

Centrifugal Belt-Drive Upblast Exhaust Ventilators

Designed for use in restaurants, schools, commercial, and industrial applications to exhaust air contaminated with smoke, fumes, odors, and grease-laden vapors from kitchen range hoods, up and away from the roof.

Feature one-piece rolled aluminum outer construction fully welded to the base to create a virtually leakproof seal between the ventilator and the mounting surface. Internal steel support braces and a fully rolled windband dramatically increases the rigidity of the ventilator for increased stability during transportation and installation. Motor, drive frame, and blower wheel are completely isolated from the mounting base by the use of independent neoprene studs, no metal-to-metal contact, greatly reducing overall noise. Motor compartment is isolated from the contaminated air stream and is cooled by outside air that is pulled in through an oversized breather tube by the spinning action of the wheel.

- Aluminum backward inclined, nonoverloading centrifugal wheel design
- NEMA 1 junction box located in motor enclosure
- Maximum inlet air temperature is 300°F
- UL-705 Listed for Power Ventilators
- UL-762 Listed for Restaurant Exhaust Appliances (YZHW)
- Air handling quality bearings are selected to meet a minimum of L10; 100,000 hours
- Units up to 16 1/2" feature sealed pillowblock bearings
- Units 18 1/2" and larger feature regreaseable pillowblock bearings

NOTE: For more information on UL 705, UL 762, and NFPA 96, contact a local licensed contractor or building inspector.

Restaurant Applications

- 11" to 36" units are UL Listed Restaurant Exhaust Equipment Subject 762 (YZHW).
- NFPA 96 requires the use of a ventilated roof curb, grease trap, and hinge kit



4YY13

Centrifugal upblast exhaust ventilator. CFM Range 780 to 1180 at 0.0" SP. Mounts on roof.

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A Tradition of Performance, Reliability and Value.

Centrifugal Belt-Drive Upblast Exhaust Ventilators

BELT-DRIVE UPBLAST CENTRIFUGAL ROOF VENTILATORS LESS DRIVE PACKAGE

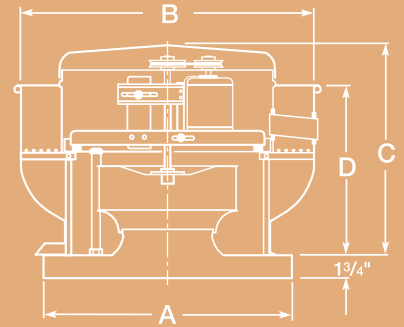
WHEEL DIA. (IN.)	SHAFT DIA. (IN.)		DIMENSIONS (IN.)				VENTILATOR LESS DRIVE PACKAGE** STOCK NO.	RECOMMENDED DAMPERS FOR NON-KITCHEN APPLICATIONS*	
	WHEEL END	SHEAVE END	A	B	C	D		SIZE (IN.)	STOCK NO
11	3/4	3/4	19	24 7/8	25 1/8	17 3/8	4YY13	12 x 12	4HX64
11 1/4	3/4	3/4	22	24 7/8	25 1/8	17 3/8	4YY14	15 x 15	4HX65
13 1/4	3/4	3/4	22	24 7/8	25 1/8	17 3/8	4YY15	15 x 15	4HX65
14 3/4	3/4	3/4	26	28 7/8	26 3/8	19 3/8	4YY16	19 x 19	4HX66
16 1/2	3/4	3/4	26	28 7/8	26 3/8	19 3/8	4YY17	19 x 19	4HX66
18 1/2	3/4	3/4	30	35 3/8	34 3/4	21	4YY18	23 x 23	4HX67
21 1/4	3/4	3/4	30	35 3/8	34 3/4	21	4YY19	23 x 23	4HX67
24 1/2	1	1	34	42 3/4	39 1/2	25 1/2	4YY20	27 x 27	4HX68
30 1/2	1	1	42	50	40	29 3/32	4YY21	35 x 35	4HX69
36	1 1/4	1 1/4	46	58 5/8	44 5/8	29 7/16	4YY22	39 x 39	4HX70

(* Not for use with any kitchen exhaust applications. (***) Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.

BELT-DRIVE UPBLAST CENTRIFUGAL VENTILATORS WITH DRIVE PACKAGE

WHEEL DIA. (IN.)	HP	FAN RPM	MAX BHP	SONES @ 0.250 SP	CFM AIR DELIVERY @ RPM SHOWN					STOCK NO.	SINGLE PHASE MOTORS 115/230V OPEN DRIP-PROOF STOCK NO.	3-PHASE MOTORS 220/440V OPEN DRIP-PROOF STOCK NO.
					0.000" SP	0.250" SP	0.500" SP	0.750" SP	1.000" SP			
11	1/6	1140	0.057	8.3	780	502	—	—	—	4YY13	7A587	—
11	1/4	1725	0.184	13.0	1180	1017	824	586	—	4YY13	7A588	—
11 1/4	1/4	1660	0.262	12.0	1413	1313	1189	1056	861	4YY14	7A593	—
11 1/4	1/3	1820	0.346	13.4	1549	1459	1350	1234	1106	4YY 14	7A594	—
13 1/4	1/4	1305	0.261	13.9	1790	1629	1458	1201	—	4YY15	7A615	—
13 1/4	1/2	1645	0.523	17.4	2256	2128	2001	1864	1684	4YY15	7A617	7A690
14 3/4	1/4	1105	0.262	10.6	2001	1793	1515	998	—	4YY16	7A618	—
14 3/4	1/2	1390	0.521	14.2	2518	2362	2174	1949	1643	4YY16	7A620	7A691
14 3/4	1	1725	0.996	22	3125	3005	2865	2711	2539	4YY16	7A622	7A693
16 1/2	1/3	965	0.352	11.5	2774	2477	2109	1584	—	4YY17	7A623	—
16 1/2	1	1390	1.05	21	3996	3806	3584	3340	3078	4YY17	7A626	7A696
18 1/2	1/3	820	0.346	10.0	3098	2759	2257	—	—	4YY18	7A627	—
18 1/2	1/2	940	0.521	13.1	3551	3243	2879	2363	—	4YY18	7A628	7A697
21 1/4	1/3	665	0.346	8.1	3740	3096	2073	—	—	4YY19	7A632	—
21 1/4	1	960	1.031	17.7	5400	4958	4508	3985	3169	4YY19	7A635	7A704
21 1/4	2	1210	2.086	23	6806	6451	6108	5748	5350	4YY19	—	7A706
24 1/2	1/3	510	0.345	7.3	4623	3717	—	—	—	4YY20	7A637	—
24 1/2	1	735	1.038	15.5	6663	6133	5409	4618	—	4YY20	7A640	7A709
24 1/2	3	1050	3.024	31	9519	9107	8775	8267	7766	4YY20	—	7D491
30 1/2	1/2	420	0.52	7.5	6835	5660	—	—	—	4YY21	7A642	7A712
30 1/2	1 1/2	605	1.557	15.7	9845	9127	8226	7084	—	4YY21	7A645	7A715
30 1/2	5	905	5.208	32	14,727	14,266	13,788	13,223	12,614	4YY21	—	7A718
36	3/4	365	0.779	8.5	9845	8299	5767	—	—	4YY22	7A646	7A719
36	1	400	1.025	11.1	10,789	9426	7575	—	—	4YY22	7A647	7A720
36	5	690	5.258	28	18,611	17,884	17,115	16,236	15,243	4YY22	—	7A724

The products listed above are only a small representation of our full product line. For a complete selection of Dayton HVAC products, see the Grainger catalog or visit granger.com/dayton



Use this diagram for sizing when choosing the correct dimensions in the top chart.



Backdraft roof mount damper, 12" x 12" for use with Dayton ventilator 4YY13. It has a galvanized frame and aluminum louvers.



Upblast exhaust ventilator. CFM Range 9845 to 18,611 at 0.0" SP. Mounts on roof.