

**SRSH**



# **SRSH**

## **Tamper Proof Downblast Centrifugal Exhaust Ventilators**

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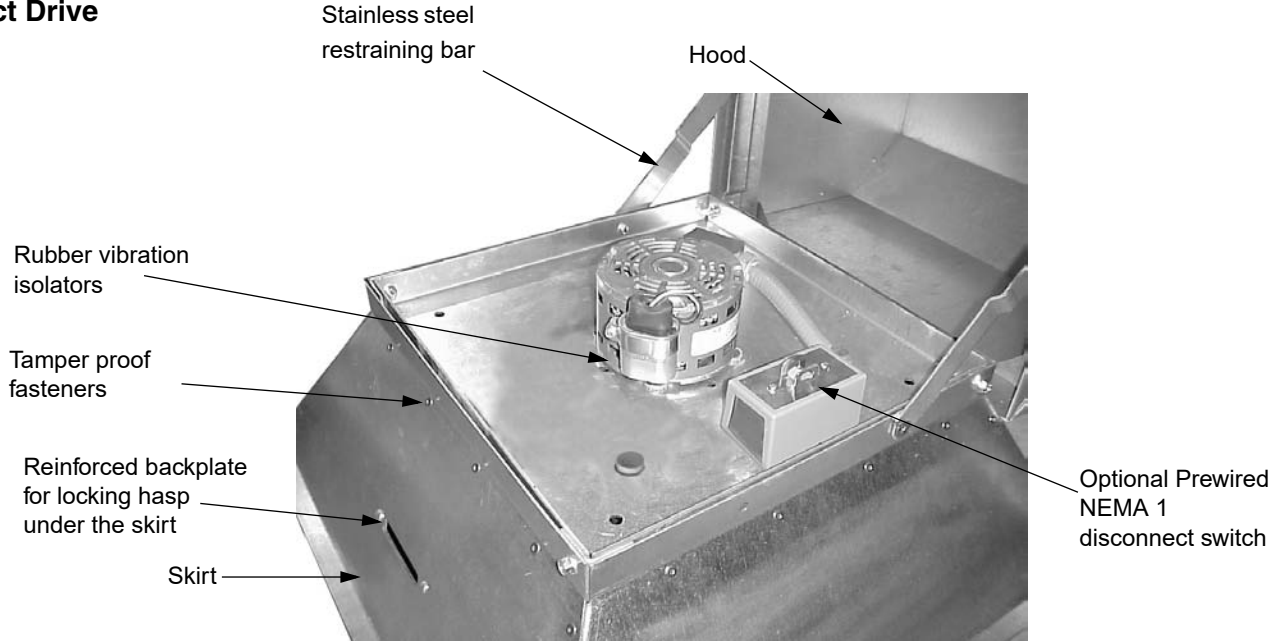
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# Introduction

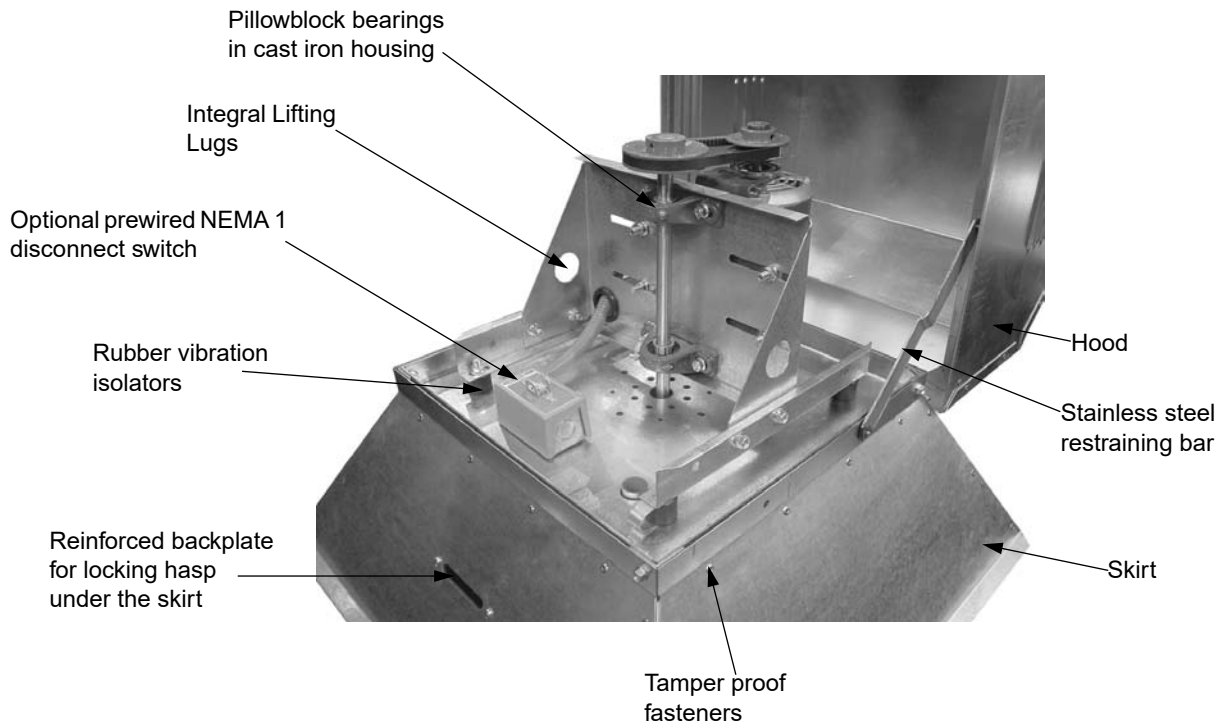
## SRSB Tamper Proof Downblast Centrifugal Exhaust Ventilator

SRSB Tamper Proof Downblast Centrifugal Exhaust Ventilators provide maximum performance and durability in a wide variety of commercial and industrial air moving applications. All units are tested in Cook's AMCA registered laboratory in accordance with AMCA standards and are licensed to bear the AMCA Certified Ratings Seal for Air Performance. They are listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705).

### SRSB-D Direct Drive



### SRSB-B Belt Drive



**Description:** Fan shall be a galvanized steel, tamper proof, roof mounted, direct drive, downblast centrifugal exhaust ventilator.

**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 Performance.

**Construction:** The fan shall be of bolted, riveted and welded construction utilizing corrosion resistant fasteners. The discharge skirt shall be 16 gauge galvanized steel construction fastened with stainless steel rivets. An 18 gauge galvanized steel hood shall have a stainless steel .25 diameter full length hinge to provide secure access into the motor compartment. The hood shall have two .125" gauge x 1.25" wide restraining bars to hold the hood in the open locked position when servicing. A heavy-duty .125" thick stainless steel locking hasp shall provide complete security with the use of a standard padlock concealed under the skirt. An integral conduit chase shall be provided through the curb cap and into the motor compartment to facilitate wiring connections. The motor shall be mounted on a 10 gauge steel mounting plate, isolated from the unit structure with rubber vibration isolators. The complete motor and wheel assembly can be removed for servicing without disassembling the hood or skirt assemblies. Unit shall bear an engraved aluminum nameplate and shall be shipped in ISTA Certified Transit Tested Packaging.

**Wheel:** Wheel shall be centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. An aerodynamic galvanized steel inlet cone shall be provided for maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-96, Balance Quality and Vibration Levels for Fans.

**Motor:** Motor shall be heavy duty type with permanently lubricated sealed bearings and furnished at the specified voltage, phase and enclosure.

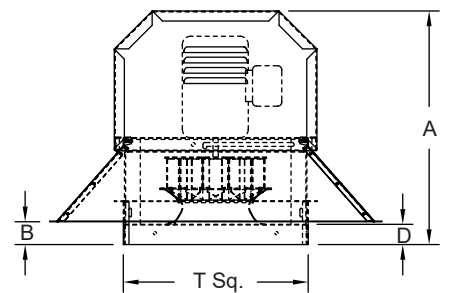
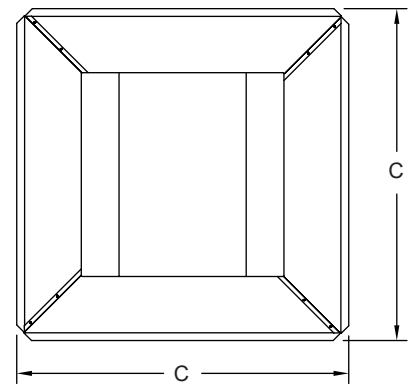
**Product:** Fan shall be model SRSB-D as manufactured by Loren Cook Company of Springfield, Missouri.

## SRSB-D Dimension Data

Size	A	B	C	D	T Sq.	Roof Opening Square*	Approx. Ship Wt.-Lbs.																																													
60	23-7/16	1	29-1/4	2	18	13-1/2	100																																													
65	23-7/16	1	29-1/4	2	18	13-1/2	100																																													
70	23-7/16	1	29-1/4	2	18	13-1/2	100																																													
75	23-7/16	1	29-1/4	2	18	13-1/2	100																																													
80	23-7/16	1	29-1/4	2	18	13-1/2	100																																													
85	23-7/16	1	29-1/4	2 </tr <tr> <td>100</td> <td>23-7/16</td> <td>1</td> <td>29-1/4</td> <td>2</td> <td>18</td> <td>13-1/2</td> <td>100</td> </tr> <tr> <td>120</td> <td>24-11/16</td> <td>1</td> <td>32-11/16</td> <td>2</td> <td>20</td> <td>15-1/2</td> <td>117</td> </tr> <tr> <td>135</td> <td>25-5/8</td> <td>1</td> <td>33-3/4</td> <td>2</td> <td>20</td> <td>15-1/2</td> <td>121</td> </tr> <tr> <td>150</td> <td>29-9/16</td> <td>1</td> <td>38-13/16</td> <td>2</td> <td>24</td> <td>19-1/2</td> <td>156</td> </tr> <tr> <td>165</td> <td>30-1/2</td> <td>1</td> <td>39-15/16</td> <td>2</td> <td>24</td> <td>19-1/2</td> <td>162</td> </tr> <tr> <td>180</td> <td>36-7/16</td> <td>1-1/2</td> <td>47-9/16</td> <td>3</td> <td>30</td> <td>25-1/2</td> <td>226</td> </tr>	100	23-7/16	1	29-1/4	2	18	13-1/2	100	120	24-11/16	1	32-11/16	2	20	15-1/2	117	135	25-5/8	1	33-3/4	2	20	15-1/2	121	150	29-9/16	1	38-13/16	2	24	19-1/2	156	165	30-1/2	1	39-15/16	2	24	19-1/2	162	180	36-7/16	1-1/2	47-9/16	3	30	25-1/2	226
100	23-7/16	1	29-1/4	2	18	13-1/2	100																																													
120	24-11/16	1	32-11/16	2	20	15-1/2	117																																													
135	25-5/8	1	33-3/4	2	20	15-1/2	121																																													
150	29-9/16	1	38-13/16	2	24	19-1/2	156																																													
165	30-1/2	1	39-15/16	2	24	19-1/2	162																																													
180	36-7/16	1-1/2	47-9/16	3	30	25-1/2	226																																													

All dimensions in inches. \*Roof opening size for curbs supplied by Loren Cook Company only.

## Tamper Proof Downblast Centrifugal Exhaust Ventilator Roof Mounted/Direct Drive



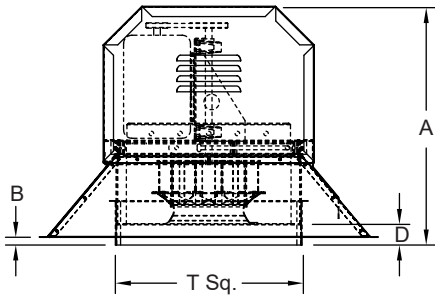
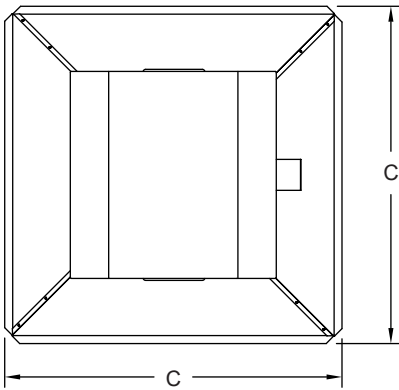
Loren Cook Company certifies that the SRSB-D shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



Type SRSB-D is furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT).

# SRSB Specifications and Dimension Data

## Tamper Proof Downblast Centrifugal Exhaust Ventilator Roof Mounted/Belt Drive



**Description:** Fan shall be a galvanized steel, tamper proof, roof mounted, belt driven, downblast centrifugal exhaust ventilator.

**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 Performance.

**Construction:** The fan shall be of bolted, riveted and welded construction utilizing corrosion resistant fasteners. The discharge skirt shall be 16 gauge galvanized steel construction fastened with stainless steel rivets. An 18 gauge galvanized steel hood shall have a stainless steel .25" diameter full length hinge to provide secure access into the motor compartment. The hood shall have two .125" gauge x 1.25" wide restraining bars to hold the hood in the open locked position when servicing. A heavy-duty .125" thick stainless steel locking hasp shall provide complete security with the use of a standard padlock concealed under the skirt. An integral conduit chase shall be provided through the curb cap and into the motor compartment to facilitate wiring connections. The motor, bearings and drives shall be mounted on a 14 gauge steel power assembly, isolated from the unit structure with rubber vibration isolators. The complete power assembly, motor and wheel assembly can be removed for servicing without disassembling the hood or skirt assemblies. Lifting lugs shall be provided to help prevent damage from improper lifting. Unit shall bear an engraved aluminum nameplate and shall be shipped in ISTA Certified Transit Tested Packaging.

**Wheel:** Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic galvanized steel inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-96, Balance Quality and Vibration Levels for Fans.

**Motor:** Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

**Bearings:** Bearings shall be designed and individually tested specifically for use in air handling applications. Construction shall be heavy-duty regreasable ball type in a cast iron pillow block housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

**Belts & Drives:** Belts shall be oil and heat resistant, non-static type. Drives shall be precision machined cast iron type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150 percent of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

**Product:** Fan shall be model SRSB as manufactured by Loren Cook Company of Springfield, Missouri.

### SRSB Dimension Data

Size	A	B	C	D	T Sq.	Roof Opening Square*	Approx. Ship Wt.-Lbs Less Motor
60	23-7/16	1	29-1/4	2	18	13-1/2	133
70	23-7/16	1	29-1/4	2	18	13-1/2	133
80	23-7/16	1	29-1/4	2	18	13-1/2	133
100	23-7/16	1	29-1/4	2	18	13-1/2	133
120	24-11/16	1	32-11/16	2	20	15-1/2	150
135	26-1/4	1	33-3/4	2	20	15-1/2	154
150	29-17/32	1	38-13/16	2	24	19-1/2	190
165	30-15/32	1	39-15/16	2	24	19-1/2	195
180	36-7/16	1-1/2	47-9/16	3	30	25-1/2	264
195	37-11/16	1-1/2	48-11/16	3	30	25-1/2	270
210	38-9/32	1-1/2	49-3/4	3	30	25-1/2	277
225	39-7/32	1-1/2	50-13/16	3	30	25-1/2	287
245	40-15/32	1-1/2	52-1/4	3	30	25-1/2	297
270	46	1-1/2	60	3	36	31-1/2	378

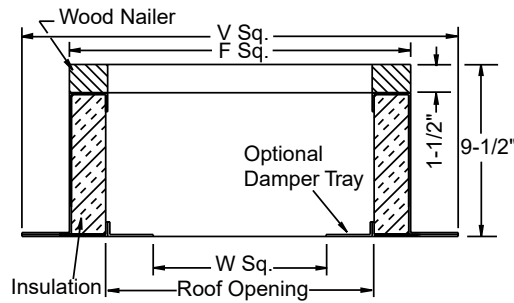
All dimensions in inches. \*Roof opening size for curbs supplied by Loren Cook Company only.



Loren Cook Company certifies that the SRSB shown herein are 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 SRSB is furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT) when furnished with factory supplied motor.



**Standard Construction Features**

- 18 gauge galvanized steel (RCG) or .080 aluminum (RCA).
- 1-1/2", 3 lbs. density thermal and acoustical insulation.
- Continuously welded corners.
- Wood nailer.

**Options**

- Damper tray.
- No wood nailer (deduct 1-1/2" from height).
- 13-1/2" tall construction.
- 3" cant (add 4" to V Sq. dimension).

**Curb Dimension Data**

SRS Unit Size	Catalog Number		F Sq.	V Sq.	W Sq.	Roof Opening	Approx. Ship Wt.-Lbs.	
	Galvanized	Aluminum					RCG	RCA
60, 65, 70, 75, 80, 85, 100	RCG-16	RCA-16	16-1/2	20-1/2	9-3/4	13-1/2	20	13
120, 135	RCG-18	RCA-18	18-1/2	22-1/2	11-3/4	15-1/2	22	15
150, 165	RCG-22	RCA-22	22-1/2	26-1/2	15-3/4	19-1/2	27	18
180, 195, 210, 225, 245	RCG-28	RCA-28	28-1/2	32-1/2	21-3/4	25-1/2	34	22
270	RCG-34	RCA-34	34-1/2	38-1/2	27-3/4	31-1/2	41	27

All dimensions in inches. When motor operated damper is used, a wood nailer is required. Sound curbs available for most sizes. Contact factory for dimensions.

**Typical Disconnect Switches**



**NEMA 1**



**NEMA 1  
(Lockable)**



**NEMA 3R**



**NEMA 4**

- NEMA 1** - Indoor general purpose.
- NEMA 1 (Lockable)** - Indoor general purpose with locking capability.
- NEMA 1 (Heavy Duty, Lockable)** - Indoor heavy duty visible blade.
- NEMA 3R** - Exterior mount, rain-tight.
- NEMA 4** - Water-tight and dust-tight.
- NEMA 7 and NEMA 9** - Lockable, indoor, explosion proof.



**NEMA 1  
(Heavy Duty)**



**NEMA 7  
NEMA 9**

**Motors**

**Direct Drive**

Two speed, single phase open motors may be supplied as follows:

- 1725 RPM motors as 1725/1140, 1140 RPM motors as 1140/860
- Explosion proof motors are available for some units.
- A Fan Speed Control (FSC) may be used on shaded pole and permanent split capacitor, 115V or 230V, single phase motors only. FSC cannot be used on any 1725 or 1140 RPM motors, explosion proof units or belt drive units.

**Belt Drive**

- Single phase motors are available from 1/6 to 1-1/2 HP.
- Three phase ODP motors are available from 1/4 to 7-1/2 HP.
- Two speed, single phase motors are available in 1725/1140 RPM, from 1/6 to 1 HP.
- Two speed, three phase motors are available in 1725/1140 RPM with two windings, from 1/3 to 5 HP.
- All standard motors, 3 HP and larger are shipped loose for field mounting.
- Two speed, explosion proof or TEFC motors 1-1/2 HP and larger are shipped loose for field mounting.
- TEFC and Class 1, Group D, explosion proof motors are available in single phase from 1/4 to 1 HP; in three phase from 1/4 to 7-1/2 HP; for all units in three phase; and up to 3/4 HP in single phase.

# SRSH Accessories Continued

## Typical Disconnect Switches Continued



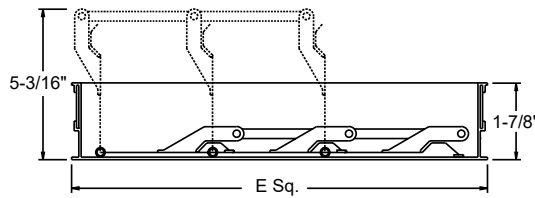
5 AMP FSC



10 AMP FSC

Cook's FSC is a variable speed controller which allows operation of SRSH units from 100 percent of capacity down to approximately 50 percent. The FSC can offer excellent energy conservation and sound benefits when 100 percent operation is not required. The FSC employs solid state circuitry for long-life and dependability. The FSC is available only on 115V and 230V shaded pole or permanent split capacitor motors and is not available on 1140 RPM and 1725 RPM motors. The FSC is normally shipped loose for field installation. Optional pre-wiring available.

## Gravity Backdraft Damper

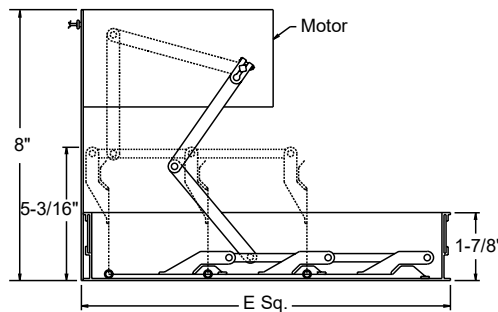


Gravity dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with brass bushings.

SRSH-D & SRSH-B Units	Catalog Number	E Sq.	Approx. Ship Wt.-
60, 65, 70, 75, 80, 85, 100	BD-12	11-3/4	2
120, 135	BD-14	13-3/4	2
150, 165	BD-18	17-3/4	3
180, 195, 210, 225, 245	BD-24	23-3/4	5
270	BD-30	29-3/4	6

All dimensions in inches. When motor operated damper is used, a wood nailer is required. Sound curbs available for most sizes. Contact factory for dimensions.

## Motorized Backdraft Damper



Motorized dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with brass bushings. Motors are shipped loose for field installation. Available voltages include 110V, 220V, and 440V.

SRSH-D & SRSH-B Units	Catalog Number	E Sq.	Approx. Ship Wt.-
60, 65, 70, 75, 80, 85, 100	BDM-12	11-3/4	4
120, 135	BDM-14	13-3/4	4
150, 165	BDM-18	17-3/4	5
180, 195, 210, 225, 245	BDM-24	23-3/4	7
270	BDM-30	29-3/4	8

All dimensions in inches. When motor operated damper is used, a wood nailer is required. Sound curbs available for most sizes. Contact factory for dimensions.



## **LOREN COOK COMPANY**

2015 E. DALE STREET  
SPRINGFIELD, MO 65803-4637

417.869.6474

FAX 417.862.3820

[lorencook.com](http://lorencook.com)