PETERSHAM HISTORIC DISTRICT COMMISSION

3 South Main Street • P. O. Box 486 • Petersham, MA 01366-0486
978/724-3353 tel. • 978/724-3501 fax

CERTIFICATE OF APPROPRIATENESS

Dated: February 12, 2014

Owner: Cynthia Henshaw, Ari Pugliese
Address: The Petersham Country Store
2-4 North Main Street, Petersham, MA 01366
Telephone: 413-477-8229 e-mail:

For property located at: 2-4 North Main Street, Petersham, MA
Petersham parcel number: 38
☒ Building or Structure ☐ Sign or Billboard ☐ Other:
As described in the Application for a Certificate of Appropriateness dated: January 16, 2014 with additional materials delivered and accepted on February 6, 2014

Having considered your Application for a Certificate of Appropriateness the Petersham Historic District Commission held a public hearing on **February 6, 2014** and, after careful consideration of all submitted information and plans and the impact on the historic value and significance of the site, building, or structure, and the general design, arrangement, texture, material, and color of the features involved and the relation of such factors to similar factors in the immediate surroundings, the Commission, Pursuant to Chapter 211 of the Acts of 1966, Massachusetts General Laws Chapter 40C, and Article XII of the By-laws of the Town of Petersham, the Petersham Historic Commission hereby:

☐ **Issues** this Certificate of Non-Applicability (no external architectural features subject to approval).

☒ **Issues** this Certificate of Appropriateness subject to the conditions below.

The Commission requires the following conditions:

1. The work shall conform to the plans and conditions referenced in this Certificate.
2. Any change to the proposed work shall require the applicant to inquire of the Petersham Historic District Commission in writing whether the change is significant enough to require the filing of a new Application for a Certificate of Appropriateness.

☐ **Denies** a Certificate of Appropriateness for the following reasons:

Upon review and discussion at a Public Hearing held on February 6, 2014, architectural modifications have been approved for 2 North Main Street, the Petersham Country Store building.
Specifically approved for installation:

- Exhaust Fan – Fantech Model # 5DDU12 CA
- The Exhaust Fan shall be painted white.
- At the location on the south wall between two windows as detailed in the presentation materials.

(Continued)

CERTIFICATE OF APPROPRIATENESS

(Continued)

RECOMMENDATIONS AND COMMENTS:

Note: The Commission approved the project after review and discussion during a posted Public Hearing:

- Exterior installation of Fantech Model # 5DDU12 CA
  19 5/8 inches tall X 26 inches wide X 26 inches depth (from the building wall)

Product Specifications Sheet attached to this Certificate.

Any changes to or deviation from the specifications as presented and discussed in anyway shall be brought back before the Commission.

Thank you.

Chair Signature

February 24, 2014

Date

Centrifugal Ventilators

Direct-Drive Upblast Centrifugal Roof & Wall Ventilators

Direct-drive upblast ventilators are designed for continuous operation to exhaust foul air, smoke, fumes, odors and grease-laden vapors from range hoods and commercial cooking appliances. Ventilators are designed for installation in industrial, institutional and commercial kitchen applications.

Agency Listings

- All ventilators are UL Standard 705 listed
- All ventilators are UL Standard 762 (Subject YZHW) listed (except 5DDU08)
- Complies with NFPA 96 application requirements (except 5DDU08)
- Ventilators are CSA listed according to Standard C22.2 No. 113-M1984 (Fans & Ventilators)

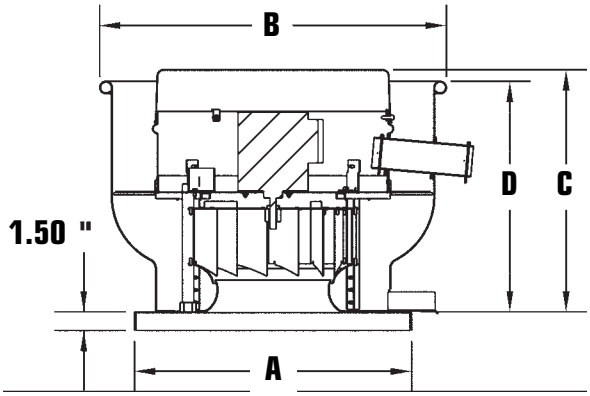
Features and Specifications

- Upblast discharge design
- Ventilators can be mounted on the roof or wall
- Spun aluminum construction with steel support braces
- Weather resistant aluminum windband, motor enclosure, and cover
- Backward inclined aluminum fan wheel
- Pre-wired Class B insulated ball bearing, 115V or 115/230V, 60 Hz motor
- Externally cooled motor compartment
- Inlet temperatures up to 300°F (except 5DDU08)
- Motor and wheel are easily detachable without removing ventilator from curb
- Junction box mounted in motor compartment
- A continuous venturi to windband weld virtually eliminates grease leakage
- Fully rolled windband bead for added strength, stability and ease of transport
- Welded curb cap corners eliminate water entry into ducts or building

Accessories (available separately)

- For more information, see Power Roof Ventilator Accessories
- NEMA 1, NEMA 3R and NEMA 4 disconnect switches.
- Fixed ventilated mounting curbs.
- Grease collector box.
- Hinge kit.
- Bird screen to protect discharge and ensure safe, obstruction-free operation.
- Speed controls (for UL 705 applications).
  WARNING: Do not use a speed control in any kitchen exhaust application.
- Backdraft dampers.
  WARNING: Do not use a damper in any kitchen exhaust application.





Fantech, Inc. and Systemair Mfg. Inc. certify that the Direct-Drive Upblast Centrifugal Roof & Wall Ventilators 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 AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Model No.	Wheel Diameter (In.)	Wheel Bore Size (In.)	Dimensions (In.) A	B	C	D	Gauge Thickness (In.) Windband	Venturi	Motor Enclosure	Hood	Total Ship Wt. (lbs.)	RecommendedRoof Opening (In.)	Optional Accessories: Roof Mount Backdraft Damper Model No.	Vented Roof Curb Model No.	Speed Control (115V Only) Model No.
5DDU085AW	8	5/16	19	20-1/2	12-1/8	10	0.063	0.05	N/A	0.04	30	14-1/2 x 14-1/2	5ACC12RD	5ACC17VC	5ACC03SC
5DDU085AY	8	5/16	19	20-1/2	12-1/8	10	0.063	0.05	N/A	0.04	30	14-1/2 x 14-1/2	5ACC12RD	5ACC17VC	5ACC03SC
5DDU106A	10-1/2	1/2	19	23-7/8	18-7/8	16-7/8	0.063	0.05	0.04	0.05	40	14-1/2 x 14-1/2	5ACC12RD	5ACC17VC	5ACC03SC
5DDU10AA	10-1/2	1/2	19	23-7/8	18-7/8	16-7/8	0.063	0.05	0.04	0.05	40	14-1/2 x 14-1/2	5ACC12RD	5ACC17VC	5ACC03SC
5DDU128A	12-1/4	1/2	22	26-1/6	19-5/8	17-3/4	0.063	0.063	0.04	0.05	45	17-1/2 x 17-1/2	5ACC15RD	5ACC20VC	5ACC03SC
5DDU12CA	12-1/4	1/2	22	26-1/6	19-5/8	17-3/4	0.063	0.063	0.04	0.05	45	17-1/2 x 17-1/2	5ACC15RD	5ACC20VC	5ACC06SC
5DDU138A	13-1/2	5/8	22	27-7/8	20-3/4	18-1/2	0.063	0.063	0.04	0.04	54	17-1/2 x 17-1/2	5ACC15RD	5ACC20VC	5ACC03SC
5DDU13DB	13-1/2	5/8	22	27-7/8	20-3/4	18-1/2	0.063	0.063	0.04	0.04	54	17-1/2 x 17-1/2	5ACC15RD	5ACC20VC	5ACC10SC
5DDU15AA	15	5/8	26	29-7/8	22	19-3/8	0.063	0.08	0.04	0.05	62	21-1/2 x 21-1/2	5ACC19RD	5ACC24VC	5ACC03SC
5DDU15CA	15	5/8	26	29-7/8	22	19-3/8	0.063	0.08	0.04	0.05	62	21-1/2 x 21-1/2	5ACC19RD	5ACC24VC	5ACC06SC
5DDU16BA	16-1/2	5/8	26	31-3/4	22-3/4	20-1/6	0.063	0.063	0.04	0.05	72	21-1/2 x 21-1/2	5ACC19RD	5ACC24VC	5ACC06SC
5DDU16DB	16-1/2	5/8	26	31-3/4	22-3/4	20-1/6	0.063	0.063	0.04	0.05	72	21-1/2 x 21-1/2	5ACC19RD	5ACC24VC	5ACC10SC
5DDU18CA	18-1/4	5/8	30	34	24	21-1/8	0.063	0.08	0.04	0.04	92	25-1/2 x 25-1/2	5ACC23RD	5ACC28VC	5ACC06SC
5DDU18EB	18-1/4	5/8	30	34	24	21-1/8	0.063	0.08	0.04	0.04	92	25-1/2 x 25-1/2	5ACC23RD	5ACC28VC	5ACC10SC

Centrifugal Ventilators

Direct-Drive Upblast Centrifugal Roof & Wall Ventilators

Model No.	HP	RPM	TS (FPM)		.000" SP		.125" SP		.250" SP		.375" SP		.500" SP		.625" SP		.750" SP		.875" SP		1.000" SP		1.25" SP	
				Volts	CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
				FLA	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP
5DDU085AW	1/25	1660	3477	115	310		253		187		82													
				1.5 1.5	8.0	—	7.7	—	7.4	—	6.8	—												
5DDU085AY	1/25	1642	3439	115	416		349		267		169													
				1.0 2.3	8.0	—	7.1	—	6.5	—	6.8	—												
5DDU106A	1/20	1100	3023	115	685		548		388		116													
				1.7 4.0	5.1	—	4.5	—	3.9	—	4.1	—												
5DDU10AA	1/6	1725	4741	115	1048		979		911		836		749		650		522							
				1.8	12.6	—	12.3	—	11.6	—	11.3	—	10.6	—	10.8	—	10.5	—						
5DDU128A	1/12	880	2822	115	856		712		601															
				6.2/3.1	6.3	0.01	5.8	0.01	5.2	0.01														
5DDU12CA	1/3	1557	4993	115	1531		1469		1406		1340		1272		1193		1107		1007		897			
				2.4 4.4	13.8	0.27	13.5	0.29	13.3	0.31	12.9	0.32	12.6	0.33	12.3	0.34	12.0	0.35	11.6	0.35	11.3	0.33		
5DDU138A	1/12	870	3004	115	1221		1110		943		717													
				3.6	8.4	0.08	8.1	0.08	8.2	0.08	7.3	0.08												
5DDU13DB	1/2	1690	5832	115/230	2419		2352		2285		2218		2145		2072		1992		1910		1829		1631	
				6.2/3.1	20	0.54	20	0.55	19.5	0.56	19.0	0.58	18.6	0.59	18.2	0.60	17.9	0.62	17.4	0.62	17.4	0.63	15.6	0.63
5DDU15AA	1/6	867	3405	115	1668		1526		1370		1168		855											
				4.4	8.7	0.13	7.7	0.14	7.0	0.14	6.2	0.14	5.6	0.13										
5DDU15CA	1/3	1144	4492	115	2174		2070		1963		1849		1714		1568		1375		1100					
				8.4/4.2	13.5	0.27	13.0	0.28	12.5	0.30	12.0	0.31	11.4	0.32	10.8	0.32	10.0	0.30	9.0	0.29				
5DDU16BA	1/4	870	3758	115	2264		2112		1954		1778		1558		1150									
				3.6	10.4	0.21	9.7	0.23	9.1	0.25	8.5	0.26	8.2	0.26	7.0	0.23								
5DDU16DB	1/2	1145	4946	115/230	2859		2739		2619		2494		2369		2219		2063		1847		1502			
				6.2/3.1	15.6	0.41	15.0	0.43	14.5	0.45	13.7	0.47	13.2	0.48	12.6	0.49	12.2	0.49	11.6	0.49	11.0	0.46		
5DDU18CA	1/3	858	4099	115	3051		2877		2688		2476		2246		1981		908							
				4.4	12.6	0.33	11.3	0.34	10.5	0.36	10.2	0.37	9.2	0.38	8.7	0.37	8.2	0.08						
5DDU18EB	3/4	1111	5308	115/230	3899		3787		3644		3495		3337		3181		3011		2836		2616		2031	
				8.4/4.2	21	0.73	21	0.75	20	0.78	19.8	0.80	18.9	0.81	18.0	0.83	17.3	0.84	17.3	0.86	16.9	0.85	16.2	0.80

Performance certified is for installation type A: free inlet, free outlet. Performance rating includes the effects of bird screen. Speed (RPM) shown is nominal, and performance is based on actual speed of test.

† The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA standard 301. Values shown are for installation type A, free inlet hemispherical sone levels.

Typical Specifications:

Direct-Drive Upblast Roof & Wall Mount

Roof & wall mount exhaust fans shall be centrifugal upblast direct-drive type. The fan wheel shall be centrifugal backward inclined, blades and wheel cone to be constructed of aluminum and shall include a wheel cone matched to the inlet cone for precise running tolerances. Wheels shall be statically and dynamically balanced. The fan housing shall be constructed of heavy gauge aluminum with a rigid steel internal support structure. Windbands shall have a rolled bead for added strength and shall be joined to curb caps with a leak resistant, continuously welded seam. Motors shall be mounted out of the airstream. Fresh air for motor cooling shall be drawn into the motor compartment from an area free of discharge contaminants. Motors shall be readily accessible for maintenance. A junction box shall be factory installed to permit a disconnect switch to be wired to the fan motor within the motor compartment. A conduit chase shall be provided through the curb cap to the motor compartment for ease of electrical wiring. The drive assembly and wheel shall be removable from the support structure without disassembling the external fan housing. All fans shall bear the AMCA Certified Ratings Seal for sound and air performance. Each fan shall bear a permanently affixed manufacturer's nameplate containing model number and carry a one-year warranty. Fans shall be Fantech Model Direct-Drive Upblast Centrifugal Roof & Wall Ventilators as manufactured by Systemair Mfg. Inc., Lenexa, Kansas.

Direct Drive Centrifugal Wall Ventilators

Direct-Drive Sideblast Centrifugal Wall Ventilators

Direct-drive upblast ventilators are designed for continuous operation to exhaust foul air, smoke, fumes, odors and grease-laden vapors from range hoods and commercial cooking appliances. Ventilators are designed for installation in industrial, institutional and commercial kitchen applications.

Agency Listings

- All ventilators are UL Standard 705 listed
- All ventilators are UL Standard 762 (Subject YZHW) listed (except 5DDW08)
- Complies with NFPA 96 application requirements (except 5DDW08)
- Ventilators are CSA listed according to Standard C22.2 No. 113-M1984 (Fans & Ventilators)

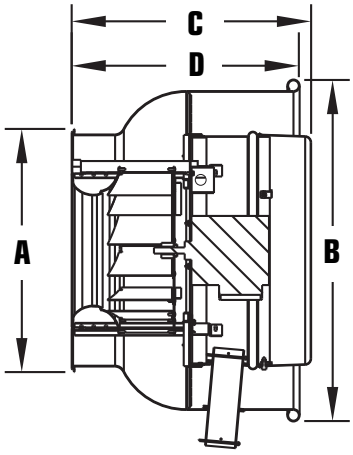
Features and Specifications

- Upblast discharge design
- Spun aluminum construction with steel support braces
- Weather resistant aluminum windband, motor enclosure, and cover
- Backward inclined aluminum fan wheel
- Pre-wired Class B insulated ball bearing, 115V or 115/230V, 60 Hz motor
- Externally cooled motor compartment
- Inlet temperatures up to 300°F (except 5DDW08)
- Easy mounting wall plate
- Detachable venturi plate
- Motor and wheel are easily detachable without removing ventilator from curb
- Junction box mounted in motor compartment
- A continuous venturi to windband weld virtually eliminates grease leakage
- Fully rolled windband bead for added strength, stability and ease of transport

Accessories (available separately)

- For more information, see Power Roof Ventilator Accessories
- NEMA 1, NEMA 3R and NEMA 4 disconnect switches.
- Bird screen to protect discharge and ensure safe, obstruction-free operation.
- Speed controls (for UL 705 applications). **WARNING: Do not use a speed control in any kitchen exhaust application.**
- Backdraft dampers. WARNING: Do not use a damper in any kitchen exhaust application.





Fantech, Inc. and Systemair Mfg. Inc. certify that the Direct-Drive Upblast Centrifugal Roof Ventilators 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 AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Model No.	Wheel Diameter (In.)	Wheel Bore Size (In.)	Dimensions (In.) A	B	C	D	Gauge Thickness (In.) Windband	Venturi	Motor Enclosure	Hood	Total Ship Wt. (lbs.)	Recommended Roof Opening (In.)	Optional Accessories: Wall Mount Backdraft Damper Model No.	Speed Control (115V Only) Model No.
5DDW085AW	8	5/16	14	20-1/2	12-1/8	10	0.063	0.05	NA	0.04	30	8-1/4x8-1/4	5ACC08WD	5ACC03SC
5DDW085AY	8	5/16	14	20-1/2	12-1/8	10	0.063	0.05	NA	0.04	30	8-1/4x8-1/4	5ACC08WD	5ACC03SC
5DDW106A	10-1/2	1/2	16-3/4	23-7/8	18-7/8	16-7/8	0.063	0.05	0.04	0.05	40	10-1/4x10-1/4	5ACC10WD	5ACC03SC
5DDW10AA	10-1/2	1/2	16-3/4	23-7/8	18-7/8	16-7/8	0.063	0.05	0.04	0.05	40	10-1/4x10-1/4	5ACC10WD	5ACC03SC
5DDW128A	12-1/4	1/2	18-1/2	26-1/6	19-5/8	17-3/4	0.063	0.063	0.04	0.05	45	11-1/4x11-1/4	5ACC11WD	5ACC03SC
5DDW12CA	12-1/4	1/2	18-1/2	26-1/6	19-5/8	17-3/4	0.063	0.063	0.04	0.05	45	11-1/4x11-1/4	5ACC11WD	5ACC06SC
5DDW138A	13-1/2	5/8	19-3/4	27-7/8	20-3/4	18-1/2	0.063	0.063	0.04	0.04	54	12-1/4x12-1/4	5ACC12WD	5ACC03SC
5DDW13DB	13-1/2	5/8	19-3/4	27-7/8	20-3/4	18-1/2	0.063	0.063	0.04	0.04	54	12-1/4x12-1/4	5ACC12WD	5ACC10SC
5DDW15AA	15	5/8	21-1/4	29-7/8	22	19-3/8	0.063	0.063	0.04	0.05	62	13-1/4x13-1/4	5ACC13WD	5ACC03SC
5DDW15CA	15	5/8	21-1/4	29-7/8	22	19-3/8	0.063	0.063	0.04	0.05	62	13-1/4x13-1/4	5ACC13WD	5ACC06SC
5DDW16BA	16-1/2	5/8	22-3/4	31-3/4	22-3/4	20-1/6	0.063	0.063	0.04	0.05	72	14-1/4x14-1/4	5ACC14WD	5ACC06SC
5DDW16DB	16-1/2	5/8	22-3/4	31-3/4	22-3/4	20-1/6	0.063	0.063	0.04	0.05	72	14-1/4x14-1/4	5ACC14WD	5ACC10SC
5DDW18CA	18-1/4	5/8	24-1/2	34	24	21-1/8	0.063	0.08	0.04	0.04	92	15-1/4x15-1/4	5ACC15WD	5ACC06SC
5DDW18EB	18-1/4	5/8	24-1/2	34	24	21-1/8	0.063	0.08	0.04	0.04	92	15-1/4x15-1/4	5ACC15WD	5ACC10SC

Centrifugal Ventilators

Direct-Drive Sideblast Centrifugal Wall Ventilators

Model No.	HP	RPM	TS (FPM)		.000" SP		.125" SP		.250" SP		.375" SP		.500" SP		.625" SP		.750" SP		.875" SP		1.000" SP		1.25" SP	
				Volts	CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
				FLA	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP	Sones†	BHP
5DDW085AW	1/25	1660	3477	115	310		253		187		82													
				1.5 1.5	8.0	—	7.7	—	7.4	—	6.8	—												
5DDW085AY	1/25	1642	3439	115	416		349		267		169													
				1.0 2.3	8.0	—	7.1	—	6.5	—	6.8	—												
5DDW106A	1/20	1100	3023	115	685		548		388		116													
				1.7 4.0	5.1	—	4.5	—	3.9	—	4.1	—												
5DDW10AA	1/6	1725	4741	115	1048		979		911		836		749		650		522							
				1.8	12.6	—	12.3	—	11.6	—	11.3	—	10.6	—	10.8	—	10.5	—						
5DDW128A	1/12	880	2822	115	856		712		601															
				6.2/3.1	6.3	0.03	5.8	0.04	5.2	0.04														
5DDW12CA	1/3	1557	4993	115	1531		1469		1406		1340		1272		1193		1107		1007		897			
				2.4 4.4	13.8	0.27	13.5	0.29	13.3	0.31	12.9	0.34	12.6	0.35	12.3	0.36	12.0	0.35	11.6	0.35	11.3	0.34		
5DDW138A	1/12	870	3004	115	1221		1110		943		717													
				3.6	8.4	0.08	8.1	0.08	8.2	0.08	7.3	0.08												
5DDW13DB	1/2	1690	5832	115/230	2419		2352		2285		2218		2145		2072		1992		1910		1829		1631	
				6.2/3.1	20	0.54	20	0.55	19.5	0.56	19.0	0.58	18.6	0.59	18.2	0.60	17.9	0.62	17.4	0.62	17.4	0.63	15.6	0.63
5DDW15AA	1/6	867	3405	115	1668		1526		1370		1168		855											
				4.4	8.7	0.13	7.7	0.14	7.0	0.14	6.2	0.14	5.6	0.13										
5DDW15CA	1/3	1144	4492	115	2174		2070		1963		1849		1714		1568		1375		1100					
				8.4/4.2	13.5	0.27	13.0	0.28	12.5	0.30	12.0	0.31	11.4	0.32	10.8	0.32	10.0	0.30	9.0	0.29				
5DDW16BA	1/4	870	3758	115	2264		2112		1954		1778		1558		1150									
				3.6	10.4	0.21	9.7	0.23	9.1	0.25	8.6	0.26	8.2	0.26	7.0	0.23								
5DDW16DB	1/2	1145	4946	115/230	2859		2739		2619		2494		2369		2219		2063		1847		1502			
				6.2/3.1	15.6	0.41	15.0	0.43	14.5	0.45	13.7	0.47	13.2	0.48	12.6	0.49	12.8	0.49	11.6	0.49	11.0	0.46		
5DDW18CA	1/3	858	4099	115	3051		2877		2688		2476		2246		1981		908							
				4.4	12.6	0.33	11.3	0.34	10.5	0.36	10.2	0.37	9.2	0.38	8.7	0.37	8.2	0.24						
5DDW18EB	3/4	1111	5308	115/230	3899		3787		3644		3495		3337		3181		3011		2836		2616		2031	
				8.4/4.2	21	0.73	21	0.75	20	0.78	19.8	0.80	18.9	0.81	18.0	0.83	17.3	0.84	17.3	0.86	16.9	0.85	16.2	0.80

Performance certified is for installation type A: free inlet, free outlet. Performance rating includes the effects of bird screen. Speed (RPM) shown is nominal, and performance is based on actual speed of test.

† The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA standard 301. Values shown are for installation type A, free inlet hemispherical sone levels.

Typical Specifications:

Direct-Drive Upblast Wall Mount

Wall mount exhaust fans shall be centrifugal upblast direct-drive type. The fan wheel shall be centrifugal backward inclined, blades and wheel cone to be constructed of aluminum and shall include a wheel cone matched to the inlet cone for precise running tolerances. Wheels shall be statically and dynamically balanced. The fan housing shall be constructed of heavy gauge aluminum with a rigid steel internal support structure. Windbands shall have a rolled bead for added strength. Motors shall be mounted out of the airstream. Fresh air for motor cooling shall be drawn into the motor compartment from an area free of discharge contaminants. Motors shall be readily accessible for maintenance. A junction box shall be factory installed to permit a disconnect switch to be wired to the fan motor within the motor compartment. A conduit chase shall be provided through the curb cap to the motor compartment for ease of electrical wiring. The drive assembly and wheel shall be removable from the support structure without disassembling the external fan housing. All fans shall bear the AMCA Certified Ratings Seal for sound and air performance. Each fan shall bear a permanently affixed manufacturer's nameplate containing model number and carry a one-year warranty. Fans shall be Fantech Model Direct-Drive Upblast Centrifugal Roof Ventilators as manufactured by Systemair Mfg. Inc., Lenexa, Kansas.

Centrifugal Ventilators

Direct-Drive Upblast Centrifugal Roof & Wall Ventilators – Octave Sound Data

The sound power ratings shown are in decibels, referred to 10^{-12} Watts calculated per AMCA Standard 301. Values shown are for inlet Lw_i A sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. For models shown on this page, the AMCA Certified Ratings Seal applies to air performance and sones only.

Model 5DDU085AW/5DDW085AW; Wheel Dia. 8" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/25	1660	0	63	70	76	63	55	51	49	43	68
		0.13	69	70	75	62	54	51	48	42	67
		0.25	68	70	74	61	53	50	47	41	67

Model 5DDU085AY/5DDW085AY; Wheel Dia. 8" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/25	1642	0	61	68	74	63	63	54	52	43	68
		0.13	60	68	73	61	57	52	49	42	66
		0.25	61	67	72	60	55	49	46	39	65

Model 5DDU106A/5DDW106A; Wheel Dia. 10-1/2" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/12	1100	0	61	68	69	57	61	53	46	36	65
		0.13	64	67	68	54	52	49	44	35	62
		0.25	65	67	66	52	49	46	42	34	59
		0.38	72	68	66	51	49	45	41	34	60

Model 5DDU10AA/5DDW10AA; Wheel Dia. 10-1/2" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/6	1725	0	67	74	79	72	67	69	64	55	76
		0.5	70	75	77	71	64	62	59	53	73

Model 5DDU128A/5DDW128A; Wheel Dia. 12-1/4" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/12	880	0	59	70	68	62	59	57	46	38	65
		0.25	57	66	64	63	55	47	40	38	62

Model 5DDU12CA/5DDW12CA; Wheel Dia. 12-1/4" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/3	1557	0	69	76	81	75	67	65	65	57	77
		0.5	68	76	80	73	67	66	62	54	75
		1	65	74	78	71	67	65	58	53	74

Model 5DDU138A/5DDW138A; Wheel Dia. 13-1/2" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/12	870	0	62	72	70	69	66	58	49	46	70
		0.25	68	72	70	70	59	53	48	49	69

Model 5DDU13DB/5DDW13DB; Wheel Dia. 13-1/2" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/2	1690	0	71	81	88	82	72	76	73	64	84
		0.5	70	80	86	80	71	74	69	61	82
		1	68	80	85	79	70	71	66	59	80

Model 5DDU15AA/5DDW15AA; Wheel Dia. 15" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/6	867	0	63	76	72	66	62	64	51	43	70
		0.25	62	74	69	64	59	55	47	41	66
		0.5	62	71	66	60	52	49	44	41	62

Model 5DDU15CA/5DDW15CA; Wheel Dia. 15" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/3	1144	0	67	75	82	74	67	69	63	53	77
		0.5	65	74	80	71	66	65	56	48	74

Model 5DDU16BA/5DDW16BA; Wheel Dia. 16-1/2" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/4	870	0	66	76	75	69	62	62	57	56	71
		0.25	65	74	73	67	61	60	54	55	69
		0.5	66	73	71	65	61	56	51	53	68

Model 5DDU16DB/5DDW16DB; Wheel Dia. 16-1/2" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/2	1145	0	70	78	84	78	68	67	64	59	79
		0.5	67	76	80	78	65	66	61	54	77
		1	67	73	77	74	65	62	58	51	74

Model 5DDU18CA/5DDW18CA; Wheel Dia. 18-1/4" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
1/3	858	0	68	81	77	72	66	70	58	52	75
		0.25	68	78	75	70	68	64	55	49	73
		0.5	67	76	73	68	67	59	53	47	71

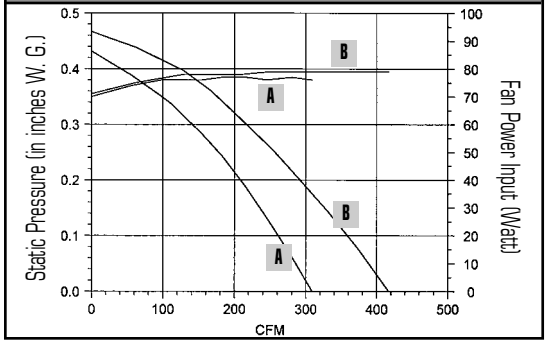
Model 5DDU18EB/5DDW18EB; Wheel Dia. 18-1/4" Sound Data

HP	RPM	SP	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwiA
3/4	1111	0	72	81	92	79	71	69	66	61	84
		0.5	70	81	90	78	69	71	63	58	82
		1	69	79	88	75	69	68	60	55	81

Centrifugal Ventilators

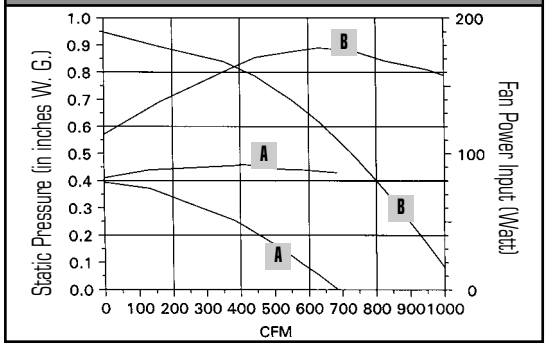
Direct-Drive Upblast Centrifugal Roof & Wall Ventilators – Performance Curves

8" – Models 5DDU08 and 5DDW08



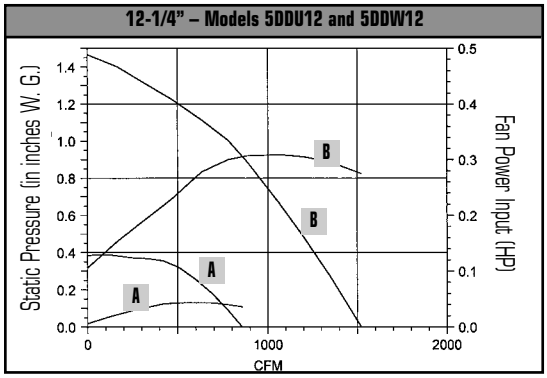
A = 5DDU085AW, 5DDW085AW, 1660 RPM
B = 5DDU085AY, 5DDW085AY, 1642 RPM

10-1/2" – Models 5DDU10 and 5DDW10



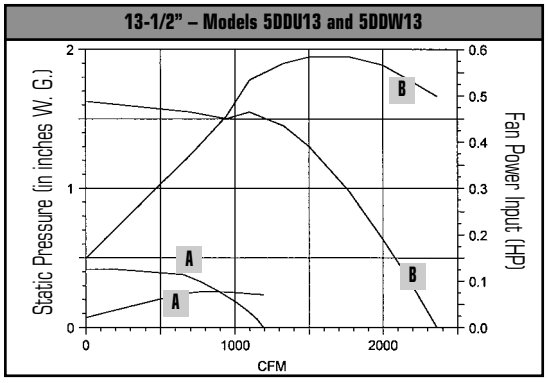
A = 5DDU106A, 5DDW106A, 1100 RPM
B = 5DDU10AA, 5DDW10AA, 1725 RPM

12-1/4" – Models 5DDU12 and 5DDW12



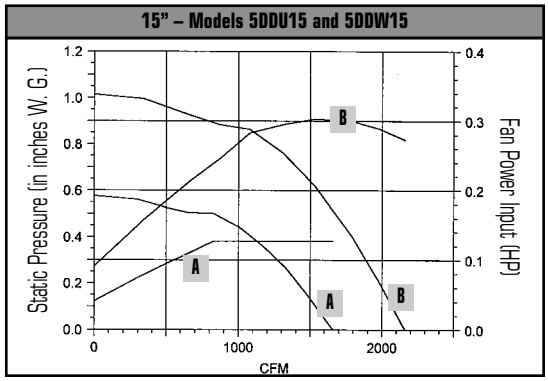
A = 5DDU128A, 5DDW128A, 880 RPM
B = 5DDU12CA, 5DDW12CA, 1557 RPM

13-1/2" – Models 5DDU13 and 5DDW13



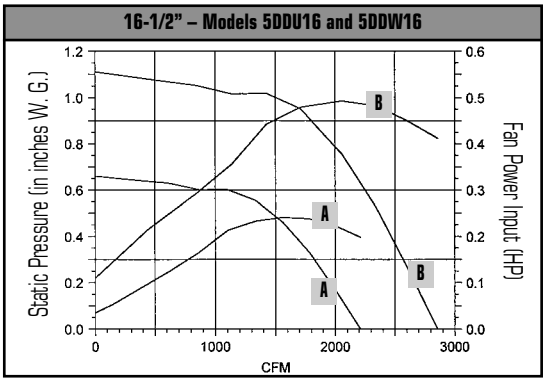
A = 5DDU138A, 5DDW138A, 870 RPM
B = 5DDU13DB, 5DDW13DB, 1690 RPM

15" – Models 5DDU15 and 5DDW15



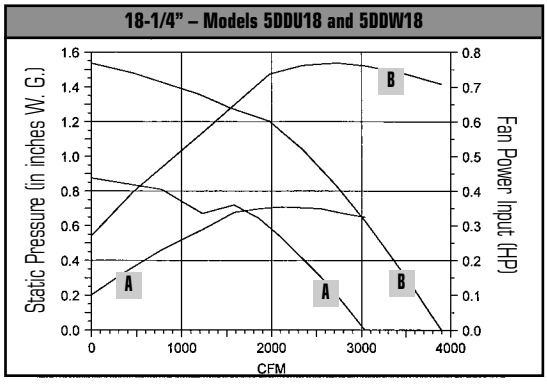
A = 5DDU15AA, 5DDW15AA, 867 RPM
B = 5DDU15CA, 5DDW15CA, 1144 RPM

16-1/2" – Models 5DDU16 and 5DDW16



A = 5DDU16BA, 5DDW16BA, 870 RPM
B = 5DDU16DB, 5DDW16DB, 1145 RPM

18-1/4" – Models 5DDU18 and 5DDW18



A = 5DDU18CA, 5DDW18CA, 858 RPM
B = 5DDU18EB, 5DDW18EB, 1111 RPM

Performance certified is for installation type A: free inlet, free outlet. Performance rating includes the effects of bird screen.