

Ventilation Guide

DAY IN. DAY OUT.™

Dayton®

**Centrifugal Upblast
Exhaust Ventilators**

**Belt & Direct Drive
Accessories**

Available exclusively at

GRAINGER®
FOR THE ONES WHO GET IT DONE

Centrifugal Upblast Exhaust Ventilators

Construction Features

The Centrifugal Upblast and Sidewall Exhaust Ventilators are designed to direct contaminated air, in both industrial and commercial applications, directly away from the roof or wall surface. Most sizes are listed UL-762 for commercial kitchen applications. Both belt and direct drive ventilators are in stock, in a location near you.

1 LEAKPROOF CONSTRUCTION is achieved through welding the windband, curb cap, and drain trough on all centrifugal upblast exhaust ventilators.

2 CURB CAP with an integral spun venturi is constructed of a single piece of aluminum to prevent corrosion and provide weather tight fit. Prepunched mounting holes on the curb cap ensure proper attachment to the roof.

3 DRAIN TROUGH provides drainage of water, grease, and other residues that enter the fan.

4 WHEEL is an aluminum backward inclined non-overloading centrifugal wheel balanced both statically and dynamically. The wheel cone is matched to the venturi to provide higher efficiencies and minimal sound.

5 VIBRATION ISOLATION is achieved by using neoprene isolators (no steel-to-steel contact) when securing the drive assembly to the mounting plate. This will extend the life of the fan and minimize noise and vibration transmission.

6 JUNCTION BOX is factory mounted on all ventilator sizes. NEMA-1 disconnect switches are available separately.

7 BEARINGS are air-handling pillowblocks selected for a minimum L10 life of 100,000 hours (L50 of 500,000).

8 FAN SHAFT is sized, ground, and polished to put the first critical speed at least 25% above the maximum operating speed. Close tolerances between the shaft and bearings provide longer bearing life.

9 DRIVE ASSEMBLY has static-free, heat-resistant, and oil-resistant belts. Pulleys are machined, cast, and adjustable for final balancing. Belts, pulleys, and keys are oversized to 150% of the driven horsepower.

10 MOTOR COVER is made with drawn aluminum construction and stainless steel hardware to allow easy access and weather protection to the motor compartment.

11 WINDBAND is a single piece of heavy gauge aluminum used to direct contaminated air away from the building. A rolled bead around the outside edge provides additional strength.

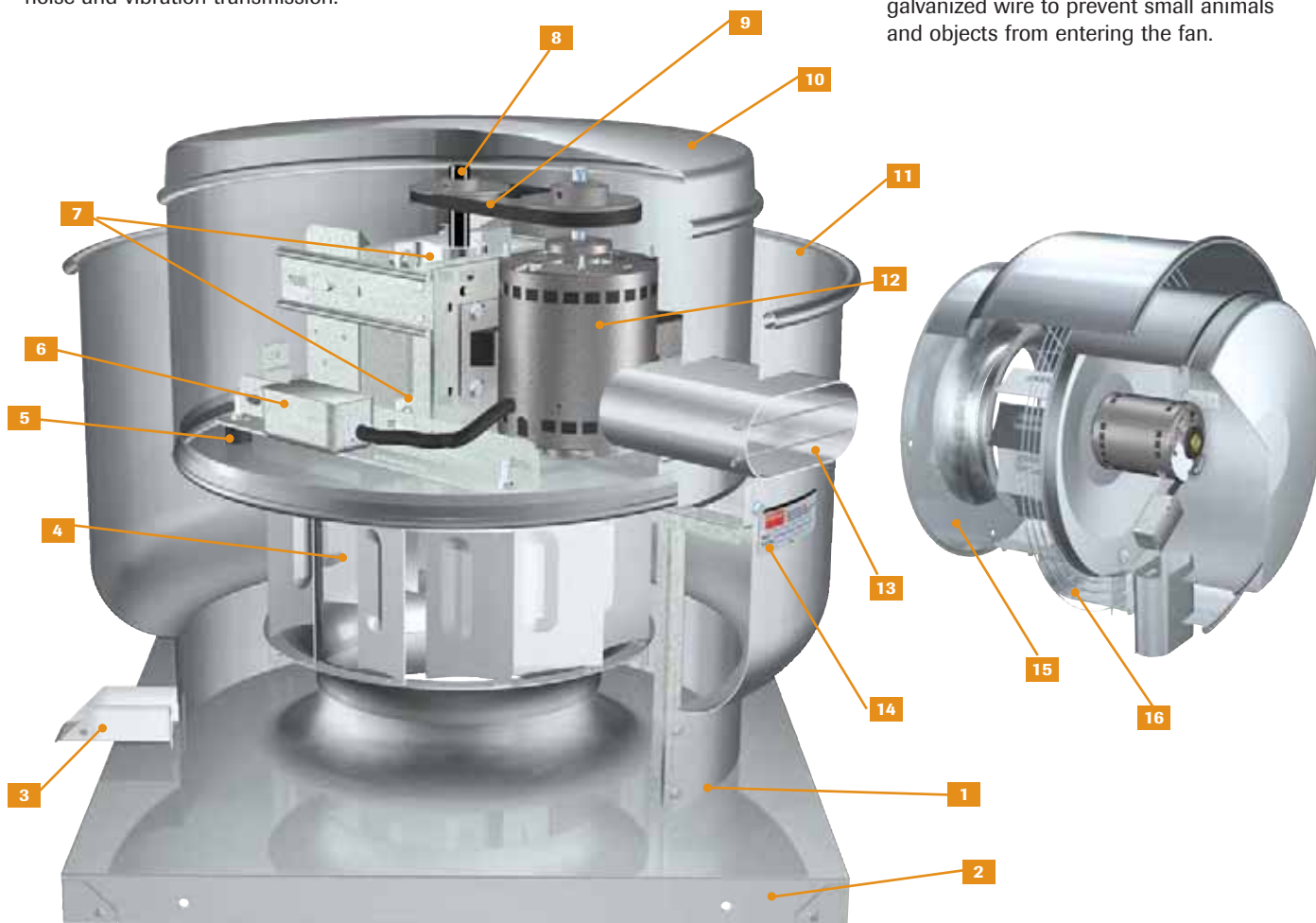
12 MOTOR is mounted inside the motor compartment out of the exhaust air stream.

13 MOTOR COOLING is achieved by circulating fins on top of the fan wheel that move fresh air throughout the motor compartment drawn through a large external breather tube. This positive cooling maximizes motor life.

14 NAME PLATE contains the stock number and serial number stamped into an aluminum plate which is permanently attached to the fan for future identification.

15 MOUNTING PLATE is the base of a sidewall unit that can be mounted and sealed before attaching the entire unit to provide an easier installation.

16 BIRDSCREEN is constructed of rigid galvanized wire to prevent small animals and objects from entering the fan.



Centrifugal Upblast Exhaust Ventilators

Dimensions and Specifications

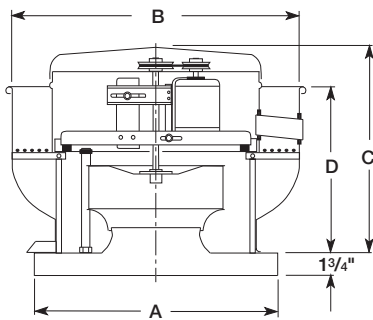


Figure 1

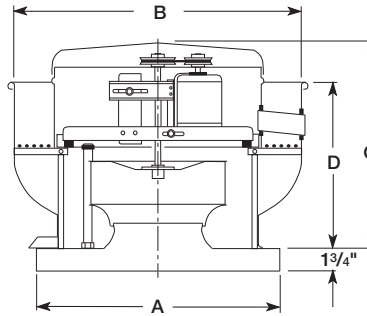


Figure 2

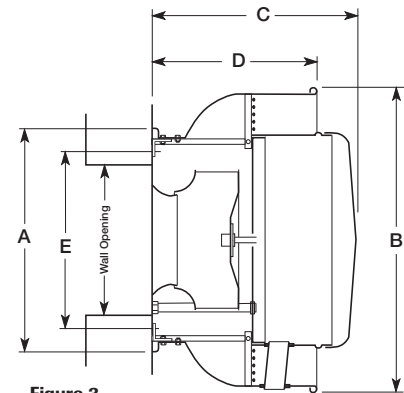


Figure 3

Belt Drive Roof (See Figure 1)

Stock Number	Wheel Dia.	Shaft Dia.	A	B	C	D	Recommended Roof Opening	Recommended Damper Size
4YY13	11"	3/4"	19"	24 $\frac{1}{2}$ "	23 $\frac{1}{2}$ "	17 $\frac{1}{2}$ "	14 $\frac{1}{2}$ " x 14 $\frac{1}{2}$ "	12" x 12"
4YY14	11 $\frac{1}{4}$ "	3/4"	22"	24 $\frac{1}{2}$ "	23"	17"	17 $\frac{1}{2}$ " x 17 $\frac{1}{2}$ "	15 x 15
4YY15	13 $\frac{1}{4}$ "	3/4"	22"	24 $\frac{1}{2}$ "	23"	17"	17 $\frac{1}{2}$ " x 17 $\frac{1}{2}$ "	15 x 15
4YY16, 5PV06	14 $\frac{1}{4}$ "	3/4"	26"	28 $\frac{1}{2}$ "	24 $\frac{1}{2}$ "	19"	21 $\frac{1}{2}$ " x 21 $\frac{1}{2}$ "	19 x 19
4YY17	16 $\frac{1}{2}$ "	3/4"	26"	28 $\frac{1}{2}$ "	24 $\frac{1}{2}$ "	19"	21 $\frac{1}{2}$ " x 21 $\frac{1}{2}$ "	19 x 19
4YY18, 5PV07	18 $\frac{1}{2}$ "	3/4"	30"	35 $\frac{1}{2}$ "	33 $\frac{1}{2}$ "	21"	25 $\frac{1}{2}$ " x 25 $\frac{1}{2}$ "	23 x 23
4YY19, 5PV08	21 $\frac{1}{4}$ "	3/4"	30"	35 $\frac{1}{2}$ "	33 $\frac{1}{2}$ "	21"	25 $\frac{1}{2}$ " x 25 $\frac{1}{2}$ "	23 x 23
4YY20, 3GY73	24 $\frac{1}{2}$ "	1"	34"	42 $\frac{1}{2}$ "	38 $\frac{1}{2}$ "	25 $\frac{1}{2}$ "	29 $\frac{1}{2}$ " x 29 $\frac{1}{2}$ "	27 x 27
4YY21, 3GY74	30 $\frac{1}{2}$ "	1"	42"	50"	36"	29 $\frac{1}{2}$ "	37 $\frac{1}{2}$ " x 37 $\frac{1}{2}$ "	35 x 35
4YY22	36"	1 $\frac{1}{4}$ "	46"	58 $\frac{1}{2}$ "	39 $\frac{1}{2}$ "	29 $\frac{1}{2}$ "	41 $\frac{1}{2}$ " x 41 $\frac{1}{2}$ "	39 x 39

Direct Drive Roof (See Figure 2)

Stock Number	Wheel Dia.	Shaft Dia.	A	B	C	D	Recommended Roof Opening	Recommended Damper Size
4HZ32, 4HZ33	8 $\frac{1}{2}$ "	5/16"	19"	18 $\frac{1}{2}$ "	13 $\frac{1}{2}$ "	11 $\frac{1}{2}$ "	14 $\frac{1}{2}$ " x 14 $\frac{1}{2}$ "	12" x 12"
4HZ36, 4HZ37	11"	1/2"	19"	24 $\frac{1}{2}$ "	23"	17"	14 $\frac{1}{2}$ " x 14 $\frac{1}{2}$ "	12 x 12
4HZ40, 4HZ41	11"	1/2"	22"	24 $\frac{1}{2}$ "	23"	17"	17 $\frac{1}{2}$ " x 17 $\frac{1}{2}$ "	15 x 15
4HZ44, 4HZ45	13 $\frac{1}{4}$ "	1/2"	22"	24 $\frac{1}{2}$ "	23"	17"	17 $\frac{1}{2}$ " x 17 $\frac{1}{2}$ "	15 x 15
4HZ48, 4HZ49	14 $\frac{1}{4}$ "	1/2"	26"	28 $\frac{1}{2}$ "	24 $\frac{1}{2}$ "	19"	21 $\frac{1}{2}$ " x 21 $\frac{1}{2}$ "	19 x 19
4HZ52, 4HZ53	16 $\frac{1}{2}$ "	5/8"	26"	28 $\frac{1}{2}$ "	24 $\frac{1}{2}$ "	19"	21 $\frac{1}{2}$ " x 21 $\frac{1}{2}$ "	19 x 19
4HZ56, 4HZ57	18 $\frac{1}{2}$ "	5/8"	30"	35 $\frac{1}{2}$ "	28 $\frac{1}{2}$ "	21"	25 $\frac{1}{2}$ " x 25 $\frac{1}{2}$ "	23 x 23

Direct Drive Wall (See Figure 3)

Stock Number	Wheel Dia.	Shaft Dia.	A	B	C	D	E	Recommended Wall Opening	Recommended Damper Size
4HZ34, 4HZ35	8 $\frac{1}{2}$ "	5/16"	14 $\frac{1}{2}$ "	18 $\frac{1}{2}$ "	13 $\frac{1}{2}$ "	11 $\frac{1}{2}$ "	11 $\frac{1}{2}$ "	8 $\frac{1}{2}$ " x 8 $\frac{1}{2}$ "	8" x 8"
4HZ38, 4HZ39	11"	1/2"	19"	24 $\frac{1}{2}$ "	23"	17"	16"	10 $\frac{1}{2}$ " x 10 $\frac{1}{2}$ "	10 x 10
4HZ42, 4HZ43	11"	1/2"	19"	24 $\frac{1}{2}$ "	23"	17"	16"	11 $\frac{1}{2}$ " x 11 $\frac{1}{2}$ "	11 x 11
4HZ46, 4HZ47	13 $\frac{1}{4}$ "	1/2"	19"	24 $\frac{1}{2}$ "	23"	17"	16"	12 $\frac{1}{2}$ " x 12 $\frac{1}{2}$ "	12 x 12
4HZ50, 4HZ51	14 $\frac{1}{4}$ "	1/2"	22"	28 $\frac{1}{2}$ "	24 $\frac{1}{2}$ "	19"	19"	13 $\frac{1}{2}$ " x 13 $\frac{1}{2}$ "	13 x 13
4HZ54, 4HZ55	16 $\frac{1}{2}$ "	5/8"	22"	28 $\frac{1}{2}$ "	24 $\frac{1}{2}$ "	19"	19"	14 $\frac{1}{2}$ " x 14 $\frac{1}{2}$ "	14 x 14
4HZ58, 4HZ59	18 $\frac{1}{2}$ "	5/8"	27"	35 $\frac{1}{2}$ "	28 $\frac{1}{2}$ "	21"	25"	15 $\frac{1}{2}$ " x 15 $\frac{1}{2}$ "	15 x 15

All dimensions are in inches.

Centrifugal Belt Drive Upblast Exhaust Ventilators

Performance Table

Wheel Dia. (In)	Fan RPM	HP	Max BHP	Sones @ .250 SP	CFM Air Delivery @ Static Pressure Shown										'Assembled		'Unassembled		*Stock Number
					.000" SP	.250" SP	.375" SP	.500" SP	.750" SP	1.00" SP	1.25" SP	1.50" SP	1.75" SP	Single Phase 115/230V	3-Phase 208-220/440V	Single Phase 115/230V	3-Phase 208-220/440V		
					11"	1140	1/6	0.06	8.3	780	502	294	-	-	-	-	-	-	
	1725	1/4	0.20	13.0	1180	1017	929	824	586	-	-	-	-	-	-	7A588	-	4YY13	
11%	1660	1/4	0.26	12.0	1413	1313	1251	1189	1056	861	-	-	-	-	-	7A593	-	4YY14	
	1820	1/3	0.35	13.4	1549	1459	1406	1350	1234	1106	900	-	-	-	-	7A594	-	4YY14	
13%	1305	1/4	0.26	13.9	1790	1629	1547	1458	1201	-	-	-	-	-	-	7A615	-	4YY15	
	1435	1/3	0.35	15.1	1968	1822	1749	1671	1479	1198	-	-	-	-	-	7A616	-	4YY15	
	1645	1/2	0.52	17.4	2256	2128	2065	2001	1864	1684	1455	-	-	-	-	7A617	7A690	4YY15	
14%	1105	1/4	0.26	10.6	2001	1793	1667	1515	998	-	-	-	-	-	-	7A618	-	4YY16	
	1210	1/3	0.34	11.7	2192	2006	1896	1773	1443	-	-	-	-	-	-	7A619	-	4YY16	
	1390	1/2	0.52	14.2	2518	2362	2271	2174	1949	1643	-	-	-	-	-	7A620	7A691	4YY16	
	1595	3/4	0.79	18.5	2889	2757	2683	2602	2430	2225	1968	1568	-	5PV06	-	7A621	7A692	4YY16	
	1725	1	1.00	22	3125	3005	2936	2865	2711	2539	2339	2085	1704	-	-	7A622	7A693	4YY16	
16%	965	1/3	0.35	11.5	2774	2477	2300	2109	1584	-	-	-	-	-	-	7A623	-	4YY17	
	1110	1/2	0.54	14.2	3191	2941	2796	2641	2297	1770	-	-	-	-	-	7A624	7A694	4YY17	
	1265	3/4	0.79	17.7	3636	3426	3301	3172	2894	2583	2163	-	-	-	-	7A625	7A695	4YY17	
	1390	1	1.05	21	3996	3806	3698	3584	3340	3078	2785	2394	-	-	-	7A626	7A696	4YY17	
18%	820	1/3	0.34	10.0	3098	2759	2525	2257	-	-	-	-	-	-	-	7A627	-	4YY18	
	940	1/2	0.52	13.1	3551	3243	3115	2879	2363	-	-	-	-	-	-	7A628	7A697	4YY18	
	1075	3/4	0.78	15.8	4061	3786	3666	3554	3141	2652	-	-	-	-	-	7A629	7A698	4YY18	
	1185	1	1.04	17.1	4477	4224	4108	4005	3703	3336	2841	-	-	5PV07	-	7A630	7A699	4YY18	
	1360	1 1/2	1.58	22	5138	4913	4811	4710	4532	4232	3912	3537	3023	-	-	7A631	7A700	4YY18	
	1495	2	2.10	27	5648	5443	5345	5254	5082	4921	4598	4313	3983	-	-	-	7A701	4YY18	
21%	665	1/3	0.35	8.1	3740	3096	2699	2073	-	-	-	-	-	-	-	7A632	-	4YY19	
	760	1/2	0.52	10.9	4275	3718	3413	3048	-	-	-	-	-	-	-	7A633	7A702	4YY19	
	875	3/4	0.79	15.2	4922	4439	4192	3922	3240	-	-	-	-	-	-	7A634	7A703	4YY19	
	960	1	1.04	17.7	5400	4958	4742	4508	3985	3169	-	-	-	-	-	7A635	7A704	4YY19	
	1100	1 1/2	1.57	23	6187	5798	5610	5421	5006	4529	3861	-	-	5PV08	-	7A636	7A705	4YY19	
	1210	2	2.10	23	6806	6451	6279	6108	5748	5350	4892	4289	3365	-	-	-	7A706	4YY19	
24%	510	1/3	0.34	7.3	4623	3717	3134	-	-	-	-	-	-	-	-	7A637	-	4YY20	
	585	1/2	0.52	9.5	5303	4540	4093	3565	-	-	-	-	-	-	-	7A638	7A707	4YY20	
	670	3/4	0.79	12.8	6074	5461	5052	4659	3524	-	-	-	-	-	-	7A639	7A708	4YY20	
	735	1	1.04	15.5	6663	6133	5764	5409	4618	-	-	-	-	-	-	7A640	7A709	4YY20	
	845	1 1/2	1.57	18.6	7660	7184	6947	6615	6002	5282	-	-	-	-	-	7A641	7A710	4YY20	
	930	2	2.10	23	8431	7985	7798	7536	6953	6375	5706	4324	-	-	3GY73	-	7A711	4YY20	
	1050	3	3.02	31	9519	9107	8941	8775	8267	7766	7253	6672	6005	-	-	-	7D491	4YY20	
30%	420	1/2	0.52	7.5	6835	5660	4820	-	-	-	-	-	-	-	-	7A642	7A712	4YY21	
	480	3/4	0.77	9.9	7811	6844	6231	5440	-	-	-	-	-	-	-	7A643	7A713	4YY21	
	530	1	1.05	12.2	8625	7772	7245	6636	-	-	-	-	-	-	-	7A644	7A714	4YY21	
	605	1 1/2	1.55	15.7	9845	9127	8705	8226	7084	-	-	-	-	-	-	7A645	7A715	4YY21	
	665	2	2.07	18.6	10822	10193	9808	9411	8495	7271	-	-	-	-	-	-	7A716	4YY21	
	765	3	3.15	23	12449	11904	11607	11273	10554	9743	8756	7352	-	-	3GY74	-	7A717	4YY21	
	905	5	5.21	32	14727	14266	14036	13788	13223	12614	11963	11191	10357	-	-	-	7A718	4YY21	
36	365	3/4	0.78	8.5	9845	8299	7286	5767	-	-	-	-	-	-	-	7A646	7A719	4YY22	
	400	1	1.02	11.1	10789	9426	8556	7575	-	-	-	-	-	-	-	7A647	7A720	4YY22	
	460	1 1/2	1.55	15.8	12408	11281	10587	9814	7809	-	-	-	-	-	-	7A648	7A721	4YY22	
	505	2	2.06	19.8	13621	12602	12022	11359	9878	-	-	-	-	-	-	-	7A722	4YY22	
	580	3	3.13	23	15644	14769	14306	13783	12597	11287	9381	-	-	-	-	-	7A723	4YY22	
	690	5	5.26	28	18611	17884	17504	17115	16236	15243	14187	12985	11290	-	-	-	7A724	4YY22	

*Drive Package is assembled on the unit.

*Drive Package is separate from the unit.

*Drive Package is not included with the unit.



Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free inlet fan sone levels. The AMCA Certified Ratings Seal applies to sone ratings only.

Dayton Electric Mfg. Co. certifies that the model shown herein is licensed to bear the AMCA Seal. The ratings 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.

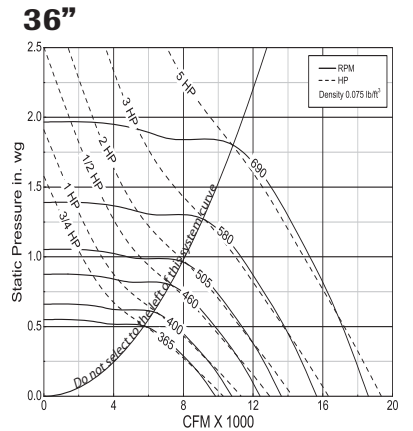
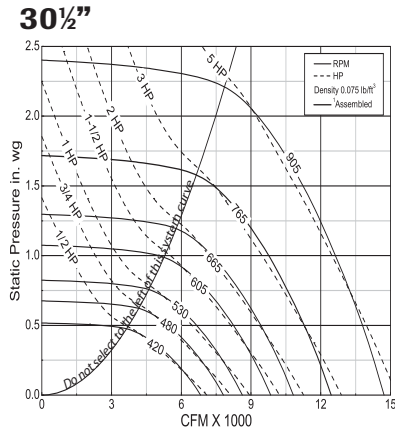
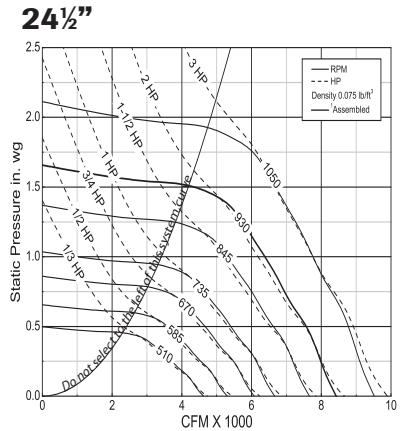
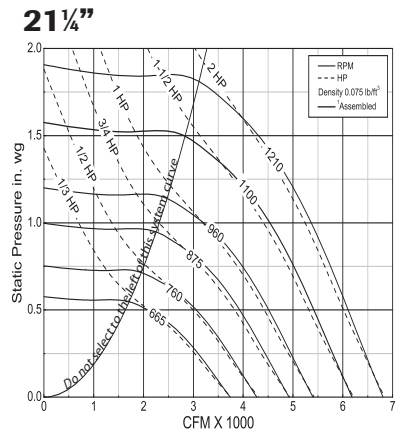
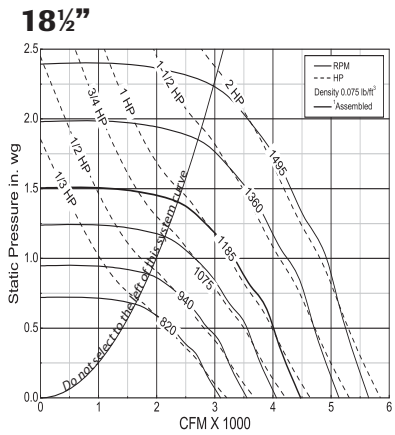
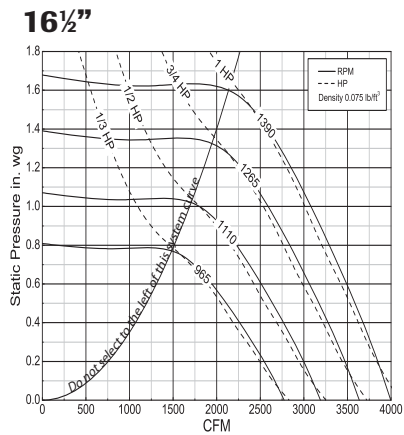
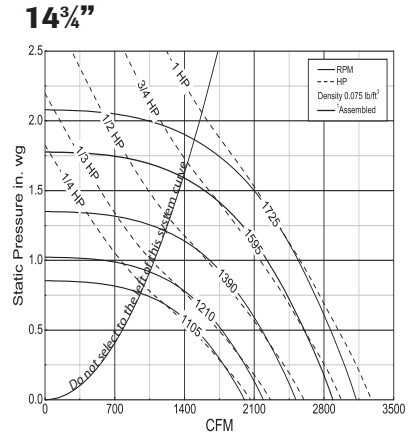
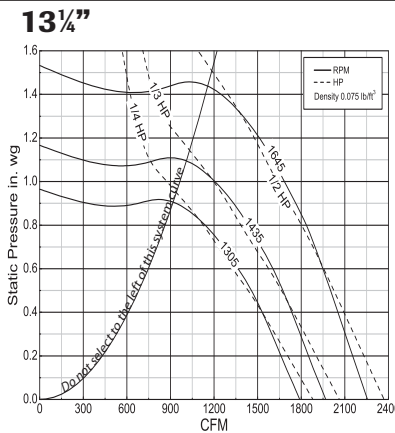
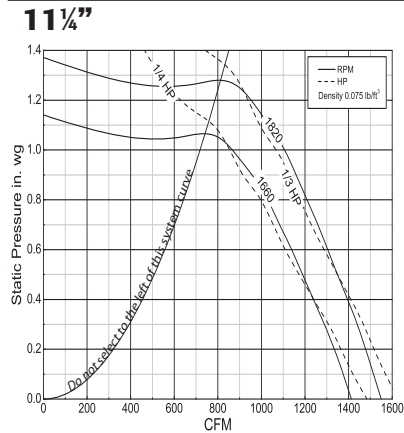
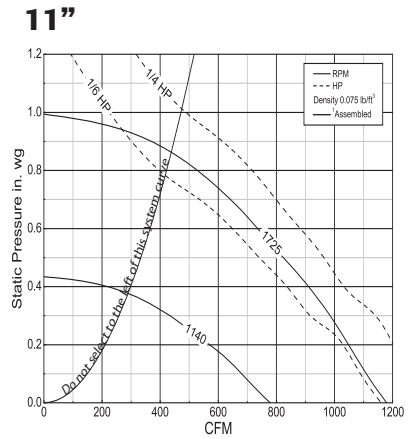
Centrifugal Belt Drive Upblast Exhaust Ventilators

Performance Charts

For a ventilator, every flow rate (CFM - Cubic Feet per Minute) corresponds to a specific resistance to flow (SP = Static Pressure). The series of CFM, SP points for a fan at a constant RPM is called a fan curve. The fan curves below represent the performance for each of the Dayton Centrifugal Upblast Exhaust Ventilators.

Looking at the 13 1/4" curve running at 1435 fan RPM, at 0.25" SP, this ventilator will deliver 1822 CFM. If the pressure increases, CFM decreases, but if the pressure decreases, CFM will increase. At 1435 RPM, the operating point will slide along the fan curve as static pressure changes, but it will never lie off the curve. In order for a fan to perform at a point off the curve, the RPM must be changed.

The 13 1/4" fan curve illustrates how fan RPM affects the fan curve. Notice that the general shape of the curves are the same. Changing RPM simply moves the curve outward or inward.



¹Drive Package is assembled on the unit.



Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

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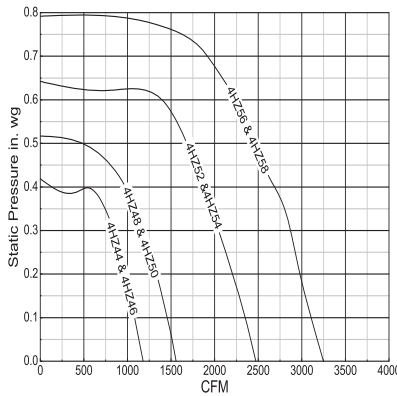
Centrifugal Direct Drive Upblast Exhaust Ventilators

Performance Tables and Charts

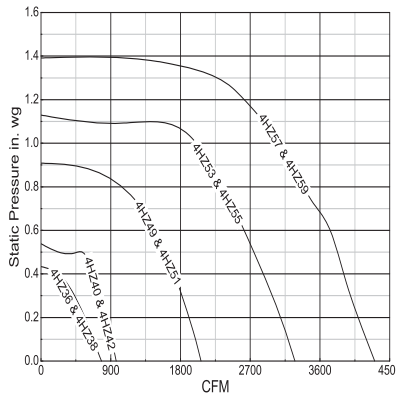
Wheel Dia. (In.)	Fan RPM	Max HP	Sones @ .250 SP	CFM Air Delivery @ Static Pressure Shown										'Stock Number		
				.000" SP	.100" SP	.125" SP	.250" SP	.375" SP	.500" SP	.625" SP	.750" SP	1.00" SP	Roof	Wall		
8 1/4"	1550	1/30	0.028	4.1	266	231	222	172	95	-	-	-	-	-	4HZ32	4HZ34
8 1/2"	1550	1/25	0.039	4.9	424	372	359	291	204	-	-	-	-	-	4HZ33	4HZ35
11"	1140	1/6	0.06	8.3	780	682	656	502	294	-	-	-	-	-	4HZ36	4HZ38
11"	1725	1/4	0.20	13.0	1180	1109	1094	1017	929	824	712	586	-	-	4HZ37	4HZ39
11"	1140	1/6	0.08	6.5	970	913	897	806	707	-	-	-	-	-	4HZ40	4HZ42
11"	1725	1/4	0.29	12.5	1468	1431	1422	1373	1315	1255	1195	1129	970	-	4HZ41	4HZ43

Wheel Dia. (In.)	Fan RPM	Max HP	Sones @ .250 SP	CFM Air Delivery @ Static Pressure Shown										'Stock Number		
				.000" SP	.125" SP	.250" SP	.375" SP	.500" SP	.750" SP	1.00" SP	1.25" SP	1.50" SP	Roof	Wall		
13 1/4"	860	1/8	0.07	7.7	1180	1057	914	675	-	-	-	-	-	-	4HZ44	4HZ46
13 1/2"	1725	3/4	0.60	18.4	2366	2305	2244	2183	2122	1994	1838	1646	1365	-	4HZ45	4HZ47
14 1/4"	860	1/8	0.12	7.1	1558	1427	1264	1034	-	-	-	-	-	-	4HZ48	4HZ50
14 1/2"	1140	1/4	0.29	11.0	2065	1973	1864	1745	1605	1167	-	-	-	-	4HZ49	4HZ51
16 1/2"	860	1/4	0.25	9.9	2472	2315	2126	1918	1680	-	-	-	-	-	4HZ52	4HZ54
16 1/2"	1140	3/4	0.58	14.8	3277	3161	3035	2896	2745	2421	1983	-	-	-	4HZ53	4HZ55
18 1/2"	860	1/2	0.40	11.1	3249	3074	2922	2732	2474	-	-	-	-	-	4HZ56	4HZ58
18 1/2"	1140	1	0.93	16.5	4307	4173	4045	3927	3822	3470	3072	2477	-	-	4HZ57	4HZ59

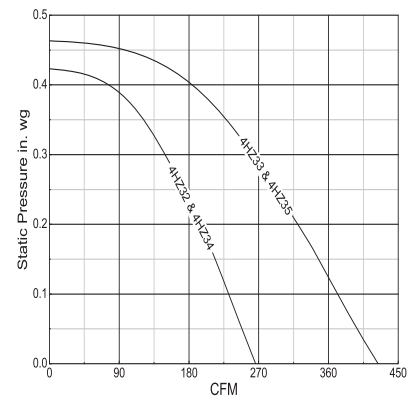
860 RPM



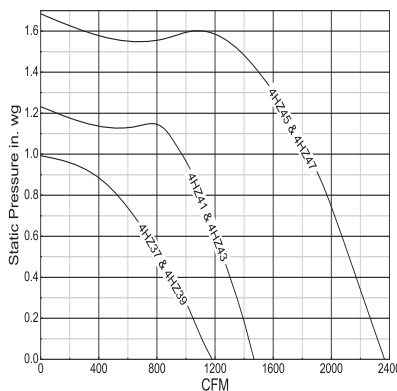
1140 RPM



1550 RPM



1725 RPM



No. 4YC44 Speed Controls



Speed Controls

Variable speed controls permit adjustment between 50 and 100% air performance and are rated 120V, 60Hz. Can be used to operate multiple fans, if total amp draw does not exceed control's amp rating. Controls are suitable and intended only for use with specified ventilators as listed. UL Listed when used in combination with fan as listed. Do not use speed controls in NFPA96 installations.

Max Amps	For use with Dayton Centrifugal Upblast Ventilators	Stock No.
3	4HZ32-36, 4HZ38, 4HZ40, 4HZ42, 4HZ44, 4HZ46, 4HZ48, 4HZ50	4YC44
10	4HZ53	4YC45
6	4HZ37, 4HZ39, 4HZ41, 4HZ43, 4HZ49, 4HZ51	4YC46

*Motor is assembled on the unit.



Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free inlet fan sone levels. The AMCA Certified Ratings Seal applies to sone ratings only.

Dayton Electric Mfg. Co. certifies that the model shown herein is licensed to bear the AMCA Seal. The ratings 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.

Centrifugal Belt Drive Upblast Exhaust Ventilators



Accessories

Non-Ventilated Curbs (Fixed & Adjustable)

All curbs have canted surfaces for leak-proof installation. The canted surface accommodates roofing material up the side and over the top of the curb. Shutter flanges are included.

Fixed curbs mount the flat flange directly to the roof surface. Each curb has 16-gauge galvanized steel construction with welded corners. The top flange surface includes a 1½" wide wood nailer.

Adjustable curbs accept several ventilator sizes and speed installation while providing uniformity to the entire job. Each curb has 22-gauge galvanized steel construction with 24-gauge steel center supports. The fiberglass insulation deadens sound and minimizes heat loss. Curbs are shipped unassembled.



No. 4HX39
Fixed Curb

Ventilated Curbs (Fixed & Adjustable)

All curbs are 16-gauge galvanized steel ventilated curbs for use in commercial kitchen applications. The curbs are self-flashing and the flat mounting flange fastens directly to the roof deck. Stamped louvers, located on curb sides, ventilate hot exhaust ducts to protect the building and roof members. Top flange surface is 1½" wide; base mounting flange surface is 4" on fixed curbs and 5" on adjustable curbs.

The adjustable curbs accept several ventilator sizes and allow for quick ventilator installation and uniformity throughout the entire job.



No. 4HX61
Adj. Ventilated Curb

Fixed Non-Ventilated Curbs

Inside Square Dim. (In.)	Outside Square Dim. (In.)	For use with Dayton Centrifugal Upblast Ventilators	8" Height Stock No.	12" Height Stock No.
11½"	15"	-	3TZ53	-
14	17½	4YY13, 4HZ32-33, 4HZ36-37	4HX38	4HX46
17	20½	4YY12-15, 4HZ40-41, 4HZ44-45	4HX39	4HX47
21	24½	4YY16-17, 4HZ48-49, 4HZ52-53, 5PV06	4HX40	4HX48
25	28½	4YY18-19, 4HZ56-57, 5PV07-08	4HX41	4HX49
29	32½	4YY20, 3GY73	4HX42	4HX50
37	40½	4YY21, 3GY74	4HX43	4HX51
41	44½	4YY22	4HX44	4HX52
52	55½	-	4HX45	4HX53
59	62½	-	4YY76	4YY77

Fixed Ventilated Curbs

Curb Height (In.)	Inside Square Dim. (In.)	Outside Square Dim. (In.)	For use with Dayton Centrifugal Upblast Ventilators	Stock No.
24"	14"	17½"	4YY13, 4HZ36-37	4HX54
24	17	20½"	4YY14-15, 4HZ40-41, 4HZ44-45	4HX55
24	21	24½"	4YY16-17, 4HZ48-49, 4HZ52-53, 5PV06	4HX56
24	25	28½"	4YY18-19, 4HZ56-57, 5PV07-08	4HX57
18	29	32½"	4YY20, 3GY73	4HX58
18	37	40½"	4YY21, 3GY74	4HX59
18	41	44½"	4YY22	4HX60

Adjustable Non-Ventilated Curbs

Outside Square Dim. (In.)	For use with Dayton Centrifugal Upblast Ventilators	6½" Height Stock No.	12½" Height Stock No.
14½" to 23"	4YY13-15, 4HZ32-33, 4HZ36-37, 4HZ40-41, 4HZ44-45	4C453	4C670
23½ to 32	4YY16-19, 4HZ48-49, 4HZ52-53, 4HZ56-57, 5PV06-08	4C454	3C437
32½ to 41	4YY20-21, 3GY73-74	4C455	3C438
41 to 49½	4YY22	3C597	3C598
50 to 58½	-	3C216	3C439
64 to 72½	-	-	1VN43

Adjustable Ventilated Curbs

Curb Height (In.)	Inside Square Dim. (In.)	Outside Square Dim. (In.)	For use with Dayton Centrifugal Upblast Ventilators	Stock No.
24"	14½" to 18"	17½" to 22"	4YY13-15, 4HZ32-33, 4HZ36-37, 4HZ40-41, 4HZ44-45	4HX61
24	21 to 26	24 to 29	4YY16-19, 4HZ48-49, 4HZ52-53, 4HZ56-57, 5PV06-08	4HX62
18	28 to 43	31 to 46	4YY20-22, 3GY73-74	4HX63



No. 4HX78
Grease Collector Box

NFPA 96 Required Grease Collector Box

Diverts and traps heavy residual grease while protecting the roof surface. Fasten directly to curb underneath ventilator. Connection from ventilator drain to grease box included.

Description	Length (In.)	Width (In.)	Height (In.) Less Mounting Flange	Stock No.
Small Collector	14"	5"	4"	1RL34
Large Collector	24	7	5	4HX78

No. 4HX79
Hinge Kit



NFPA 96 Required Hinge Kits

Hinge kits make maintenance easier by allowing ventilators to hinge open. This allows access to wheel and ductwork for cleaning and inspection.

Wheel Dia. (In.)	For use with Dayton Centrifugal Upblast Ventilators	Stock No.
8½" to 21½"	4YY13-15, 4HZ32-33, 4HZ36-37, 4HZ40-41, 4HZ44-45, 4HZ48-49, 4HZ52-53, 4HZ56-57, 5PV06-08	4HX79
24½	4YY20, 3GY73	4YY84
30½	4YY21, 3GY74	4YY85
36	4YY22	4YY86

Birdscreens

Zinc plated birdscreen protects the fans discharge from birds, debris and other small objects. These screens have successfully passed a 24-hour salt spray test. They are concentric and precisely sized to eliminate rattling.

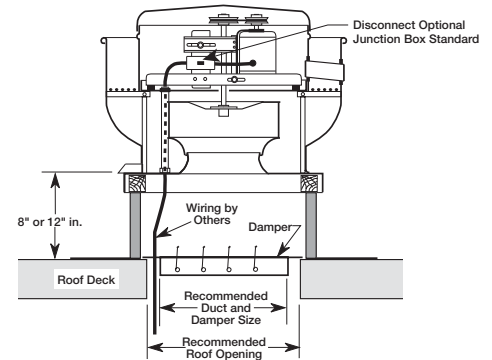
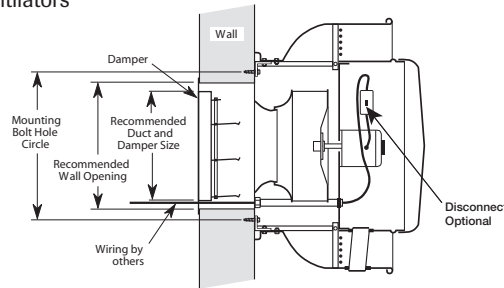
Wheel Dia. (In.)	For use with Dayton Centrifugal Upblast Ventilators	Stock No.
8½"	4HZ32-35	4ZA27
11 to 13½	4YY13-15, 4HZ36-47	4YY78
14½ to 16½	4YY16-17, 4HZ48-55, 5PV06	4YY79
18½ to 21½	4YY18-19, 5PV07-08, 4HZ56-59	4YY80
24½	4YY20, 3GY73	4YY81
30½	4YY21, 3GY74	4YY82
36	4YY22	4YY83

Centrifugal Upblast Exhaust Ventilators

Typical Installation

General Clean Air or Fume Hood (Non-Grease)

Dayton® Centrifugal Upblast Exhaust Ventilators are designed for applications ranging from clean air to contaminated air. A typical installation is shown.



Commercial Kitchen (Grease)

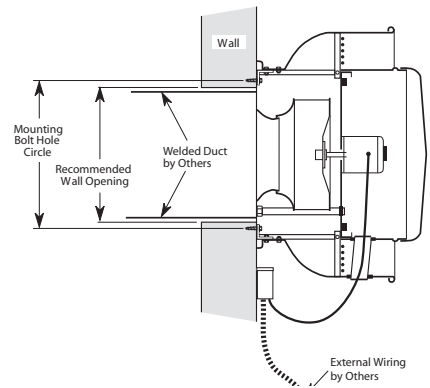
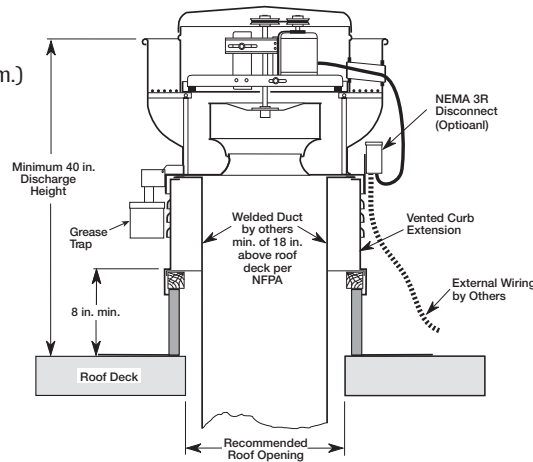
Dayton® Ventilators with 11" wheel diameters and larger are designed to meet restaurant and food service applications. These fans are UL and cUL Listed for grease removal and have been tested under high temperature (400 degrees F) and abnormal flare-up (600 degrees F) conditions.

Due to high temperatures and grease-laden air streams in commercial kitchen ventilation, system designers must be aware of governing codes and guidelines. The National Fire Protection Association (NFPA) is the primary source upon where many codes for commercial kitchens ventilation are based. Selected information from NFPA is shown below. Local code authorities should be consulted before proceeding with any kitchen ventilation project.

Exhaust fans used in kitchen ventilation applications must have external wiring. (Wiring must not be installed in air stream.)

Installation must include a means for inspecting, cleaning and servicing the exhaust fan. (e.g. Hinged Curb Cap)

No dampers are to be installed in the system.



Note: Above installations are recommendations based on national codes. Local authority may supersede these recommendations.

Dayton®

Reliability, dependability, availability. They all add up to a better value, at a price to fit your budget.

Better Reliability.

You can count on Grainger for:

1. Heavy-duty component construction
2. Demanding tolerances that meet tough industry standards
3. Design functionality to fit commercial through industrial applications

Better Dependability.

Whatever you're faced with today, a Dayton product is up for the task. Dayton products are reviewed every year through a continuous improvement process in order to provide dependability.

Better Availability.

Downtime kills productivity. When you need it fast, Dayton products are readily available exclusively through your Grainger network.

Ventilation manuals are available online

Help is just a click away – Download useful HVAC/R installation and maintenance guides of Grainger's PRVs, exhaust fans, blowers, heaters and agricultural fans for quick and easy reference. See grainger.com/dayton

Register at Grainger.com/contractor

Visit grainger.com/contractor for information, technical articles and industry links to keep you better informed on trade issues and how Grainger can help grow your business.

DAY IN. DAY OUT.™



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