



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.

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Date: 8/6/2026

Return Request: 8/13/2026

Project: Hot Springs National Park – Rehabilitate Bathhouses – Maurice Bathhouse

Supplier: Powers of Arkansas

Manufacturer: Cook

Submittal: Centrifugal Fans (RF-1M and RF-2M) (Re-Submittal #2)

Submittal Number: 233416.001

Spec Section: 233416

Drawing # and Installation Location: M1.4 and M4.0

ARCHITECT

Strata Architecture

1701 Oak Street, Suite 100

Kansas City, Missouri 64108

(816)474-0900

GENERAL CONTRACTOR

Tepa, LLC

2345 Grand Blvd, Suite 700

Kansas City, Missouri 64108

(816)708-1110

ENGINEER

IMEG Corp.

1600 Baltimore Street, Suite 300

Kansas City, Missouri 64108

(816)842-8437

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.

9924 Landers Road

North Little Rock, Arkansas 72117

(501)834-3320

Comments:

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CSUSA PROJECT NO.

25-7065

joe@comfortar.com

9924 Landers Road
No. LittleRock, AR 72117



RE-SUBMITTAL

PRODUCT	Centrifugal Fans
SPECIFICATION	23-34-16
MANUFACTURER	Loren Cook
JOB NAME	Maurice Bathhouse Renovation
LOCATION	Hot Springs, AR
ENGINEER	IMEG Consultants Corp
CONTRACTOR	Comfort Systems (USA)
DATE	5/5/2026
SUBMITTED BY	Courtney Michael

5440 Northshore Drive - North Little Rock, Arkansas 72118 - Tel: 501.374.5420 Fax: 501.370.9298

NOTE: Centrifugal fan spec. mentions the inline exhaust fans, however, the Loren Cook fans that are scheduled are not centrifugal fans, they are "mixed flow" fans. Because of this, some terminology will not match up with the submitted Loren Cook fans. They are not backward inline or belt driven fans. There will be no bearing ratings or spare belts because they are direct drive.



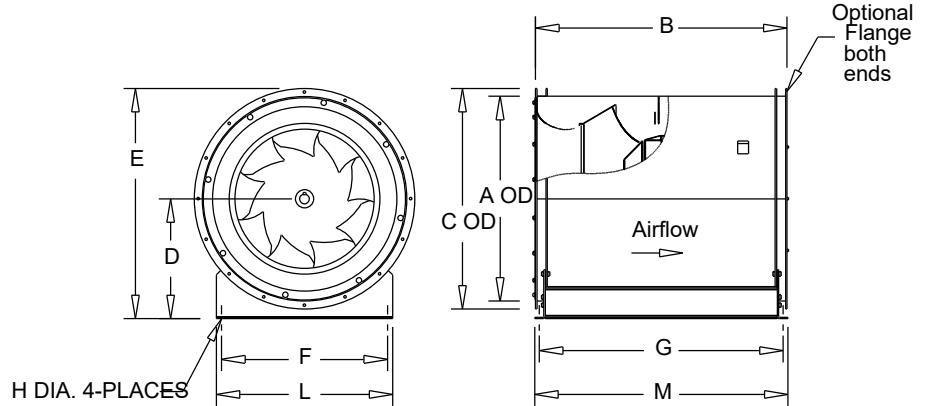
COOK

**MARK: RF-1M****PROJECT: RENOVATIONS TO BATHHOUSE - MAURICE****DATE: 9/1/2025**

QMXD

Mixed Flow Wheel**Low Pressure****Horizontal Mount****Arr. 4****STANDARD CONSTRUCTION FEATURES:**

High efficiency mixed flow wheel - Continuously welded steel housing with Lorenized powder coating - Welded aerodynamic straightening vanes - Integral inlet and outlet collars for slip fit duct connections - Extended lube lines with motor zerk - Lifting lugs - Adjustable mounting feet - Leads run to NEMA 1 Wiring Compartment.

**Performance**

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	Speed Ctrl/Hz
1	165QMXD11	2500	.500	919	.293	n/a(<1HP)	VFD/48

Altitude (ft): 266 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	VFD Rated
3/4	1140	208/3/60	TEFC -SE	3.5	Yes

FLA based on NEC (2017) Table 430.250

Fan Information

OVel(fpm)	Fan Mount
846	Horz. Ceiling

Sound Data Sound Power by Octave Band

	1	2	3	4	5	6	7	8	LwA	dBA
Inlet	66	68	72	70	63	58	51	43	70	59
Outlet	70	69	71	70	62	57	52	44	70	58

- Distance from Sound source 5 ft

Accessories:

VFD BY OTHERS
DISCONNECT NEMA 1 PRE-WIRED
INLET FLEX DUCT CON
OUTLET FLEX DUCT CON
SC-70 SET(4) - ISOLATORS

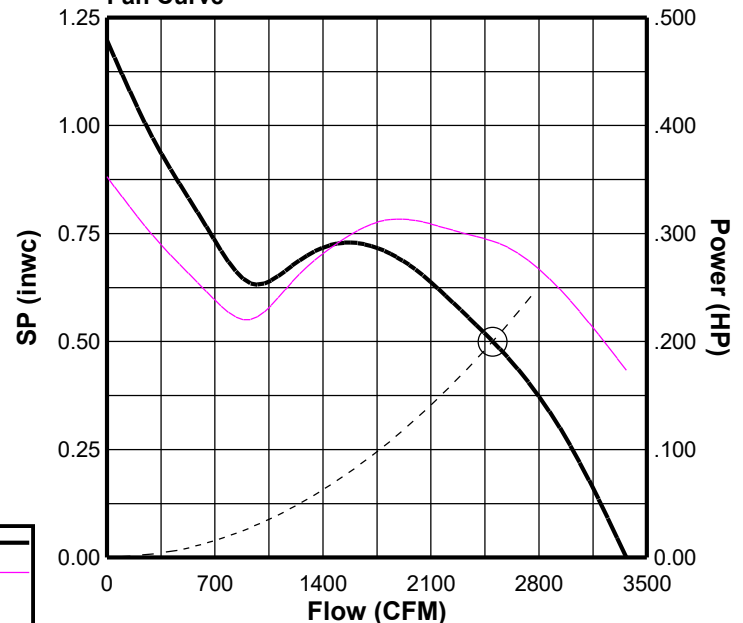
Dimensions (inches)

A	23-1/2
B	33
C	26-1/2
D	14-5/16
E	27-9/16
F	20-13/16
G	31-5/8
H	1/2
L	22-13/16
M	33-1/4

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	307	Unit	199
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***Includes fan, motor & accessories.

Fan Curve**Fan Curve Legend**

CFM vs SP	—
CFM vs HP	—
Point of Operation	○
System Curve	-----



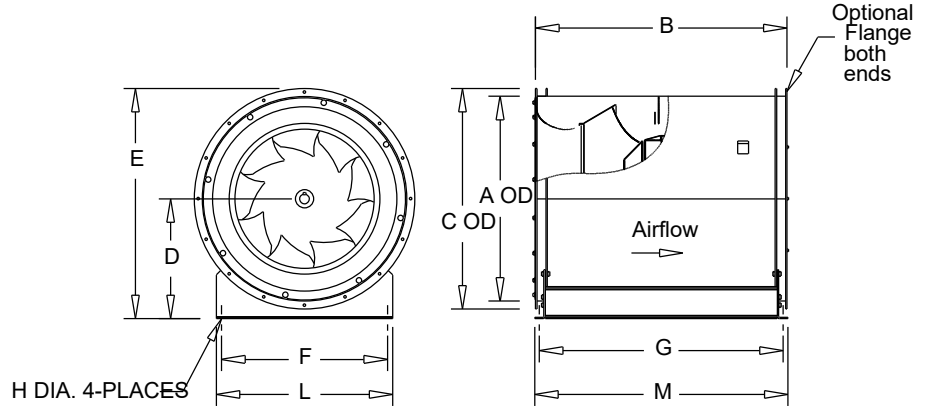
COOK

**MARK: RF-2M****PROJECT: RENOVATIONS TO BATHHOUSE - MAURICE****DATE: 9/1/2025**

QMXD

Mixed Flow Wheel**Low Pressure****Horizontal Mount****Arr. 4****STANDARD CONSTRUCTION FEATURES:**

High efficiency mixed flow wheel - Continuously welded steel housing with Lorenized powder coating - Welded aerodynamic straightening vanes - Integral inlet and outlet collars for slip fit duct connections - Extended lube lines with motor zerk - Lifting lugs - Adjustable mounting feet - Leads run to NEMA 1 Wiring Compartment.

**Performance**

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	Speed Ctrl/Hz
1	150QMXD11	1500	.500	888	.174	n/a(<1HP)	VFD/47

Altitude (ft): 266 Temperature (F): 70

Motor Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	VFD Rated
1/2	1140	208/3/60	TEFC -SE	2.4	Yes

FLA based on NEC (2017) Table 430.250

Fan Information

OVel(fpm)	Fan Mount
614	Horz. Ceiling

Sound Data Sound Power by Octave Band

	1	2	3	4	5	6	7	8	LwA	dBA
Inlet	71	67	69	65	59	53	46	38	66	55
Outlet	74	67	69	66	59	53	46	38	66	55

- Distance from Sound source 5 ft

Accessories:

VFD BY OTHERS
DISCONNECT NEMA 1 PRE-WIRED
INLET FLEX DUCT CON
OUTLET FLEX DUCT CON
SC-70 SET(4) - ISOLATORS

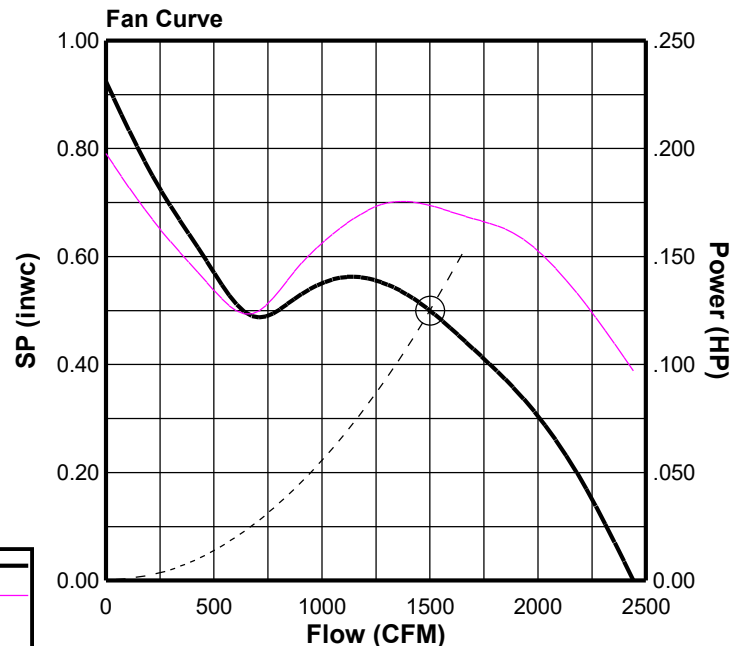
Dimensions (inches)

A	21-3/8
B	30
C	24-3/8
D	13-3/16
E	25-3/8
F	18-3/4
G	28-5/8
H	1/2
L	20-3/4
M	30-1/4

NOTE: Accessories may affect dimensions shown.

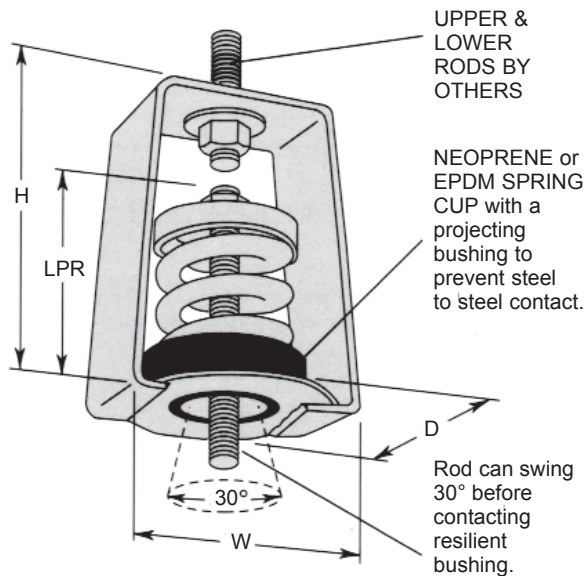
Weight(lbs)***	Shipping	259	Unit	159
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***Includes fan, motor & accessories.

**Fan Curve Legend**

CFM vs SP	—
CFM vs HP	—
Point of Operation	○
System Curve	- - -

30° Swing Hangers



High Deflection Spring Vibration Isolation Hangers provide far greater vibration control than the lower deflection neoprene hangers. Each powder coated steel spring is in series with a neoprene cup, providing excellent isolation efficiency. The anti-vibration isolator spring serves to isolate a broad range of disturbing vibration frequencies, while the rubber cup is a high frequency or noise break.

All box type spring vibration isolation hangers are available precompressed from the factory with a scale for adjusting spring tension. These anti-vibration isolators are similar to SLR restrained mounts in that they can be adjusted to limit vertical movement caused by weight changes during system start up, maintenance and seismic events. Spring Hangers are also available with eye-bolts top and bottom.

Type 30 Spring Hangers feature a lower rod that can swing up to 30° for ease in installation to compensate for misalignment.

30 1" DEFLECTION 30° SWING, SPRING HANGERS*

LRP - Lower Rod Penetration
MRD - Maximum Rod Dia.

Type & Size	Rated Capacity	Rated Deflection	Mount Constant	Spring Color/Stripe	Dimensions				
					D	H	W	LRP	MRD
30-X-12	12 lbs	1.25"	10 lbs/in	Orange					
30-X-23	23 lbs	1.30"	18 lbs/in	Brown					
30-X-33	33 lbs	1.10"	30 lbs/in	Red					
30-X-54	54 lbs	1.20"	45 lbs/in	White					
30-X-76	76 lbs	1.02"	73 lbs/in	Black	2-1/2"	4-1/4"	2-7/8"	3-1/2"	3/8"
30-X-113	113 lbs	1.00"	113 lbs/in	Yellow					
30-X-130	130 lbs	1.00"	130 lbs/in	Purple					
30-X-175	175 lbs	1.00"	175 lbs/in	Silver					
30-X-210	210 lbs	1.00"	210 lbs/in	Blue					
30-A-12	12 lbs	1.00"	12 lbs/in	Red					
30-A-18	18 lbs	1.00"	18 lbs/in	Gray	2-3/4"	5-3/4"	3-3/4"	3-1/2"	5/8"
30-A-25	25 lbs	1.00"	25 lbs/in	Orange					
30-A-41	41 lbs	1.18"	35 lbs/in	Pink					
30-A-56	56 lbs	1.14"	49 lbs/in	Black					
30-A-73	73 lbs	1.06"	69 lbs/in	Tan	2-3/4"	5-3/4"	3-3/4"	4"	5/8"
30-A-95	95 lbs	1.01"	94 lbs/in	Green					
30-B-138	138 lbs	1.32"	105 lbs/in	White					
30-B-222	222 lbs	1.16"	191 lbs/in	Blue					
30-B-278	278 lbs	1.09"	255 lbs/in	Purple					
30-B-336	336 lbs	1.00"	336 lbs/in	Silver	4"	7-1/4"	4-3/4"	4-1/4"	5/8"
30-B-410	410 lbs	1.07"	385 lbs/in	Black					
30-B-540	540 lbs	1.00"	540 lbs/in	Yellow					

3/4" Minimum Deflection*



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