

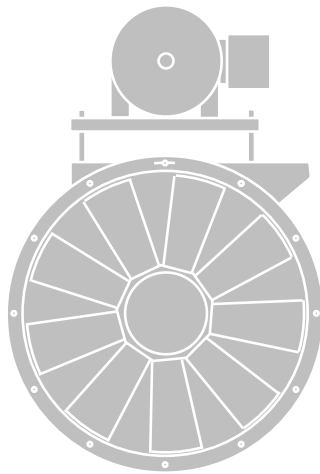
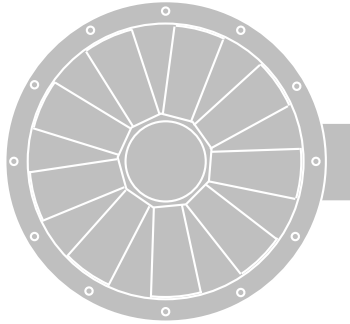
AVA



COOK

AVA

Adjustable Pitch Vane Axial Fan



	Page
Introduction	2
Mounting Options	3
Product Nomenclature	3
Duty Levels	3
Discharge Cones	4
Lorenized Fan Finish Specification	4
AVAD Specification and Dimension Data	5
AVAB Specification and Dimension Data	6
Accessories	7 - 8

AVAD/AVAB Adjustable Pitch Vane Axial Fan

Cook adjustable pitch vane axial fans are available in direct and belt drive models offering high efficiencies and high static pressures in a space-efficient inline package. The AVA is available in sizes 35 inch through 79 inch with flow rates of 400 CFM to 213,403 CFM and static pressures up to 13 inches. The AVA features cast aluminum airfoil blades that can be pitch adjusted to achieve a broad range of performance. The AVA adjustable pitch vane axial fan is available with a full range of accessories allowing it to be adapted to many different applications.



AVAD



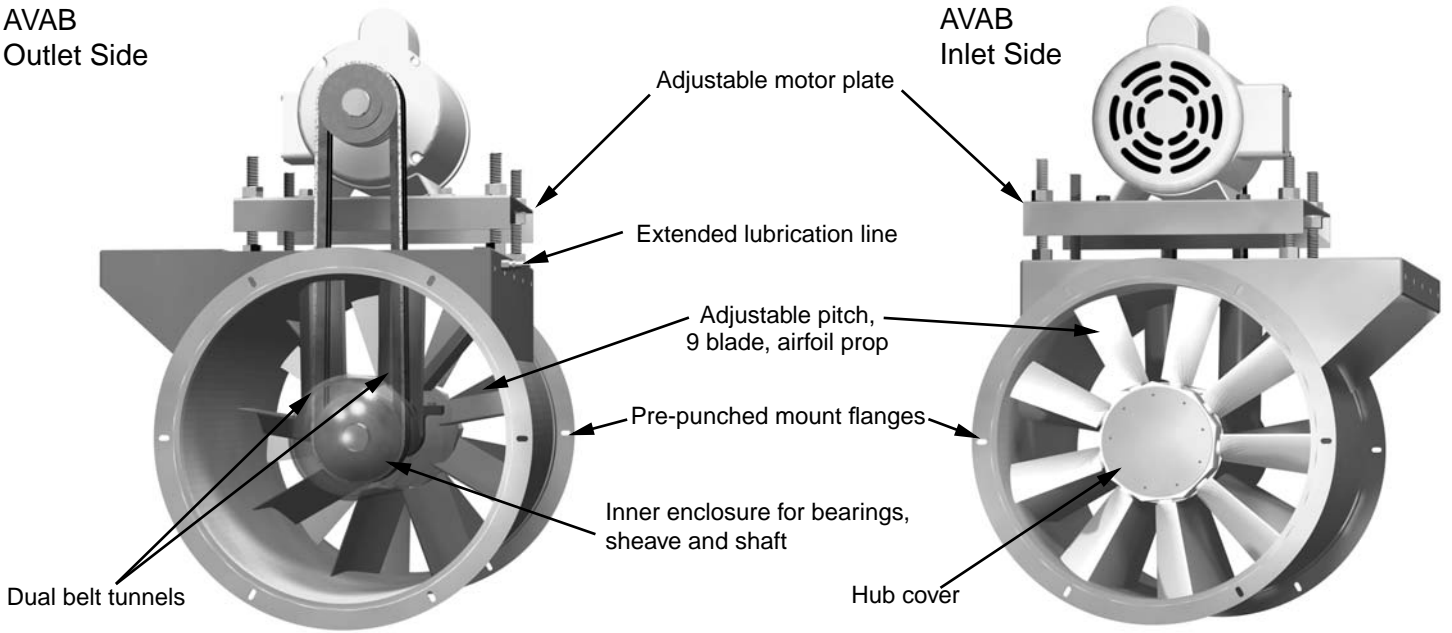
AVAB

- High efficiency nine blade cast aluminum propeller assembly with airfoil blade design.
- Minimum 3/16" steel housing with continuously welded seams, and integral inlet and outlet flanges pre-punched for mounting.
- Copper lubrication lines are standard on belt drive units and also standard on direct drive units when applicable.
- The motor plate is attached to a heavy welded sub-base and features threaded studs for positive belt tensioning.
- Direct drive units feature a totally enclosed motor installed in a motor tunnel surrounded by welded straightening vanes.
- Belt drive units feature an inner drum that encloses the driven sheave, shaft and bearings. The low-drag dual tunnels, separating belts from the airstream, also protect the extended lubrication lines. Removable covers provide access to the shaft, bearings and belts.
- All steel fan components feature a Lorenized™ powder coat finish.
- Bearings are designed and tested specifically for use in air handling applications. Bearings are heavy duty regreasable ball or roller type in a cast iron pillow block housing selected for a minimum L50 life in excess of 500,000 hours for horizontal units and L50 life in excess of 250,000 hours for vertical units at maximum cataloged operating speed, horsepower and static pressure.
- Drives utilize oil and heat resistant, non-static belts and precision machined cast iron sheaves which are keyed and securely attached to the wheel and motor shafts. Drives are sized for 150 percent of motor horsepower.
- Power (BHP) ratings for all belt drive fans includes drive loss to ensure accurate selection of the motor.
- Accurate performance is assured through compliance with the AMCA Certified Ratings Program. The AVAD and AVAB are licensed to bear the AMCA Seal for Air and Sound Performance.

Construction Features

AVAB
Outlet Side

AVAB
Inlet Side



Mounting Options

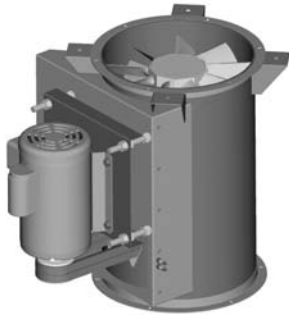
Vertical

Floor, Ceiling, Wall
or Platform

Ceiling Horizontal

Roof Exhauster

**CFM Limitation for
Damper Operation**



Fan Size	CFM	
	Min.	Max.
35	8800	21700
39	10900	26700
44	13600	33600
49	17000	41900
57	22800	56200
63	27800	68400
71	35200	86700
79	43600	107200

Vertical mounting brackets provide for vertical installation, floor or ceiling mount, with upblast or downblast configuration. Vibration isolators can be used with the mounting configurations. Ceiling brackets with downblast configuration shown.

Mounting feet, bolted to the inlet and outlet flanges, can be field rotated for different motor positions. The mounting feet provide a solid base for mounting to the floor, ceiling or wall. They can be used with vibration isolators.

Side-angle supports provide for suspension of the unit. The supports can be used with vibration isolators.

AVAD and AVAB, when used with butterfly damper, panel and curb, can be mounted as a roof exhauster. Allow 1/8" static pressure resistance for damper. (See table, **CFM Limitation for Damper Operation**, for additional information.)

Lorenized™ Fan Finish Specification

All steel fan components shall be finished with an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.

Standard Color - Gray

Final Coat Thickness - Minimum 2 mils

Polyester Powder Testing Information

Property	Test Method	Value
Impact Resistance	ASTM D2794	100 inch-pounds
Pencil Hardness	ASTM D3363	2H (Mar or Gouge)
Crosshatch Adhesion	ASTM D3359 Method B	100 percent
Humidity Resistance	ASTM D2247	1000+ Hours
Salt Spray	ASTM B117	1000+ Hours
Continuous Service Temperature	N/A	230°F (110°C)

Product Nomenclature

Sample - 57AVAB-19

57 - Prop Diameter in inches.
Sizes range from 35 to 79.

AVA - Adjustable Pitch Vane Axial

B - Drive Type

D - Direct Drive

B - Belt Drive

19 - Prop angle in degrees

AVAD/AVAB Information

Duty Levels

Fan Size	Duty	Bore Size	Bearing Type	HP Ranges Per Blade Angle											
				10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°	
35	1	1-3/16	1	1-2	1-2	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-5	1-5	1-5
35	2	1-11/16	1	3	3-5	5	5	5-7.5	5-10	5-10	5-10	5-10	7.5-10	7.5-10	7.5-10
35	3	2-7/16	1	5-10	7.5-10	7.5-10	7.5-10	10	15	15-20	15-20	15-20	15-20	15-20	15-25
35	4	1-15/16	2	15-30	15-40	15-50	15-50	15-60	20-60	25-60	25-75	25-75	25-75	25-75	30-75
39	1	1-3/16	1	1-2	1-2	1-2	1-3	1-3	1-3	1-3	1-3	1-3	1-5	1-5	1-5
39	2	1-11/16	1	3	3-5	3-5	5	5	5-7.5	5-10	5-10	5-10	7.5-10	7.5-10	7.5-10
39	3	2-7/16	1	5-7.5	7.5-10	7.5-10	7.5-10	7.5-10	10	15-20	15-20	15-20	15-20	15-20	15-20
39	4	1-15/16	2	10-25	15-40	15-50	15-60	15-60	15-60	25-60	25-75	25-75	25-75	25-75	25-75
44	1	1-11/16	1	2-3	2-3	2-5	2-5	2-5	2-7.5	2-7.5	2-7.5	2-7.5	2-10	2-10	2-10
44	2	2-7/16	1	5-7.5	5-7.5	7.5-10	7.5-10	7.5-10	10-15	10-15	10-15	10-15	10-20	15-20	15-20
44	3	2-3/16	2	10-50	10-50	15-60	15-60	15-60	20-75	20-75	20-75	25-75	25-75	25-75	25-75
44	4	2-11/16	2	-	60-75	75-100	75-100	75-100	100	100	100	100	100	100	100
49	1	1-11/16	1	3	3	3	3-5	3-5	3-5	3-7.5	3-7.5	3-7.5	3-7.5	3-7.5	3-7.5
49	2	2-7/16	1	5-7.5	5-7.5	5-7.5	7.5-10	7.5-10	7.5-10	10-15	10-15	10-15	10-15	10-20	10-20
49	3	2-3/16	2	10-40	10-60	10-60	15-60	15-60	15-60	20-60	20-60	20-60	25-60	25-60	25-60
49	4	2-15/16	2	-	-	75	75-100	75-100	75-100	75-100	75-100	75-100	75-100	75-100	75-100
57	1	1-11/16	1	-	-	3	3	3	3	3-5	3-5	3-5	3-5	3-5	3-5
57	2	2-7/16	1	3-5	3-5	5-7.5	5-7.5	5-10	5-10	7.5-10	7.5-10	7.5-10	7.5-10	7.5-15	7.5-15
57	3	2-3/16	2	7.5-40	7.5-40	10-50	10-50	15-50	15-50	15-50	15-50	15-50	20-50	20-50	20-50
57	4	2-11/16	2	50-75	50-75	60-75	60-100	60-100	60-125	60-125	60-125	60-125	60-125	60-125	60-125
57	5	2-15/16	2	-	-	-	-	-	150	150	150-200	150-200	150-200	150-200	150-200
63	1	2-7/16	1	3-5	3-5	3-7.5	3-7.5	3-10	3-10	3-10	3-15	3-15	3-15	3-15	3-15
63	2	2-3/16	2	7.5-30	7.5-40	10-40	10-50	15-50	15-50	15-50	20-50	20-50	20-50	20-50	20-50
63	3	2-11/16	2	40-60	50-75	50-75	60-100	60-100	60-125	60-125	60-125	60-125	60-125	60-125	60-125
63	4	3-3/16	2	-	100	100-125	125	125-150	-	-	-	-	-	-	-
63	5	2-15/16	2	-	-	-	-	-	150	150	150-200	150-200	150-200	150-200	150-200
71	1	2-7/16	2	7.5-40	7.5-40	7.5-50	7.5-60	7.5-60	7.5-75	7.5-75	7.5-75	7.5-75	7.5-75	7.5-75	7.5-75
71	2	2-15/16	2	50-60	50-75	60-75	75	75-100	100-200	100-200	100-200	100-200	100-200	100-200	100-200
71	3	3-3/16	2	75	100	100	100-125	125	-	-	-	-	-	-	-
71	4	3-11/16	2	100-150	125-150	125-200	150-200	150-200	-	-	-	-	-	-	-
79	1	2-7/16	2	10-30	10-40	10-40	10-50	10-60	10-60	10-100	10-100	10-100	10-100	10-100	10-100
79	2	2-15/16	2	40-60	50-60	50-75	60-75	75-100	75-100	125-150	125-200	125-200	125-200	125-200	125-200
79	3	3-3/16	2	75	75	100	100-125	125	125-150	200	-	-	-	-	-
79	4	3-11/16	2	100	100-150	125-200	150-200	150-200	200	-	-	-	-	-	-

Bearing Type 1 - Heavy duty pillow block ball bearing. Bearing Type 2 - Heavy duty pillow block spherical roller bearing.

Inlet/Outlet Cones

Cones are used on the fixed pitch vane axial fan to adapt it to larger or smaller size ducts on both the inlet and outlet sides. For example, a Diverging Outlet Cone, as illustrated in Figure A, connects the fan to a larger duct resulting in static regain. The **Static Regain** table provides examples of the regain for a cone with an angle of 25 degrees to 30 degrees and varying fan outlet velocities.

For other diverging outlet cones, an approximate determination of static regain can be obtained if the following formula is used.

$$SP_2 = SP_1 + .45(VP_1 - VP_2)$$

A Converging Inlet Cone, as illustrated in Figure B, is used to connect a large duct to the fan inlet. Due to the tapered shape of the cone, friction loss is negligible. To determine this slight difference in static pressure, the following formula can be used.

$$SP_2 = SP_1 - .08(VP_1 - VP_2)$$

A Converging Outlet Cone, as illustrated in Figure C, is used to connect a small duct to the outlet flange of the fan. The across-the-cone change in velocity pressure is added to the fan's static pressure. To determine the change in static pressure, the following formula can be used.

$$SP_2 = SP_1 - (VP_1 - VP_2)$$

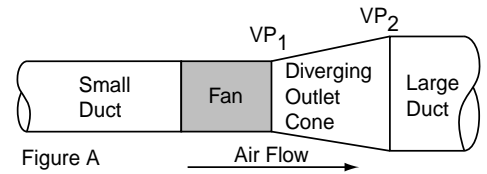


Figure A

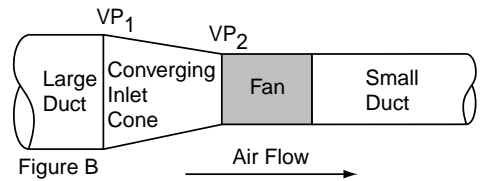


Figure B

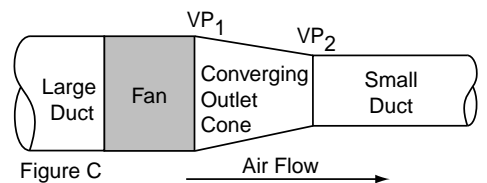


Figure C

Static Regain

Velocity (FPM)	SP (in inches)
1000	.012
1250	.020
1500	.029
1750	.040
2000	.052
2250	.065
2500	.081

Velocity (FPM)	SP (in inches)
2750	.099
3000	.117
3250	.138
3500	.160
3750	.183
4000	.207
4250	.233

Velocity (FPM)	SP (in inches)
4500	.261
4750	.290
5000	.323
5250	.356
5500	.392
5750	.428
6000	.467

Velocity Pressure - $VP = (\text{velocity}/4005)^2$

Velocity (FPM)	VP (in inches)
500	.0156
600	.0225
700	.0305
800	.0400
900	.0504
1000	.0625
1100	.0758
1200	.0900
1300	.106
1400	.122
1500	.141

Velocity (FPM)	VP (in inches)
1600	.160
1700	.181
1800	.203
1900	.226
2000	.250
2250	.316
2500	.391
2750	.473
3000	.562
3250	.661
3500	.768

Velocity (FPM)	VP (in inches)
3750	.880
4000	1.000
4250	1.130
4500	1.265
4750	1.410
5000	1.560
5250	1.720
5500	1.890
5750	2.060
6000	2.250

Adjustable Pitch Vane Axial Fan Direct Drive



Loren Cook Company certifies that the AVAD 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 comply with the requirements of the AMCA Certified Ratings Program.

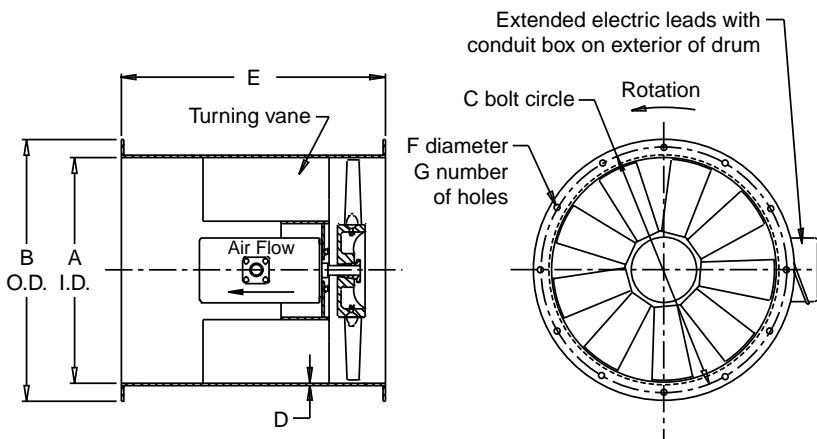


Type AVAD is furnished standard with UL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.



Type AVAD is furnished standard with cUL listing (Power Ventilator) when furnished with factory supplied motor.

- Description** - Fan shall be a direct drive, adjustable pitch, vane axial fan.
- Certifications** - Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA certified ratings seal for air and sound performance.
- Construction** - Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. Housing shall be minimum 7 gauge steel with continuously welded seam. Housing shall incorporate minimum 2" x 2" x 1/4" welded inlet and outlet flanges pre-punched for mounting. Housing shall include welded steel discharge vanes surrounding a "C" face mount motor tunnel. Copper lube lines shall be extended from motor bearings to the outside of the housing when applicable. Unit shall bear an engraved aluminum nameplate.
- Coating** - All steel fan components shall be Lorenized™ with an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.
- Propeller** - Propeller shall be an adjustable pitch, cast aluminum, 9 blade airfoil design, factory set to required pitch. Individual blades shall be cast with a threaded fastener and feature a conical section to secure the blade to the cast aluminum hub and to provide provision for pitch adjustment. The propeller hub shall be keyed and locked to the shaft utilizing a split taper bushing and retaining plate. Propeller shall be balanced in accordance with AMCA Standard 204-96, *Balance Quality and Vibration Levels for Fans, Category BV-3*.
- Motor** - Motor shall be heavy duty type furnished at the specified voltage and phase.
- Product** - Fan shall be model AVAD as manufactured by Loren Cook Company of Springfield, Missouri.



AVAD Dimension Data

AVAD Size	A	B	C	D	E	F	G	TEFC Max. Frame Size	Approx. Ship Wt. Lbs.*
35	35-1/2	39-7/8	38	7 ga.	30	9/16	12	256TC	380
39	39-3/8	43-7/8	41-7/8	7 ga.	30	9/16	12	256TC	435
44	44-1/8	49-5/8	47-3/8	7 ga.	34	9/16	12	326TC	620
49	49-1/4	54-3/4	52-1/2	7 ga.	34	9/16	12	326TC	680
57	57-1/8	62-5/8	60-3/8	1/4	42	9/16	12	405TC	1175
63	63	68-1/2	66-1/4	1/4	42	11/16	16	405TC	1285
71	70-7/8	77-5/8	75	1/4	54	11/16	16	449TC	2020
79	78-3/4	85-1/2	82-7/8	1/4	54	11/16	16	449TC	2215

All dimensions in inches. *Less motor.

AVAB Specifications and Dimension Data

Adjustable Pitch Vane Axial Fan Belt Drive



Loren Cook Company certifies that the AVAB 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 comply with the requirements of the AMCA Certified Ratings Program.



Type AVAB is furnished standard with UL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.



Type AVAB is furnished standard with UL listing (Power Ventilator) when furnished with factory supplied motor.

Description - Fan shall be a belt drive, adjustable pitch, vane axial fan.

Certifications - Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA certified ratings seal for air and sound performance.

Construction - Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. Housing shall be minimum 3/16" steel with continuously welded seam. Housing shall incorporate minimum 2" x 2" x 1/4" continuously welded inlet and outlet flanges pre-punched for mounting. Housing shall include welded steel discharge vanes and aerodynamically designed dual belt tunnels. Copper lube lines shall be extended from the bearings to the outside of the housing. Adjustable motor plate shall be attached to a welded motor sub-base and shall utilize threaded studs for positive belt tensioning. Unit shall bear an engraved aluminum nameplate.

Coating - All steel fan components shall be Lorenized™ with an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.

Propeller - Propeller shall be an adjustable pitch, cast aluminum, 9 blade airfoil design, factory set to required pitch. Individual blades shall be cast with a threaded fastener and feature a conical section to secure the blade to the cast aluminum hub and to provide provision for pitch adjustment. The propeller shall be keyed and locked to the shaft utilizing a split taper bushing and retaining plate. Propeller shall be balanced in accordance with AMCA Standard 204-96, *Balance Quality and Vibration Levels for Fans*, Category BV-3.

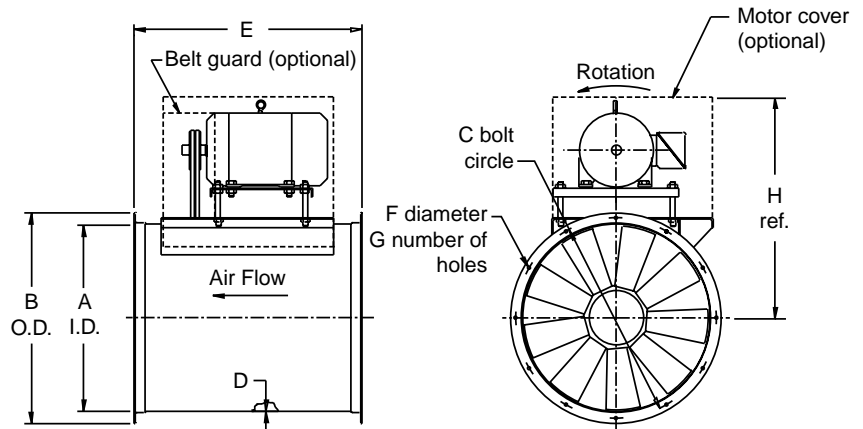
Motor - Motor shall be heavy duty type furnished at the specified voltage, phase and enclosure.

Bearings - Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball or roller type in a cast iron pillow block housing selected for a minimum L50 life in excess of 500,000 hours for horizontal units, and L50 life in excess of 250,000 hours for vertical units at maximum cataloged operating speed.

Blower Shaft - Blower shaft shall be AISI C-1045 hot rolled and accurately turned, ground and polished. Shafting shall be sized for a critical speed of at least 125 percent of maximum RPM.

Belts and Drives - Belts shall be oil and heat resistant, non-static type. Drives shall be precision machined cast iron, fixed pitch type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150 percent of the installed motor horsepower.

Product - Fan shall be model AVAB as manufactured by Loren Cook Company of Springfield, Missouri.



AVAB Dimension Data

AVAB Size	A	B	C	D	E	F	G	H	ODP Max. Motor Frame	Approx. Ship Wt. Lbs.*
35	35-1/2	39-7/8	38	3/16	43	9/16	12	35-1/8	365T	820
39	39-3/8	43-15/16	41-7/8	1/4	43	9/16	12	37-1/8	365T	940
44	44-1/8	49-5/8	47-3/8	1/4	47	9/16	12	42-5/8	405T	1440
49	49-1/4	54-3/4	52-1/2	1/4	47	9/16	12	43-9/16	405T	1520
57	57-1/8	62-5/8	58-7/8	1/4	61	9/16	12	44-5/8	445T	2150
63	63	68-1/2	66-1/4	1/4	61	11/16	16	46-3/4	445T	2400
71	70-7/8	77-5/8	75	3/8	72	11/16	16	64-1/4	445T	3850
79	78-3/4	85-9/16	82-7/8	3/8	72	11/16	16	67-1/4	445T	4200

All dimensions in inches. *Less motor.

Disconnect Switches

NEMA 1 - Indoor general purpose.

NEMA 1 (Lockable) - Indoor general purpose with locking capability.

NEMA 3R - Exterior mount, rain-tight.

NEMA 4 - Watertight and dust-tight.

NEMA 7 and NEMA 9 - Lockable, indoor, explosion proof.



NEMA 1



NEMA 1 (lockable)



NEMA 4



NEMA 3R



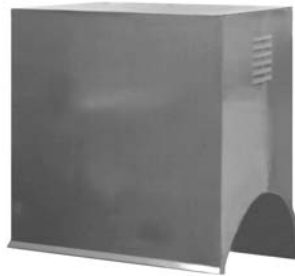
**NEMA 7
NEMA 9**

Belt Guard



A belt guard is designed to cover the top, front and sides of the drive assembly. Belt guards are constructed of minimum 18 gauge Lorenized™ steel and have an open back to allow for inspection or belt tightening. Belt guards are factory installed.

Motor Cover



The motor cover encloses the motor and drive assembly and serves as an OSHA belt guard. The motor cover is constructed of 18 gauge Lorenized™ steel. Motor covers are factory installed.

Inlet/Outlet Companion Flange



Inlet/outlet companion Flanges are available for use in conjunction with the standard flanged inlet/outlet. The inlet/outlet companion flange is attached to the adjacent ductwork to provide an exact mate to the flanged connection on the fan.

Inlet/Outlet Guard



Inlet/outlet guards are used in non-ducted installations to protect personnel and prevent debris from entering the fan.

Inlet/Outlet Flex Duct Connector



Flex duct connectors are available for the inlet or outlet of the AVAD/AVAB. These connectors provide a flexible connection between the fan and the attached ductwork. This reduces the transmission of noise and vibration to the ductwork as well as allowing for slight misalignment and easy removal of the fan without disturbing the rigid ductwork. Flex duct connectors are constructed of reinforced neoprene fabric and aluminum bands.

Mounting Feet

Mounting feet, bolted to the inlet and outlet flanges, provide a solid base for mounting to the floor, ceiling or wall. The mounting feet can be used with vibration isolators.

Mounting Brackets

Mounting brackets are securely welded in place in either the vertical or horizontal discharge configurations and are based upon the specific location requirements. The bracket design allows for use with vibration isolators in all configurations, when required.

Inlet Bell

An inlet bell provides for more uniform airflow to the fan blades and is normally used when no inlet ductwork is present. When a non-ducted vane axial fan is installed without an inlet bell, system effect will occur due to the uneven loading of the fan blades.

Inlet Cone/Outlet Cone

Normally used to adapt ductwork to a specific size vane axial fan. Depending on the location of the installation, the velocity pressure change can equate to static pressure regain or static pressure loss.

Sound Muffler

A sound muffler can be mounted on both the inlet or outlet of the unit and is used for sound critical applications. The sound muffler is not for use with wet atmospheres, velocities greater than 5000 FPM, and temperatures above 250°F.

Butterfly Dampers

Butterfly dampers provide for a weatherproof closure for outdoor vertical discharge applications. The dampers must be used in conjunction with optional curb panel for roof curb mounting.

Curb Panel

A curb panel, when used in conjunction with optional butterfly dampers, converts the unit to a vane axial roof upblast unit. The curb panel is used for mounting on a roof curb.

Inspection Door

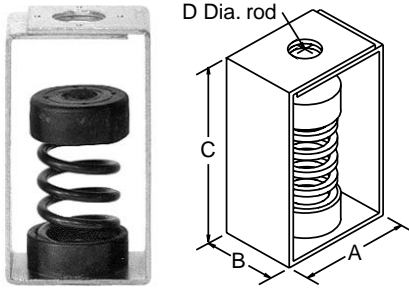
An inspection door allows for ease of access to the propeller when the unit is installed in a system.

Thrust Restraints Kit

Thrust restraints minimize fan movement when the unit thrust ratio exceeds weight ratio. Thrust restraints require isolators. The kit includes two mounting brackets, welded to the fan housing, and two brackets shipped loose for duct work mounting.

AVAD/AVAB Accessories

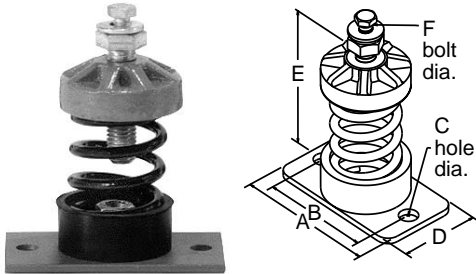
Spring Isolator - Ceiling Mounted



Unit	Rated Load (lbs.)	Spring Rate (lbs./in.)	A	B	C	D	Approx. Ship Wt. Lbs.
SC-35	35	23	3-11/16	2-1/4	5-1/4	1/2	2
SC-70	70	51	3-11/16	2-1/4	5-1/4	1/2	2
SC-125	125	100	3-11/16	2-1/4	5-1/4	1/2	2
SC-245	245	206	3-11/16	2-1/4	5-1/4	1/2	2
SC-370	370	370	3-11/16	2-1/4	5-1/4	1/2	2
SC-500	500	500	3-11/16	2-1/4	5-1/4	5/8	2
SC-1000	1000	870	5-9/16	3-5/8	8-9/16	3/4	5

All dimensions in inches.

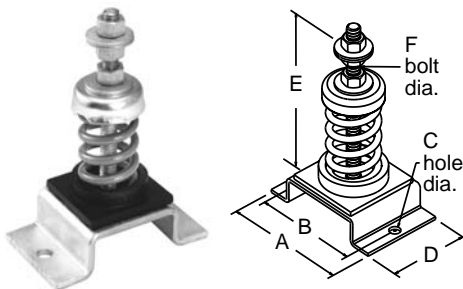
Free Standing Spring Isolator - Floor Mounted



Unit	Rated Load (lbs.)	Spring Rate (lbs./in.)	A	B	C	D	E	F	Approx. Ship Wt. Lbs.
SF-70	70	51	2-5/8	**	11/16	2-5/8	3-1/2	3/8	2
SF-120	120	98	4-1/2	3-1/2	9/16	2-1/2	3-1/2	3/8	2
SF-220	220	196	4-1/2	3-1/2	9/16	2-1/2	3-1/2	3/8	2
SF-370	370	366	4-1/2	3-1/2	9/16	2-1/2	3-1/2	3/8	2
SF-625	625	419	7	5-1/2	11/16	4	4-1/2	3/8	4
SF-1250	1250	1096	7	5-1/2	11/16	4	4-3/4	3/8	5

All dimensions in inches. Isolators listed are designed to provide a minimum of 50 percent of overload capacity. A single hole is provided at the center of the plate.

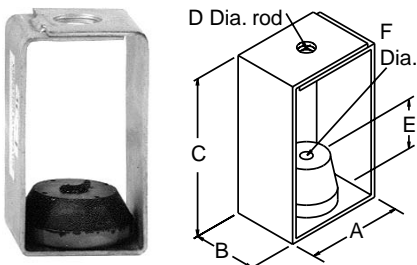
Restrained Spring Isolator - Floor Mounted



Unit	Rated Load (lbs.)	Spring Rate (lbs./in.)	A	B	C	D	E	F	Approx. Ship Wt. Lbs.
RS-70	70	51	4-3/4	3-3/4	7/16	3	5	1/2	3
RS-120	120	98	4-3/4	3-3/4	7/16	3	5	1/2	3
RS-220	220	196	4-3/4	3-3/4	7/16	3	5	1/2	3
RS-370	370	366	4-3/4	3-3/4	7/16	3	5	1/2	3
RS-625	625	419	8	6-1/2	11/16	4	7-1/2	5/8	6
RS-1250	1250	1096	8	6-1/2	11/16	4	7-1/2	5/8	7

All dimensions in inches. Isolators listed are designed to provide a minimum of 50 percent of overload.

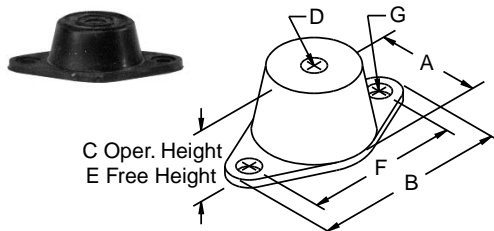
Rubber-in-Shear Isolator - Ceiling Mounted



Unit	Rated Load (lbs.)	A	B	C	D	E	F	Approx. Ship Wt. Lbs.
RC-75	75	2-5/32	1-1/2	2-23/32	11/16	15/32	3/8	1
RC-125	125	2-5/32	1-1/2	2-23/32	11/16	15/32	3/8	1
RC-175	175	3-5/32	2-1/4	5-11/16	3/4	1-31/64	3/4	2
RC-300	300	3-5/32	2-1/4	5-11/16	3/4	1-31/64	3/4	2
RC-450	450	3-5/32	2-1/4	5-11/16	3/4	1-31/64	3/4	2
RC-700	700	4	4-3/4	8	3/4	1-1/2	3/4	3
RC-1100	1100	4	4-3/4	8	3/4	1-1/2	3/4	5

All dimensions in inches.

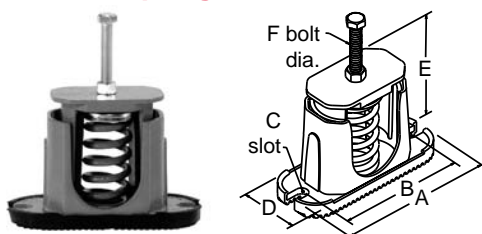
Rubber-in-Shear Isolator - Floor Mounted



Unit	Rated Load (lbs.)	A	B	C	D	E	F	G	Approx. Ship Wt. Lbs.
RF-55	55	1-13/16	3-3/16	1-7/64	5/16 NC	1-1/2	2-3/8	11/32	1
RF-120	120	2-3/8	3-7/8	1-1/4	3/8 NC	1-3/4	3	11/32	1
RF-220	220	2-3/8	3-7/8	1-1/4	3/8 NC	1-3/4	3	11/32	1
RF-375	375	2-3/8	3-7/8	1-1/4	3/8 NC	1-3/4	3	11/32	1
RF-600	600	3-1/4	5-1/2	2	1/2 NC	2-1/2	4-1/8	9/16	2
RF-1100	1100	3-1/4	5-1/2	2	1/2 NC	2-1/2	4-1/8	9/16	2

All dimensions in inches.

Housed Spring Isolator - Floor Mounted



Unit	Rated Load (lbs.)	Spring Rate (lbs./in.)	A	B	C	D	E	F	Approx. Ship Wt. Lbs.
HF-120	120	98	6-1/8	5-5/8	5/16	2-1/8	3-1/2	3/8	2
HF-220	220	196	6-1/8	5-5/8	5/16	2-1/8	3-1/2	3/8	2
HF-320	320	302	6-1/8	5-5/8	5/16	2-1/8	3-1/2	3/8	2
HF-370	370	366	6-1/8	5-5/8	5/16	2-1/8	3-1/2	3/8	2
HF-500	500	500	6-1/8	5-5/8	5/16	2-1/8	3-1/2	3/8	2
HF-700	700	700	6-1/8	5-5/8	5/16	2-1/8	3-1/2	3/8	2
HF-800	800	588	9	7-1/2	7/16	3-1/2	5	5/8	13
HF-1000	1000	826	9	7-1/2	7/16	3-1/2	5	5/8	13

All dimensions in inches. Isolators listed are designed to provide a minimum of 50 percent of overload capacity.



LOREN COOK COMPANY

2015 E. DALE STREET
SPRINGFIELD, MO 65803-4637

417.869.6474

FAX 417.862.3820

lorencook.com