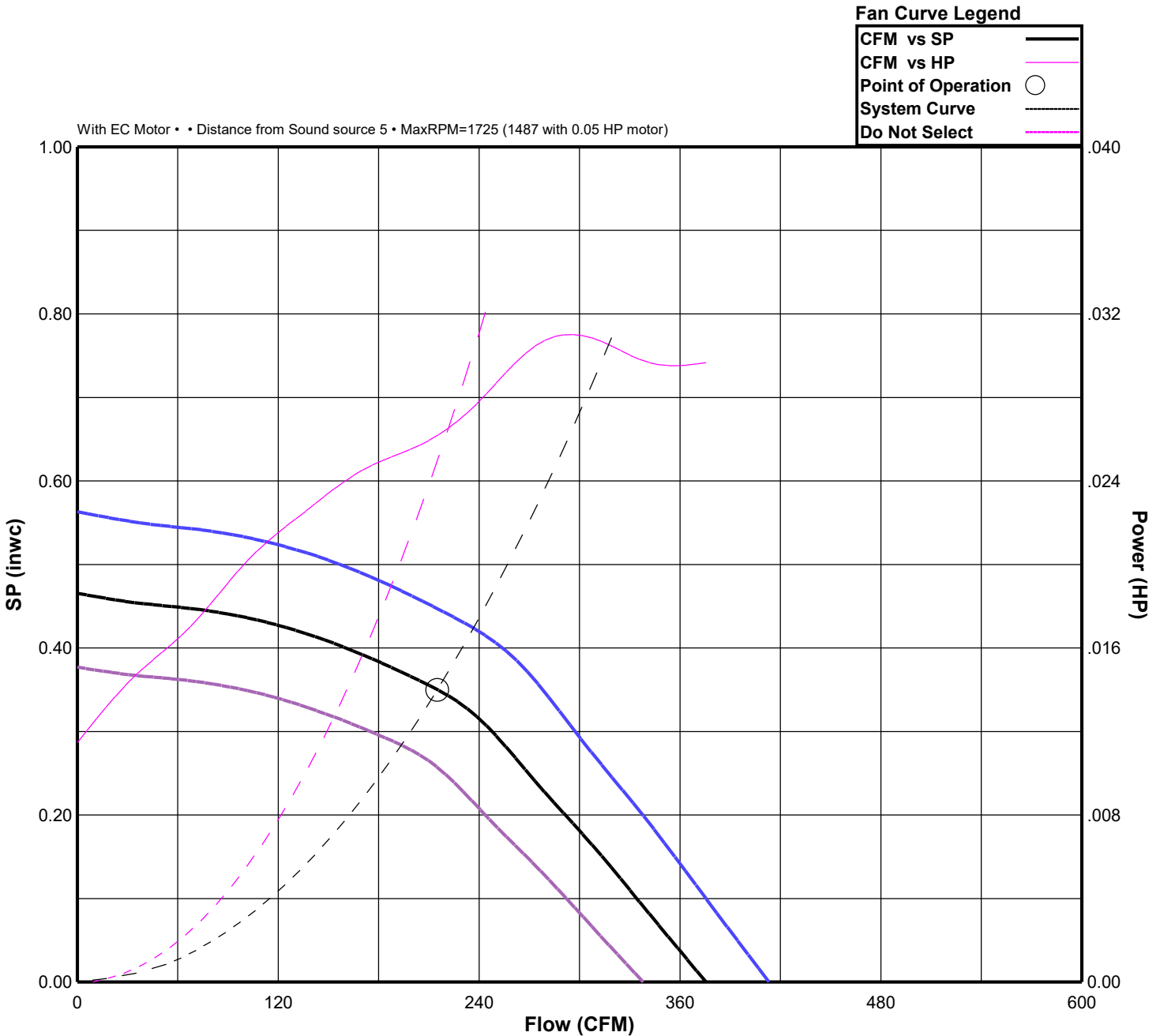
ACE-D VF

Performance

Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
90C17DL (VF)	215	.350	1278	.026	n/a(<1HP)	278	3011	46%	70	768

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
60	64	66	54	49	45	40	37	59	48	4.8





ACE-D VF

MARK: F-17
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

AMCA License Information



Loren Cook Company certifies that the 90C17DL 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.

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 hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels.



The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to sone ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.

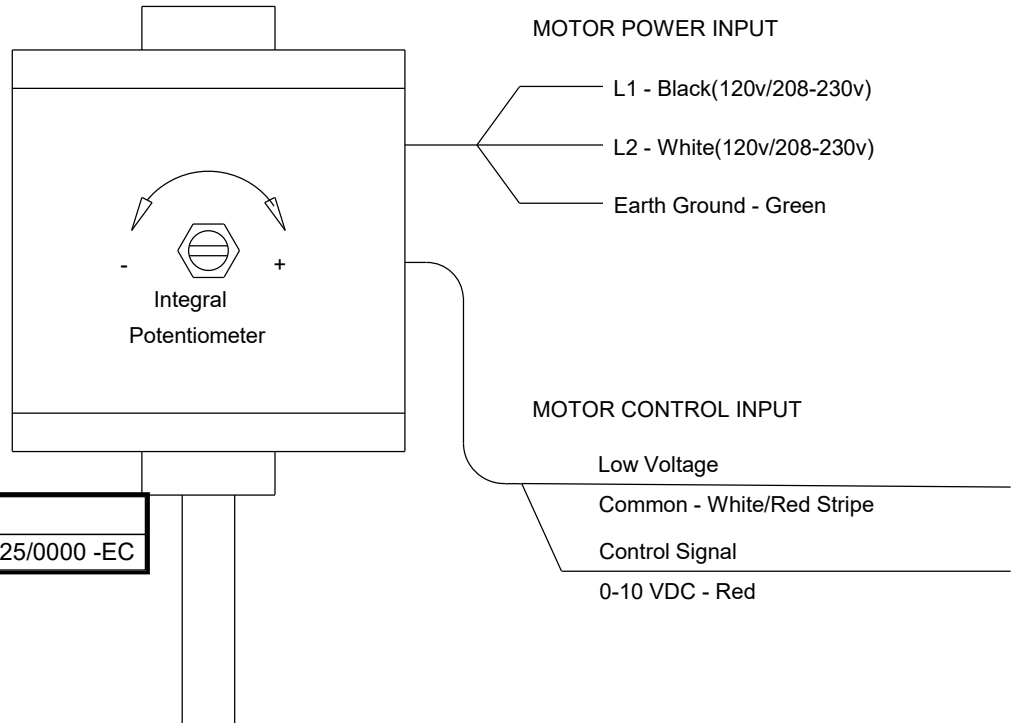


Speed Control

External Signal Speed Control Electronically Commutated (EC) Motor Type P

STANDARD CONSTRUCTION FEATURES:

Integral potentiometer with slotted screw
for speed adjustment.



Dimensions (inches)

Mark	Qty	Description
F-17	1	TENV -1/20HP - 115V/1 PH/ 60 1725/0000 -EC



BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

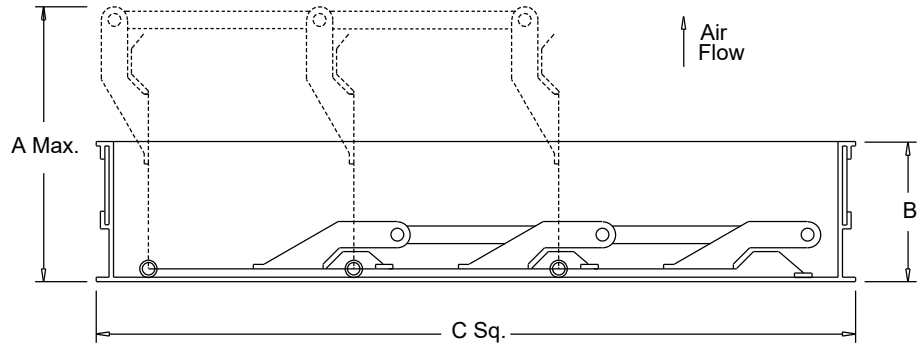
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-17	1	BD-12 DAMPER	5-3/16	1-7/8	11-3/4	1



RCG

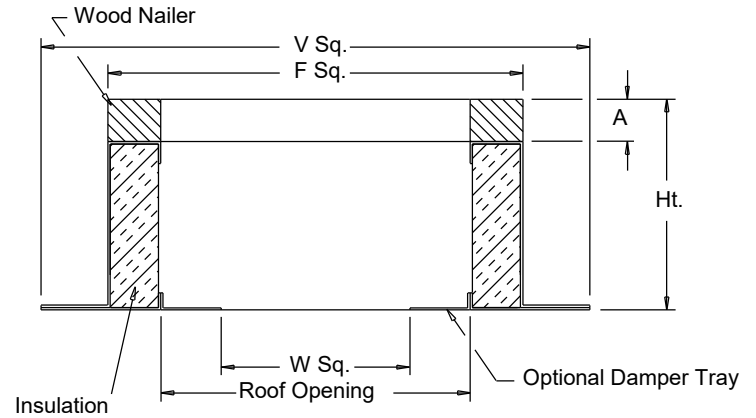
Galvanized Steel Roof Curb

STANDARD CONSTRUCTION FEATURES:

18 gauge galvanized steel - 1-1/2",
3 lbs. density thermal and acoustical
insulation - Continuously welded corners -
Wood nailer.

Options:(As noted below*)

- 1) No wood nailer (deduct 1-1/2" for actual height).
- 2) Damper tray.
- 3) Liner.
- 4) Gasket on wood nailer.
- 5) Lorenized coating.
- 6) Enamel coating.
- 7) Burglar bars.



Dimensions (inches)

Mark	Qty	Description	Ht	Options*	A	F Sq.	V Sq.	W Sq.	Roof Opening
F-17	1	RCG 16	18	2; 4;	1-1/2	16-1/2	20-1/2	9-3/4	13-1/2



COOK



MARK: F-18
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

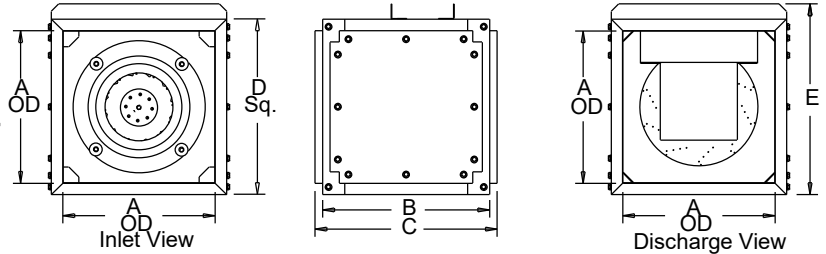
SQN-D VF

**Centrifugal Square Inline
Direct Drive
Preprogrammed EC**

Electronically Commutated Vari-Flow® Motor

STANDARD CONSTRUCTION FEATURES:

All aluminum wheel - Galvanized 18 gauge steel housing - Three removable access doors - Closed cell neoprene gasketing - Inlet and discharge duct collars - Universal mounting feet - Preprogrammed EC electronically commutated Vari-Flow® motor/drive package - Transit tested packaging.



Performance

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	FEI	Speed Control
1	150SQN17D (VF)	2800	.500	1614	.823	n/a(<1HP)	0.98	EC

Altitude (ft): 768 Temperature (F): 70

Motor Information

HP	RPM*	Volts/Ph/Hz	Enclosure	RLA
1	1725	115/1/60	OPEN -EC	11.6



*Motor programmed to max speed of 1694 RPM.
RLA based on motor manufacturer's data at programmed HP and max RPM.
Motor is electronically/thermally protected.

Sound Data Sound Power by Octave Band

	1	2	3	4	5	6	7	8	LwA	dBA	Sones
Inlet	72	79	84	85	77	73	69	62	84	73	20.1
Outlet	75	81	79	76	77	76	71	63	82	71	18.7

- Distance from Sound source 5 ft

Accessories:

- EXTERNAL SIGNAL SPEED CONTROL
- CTL & XFMR BY OTHERS
- DISCONNECT NEMA 1 PRE-WIRED
- BD-20 DAMPER
- INSULATED HOUSING
- RC-75 SET(4) - ISOLATORS

Dimensions (inches)

A	20
B	21-7/8
C	23-7/8
D Sq	23
E	25-1/16
Housing Gauge	18

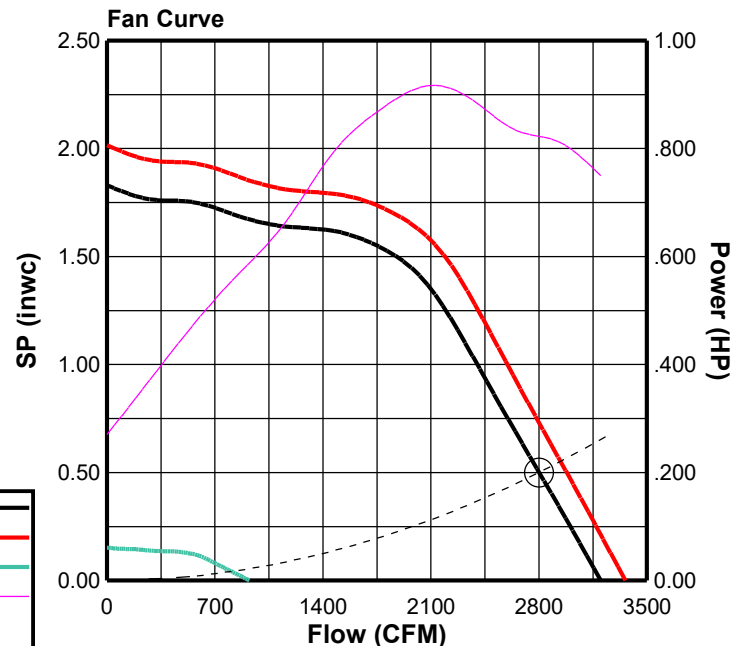
NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	204	Unit	124
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***Includes fan, motor & accessories.

Fan Curve Legend

CFM vs SP (1614)	—
100% EC (1694)	—
Min EC (466)	—
CFM vs HP	—
Point of Operation	○
System Curve	- - -





COOK



MARK: F-18
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

SQN-D VF

Performance

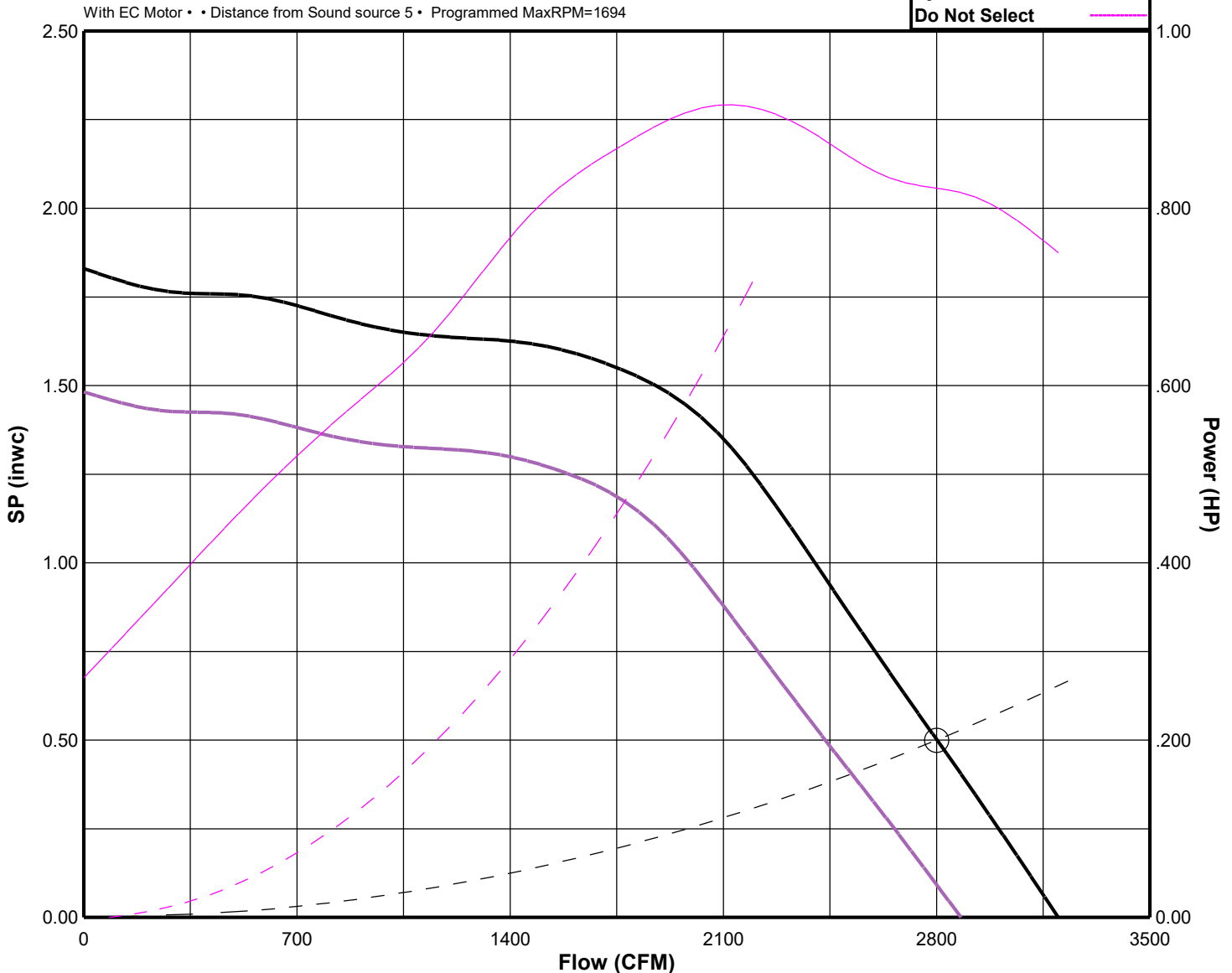
Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	FEI	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
150SQN17D (VF)	2800	.500	1614	.823	n/a(<1HP)	0.98	1007	6338	27%	70	768

Sound Data Sound Power by Octave Band

	1	2	3	4	5	6	7	8	LwA	dBA	Sones
Inlet	72	79	84	85	77	73	69	62	84	73	20.1
Outlet	75	81	79	76	77	76	71	63	82	71	18.7

Fan Curve Legend

CFM vs SP	—
100% EC (1694)	—
CFM vs HP	—
Point of Operation	○
System Curve	- - -
Do Not Select	· · ·





SQN-D VF

MARK: F-18
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

AMCA License Information

Loren Cook Company certifies that the 150SQN17D 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.

Performance certified is for installation type B: free inlet, ducted outlet. Power rating (BHP/kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi, LwiA and outlet Lwo, LwoA sound power levels for installation type B: free inlet, ducted outlet. Outlet ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301.

The sound ratings shown are loudness values in hemispherical sones at 5 ft. in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation type B: free inlet, ducted outlet hemispherical sone levels. Outlet ratings do not include the effect of duct end correction. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to Octave Bands and LwA only. Sone ratings and dBA levels are not AMCA International licensed.





Speed Control

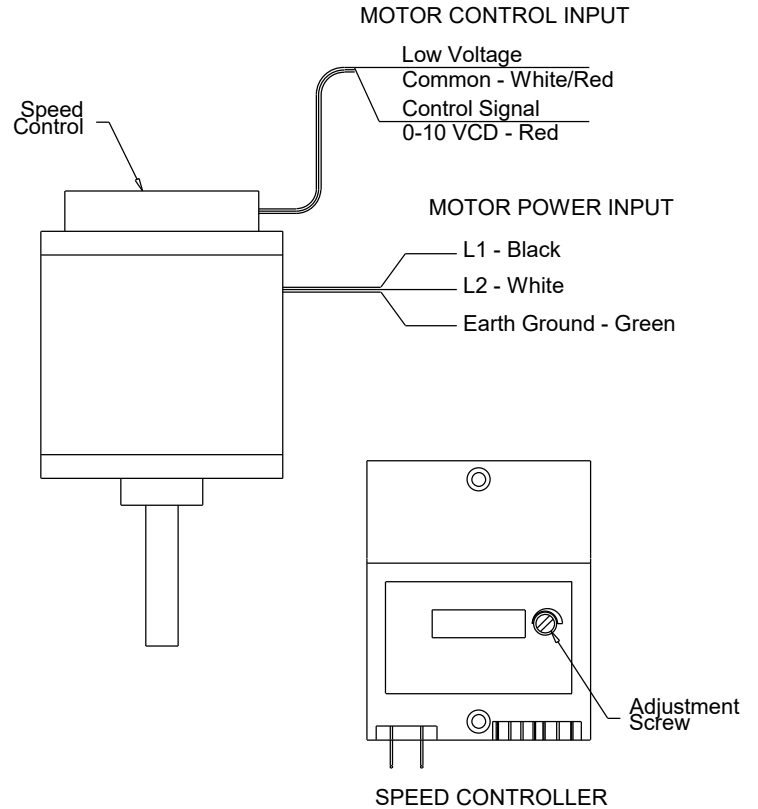
External Speed Control Electronically Commutated (EC) Motor Type N

STANDARD CONSTRUCTION FEATURES:

Vari-Flow EC Motors are available in 1/8 to 1 HP for 120V or 208-230V -Single phase applications have a adjustable speed range of 500 to 1725 or 500 to 2800 - Some motors come with a factory programmed maximum RPM for specific applications - External signal speed control requires a 0-10 VDC control signal to adjust speed of the motor - The motor will operate from 2-10 VDC and turns off when the control signal is below 1.9 VDC - Dial on speed control must be set to 0 for proper external speed control operation.

Dimensions (inches)

Mark	Qty	Description
F-18	1	OPEN -1HP - 115V/1 PH/ 60 1725/0000 -EC





BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

.020 Aluminum blades - .060 aluminum frame -
Aluminum hinge pins - Nylon bushings.

Notes:

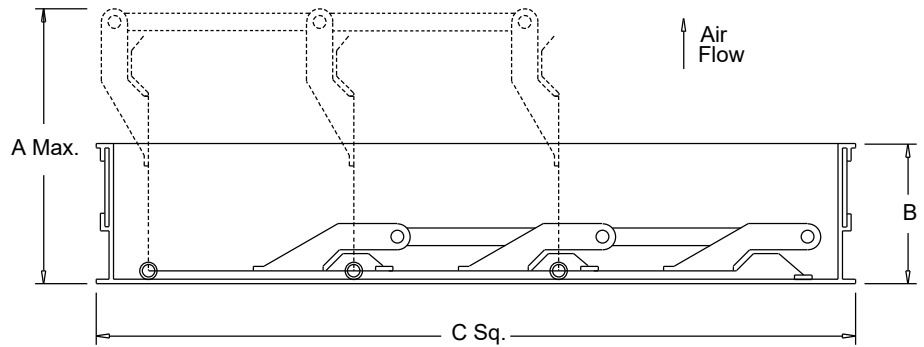
Max. operating temperature 200 Deg F (95 Deg C).

Max. discharge velocity 2000 fpm.

Sizes 36 thru 60 are shipped as 2 panels.

Sizes 66 and 78 are shipped as 6 panels.

These may require assembly.



Dimensions (inches)

Mark	Qty	Description	A Max.	B	C Sq.	# Panels
F-18	1	BD-20 DAMPER	5-3/16	1-7/8	19-3/4	1



COOK

PROJECT: COLTRANE - WEBB

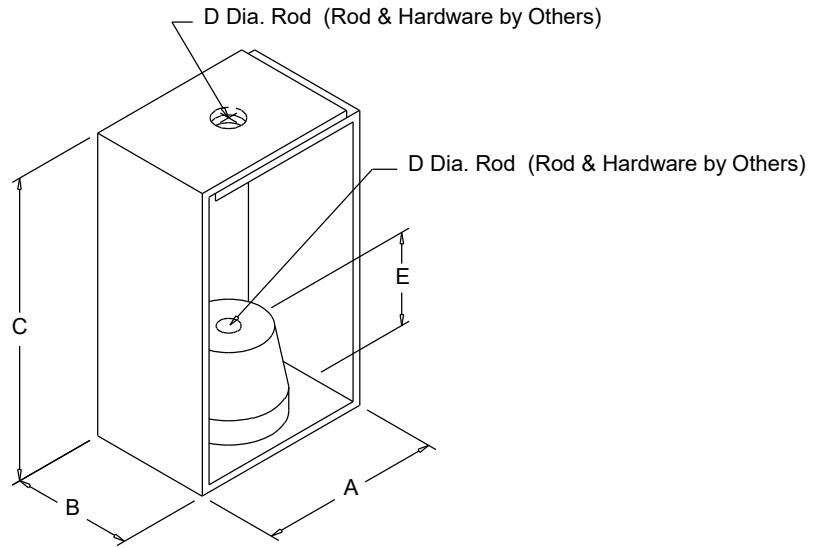
DATE: 3/19/2025

RIS CEILING

Rubber-In-Shear
Isolator
Ceiling Mounted

NOTE:

Dimensions are for informational
purposes only - Not for construction.



Dimensions (inches)

Mark	Qty	Description	A	B	C	D	E
F-18	1	RC-75 SET(4)	2.15	1.50	2.72	0.38	0.45



COOK

MARK: RIV-2
PROJECT: COLTRANE - WEBB
DATE: 3/19/2025

Limited Warranty

Loren Cook Company warrants that your Loren Cook fan was manufactured free of defects in materials and workmanship, to the extent stated herein. For a period of one (1) year after date of shipment, we will replace any parts found to be defective without charge, except for shipping costs which will be paid by you.

This warranty is granted only to the original purchaser placing the fan in service.

This warranty is void if the fan or any part thereof has been altered or modified from its original design or has been abused, misused, damaged or is in worn condition or if the fan has been used other than for the uses described in the company manual. This warranty does not cover defects resulting from normal wear and tear.

To make a warranty claim, notify Loren Cook Company, General Offices, 2015 East Dale Street, Springfield, Missouri 65803-4637, explaining in writing, in detail, your complaint and referring to the specific model and serial numbers of your fan. Upon receipt by Loren Cook Company of your written complaint, you will be notified, within thirty (30) days of our receipt of your complaint, in writing, as to the manner in which your claim will be handled. If you are entitled to warranty relief, a warranty adjustment will be completed within sixty (60) business days of the receipt of your written complaint by Loren Cook Company.

This warranty gives only the original purchaser placing the fan in service specifically the right. You may have other legal rights which vary from state to state.

For fans provided with motors, the motor manufacturer warrants motors for a designated period stated in the manufacturer's warranty. Warranty periods vary from manufacturer to manufacturer. Should motors furnished by Loren Cook Company prove defective during the designated period, they should be returned to the nearest authorized motor service station. Loren Cook Company will not be responsible for any removal or installation costs.