



COOK



MARK: DISH FAN

PROJECT: WILL RODGERS DOWNS CASINO EFS

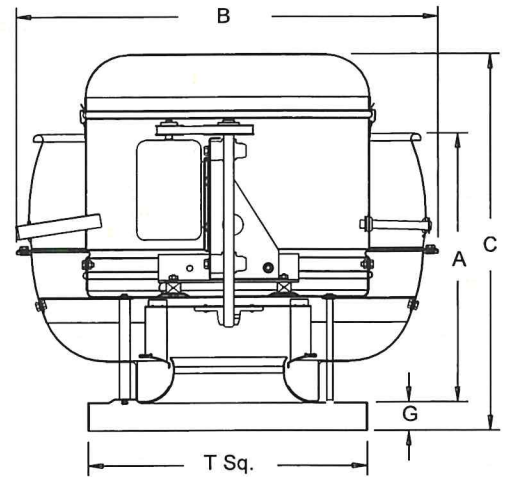
DATE: 11/19/2025

ACRU-HP

**Upblast 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 - One piece bottom spinning - 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 12% drive loss)

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG	FEI
1	165RH7B	1700	1.00	1360	.635	n/a(<1HP)	1.28

Altitude (ft): 676 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	Mounted
1	1725	115/1/60	ODP -SE	16	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
75	71	78	72	65	67	63	57	75	63	12.3

- Distance from Sound source 5 ft

Accessories:

DRIVES (1.5 SF) @ 1360 RPM
DISCONNECT NEMA 1 PRE-WIRED
BD-18 DAMPER
BELT TENSIONER-ROTARY
WALL CONSTRUCTION FOR EXISTING WALL CURB

Dimensions (inches)

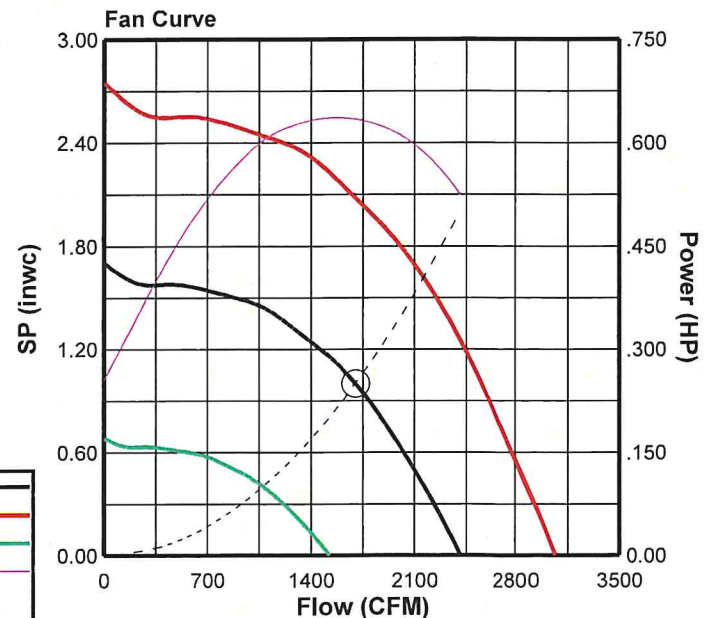
A	20-15/16
B	34-11/16
C	27-3/4
G	2
T Sq.	24
Roof Open. Sq.*	19-1/2

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	Unit
146	121	

* Roof opening size for curbs supplied by Cook only.

***Includes fan, motor & accessories.



Fan Curve Legend

CFM vs SP (1360)	—
MaxRPM(1728)	—
MinRPM(860)	—
CFM vs HP	—
Point of Operation	○
System Curve	---



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ACRU-HP

Performance (*Bhp includes 12% drive loss)

Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG	FEI	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
165RH7B	1700	1.00	1360	.635	n/a(<1HP)	1.28	633	5874	47%	70	676

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
75	71	78	72	65	67	63	57	75	63	12.3

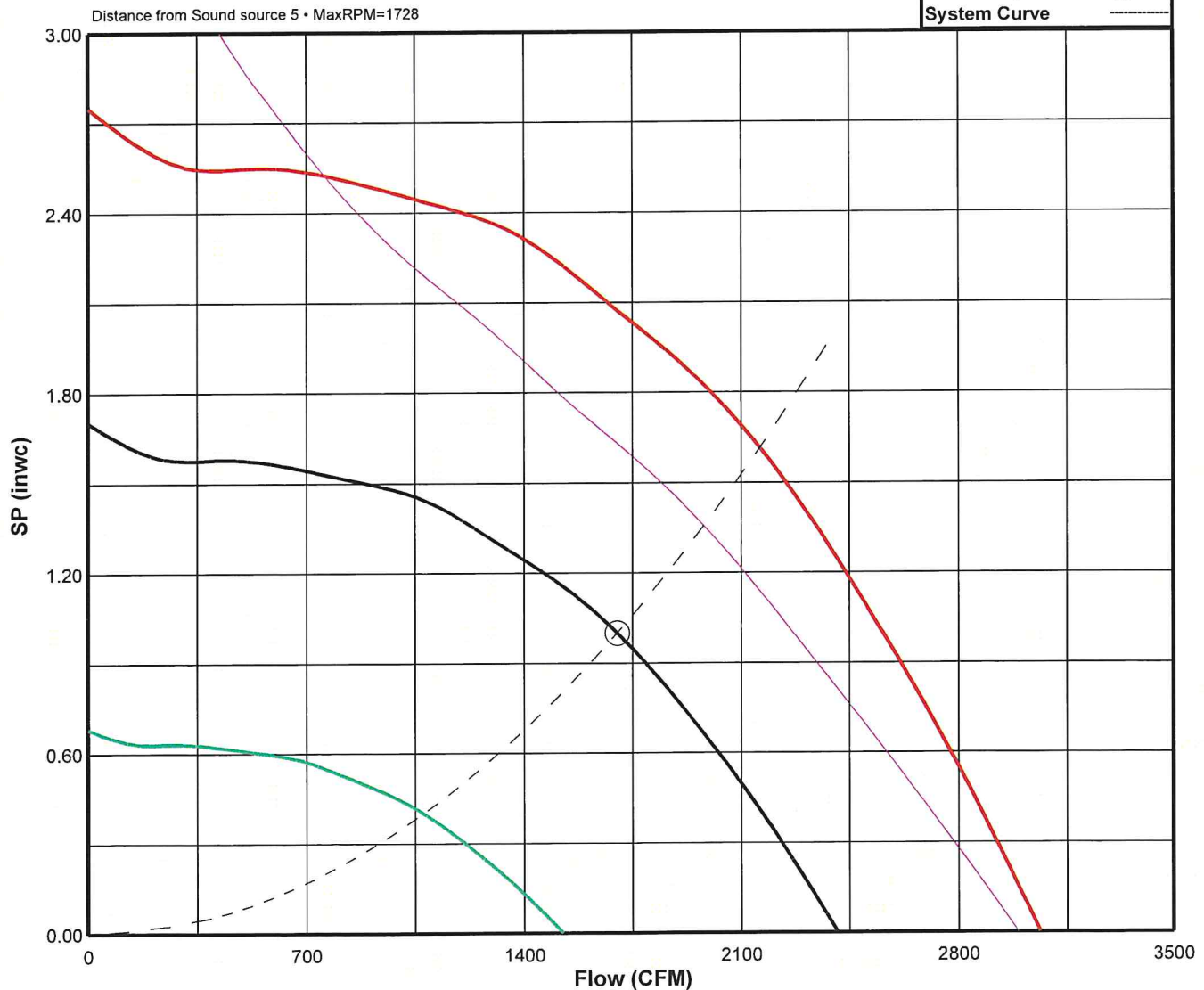
Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	Mounted
1	1725	115/1/60	ODP -SE	16	Yes

FLA based on NEC (2017) Table 430.248

Fan Curve Legend

CFM vs SP (1360)	—
MaxRPM(1728)	—
MinRPM(860)	—
HP Curve (1)	—
Point of Operation	○
System Curve	---





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ACRU-HP

MARK: DISH FAN

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DATE: 11/19/2025

AMCA License Information



Loren Cook Company certifies that the 165RH7B 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.



COOK

PROJECT: WILL RODGERS DOWNS CASINO EFS

DATE: 11/19/2025

BD

Gravity Backdraft Damper

STANDARD CONSTRUCTION FEATURES:

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

Notes:

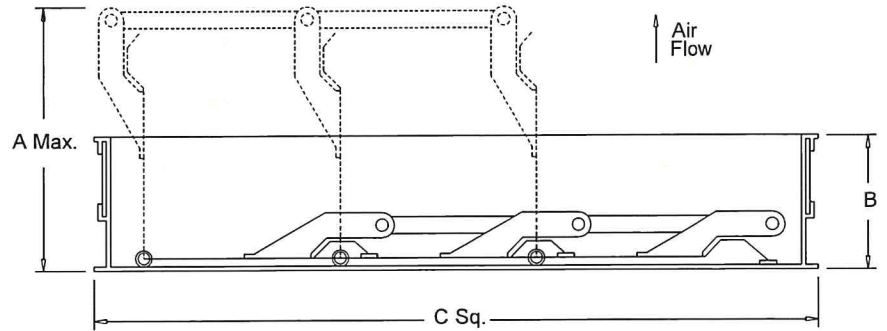
Max. operating temperature 200 Deg F (95 Deg C).

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
DISH FAN	1	BD-18 DAMPER	5-3/16	1-7/8	17-3/4	1



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MARK: KEF-1

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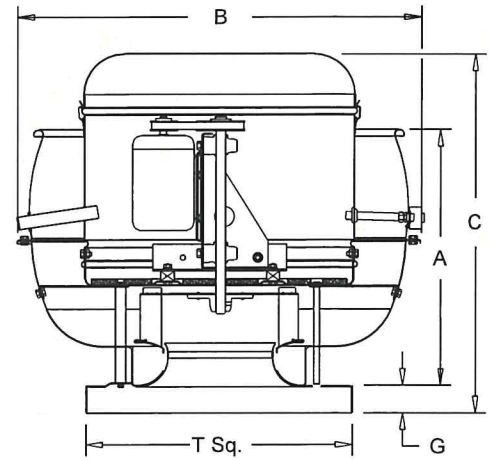
DATE: 11/19/2025

VCR-XP

Upblast 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 - One piece bottom spinning - Welded curb cap corners - 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 cast iron pillow block housing, rated at 200,000 hours average life - All fans factory adjusted to specified fan RPM - Transit tested packaging.



Performance (*Bhp includes 7% drive loss)

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG	FEI
1	245VX10B	3690	2.00	1510	2.78	56	0.97

Altitude (ft): 676 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	Mounted	VFD Rated
3	1725	460/3/60	TEFC -PE	4.8	Yes	Yes

NEMA Premium® efficiency motor per MG-1 (2014) Table 12-12
FLA based on NEC (2017) Table 430.250

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
83	92	89	86	81	78	76	72	88	76	27

- Distance from Sound source 5 ft

Accessories:

Premium Efficiency Motor (Min. 89.5%)
DRIVES (1.5 SF) @ 1510 RPM
DISCONNECT NEMA 3 PRE-WIRED
UL762 (327Y-300DEG)
GREASE TERMINATOR
BELT TENSIONER-ROTARY
WALL CONSTRUCTION FOR EXISTING WALL CURB
751429 VFD

Dimensions (inches)

A	28-1/2
B	49-1/4
C	34-1/16
G	3
T Sq.	30
Roof Open. Sq.*	25-1/2

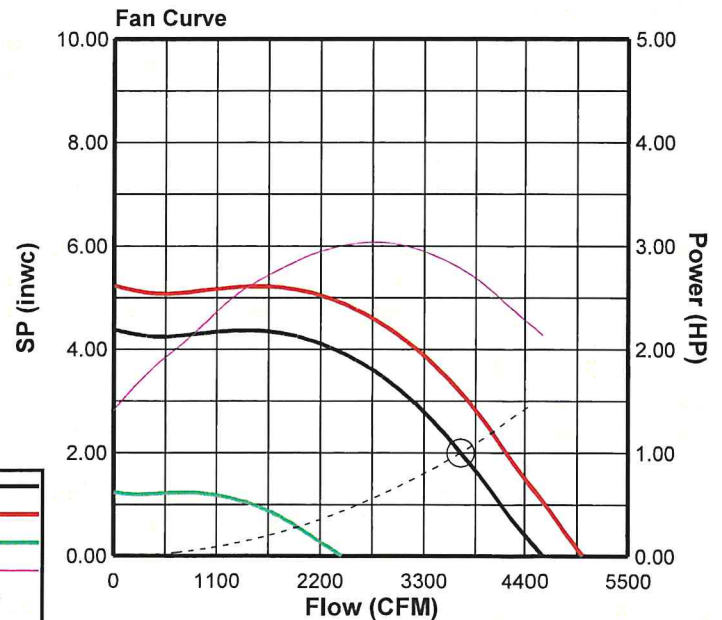
NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	381	Unit	245
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* Roof opening size for curbs supplied by Cook only.
***Includes fan, motor & accessories.

Fan Curve Legend

CFM vs SP (1510)	—
MaxRPM(1650)	—
MinRPM(800)	—
CFM vs HP	—
Point of Operation	○
System Curve	---





COOK



MARK: KEF-1

PROJECT: WILL RODGERS DOWNS CASINO EFS

DATE: 11/19/2025

VCR-XP

Performance (*Bhp includes 7% drive loss)

Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG	FEI	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
245VX10B	3690	2.00	1510	2.78	56	0.97	598	9685	45%	70	676

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
83	92	89	86	81	78	76	72	88	76	27

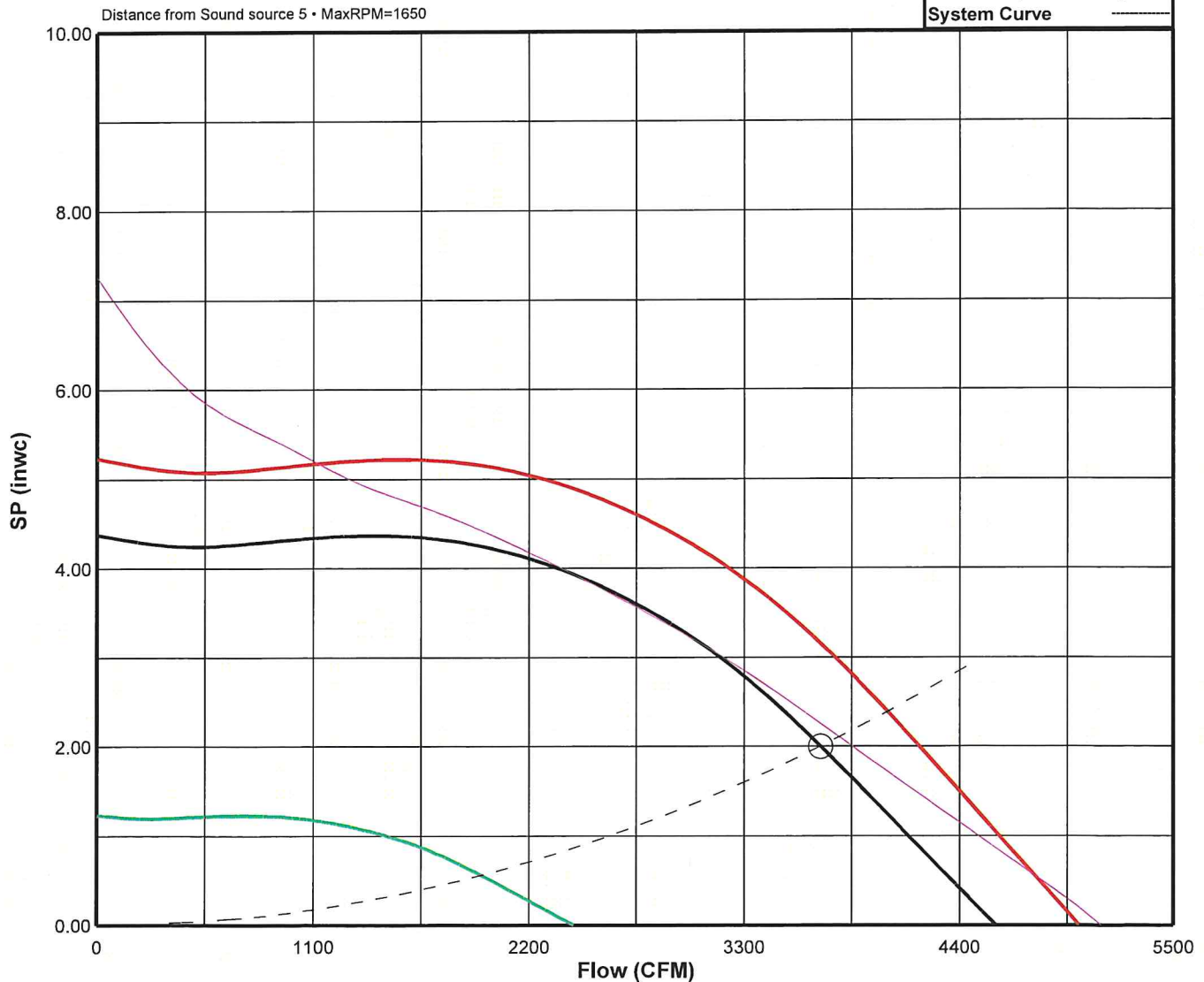
Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	Mounted	VFD Rated
3	1725	460/3/60	TEFC -PE	4.8	Yes	Yes

FLA based on NEC (2017) Table 430.250

Fan Curve Legend

CFM vs SP (1510)	—
MaxRPM(1650)	—
MinRPM(800)	—
HP Curve (3)	—
Point of Operation	○
System Curve	---





COOK

VCR-XP

MARK: KEF-1
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DATE: 11/19/2025

AMCA License Information



Loren Cook Company certifies that the 245VX10B 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.

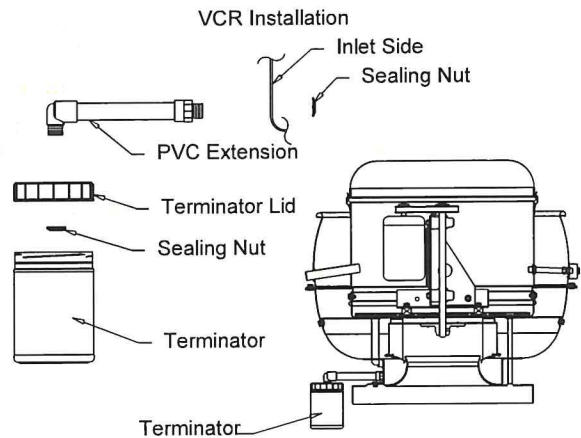
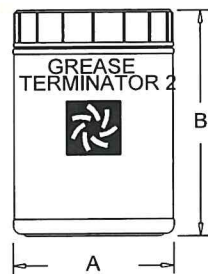


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DATE: 11/19/2025

Grease Terminator 2

Assembly and Installation



Dimensions (inches)

Mark	Qty	Description	A	B
KEF-1	1	GREASE TERMINATOR	4-13/16	6-3/4



COOK



MARK: KEF-2

PROJECT: WILL RODGERS DOWNS CASINO EFS

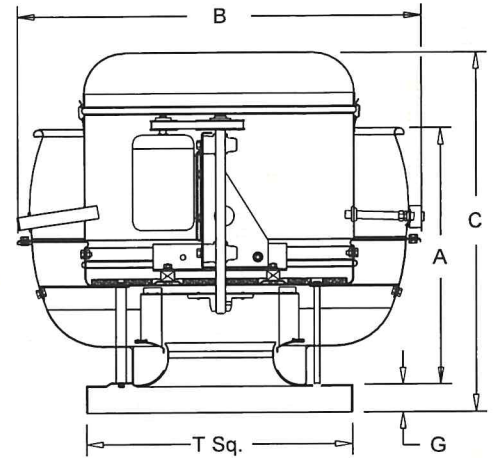
DATE: 11/19/2025

VCR-HP

**Upblast 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 - One piece bottom spinning - Welded curb cap corners - 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 cast iron pillow block housing, rated at 200,000 hours average life - All fans factory adjusted to specified fan RPM - Transit tested packaging.



Performance (*Bhp includes 13% drive loss)

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG
1	150VH6B	1100	.850	1514	.534	n/a(<1HP)

Altitude (ft): 676 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	Mounted	VFD Rated
3/4	1725	460/3/60	TEFC -SE	1.6	Yes	Yes

FLA based on NEC (2017) Table 430.250

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
83	74	71	67	64	69	63	56	73	62	12.1

- Distance from Sound source 5 ft

Accessories:

DRIVES (1.5 SF) @ 1514 RPM
DISCONNECT NEMA 3 PRE-WIRED
UL762 (327Y-300DEG)
GREASE TERMINATOR
BELT TENSIONER-ROTARY
WALL CONSTRUCTION FOR EXISTING WALL CURB
751427 VFD

Dimensions (inches)

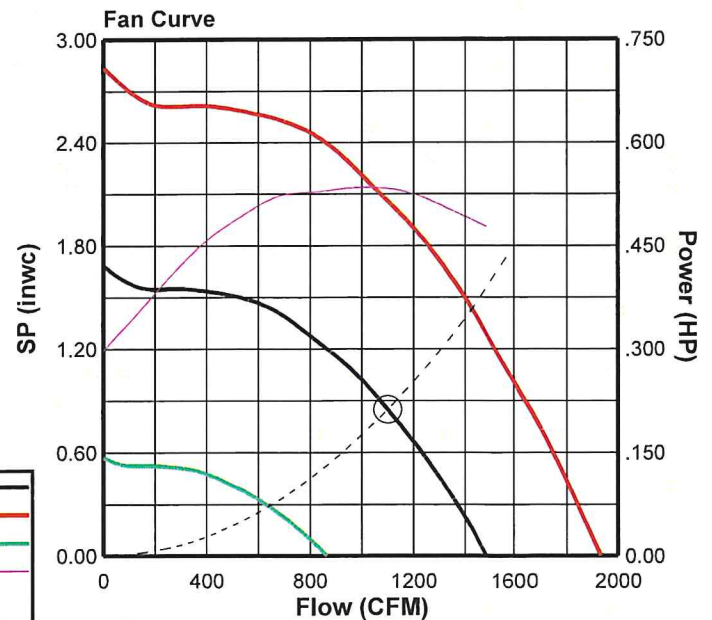
A	20-15/16
B	34-11/16
C	27-1/2
G	2
T Sq.	24
Roof Open. Sq.*	19-1/2

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	120	Unit	95
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* Roof opening size for curbs supplied by Cook only.

***Includes fan, motor & accessories.



Fan Curve Legend

CFM vs SP (1514)	—
MaxRPM(1965)	—
MinRPM(880)	—
CFM vs HP	—
Point of Operation	○
System Curve	---



COOK



MARK: KEF-2

PROJECT: WILL RODGERS DOWNS CASINO EFS

DATE: 11/19/2025

VCR-HP

Performance (*Bhp includes 13% drive loss)

Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power* (HP)	FEG	OVEL (fpm)	TSPD (fpm)	SE	Temp (°F)	ALT (ft)
150VH6B	1100	.850	1514	.534	n/a(<1HP)	410	5945	31%	70	676

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
83	74	71	67	64	69	63	56	73	62	12.1

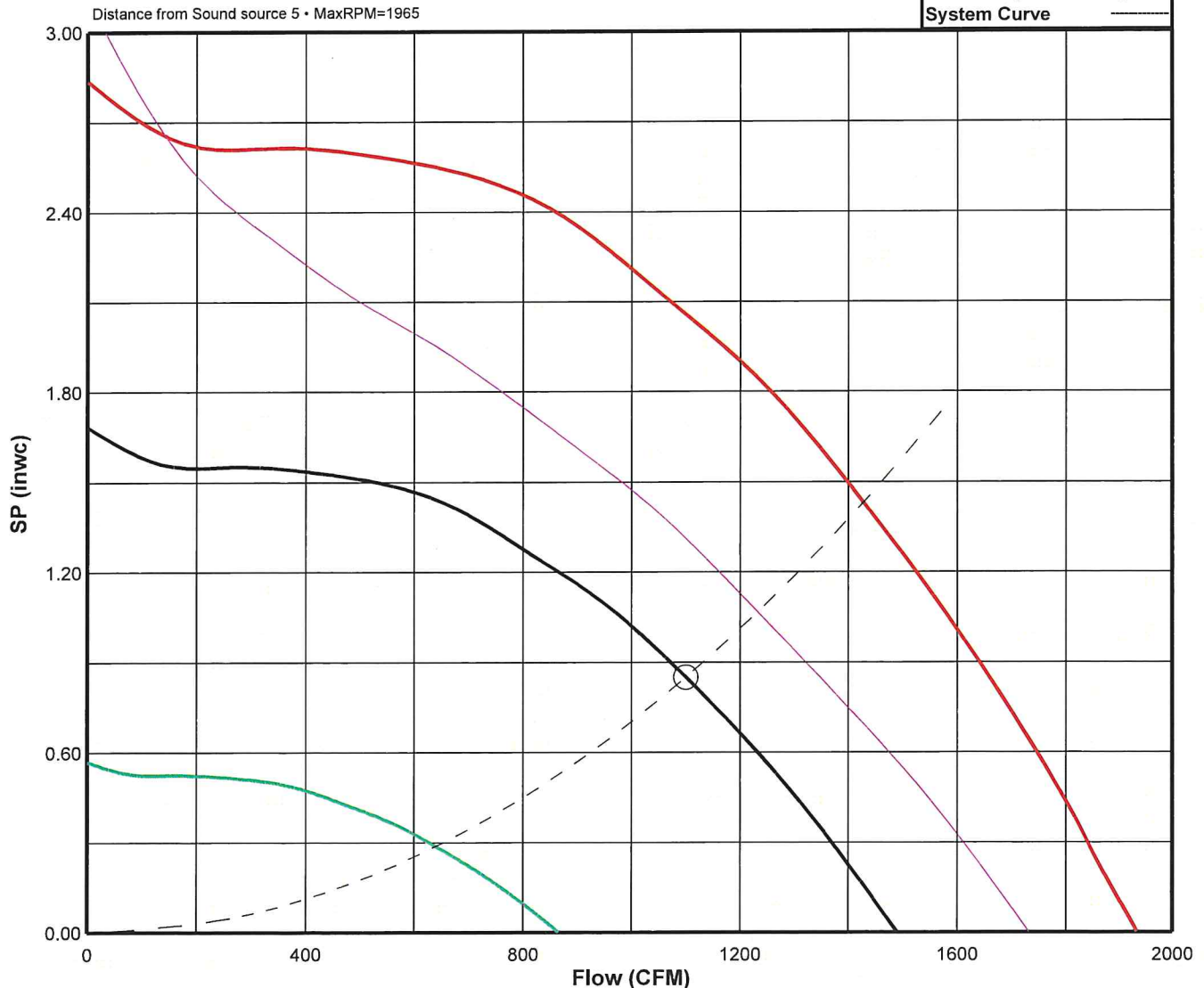
Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	Mounted	VFD Rated
3/4	1725	460/3/60	TEFC -SE	1.6	Yes	Yes

FLA based on NEC (2017) Table 430.250

Fan Curve Legend

CFM vs SP (1514)	—
MaxRPM(1965)	—
MinRPM(880)	—
HP Curve (0.75)	—
Point of Operation	○
System Curve	---





COOK

VCR-HP

MARK: KEF-2

PROJECT: WILL RODGERS DOWNS CASINO EFS

DATE: 11/19/2025

AMCA License Information



Loren Cook Company certifies that the 150VH6B 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.

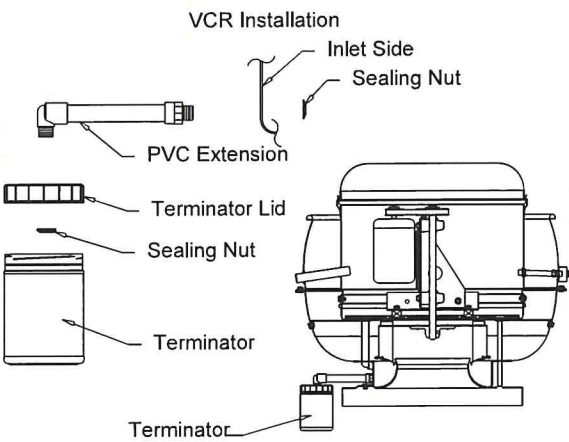
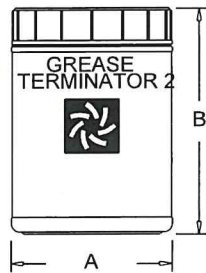


COOK

PROJECT: WILL RODGERS DOWNS CASINO EFS
DATE: 11/19/2025

Grease Terminator 2

Assembly and Installation



Dimensions (inches)

Mark	Qty	Description	A	B
KEF-2	1	GREASE TERMINATOR	4-13/16	6-3/4



COOK

MARK: KEF-2
PROJECT: WILL RODGERS DOWNS CASINO EFS
DATE: 11/19/2025

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.



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DATE: 11/19/2025

Blower Standard Construction Features

- * Heavy duty relubricatable, self-aligning bearings rated for 200,000 hours average life.
- * Precision turned ground & polished solid steel shafts sized for critical speed of 125% of max cataloged conditions.
- * All steel components Lorenized with an electrostatically applied baked polyester powder coating.
- * Integral adjustable motor mounting plate on arrangements 9 and 10.
- * Dynamically balanced wheels.
- * Static resistant belts.
- * Pre-punched mounting holes.
- * Corrosion resistant fasteners.

PRODUCT SPECIFIC FEATURES

CIC – Inline Centrifugal Blower

UL 705 Listed * Flanged outlet * Lifting lugs * Inlet collar for slip-fit duct connection * Fully welded straightening vanes * Lube lines extended to exterior of unit * Continuously welded, high efficiency airfoil wheel * Heavy gauge spun aluminum inlet cone * Continuously welded heavy gauge housing.



CA – Airfoil Centrifugal Blower

UL 705 Listed * AMCA Air and Sound certified performance * Flanged outlet * Lifting lugs * Inlet collar for slip-fit duct connection on arrangements 1, 2, 4, 8, 9 and 10 * Continuously welded high efficiency airfoil wheel * Heavy gauge spun aluminum inlet cone * Continuously welded heavy gauge housing.



CF – Backward Inclined Centrifugal Blower

UL 705 Listed * AMCA Air and Sound certified performance * Flange outlet * Lifting lugs * Inlet collar for slip-fit duct connection on arrangements 1, 2, 4, 8, 9 and 10 * Continuously welded, heavy duty flat blade wheel * Heavy gauge spun aluminum inlet cone * Continuously welded heavy gauge housing.



CPS/CPA – Vent Set

UL 705 Listed * AMCA Air and Sound certified performance * Field rotatable housings * AMCA 'A' all aluminum airstream construction on CPA * Flanged outlet * Lifting lugs * Inlet collar for slip-fit duct connection * Continuously welded, heavy duty flat blade wheel * Heavy gauge spun aluminum inlet cone * Continuously welded housing.



CPS-A/CPA-A – Vent Set

UL 705 Listed * AMCA Air and Sound certified performance * Field rotatable housings * AMCA 'A' all aluminum airstream construction on CPA-A * Flanged outlet * Lifting lugs * Inlet collar for slip-fit duct connection * Continuously welded, high efficiency airfoil wheel * Heavy gauge spun aluminum inlet cone * Continuously welded housing.



CPV – Vent Set

UL 705 Listed * AMCA Air and Sound certified performance * Field rotatable housings * Flanged outlet * Lifting lugs * Inlet collar for slip-fit duct inlet connection * All aluminum flat blade wheel * Heavy gauge spun aluminum inlet cone * Continuously welded housing.



CPFB/CPFD – Vent Set

UL 705 Listed * AMCA Air and Sound certified performance * Field rotatable housings * Flanged outlet on CPFB, slip-fit outlet on CPFD * Lifting lugs * Inlet Collar for slip-fit inlet duct connection * Forward curved wheel * Heavy gauge spun aluminum inlet cone on CPFB, steel inlet on CPFD * Continuously welded housing on CPFB.



CCP – Plug Fan

UL 705 Listed * Lifting lugs * Heavy gauge mounting panel with welded corners * Continuously welded, airfoil and flat blade wheel available * Heavy gauge spun aluminum inlet cone.



PLC – Plenum Fan

UL 705 Listed * AMCA Air and Sound certified performance * Heavy duty structural steel frame with heavy gauge inlet panel welded at all connections * Continuously welded, airfoil wheel * Heavy gauge spun aluminum inlet cone.



CFS – Centrifugal Filtered Supply Fan

UL 705 Listed * Continuously welded, high efficiency airfoil wheel * Extruded aluminum tiers with continuously welded and mitered corners * Removable aluminum top cap with welded corners * Permanent removable washable filters * Continuously welded heavy gauge blower housing.



MH/MHB – Industrial Material Handler

UL Classified * AMCA Air certified performance * Field rotatable housing * Lifting lugs * Inlet collar for slip-fit duct connection * Continuously welded, heavy duty radial tip wheel * Continuously welded housing * Heavy duty structural steel housing supports.



MHA – Industrial Material Handler

UL Classified * AMCA Air and Sound certified performance * Field rotatable housing * Lifting lugs * Inlet collar for slip-fit duct connection * Continuously welded, heavy duty backward inclined flatblade wheel * Continuously welded housing * Heavy duty structural steel housing supports.



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