



INDUSTRIAL PROCESS AND
COMMERCIAL VENTILATION SYSTEMS

SQUARE INLINE CENTRIFUGAL FANS

DSI | BSI



SQUARE INLINE CENTRIFUGAL FANS



DSI
Direct Drive

Now Available with



see page 8



All DSI and BSI models are UL/cUL 705 listed, for electrical, File No. E158680.



Twin City Fan & Blower certifies that the Models DSI and BSI shown herein are licensed to bear the AMCA Seal. Certified performance data may be found in Twin City Fan & Blower's Fan Selector software.



Scan the QR code to search Twin City Fan & Blower's AMCA-certified products.



For complete product performance, drawings and available accessories, download our Fan Selector software at tcf.com.

Overview

DSI | BSI

Twin City Fan & Blower's Model DSI direct drive and Model BSI belt driven square inline centrifugal fans are specifically designed for duct applications handling relatively clean air, including supply, exhaust and return air systems. These fans offer high efficiency and quiet operation in a compact design that can be mounted in any position (horizontal, vertical or angular). Duct collars are provided for easy mounting without the need for square to round duct transitions. The units can be easily serviced through the side access panels without removing duct connections.

Square inline centrifugal units feature high efficient, non-overloading, backward inclined centrifugal impellers precisely matched to a spun venturi. All impellers are statically and dynamically balanced. Units are manufactured under strict quality assurance standards to insure cataloged performance and years of maintenance-free operation. Square inline fans are not intended for outdoor applications.

Typical Applications Include

General HVAC (exhaust, filtration, return and supply, air of commercial buildings), Air Pollution Control, Airport Exhaust, Automotive, Fertilizer, Food & Beverage, Laboratory Exhaust, Metal & Mineral Processing, Office Exhaust, Restroom Exhaust, Warehouse Exhaust and Water Treatment

Impeller Types

Backward Inclined

Optional Construction

Model BSI: Spark Resistant Construction (Type B and C)

Certifications

AMCA Sound/Air and FEI, UL 705 Listed for Electrical

Energy Regulations

Twin City Fan & Blower supports energy efficiency regulations enacted by the U.S. Department of Energy (DOE) and specific states. The selection and application of fan products is a significant part of these regulations. Engineers and specifiers must understand how to apply TCF products to their specific applications to meet applicable DOE and state regulatory requirements. Twin City Fan & Blower has made significant investments in product testing and development to provide efficient products. Developments in Twin City Fan & Blower's Fan Selector software are in place to aid your decision in product selection to assist with meeting the efficiency requirements as stipulated in the applicable regulations.

SQUARE INLINE CENTRIFUGAL FANS

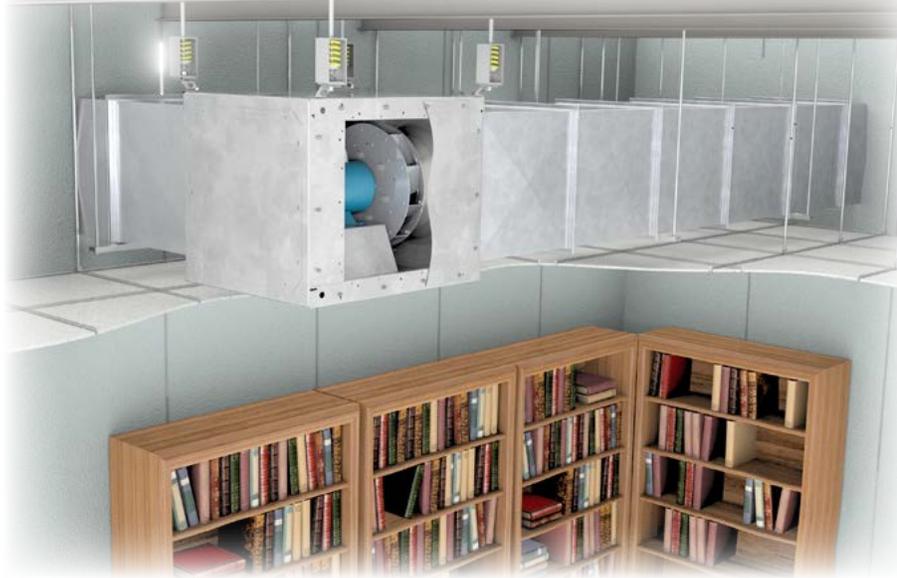
Overview

DSI | BSI



Model DSI

Available in 10 sizes from 080 through 165
Airflow to 5,800 CFM
Static pressure to 2" w.g.



General HVAC
(90 Degree Turn)



Model BSI

Available in 29 sizes from 080 through 402
Airflow to 27,400 CFM
Static pressure to 3.5" w.g.



General HVAC
(Straight Inline)





Housings - Housing assembly features heavy-gauge galvanized steel construction

Removable Side Panels - Removable side panels provide easy access for service and maintenance without the need to remove duct connections. Complete removal of the power assembly is also possible through side access panels. Side panels can provide a 90-degree side discharge. Requires optional side discharge accessory.

Duct Collars - Duct collars provide ready attachment to ductwork and eliminate the need for square to round duct transitions.

Belt Tube/Bearing Cover - Constructed of heavy-gauge galvanized steel, the belt tube and bearing cover enclose the belts, fan sheave and bearings within the airstream (Model BSI).

Drive Frame - Motor and drive frame are constructed of heavy-gauge galvanized steel. The pivoting motor base makes for simple belt tensioning (Model BSI).

Impeller - Backward inclined non-overloading, all-aluminum impeller and hub statically and dynamically balanced to assure long life and quiet operation.

Mounting Brackets - Galvanized steel mounting brackets for easy mounting in horizontal or vertical position.

Pulleys - Heavy-duty cast iron adjustable pulleys to permit speed variation (Model BSI).

Shaft - Precision ground and polished with a first critical speed of at least 125% of the fan's maximum operating speed (Model BSI).

Bearings - All models are furnished with prelubricated cast iron pillow block bearings with zerk fittings, designed for an average life (L-50) of 500,000 hours or more at maximum cataloged operating speeds (Model BSI).

Disconnect Switch - Mounted and prewired NEMA 1 disconnect switch provided as standard for servicing the unit without the danger of an accidental start.



Disconnect switches provide positive electrical shutoff during fan cleaning or maintenance.

NEMA 1 Disconnect Switch (Standard)

A NEMA 1 disconnect switch is available shipped loose for field mounting and wiring or factory mounted and wired with ODP or TEFC motors.



NEMA 1 Disconnect Switch

NEMA 3R Disconnect Switch

A NEMA 3R, rain proof, disconnect is available shipped loose for field mounting and wiring or factory mounted and wired externally.



NEMA 3R Disconnect Switch

NEMA 4 Disconnect Switch

A NEMA 4, water and dust tight, disconnect is available shipped loose for field mounting and wiring or factory mounted and wired externally.



NEMA 4 Disconnect Switch

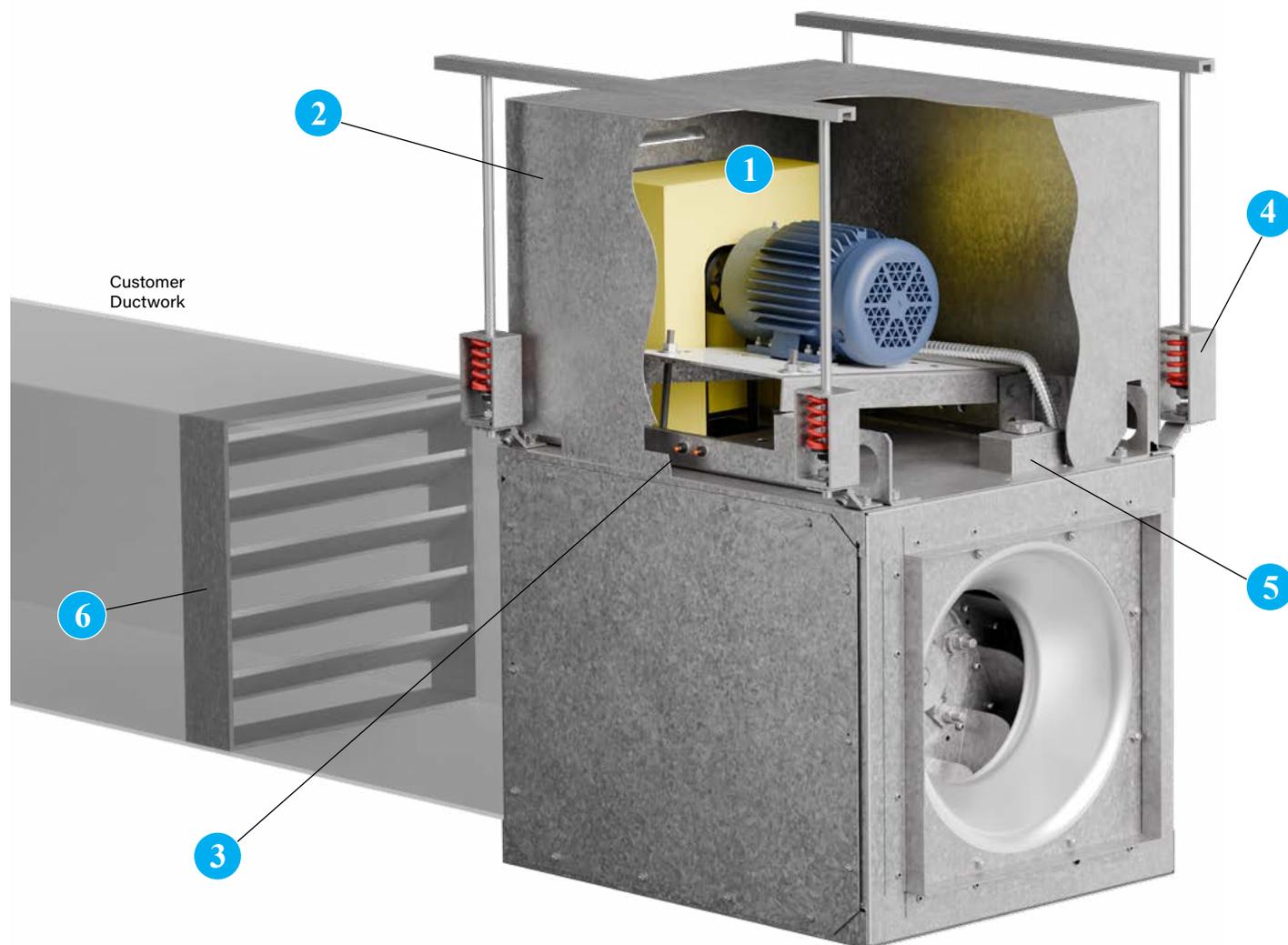
NEMA 7/9 Disconnect Switch

A NEMA 7/9 disconnect switch is recommended on fans with explosion proof motors. The NEMA 7/9 switch is designed for use with fans operating in hazardous environments. Available shipped loose for field mounting and wiring. (Not shown.)



Model DSI
Direct Drive with Top
Mount GridSmart™ Drive





1 Belt Guard is a formed galvanized steel guard available to cover the drive assembly on Model BSI. Belt guard is offered in lieu of motor cover.

2 Motor Cover is a formed galvanized steel cover available on Model BSI to completely cover the motor and drives. Motor cover serves as OSHA belt guard.

3 Extended Lube Lines Exterior mounting zerk fittings are available with lines to the fan shaft bearings (Model BSI) for relubrication from outside the unit.

4 Vibration Isolators Spring or neoprene type vibration isolators are available for ceiling suspended or floor mounted installations.

5 NEMA 3R rain proof safety disconnect switch is available for positive electrical shutoff of the fan and the protection of service personnel.

6 Backdraft Dampers, with automatic or motorized operation, feature felt-edged damper blades for quiet operation. Damper frames are constructed of galvanized steel and blades are constructed of 26-gauge aluminum. All dampers ship loose for field mounting in ductwork.

Motorized dampers are recommended for low CFM applications to assure unrestricted airflow. Motorized dampers are available with 115, 208, 230, 460, 575 or 24 volt service. End switches are available. See dimensional data for sizing.



1 Variable Speed Control Variable speed control is an optional accessory on all DSI models, to allow the adjustment of airflow for system balancing. Variable speed controllers are solid-state (Tri-ac) design and are designed to start the motor on high speed for better startup characteristics. Variable speed controls can be shipped separately, factory installed or field installed on the unit at a later date. Motor must be ODP 115V, PSC or shaded pole type.

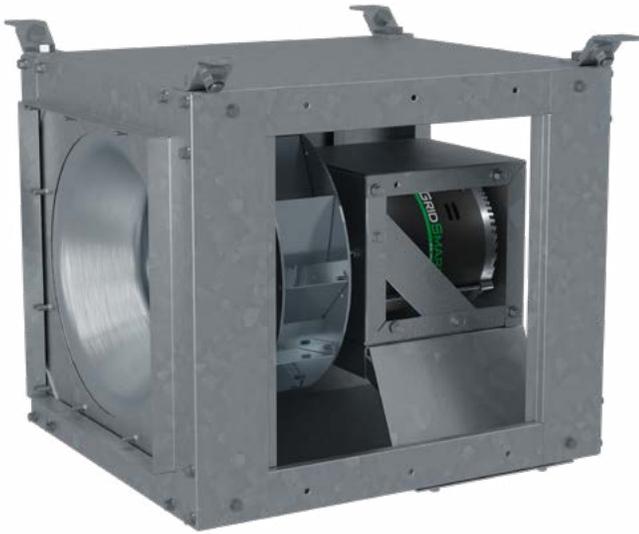
2 Filter Box A filter box containing two inch aluminum wire mesh, removable and washable filters is available for attachment to the fan inlet side. The filter box is constructed of galvanized steel, with duct collars for easy mounting and removable side panels for easy filter cleaning or replacement. MERV 8 disposable paper filters are also available. One inch filters are available on either type. For filter box pressure drops contact factory. See page 10 for dimensional data.

3 Outlet Guard Inlet and outlet guards are available for all models. Guards mount inside the unit and do not interfere with the attachment of ductwork.

Other Accessories Include:

- Special Coatings
- Insulated Housings
- Aluminum Construction
- Stainless Steel Hardware
- NEMA 4 & 7/9 Disconnect Switches

ELECTRONICALLY COMMUTATED MOTORS



Model DSI
With GridSmart™ EC Motor



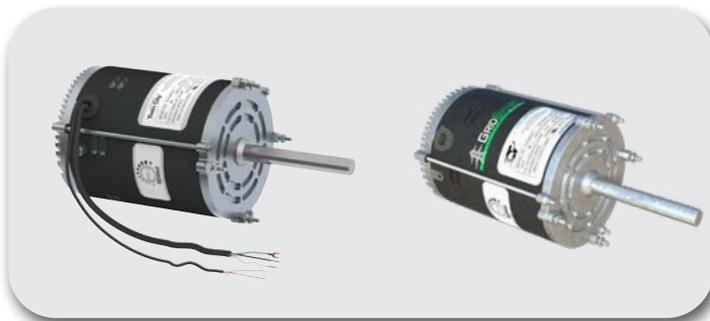
Model DSI
with GridSmart™
Pre-Wired Microdrive

Twin City Fan & Blower offers its own line of custom-engineered GridSmart™ Electronically Commutated (EC) motors, which utilize an electronic circuit board to control the functionality of the motor. They combine the best of AC and DC technologies and deliver exceptional energy efficiency and performance. EC motors are designed to meet or exceed new Department of Energy fan regulations while also reducing operating costs.



Benefits

- **High Efficiency** up to 87.5%, providing big energy savings over traditional PSC motors, up to 66%!
- **Easy Installation and Commissioning** EC motors up to 2 HP, single-phase or factory-mounted and wired drives with induction motors up to 5 HP, three-phase
- **Consistent Performance** maintains efficiency as the motor speed is varied
- **Quiet & Smooth Operation** with soft start technology for reduced noise
- **Longer Life** due to lower operating temperatures and permanent lubrication
- **Wide Turndown Capability** with 80% usable turndown range compared with 40% maximum on PSC motors
- **Low Maintenance** benefits of direct drive fans with performance similar to belt driven fans



GridSmart™ EC Motors



GridPoint Controller

Side discharge kits (including panels, mounting collars and necessary hardware) are available to provide 1-way, 2-way or 3-way discharges. This option provides exceptional adaptability for any installation, as well as avoiding the system effect of disrupted airflow when the ductwork has to take a 90-degree turn.

Configurations

OPTION	FIGURE	CONFIGURATION
Standard	A	Rear
1-Way	B	Left
	C	Right
2-Way	D	Left and Right
	E	Left and Rear
	F	Right and Rear
3-Way	G	Left, Right and Rear

NOTE: Performance will change depending on the position of the discharge. See correction factor table below. Percentages based on (inline) cataloged performance, but are not AMCA certified. Always check BHP when selecting motor HP and fan size.

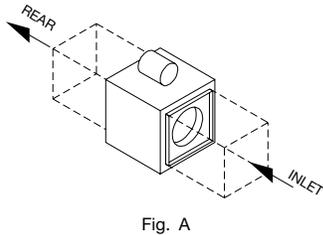


Fig. A

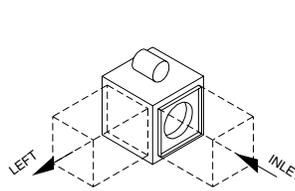


FIG. B

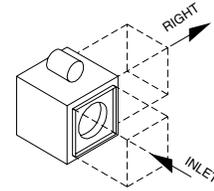


FIG. C

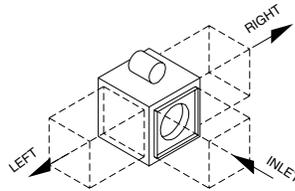


FIG. D

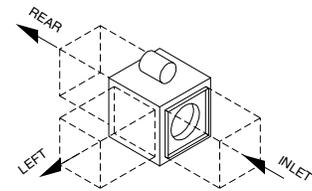


FIG. E

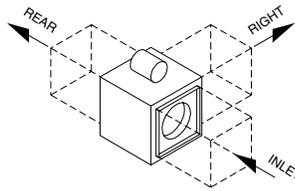


FIG. F

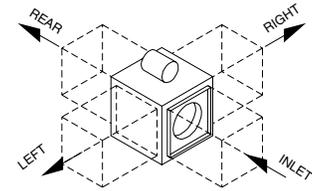


FIG. G

Performance Correction Factors

DISCHARGE	0.50" SP		1.00" SP		1.50" SP		2.00" SP		AVG.	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1-Way	110.7%	113.0%	114.0%	110.8%	115.8%	108.5%	120.0%	102.3%	115.1%	108.7%
2-Way	114.7%	106.5%	118.1%	109.7%	120.3%	112.4%	126.8%	114.0%	120.0%	110.7%
3-Way	113.2%	105.9%	117.4%	109.7%	121.6%	113.0%	127.1%	114.0%	119.8%	110.7%

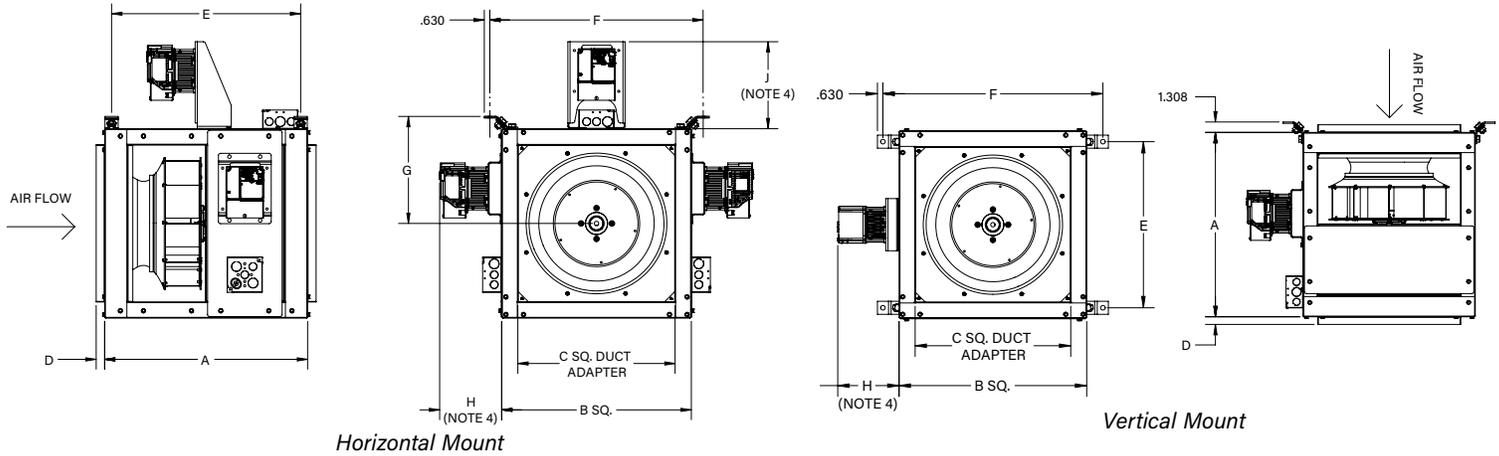
NOTE: The performance correction factors shown above are not licensed to bear the AMCA Certified Ratings Seal.

Duct Openings

MODEL BSI	MODEL DSI	LEFT AND RIGHT DISCHARGE			REAR DISCHARGE/INLET		
		DUCT COLLAR		DUCT SIZE REQUIRED	DUCT COLLAR		DUCT SIZE REQUIRED
		WIDTH	HEIGHT		WIDTH	HEIGHT	
080	080	11.88	11.88	12 x 12	11.88	11.88	12 x 12
090	090	11.88	11.88	12 x 12	11.88	11.88	12 x 12
100	100	13.88	13.88	14 x 14	13.88	13.88	14 x 14
120	120	15.88	15.88	16 x 16	15.88	15.88	16 x 16
135	135	17.88	17.88	18 x 18	17.88	17.88	18 x 18
150	150	19.88	19.88	20 x 20	19.88	19.88	20 x 20
165	165	22.88	22.88	23 x 23	22.88	22.88	23 x 23
180	—	23.88	23.88	24 x 24	23.88	23.88	24 x 24
210	—	27.88	27.88	28 x 28	27.88	27.88	28 x 28
225	—	25.88	28.88	26 x 29	29.88	29.88	30 x 30
245	—	27.88	31.88	28 x 32	32.88	32.88	33 x 33
270	—	29.88	33.88	30 x 34	35.88	35.88	36 x 36
300	—	29.88	37.88	30 x 38	39.88	39.88	40 x 40
330	—	31.88	39.88	32 x 40	43.88	43.88	44 x 44
365	—	32.88	41.88	33 x 42	45.88	45.88	46 x 46
402	—	34.88	46.88	35 x 47	51.88	51.88	52 x 52

NOTE: Damper size should be 1/8" less than duct size required or same size as duct collar.

Model DSI, Direct Drive



MODEL DSI	EC MOTOR SIZES	A	B	C	D	E		F		G	H	J	DAMPER SIZE	AVG. SHIP WT. (LBS.)	SIDE DISCHARGE SIZE
						HOR.	VER.	HOR.	VER.						
080A	080AE	19.00	15.33	11.88	1.00	16.50	13.30	19.50	19.05	8.63	-	-	12.00 x 12.00	93	11.88 x 11.88
090A	090AE	19.00	15.33	11.88	1.00	16.50	13.30	19.50	19.05	8.63	-	-	12.00 x 12.00	96	11.88 x 11.88
100A	100AE	20.50	17.81	13.88	1.00	19.00	15.47	21.06	21.53	10.38	-	-	14.00 x 14.00	106	13.88 x 13.88
120A	120AE	21.50	19.38	15.88	1.00	20.00	16.94	22.06	23.09	11.13	-	-	16.00 x 16.00	127	15.88 x 15.88
135A/135AN	135AE/ANE	23.00	21.56	17.88	1.00	21.50	19.10	24.25	25.27	12.19	7.05	9.91	18.00 x 18.00	132	17.88 x 17.88
150A/150AN	150AE/ANE	24.00	23.82	19.88	1.00	22.50	21.31	26.38	27.53	13.29	7.05	9.91	20.00 x 20.00	157	19.88 x 19.88
165A/165AN	165AE/ANE	26.00	26.50	22.88	1.00	24.50	24.00	29.06	30.22	14.64	7.69	9.91	23.00 x 23.00	167	22.88 x 22.88

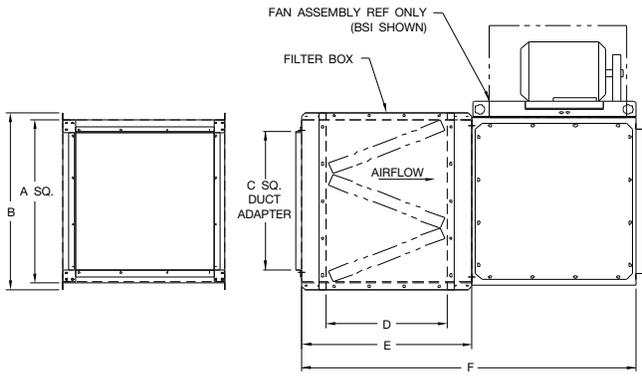
- Notes:**
1. All figures are in inches unless noted otherwise.
 2. Average ship weight is for fan and motor assembly.
 3. Dimensions are not to be used for construction.
 4. Microdrive location may be on the left, right or top as viewed from inlet on horizontal mount. Location is fixed for vertical mount fan as shown. Microdrive only available on sizes 135-165.

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Filter Box Assembly

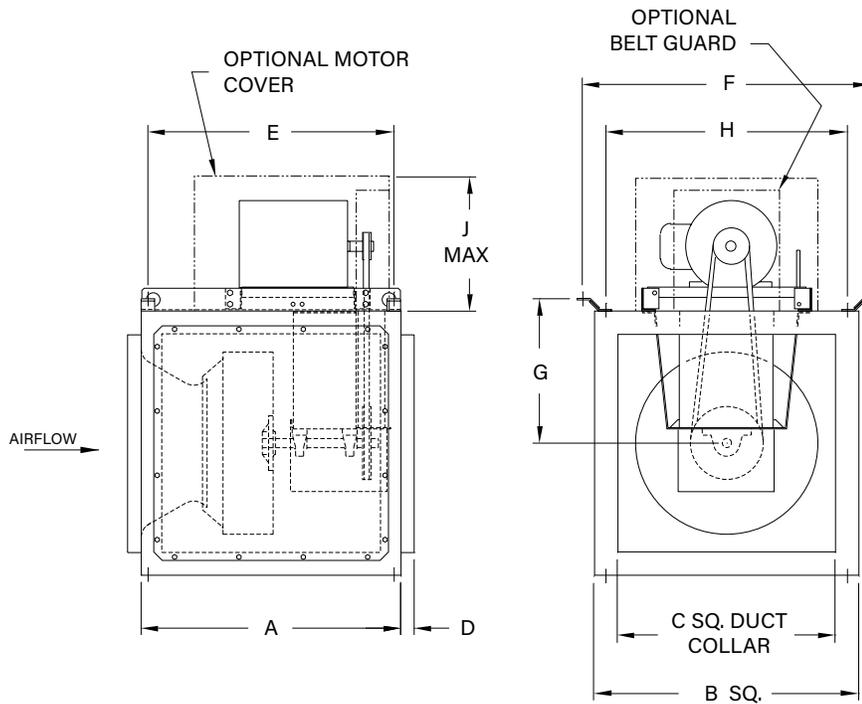
SIZE	A SQ.	B	C	D	E	F	FILTER SIZE	FILTER QTY.	AVG. SHIP WT. (LBS.)
080/090	16.00	18.50	11.88	21.44	28.38	47.38	25x16x2	1	99
100	18.06	20.56	13.88	19.88	26.75	47.25	25x16x2	1	113
120/120HP	19.62	22.12	15.88	24.50	31.38	52.88	25x16x2	2	148
135/135HP	21.75	24.25	17.88	24.00	32.00	55.00	25x20x2	2	181
150/150HP	23.94	26.44	19.88	23.75	32.00	56.00	25x20x2	2	200
165/165HP	26.62	29.12	22.88	19.56	28.00	54.00	25x20x2	3	203
180/180HP	29.12	31.62	23.88	19.25	26.50	55.00	25x20x2	3	220
210/210HP	32.44	34.94	27.88	21.00	31.00	63.00	25x16x2	4	290
225/225HP	34.25	36.75	29.88	24.00	33.00	67.00	25x16x2	6	397
245/245HP	37.75	40.25	32.88	18.88	30.00	56.50	25x20x2	2	439
							25x16x2	2	
270/270HP	40.25	42.75	35.88	23.00	33.00	72.00	25x20x2	6	568
300/300HP	44.25	46.75	39.88	24.00	33.00	74.50	25x20x2	8	654
330/330HP	48.94	51.44	43.88	23.50	34.00	79.50	25x16x2	12	842
365/365HP	50.25	52.75	45.88	19.75	30.50	77.38	25x20x2	12	850
402/402HP	55.50	58.00	51.88	24.75	36.00	88.00	25x20x2	12	1150
							25x16x2	6	

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- Notes:**
1. All figures are in inches unless noted otherwise.
 2. Filter box option is shipped separately for field installation.
 3. For filter box information, see page 7.
 4. Disposable paper filters are rated for MERV 8.

Model BSI, Belt Driven



MODEL BSI	A	B	C	D	E	F	G	H	J	DAMPER SIZE	AVG. SHIP WT. (LBS.)	SIDE DISCHARGE SIZE
080A	19.00	15.33	11.88	1.00	16.50	19.50	8.63	13.56	12.00	12.00 x 12.00	93	11.88 x 11.88
090A	19.00	15.33	11.88	1.00	16.50	19.50	8.63	13.56	12.00	12.00 x 12.00	96	11.88 x 11.88
100A	20.50	17.81	13.88	1.00	19.00	21.06	10.38	16.00	12.00	14.00 x 14.00	106	13.88 x 13.88
120A/120AHP	21.50	19.38	15.88	1.00	20.00	22.06	11.13	17.00	12.00	16.00 x 16.00	127	15.88 x 15.88
135A/135AHP	23.00	21.56	17.88	1.00	21.50	24.25	12.19	19.16	12.75	18.00 x 18.00	132	17.88 x 17.88
150A/150AHP	24.00	23.82	19.88	1.00	22.50	26.38	13.29	21.31	12.75	20.00 x 20.00	157	19.88 x 19.88
165A/165AHP	26.00	26.50	22.88	1.00	24.50	29.06	14.64	24.00	14.56	23.00 x 23.00	167	22.88 x 22.88
180A/180AHP	28.50	29.00	23.88	1.50	27.00	31.56	15.89	26.50	16.25	24.00 x 24.00	193	23.88 x 23.88
210A/210AHP	32.00	32.34	27.88	1.50	30.50	35.06	17.54	30.00	16.25	28.00 x 28.00	223	27.88 x 27.88
225A/225AHP	34.00	34.00	29.88	1.50	32.50	36.89	18.45	31.81	18.50	30.00 x 30.00	287	25.88 x 28.88
245A/245AHP	36.50	37.50	32.88	1.50	35.00	40.38	20.20	35.31	18.50	33.00 x 33.00	352	27.88 x 31.88
270A/270AHP	39.00	40.13	35.88	1.50	37.50	43.00	21.45	37.88	20.00	36.00 x 36.00	394	29.88 x 33.88
300A/300AHP	41.50	44.13	39.88	1.50	39.50	47.62	23.83	41.88	20.00	40.00 x 40.00	442	29.88 x 37.88
330A/330AHP	45.50	48.81	43.88	1.50	43.50	52.31	26.19	46.56	20.00	44.00 x 44.00	554	31.88 x 39.88
365A/365AHP	48.50	50.13	45.88	1.50	46.50	53.63	26.84	47.88	20.00	46.00 x 46.00	665	32.88 x 41.88
402A/402AHP	52.00	55.25	51.88	1.50	50.00	58.88	29.47	53.13	20.00	52.00 x 52.00	743	34.88 x 46.88

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Notes:

1. All figures are in inches unless noted otherwise.
2. Average ship weight is for fan and motor assembly.
3. Dimensions are not to be used for construction.





Model

DSI

Supply or exhaust fans shall be of the direct drive model DSI centrifugal square inline type, as manufactured by Twin City Fan, Minneapolis, Minnesota.

PERFORMANCE — Performance ratings shall conform to AMCA Standard 205 (fan efficiency grade), 211 (air performance) and 311 (sound performance). Fans shall be tested in accordance with ANSI/AMCA Standard 210 (air performance) and 300 (sound performance) in an AMCA accredited laboratory. Fans shall be licensed to bear the AMCA certified ratings seal for both sound and air, and fan energy index (FEI). Model DSI shall be UL 705 listed.

CONSTRUCTION — Unit exterior shall be constructed of heavy-gauge galvanized steel. The fan housing shall be square in shape and readily attachable to building ductwork. Unit side panels shall be removable for easy access for maintenance and service. The power assembly shall be removable as a complete module through the side access panel. Fan housings shall have universal mounting brackets to accommodate horizontal or vertical installations. Fans shall bear a permanently attached nameplate displaying model and serial number of the unit for future identification.

IMPELLER — Fan impellers shall be of the non-overloading centrifugal backward inclined type, constructed of aluminum and containing a matching inlet venturi for optimum unit performance. Impellers shall be statically and dynamically balanced. Each impeller shall be statically and dynamically balanced in accordance with ANSI/AMCA 204-96 "Balance Quality and Vibration Levels for Fans" to Balance Quality Grade G6.3.

MOTOR — Motors shall be of the heavy-duty ball bearing type, closely matched to the fan load. A disconnect switch shall be factory installed and wired to the fan motor as standard. All motors shall be UL recognized.

ACCESSORIES — When specified, accessories such as backdraft damper, belt guard, motor cover, insulated housing, vibration isolators, side discharge, remote lubrication lines, inlet and outlet guards, special coatings and filter box option shall be provided by Twin City Fan to maintain one source responsibility.

FACTORY RUN TEST — All fans prior to shipment shall be completely assembled and test run as a unit at operating speed or maximum RPM allowed for the particular construction type. Records shall be maintained and a written copy shall be available upon request.





Model

BSI

Supply or exhaust fans shall be of the belt driven model BSI centrifugal square inline type, as manufactured by Twin City Fan, Minneapolis, Minnesota.

PERFORMANCE — Performance ratings shall conform to AMCA Standard 205 (fan efficiency grade), 211 (air performance) and 311 (sound performance). Fans shall be tested in accordance with ANSI/AMCA Standard 210 (air performance) and 300 (sound performance) in an AMCA accredited laboratory. Fans shall be licensed to bear the AMCA certified ratings seal for both sound and air, and fan energy index (FEI). Model BSI shall be UL 705 listed. Fans shall bear a permanently attached nameplate displaying model and serial number of the unit for future identification.

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SHAFT — Fan shafts shall be precision ground and polished. Shafts shall have a first critical speed of at least 125% of the fan's maximum operating speed.

BEARINGS — Bearings shall be of the one-piece, pillow block type with relubricable zerk fittings. Bearings shall be designed for air handling service with a minimum L-10 life in excess of 100,000 hours; L-50 500,000 hours at the maximum cataloged operating speed. Bearing mounting plate shall have self-aligning tabs for exact locating and alignment of bearings.

DRIVE — Drives shall be sized for a minimum of 150% of driven horsepower. Machined, cast iron motor sheaves shall be adjustable for final system balancing. The belt and pillow block ball bearings shall be protected from the airstream by an enclosure.

MOTOR — Motors shall be of the heavy-duty ball bearing type, closely matched to the fan load. A disconnect switch shall be factory installed and wired to the fan motor as standard. Motor shall be mounted on the outside of the unit, isolated from the airstream. All motors shall be UL recognized.

ACCESSORIES — When specified, accessories such as backdraft damper, belt guard, motor cover, insulated housing, vibration isolators, side discharge, remote lubrication lines, inlet and outlet guards, special coatings and filter box option shall be provided by Twin City Fan to maintain one source responsibility.

FACTORY RUN TEST — All fans prior to shipment shall be completely assembled and test run as a unit at operating speed or maximum RPM allowed for the particular construction type. Records shall be maintained and a written copy shall be available upon request.

INDUSTRIAL PROCESS AND COMMERCIAL VENTILATION SYSTEMS

CENTRIFUGAL FANS | UTILITY SETS | PLENUM & PLUG FANS | INLINE CENTRIFUGAL FANS
MIXED FLOW FANS | TUBEAXIAL & VANEAXIAL FANS | WALL MOUNTED FANS | ROOF VENTILATORS
CENTRIFUGAL ROOF & WALL EXHAUSTERS | CEILING VENTILATORS | GRAVITY VENTILATORS | DUCT BLOWERS
RADIAL BLADED FANS | RADIAL TIP FANS | HIGH EFFICIENCY INDUSTRIAL FANS | PRESSURE BLOWERS
LABORATORY EXHAUST FANS | FILTERED SUPPLY FANS | MANCOOLERS | FIBERGLASS FANS | CUSTOM FANS



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