

Occupational Health and Safety

Improve indoor air quality with Dayton Centrifugal Downblast Exhaust Ventilators

Issue: Poor indoor air quality impacts worker performance.

Application: Roof mounted downblast ventilators are designed to exhaust hot, humid dusty air from work areas.

Recommendation: Grainger offers a wide variety of sizes and styles to meet most ventilation requirements. Air moving capabilities range from 374 CFM – 4295 CFM in direct drive units and 373 CFM – 37,068 CFM in belt drive units.



For more information contact
you Grainger representative,
local branch, or go online to
grainger.com

Direct-Drive

- 3-Speed units address multiple ventilation needs and are fully controllable on any selected speed
- Motors are fully speed controllable and feature Class B insulation
- Maximum inlet air temperature is 130°F

Belt-Drive

- Air handling quality bearings meet a minimum of L10 life in excess of 100,000 hours of operation
- Bearings—units less motor and drive: sealed pillow block up to 16-3/4" wheel diameter, regreasable pillow block for 18" wheel diameter and larger
- Bearings—**assembled** units: sealed pillow block up to 18-1/2", regreasable pillow block for 21-1/2" wheel diameter and larger
- Maximum inlet air temperature is 180°F

Increased Durability

- Rugged and reliable construction makes fan capable of withstanding harsh exhaust conditions
- Spun aluminum construction features a fully rolled windband bead for increased stability and easy transport

Reliable Performance

- Fresh outside air is drawn in under the motor cover to maximize motor life
- Motor is mounted out of air stream
- Each fan is factory tested for proper rpm, amp draw and wheel rotation

Quiet Operation/Vibration Isolation

- Drive frame is internally isolated from the rest of the unit through use of neoprene isolators for long life and quiet operation; no steel-to-steel contact

Ease of Service

- NEMA 1 junction box located in motor compartment
- Name plate includes item number and unique serial number for future identification

Broad Performance Options

- Dayton Centrifugal Belt-Drive Downblast Exhaust Ventilators include a wide range of air delivery from 170 cfm to over 37,000 cfm

High Efficiency

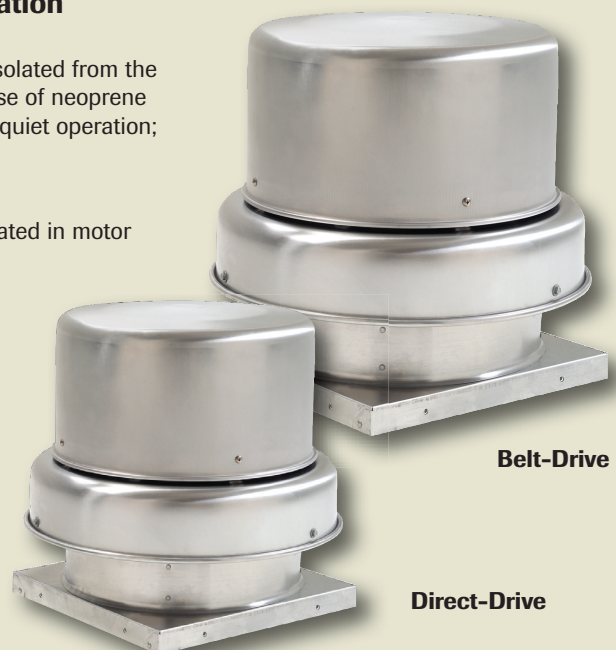
- Aluminum backward inclined, nonoverloading, centrifugal wheel design

Weather Resistant

- Housing constructed of heavy gauged aluminum
- Rigid internal support structure
- One piece spun aluminum curb-cap
- Birdscreen and steel drive frame

Third Party Certification

- AMCA Certified Rating for Sound and Air
- UL and C-UL 705 Listed for Power Ventilators



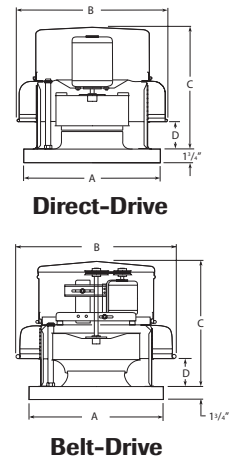
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Centrifugal Downblast Exhaust Ventilators – Dimensions & Performance

Wheel Dia. (In.)	Dimensions (In.)				Item No.
	A	B	C	D	
Direct-Drive					
8 1/4	19	19 3/8	12 1/8	3	4YC64, 4YC65
8 1/4	19	21 3/4	14 5/8	4	2RB53
10 1/2	19	21 3/4	14 5/8	4	4YC66, 4YC67
12 1/2	22	24 5/8	20	5 1/16	4YC68, 4YC69
14	22	28 7/8	20	5 1/16	4YC71
14 1/2	22	28 7/8	20	5 1/16	4YC70
16	26	35 1/2	21 1/8	4	4YC72, 4YC73
18	30	35 1/2	21 5/8	5 1/2	4YY75
19 1/2	30	35 1/2	22 3/4	6 3/8	4YC76
19 1/2	30	35 1/2	22 3/4	6 3/8	4YC77

Wheel Dia. (In.)	Dimensions (In.)				Item No.
	A	B	C	D	
Belt-Drive					
11	19	24 3/8	24 7/8	4 3/8	4YU92, 2RB59, 2RB60, 2RB61
11	22	24 3/8	24 7/8	4 3/8	4YU93, 2RB62
13 1/4	22	24 3/8	24 7/8	4 3/8	4YU94, 2RB63
14 3/4	26	28 3/8	25 3/8	4	4YU95, 2RB64
16 3/4	26	28 3/8	27 1/4	4	4YU96
18 1/2	30	35 1/2	34 3/8	5 1/2	4YU97, 3GY66, 3GY70
21 1/2	30	35 1/2	34 3/8	5 1/2	4YU98, 3GY67, 3GY71
24 1/2	34	42 3/4	38 3/8	5 3/4	4YU99, 3GY68
30 1/2	42	50	36	8 1/4	4YY10, 3GY69
36	46	58 3/4	38 1/2	8 7/8	4YY11
50	64	83	50 3/4	14 1/2	4YY12



Wheel Dia. (In.)	HP	Fan RPM	Max BHP	Sones @ 0.250 SP @ 5 Ft.	CFM Air Delivery @ Static Pressure Shown						Less Drive Package Item No.	With Drive Package 1-Phase / 3-Phase 115/230 / 230/460 Item No.	Assembled With Drive Package 1-Phase / 3-Phase 115/230 / 230/460 Item No.
					0.000"	0.250"	0.500"	0.750"	1.000"	1.250"			
Direct-Drive													
8 1/4	1/30	1550	0.03	4.7	374	274	—	—	—	—	4YC64	—	—
8 1/4	1/25	1300	0.04	3.5	367	195	—	—	—	—	4YC65	—	—
8 1/4	1/20	1050	0.06	4.3	398	179	—	—	—	—	2RB53	—	—
10 1/2	1/8	1300	0.12	6.4	888	640	184	—	—	—	4YC67	—	—
10 1/2	1/30	1050	0.04	4.5	717	389	—	—	—	—	4YC66	—	—
12 1/2	1/8	860	0.04	5.2	922	450	—	—	—	—	4YC68	—	—
12 1/2	1/4	1725	0.30	13.8	1849	1659	1453	1223	911	—	4YC69	—	—
14	1/2	1725	0.45	18.4	2393	2225	2030	1817	1555	—	4YC71	—	—
19 1/2	3/4	1140	0.77	19.3	4295	3933	3509	2971	2246	—	4YC77	—	—
Belt-Drive													
11	1/4	1710	0.13	11.0	373	335	292	246	198	—	—	—	2RB59 / —
11	1/4	1710	0.19	12.1	856	785	710	630	511	—	—	—	2RB60 / —
11	1/4	1710	.025	13.2	1296	1180	1062	934	785	—	4YU92	7A548 / —	2RB61 / —
11	1/3	1800	0.33	12.5	1526	1419	1321	1209	1065	793	4YU93	7A550 / —	2RB62 / —
13 1/4	1/2	1725	0.50	17.0	2093	1984	1871	1743	1600	1426	4YU94	7A553 / 7A649	2RB63 / —
14 3/4	1/2	1360	0.53	13.9	2523	2347	2166	1943	1602	—	4YU95	7A556 / 7A650	2RB64 / —
16 3/4	3/4	1250	0.79	17.0	3692	3422	3149	2838	2444	—	4YU96	7A561 / 7A654	—
18 1/2	1	1185	1.10	17.8	4608	4401	4179	3900	3575	3178	4YU97	7A566 / 7A658	3GY70 / 3GY66
21 1/2	1 1/2	1090	1.56	18.9	6032	5682	5301	4925	4450	3751	4YU98	7A572 / 7A664	3GY71 / 3GY67
24 1/2	2	910	2.06	21	8355	7916	7467	6933	6240	5388	4YU99	— / 7A670	— / 3GY68
30 1/2	3	760	3.15	21	12,311	11,704	10,997	10,242	9369	8293	4YY10	— / 7A676	— / 3GY69
36	5	685	5.23	29	18,322	17,560	16,711	15,774	14,710	13,535	4YY11	— / 7A683	—
50	10	460	10.26	32	37,068	34,991	32,805	30,342	27,917	—	4YY12	— / 7YR34	—

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 grainger.com/dayton