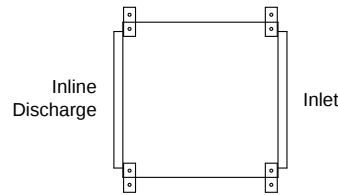


Model: SQ-140-A
Direct Drive Centrifugal Inline Fan

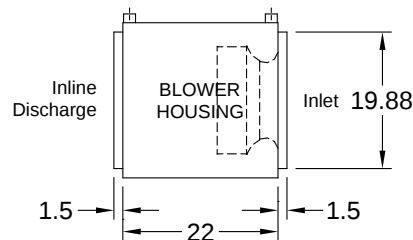
Dimensional	
Quantity	1
Weight w/o Acc's (lb)	99
Weight w/ Acc's (lb)	127
Max T Motor Frame Size	145
Optional Damper (in.)	20 x 20

Performance	
Requested Volume (CFM)	2,000
Actual Volume (CFM)	2,008
External SP (in. wg)	1.5
Total SP (in. wg)	1.512
Fan RPM	1725
Operating Power (hp)	0.98
Elevation (ft)	709
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.073
Tip Speed (ft/min)	6,576
Static Eff. (%)	49

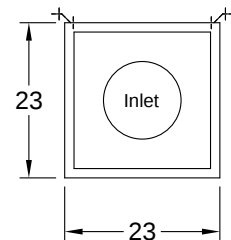
Motor	
Motor Mounted	Yes
Size (hp)	1
Voltage/Cycle/Phase	460/60/3
Enclosure	ODP
Motor RPM	1725
Windings	1
NEC FLA* (Amps)	2.1



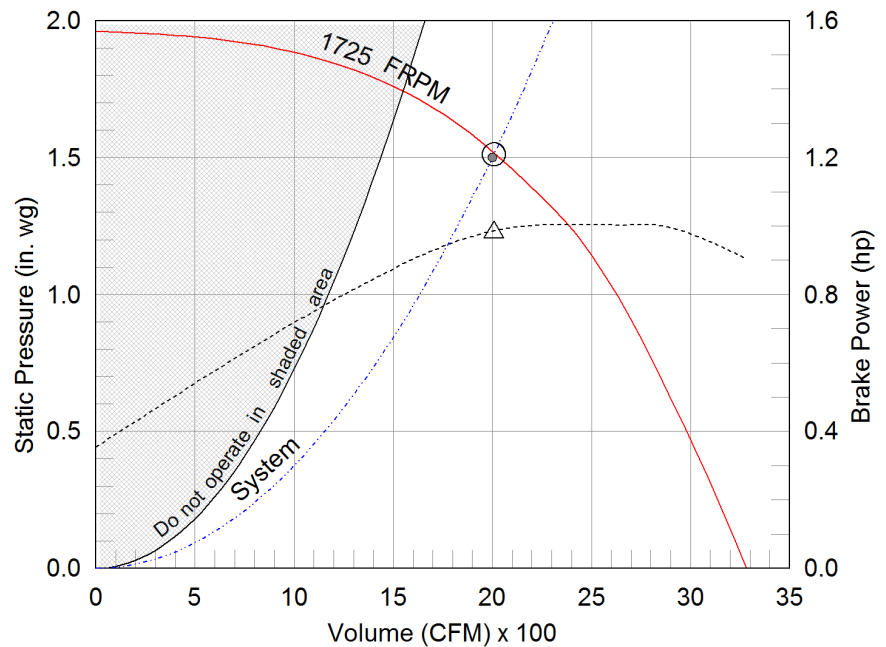
PLAN VIEW



ELEVATION VIEW



END VIEW



△ Operating Bhp point	External SP	1.5 in. wg
○ Operating point at Total SP	Direct Drive RPM Adjustment	0.012 in. wg
● Operating point at External SP	Total SP	1.512 in. wg
— Fan curve		
- - - System curve		
- - - Brake horsepower curve		

Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	77	78	83	78	72	69	67	65	80	68	16.5
Radiated	80	79	79	72	64	54	49	49	74	62	11.3

Notes:

All dimensions shown are in units of in.
*NEC FLA - based on tables 430.248 or 430.250 of National Electrical Code 2014. Actual motor FLA may vary, for sizing thermal overload, consult factory.
LwA - A weighted sound power level, based on ANSI S1.4 dBA - A weighted sound pressure level, based on 11.5 dB attenuation per Octave band at 5 ft - dBA levels are not licensed by AMCA International
Sones - calculated using AMCA 301 at 5 ft



Model: SQ-140-A

Direct Drive Centrifugal Inline Fan

Standard Construction Features:

- Galvanized steel housing - Backward inclined aluminum wheel - Two bolted access panels - Integral duct connection flanges - Ball bearing motors (sizes 100-160 and all vari-green motors), sleeve bearing motors (sizes 60-95) - Corrosion resistant fasteners

Selected Options & Accessories:

UL/cUL 705 Listed - "Power Ventilators"

Switch, NEMA-1, Toggle, Shipped with Unit

Junction Box Mounted & Wired

Damper Shipped Loose, Inline, WD-330-PB-20X20, Gravity Operated, Not Coated

Motor Cover

Isolators & Brackets, Spring Hanging (1 Kit(s): Qty 4, PN: 850344) (Shipped Loose)

Unit Warranty: 1 Yr (Standard)

Disconnect Switch

Enclosure Rating: NEMA-1

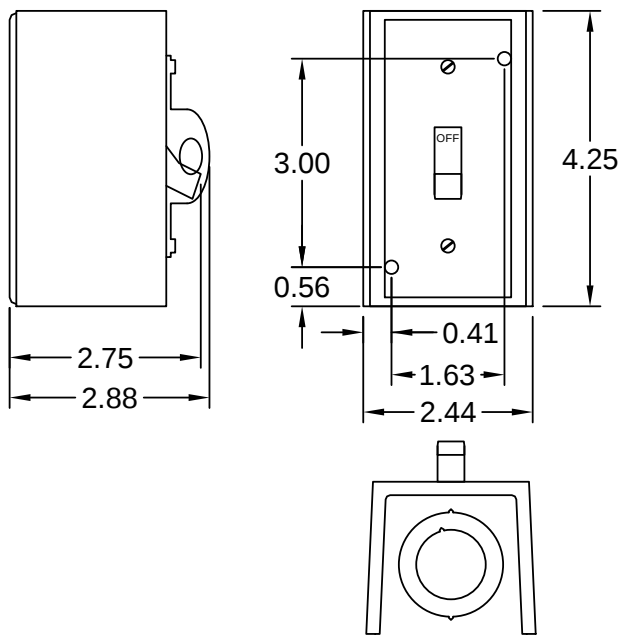
Standard Construction Features:

Enclosure constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection against falling dust. This enclosure meets the rod entry and the indoor corrosion protection design tests. The rod entry test is intended to simulate incidental contact with enclosure equipment. Enclosure is equipped with provision to lockout in the off position with customer supplied lock.

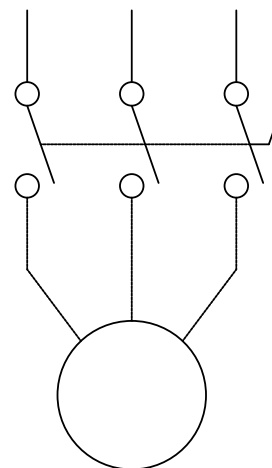
Disconnect Switch Configuration

Type:	Toggle	Motor Size:	1 hp	Voltage:	460	UL Listed:	Yes
Manufacturer:	Square D	Cycle:	60	Amperage:	30	CSA Approved:	Yes
Overload Protection:	None	Phase:	3	Switch Pole(s):	3	Rating:	10 hp
Junction Box Mtg.:	Mounted and Wired	RPM:	1725	Exp. Resist. Wiring:	None		
Switch Mounting:	Shipped With Unit						

Electrical Drawing Details



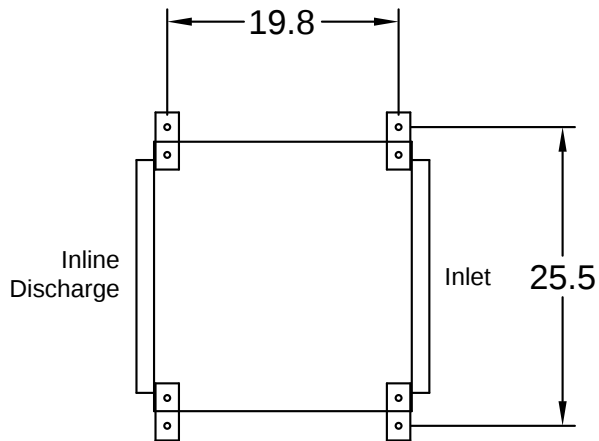
Wiring Schematic



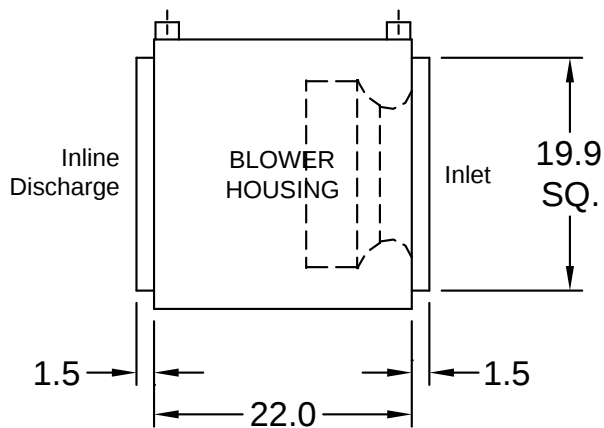
Notes: All dimensions shown are in units of in.

Assembly Drawing

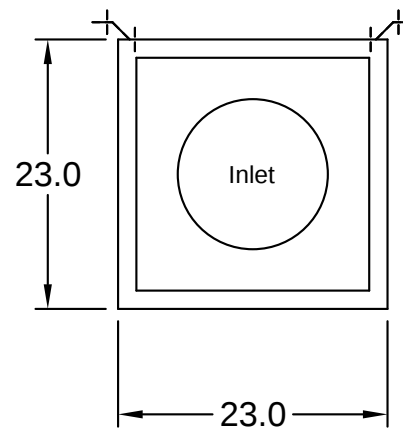
Type: Direct Drive Centrifugal Inline Fan



PLAN VIEW



ELEVATION VIEW



END VIEW

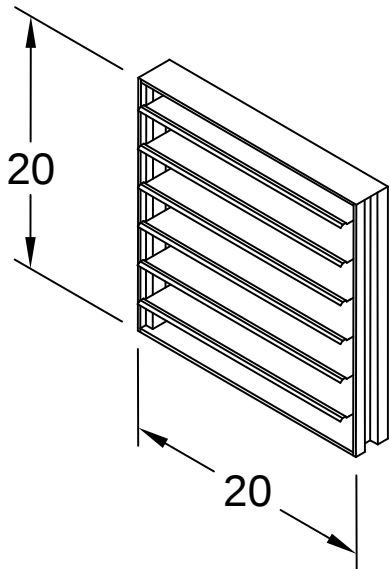
Notes: All dimensions shown are in units of in..

Vertical Mount Exhaust Damper

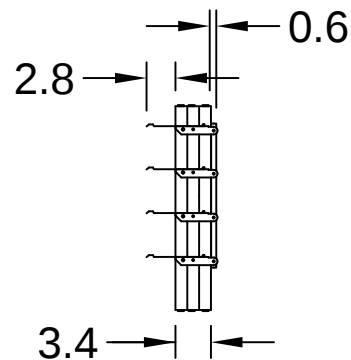
Model: WD-330

Standard Construction Features:

- Model WD-330 is a vertical mount exhaust damper and is constructed of galvanized steel with pre-punched mounting holes - Damper blades are 0.025 in. roll formed aluminum with vinyl seals on the closing edge - Steel axles are 0.188 in. diameter zinc plated steel - Synthetic sleeve type bushings



DAMPER - INLINE
DISCHARGE



TYP. SECTION VIEW

Notes: All dimensions shown are in units of in.
Width And height furnished approximately 0.125 in. undersize



Mechanical

LETTER OF TRANSMITTAL

TO: Paric Corporation

77 West Port Plaza #250

St. Louis, MO 63146

ATTN: Jason Szachnieski, Devin Gates

DATE: 8/3/16

JOB #: 5768

RE: Webster ISB

We are sending you

☒

Shop drawings

☐ Attached

☐ Prints

☐ Under separate cover

☐ Plans

☐ Samples

☐ Specifications

☐ Copy of letter

☐ Change order

☐ Other

COPIES	DATE	NO.	DESCRIPTION
1	8/3/16	235000-2.9	In-Line Centrifugal Fan

These are transmitted as checked below:

☐ For signature

☐ For your use

☐ As requested

☐ For bids due

☒

For review and comment

☐ Approved as submitted

☐ Approved as noted

☐ Returned for corrections

☐ Prints returned after loan to us

☐ Other

☐ Resubmit

☒ Submit

☐ Return

☐ copies for approval

☐ copies for distribution

☐ corrected prints

Remarks: Please return by 8/17/16

COPY TO: file

SIGNED:

Alex Chambers



Mechanical

Webster University ISB Webster Groves, MO

Submittal #:

235000-2.9

Submittal Description:

In-Line Centrifugal Fan

Return By:

8/17/16

Please Note: To avoid scheduling delays and equipment release delays, please submit by the "Return By" date.

CHECKED BY:			
DESIGNER: ZL		ENGINEER: MD	
☒	NO EXCEPTION TAKEN	☐	MAKE CORRECTIONS NOTED
☐	SUBMIT SPECIFIED ITEM	☐	REVISE AND RESUBMIT
☐	REJECTED	☐	
Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Equipment supplier is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and satisfactory performance of his work.			
		Job #:	5768
		Date:	8/3/16
		By:	ARC

SUBMITTAL

Job Title: **Webster Univ - ISB**

Job Site: Webster University
1100 clark ave
Saint Louis , MO 63102
United States

Contractor: **ICON MECHANICAL**

Elevation: (ft) 709

Date: 06/21/16

Submitted By: Mark Haas

H C SHARP COMPANY INC
8301D CREST INDUSTRIAL DR
SAINT LOUIS , MO 63123-2509
US

Phone: (314)351-6900

Fax: (314)351-6901

Email Address: karen@hcsharpco.com



P.O. Box 410 Schofield, WI 54476 (715) 359-6171 FAX (715) 355-2399 www.greenheck.com