

## for the FANS

May 2009 — [www.solutionsforair.com](http://www.solutionsforair.com)

★ New Dayton® Products - *click on any Item No. below to see more information on [www.solutionsforair.com](http://www.solutionsforair.com)*

### Hazardous Location Centrifugal Belt Drive Exhaust Ventilators — **NEW!**

Designed to exhaust air in commercial and industrial applications with potentially hazardous particles or fumes. Constructed with spark-resistant aluminum wheel and rub ring. Spun aluminum housing features rolled windband to increase stability. Motor, drive frame, and wheel are isolated from the mounting base by independent neoprene studs—no metal-to-metal contact, greatly reducing overall noise. Motor compartment is cooled by fresh outside air, maximizing motor life. Motors, sheaves, and belts are packaged separately when unassembled ventilator with drive package is ordered.

WARNING: Non-Hazardous Ventilators are not interchangeable with Hazardous Ventilators.



#### UPBLAST, ASSEMBLED

- Motor only UL Listed for Class I Group D (Nos. 3ATV3 and 3ATV5 also Group C) and Class II Groups F and G hazardous locations
- NEMA 7 and 9 disconnect switch factory mounted and wired
- Max inlet air temp.: 300°F
- Bearings—**assembled units:** sealed pillow block up to 18½" wheel dia.; regreaseable pillow block for 21¼" wheel dia. and larger

#### DOWNBLAST

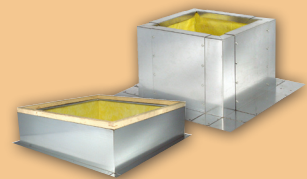
- Motor only UL Listed for Class I Groups C and D and Class II Groups E, F, and G hazardous locations
- Max. inlet air temp.: 180°F
- Bearings—**units without drive package:** sealed pillow block up to 16¾" wheel dia.; regreaseable pillow block for 18½" wheel dia. and larger

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown				Motor HP	Fan RPM	Sones @ 0.250" @ 5 Ft.		FANS COMPLETE WITH DRIVE PACKAGE	
	0.000"	0.250"	0.500"	0.750"			Max BHP	Totally Enclosed 1-Phase Motor 115/208-230V, 60 Hz	Totally Enclosed 3-Phase Motor 208-230/460V, 60 Hz	
<b>Upblast, Assembled</b>										
13¼"	2256	2128	2001	1864	1/2	1645	17.4	0.52	<b>3ATV3</b>	—
16½"	3996	3806	3584	3340	1	1390	21	1.05	<b>3ATV4</b>	<b>3ATV5</b>
21¼"	5400	4958	4508	3985	1	960	17.7	1.04	<b>3ATV6</b>	—
24½"	8431	7985	7536	6953	2	930	23	2.10	—	<b>3ATV7</b>
30½"	12,449	11,904	11,273	10,554	3	765	23	3.15	—	<b>3ATV8</b>
<b>Downblast</b>										
11"	1296	1180	1062	934	1/4	1710	13.2	0.25	<b>7AE89</b>	—
11"	1386	1269	1162	1020	1/4	1635	10.4	0.25	<b>7AE90</b>	—
	1526	1419	1321	1209	1/3	1800	12.5	0.34	—	<b>7AF08</b>
13¼"	1692	1557	1404	1214	1/4	1395	12.3	0.26	<b>7AE91</b>	—
	1880	1759	1329	1475	1/3	1550	14.3	0.35	—	<b>7AF09</b>
14½"	1994	1771	1490	—	1/4	1075	9.4	0.26	<b>7AE92</b>	—
	2170	1966	1734	1356	1/3	1170	10.8	0.34	—	<b>7AF10</b>
16½"	2555	2162	1624	—	1/4	865	9.7	0.26	<b>7AE93</b>	—
	2791	2434	2010	—	1/3	945	11.5	0.34	—	<b>7AF11</b>
18½"	2839	2469	1882	—	¼	730	7.2	0.26	<b>7AE94</b>	—
	3150	2832	2375	—	1/3	810	8.7	0.34	<b>7AE95</b>	<b>7AF12</b>
	3655	3388	3052	2601	1/2	940	12.0	0.55	<b>7AE96</b>	<b>7AF13</b>
	4102	3867	3596	3252	3/4	1055	14.9	0.77	—	<b>7AF14</b>
21½"	4608	4401	4179	3900	1	1185	17.8	1.10	—	<b>7AF15</b>
	3320	2637	—	—	1/4	600	7.3	0.26	<b>7AE97</b>	—
	3680	3085	2087	—	1/3	665	8.5	0.35	<b>7AE98</b>	<b>7AF16</b>
	4261	3744	3141	—	1/2	770	10.7	0.55	<b>7AE99</b>	<b>7AF17</b>
24½"	4759	4289	3811	3085	3/4	860	12.9	0.77	—	<b>7AF18</b>
	5340	4927	4520	4015	1	965	15.4	1.09	—	<b>7AF19</b>
	4223	3188	—	—	1/4	460	5.7	0.26	<b>7AF00</b>	—
	4637	3761	—	—	1/3	505	6.9	0.35	<b>7AF01</b>	<b>7AF20</b>
30½"	5371	4666	3562	—	1/2	585	9.1	0.55	<b>7AF02</b>	<b>7AF21</b>
	6060	5449	4636	3217	3/4	660	11.8	0.79	—	<b>7AF22</b>
	6702	6158	5507	4568	1	730	14.3	1.06	—	<b>7AF23</b>
	7575	7092	6574	5901	1½	825	17.7	1.54	—	<b>7AF24</b>
30½"	5912	4340	—	—	1/3	365	5.7	0.35	<b>7AF03</b>	<b>7AF25</b>
	6803	5537	—	—	1/2	420	7.0	0.53	<b>7AF04</b>	<b>7AF26</b>
	7694	6616	5095	—	3/4	475	9.6	0.77	<b>7AF05</b>	<b>7AF27</b>
	8585	7640	6456	4195	1	530	12.2	1.07	<b>7AF06</b>	<b>7AF28</b>
	9719	8907	7952	6721	1½	600	14.9	1.56	<b>7AF07</b>	<b>7AF29</b>
	10,772	10,060	9228	8269	2	665	17.7	2.12	—	<b>7AF30</b>

### Recommended Roof Curbs

Prefabricated, leakproof curbs are designed to ensure compatibility between ventilator, curb, and roof opening on commercial and industrial buildings. Each includes 1" insulation and integral damper tray. Adjustable curbs are shipped unassembled.

For Fan Dia.	Fixed Nonventilated Item No.	Adjustable Nonventilated Item No.
11"	<b>2RB75</b>	<b>2ZV82</b>
13¼"	<b>2RB76</b>	<b>2ZV82</b>
14½"	<b>2RB77</b>	<b>2ZV83</b>
16½"	<b>2RB77</b>	<b>2ZV83</b>
16½"	<b>2RB77</b>	<b>2ZV83</b>
18½"	<b>2RB79</b>	<b>2ZV83</b>
21¼"	<b>2RB79</b>	<b>2ZV83</b>
21¼"	<b>2RB79</b>	<b>2ZV83</b>
24½"	<b>2RB80</b>	<b>2ZV84</b>
30½"	<b>2RB81</b>	<b>2ZV84</b>



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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet sone levels. Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.

## for the FANS

May 2009 — [www.solutionsforair.com](http://www.solutionsforair.com)

★ New Dayton® Products - *click on any Item No. below to see more information on [www.solutionsforair.com](http://www.solutionsforair.com)*

### Industrial Direct-Drive Mobile Air Circulator — **NEW!**

Designed to move high volumes of air at low RPM to keep workers comfortable and productive. Direct-drive unit features totally enclosed air-over motor with automatic reset thermal protection. Assembly includes a wheeled cart with 7" diameter wheels that features a cord-wrap and handle with a 10 foot, factory wired, 3-conductor cord with a grounded, molded plug. 3-bladed steel propeller operates at low noise level. Steel housing and guards are coated with a gray polyester powder-coat.



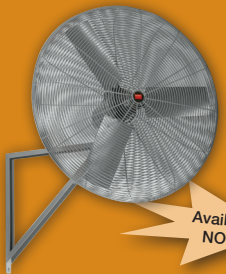
Available NOW!

- Maximum inlet air temperature : 104°F
- Single-speed motors feature thermal overload protection
- Preassembled
- OSHA-compliant gray polyester powder-coated wire guard

Prop. Dia.	CFM	Air Velocity (FPM) @			Motor HP	Fan RPM	Sones @ 0.000"	Operating Amps	Full Load Amps	Item No.
		20 Ft.	40 Ft.	60 Ft.						
<b>Direct-Drive</b>										
36"	12,250	390	250	150	1/2	850	22	5.5	6.3	<b>3XFY8</b>

### Industrial Assembled 36" Air Circulator Heads — **NEW AND IMPROVED!**

Designed for cooling workers in factories, warehouses, manufacturing facilities and garages where humid and demanding conditions exist. High efficiency corrosion resistant steel propellers. Circulator heads utilize a vertical tilt/locking adjustment for directional flow. Wire guards are gray polyester powder-coated. Permanent split capacitor motors are totally enclosed air-over. All 115V motors have a pull chain switch and include a 10 foot factory wired, 3-conductor cord with grounded molded plug. Conduit box provided on 3-phase motor for hard wiring. Oscillating circulator head sweeps through a 45 degree or 90 degree arc.



Available NOW!

- UL/cUL Listed Standard 507
- Maximum inlet air temperature : 104°F
- Ball bearings
- Preassembled
- OSHA-compliant gray polyester powder-coated wire guard

Prop. Dia.	CFM		Air Velocity (FPM) @ 20 Ft.	Motor HP	Fan RPM	Sones @ 0.000"	Operating Amps	Full Load Amps	Item No.
	High	Low							
<b>Nonoscillating</b>									
36"	12,500	8000	1000/930	1/2	1075/750	43	3.75/3.54	5.0	<b>3PEG9</b>
<b>Oscillating</b>									
36"	12,500	8000	1000/930	1/2	1075/750	43	5.25/3.73	5.9	<b>3PEH1</b>
<b>3-Phase</b>									
36"	12,250	—	1000	1/2	1075	43	1.49-1.49/0.75	2.2-2.2/1.1	<b>3PEH2</b>
<b>Industrial Air Circulator Accessory</b>									
Heavy-Duty Mounting Bracket									<b>3PEH3</b>

### Hooded Gravity Roof Ventilator — **3 NEW SIZES!**



Available NOW!

Designed for applications that require gravity ventilation or can be used in conjunction with powered exhaust, supply or reversible fans. Strong, weathertight hood is constructed of interlocking, arched, galvanized steel panels providing exceptional strength. Features hinged hood with birdscreen providing convenient access.

Prop. Dia.	CFM/Throat Velocity @ Static Pressure Shown										Max. Intake CFM/Throat Velocity	Item No.
	Gravity Relief @ SP					Gravity Intake @ SP						
	0.050"	0.100"	0.125"	0.200"	0.250"	0.050"	0.100"	0.125"	0.200"	0.250"		
20"	1782/509	2520/720	2818/805	3565/1018	3985/1139	1599/457	2201/629	2461/703	3112/889	3480/994	5500/1571	<b>3FKE1</b>
54	12094/509	17103/720	19122/805	24188/1018	27043/1139	10851/457	14934/629	16697/703	21120/889	23613/994	23550/992	<b>3FKE2</b>
60	14716/509	20811/720	23268/805	29433/1018	32907/1139	13204/457	18172/629	20317/703	25699/889	28733/994	24660/853	<b>3FKE3</b>

## for the FANS

May 2009 — [www.solutionsforair.com](http://www.solutionsforair.com)

★ New Dayton® Products - *click on any Item No. below to see more information on [www.solutionsforair.com](http://www.solutionsforair.com)*

### Belt-Drive Supply and Exhaust Fans — 5 NEW SIZES!

Designed for commercial applications requiring high volumes of air at low static pressures. Air handling-quality bearings meet a minimum of L10-100,000 hours. Motors, sheaves, bushings, and belts are packed separately when complete fan with drive package is ordered. UL and C-UL Listed.

Available NOW!



- Mount: supply—vertical, exhaust—horizontal
- Max. inlet/ambient temp.: 104°F
- Variable pitch, adjustable motor pulley optimizes fan performance

#### STANDARD-DUTY

Feature 6-blade galvanized-steel propellers and rigid drive-frame rails. 3FKD4 has sealed pillow block ball bearings, 3FKD7 has regreaseable cast pillow block ball bearings.

#### MEDIUM-DUTY

Feature 5-blade reinforced galvanized-steel propellers and heavy-duty driveframe rails. Regreaseable cast pillow block ball bearings.

#### HEAVY-DUTY

Feature 6-blade heavy-duty cast aluminum propellers and heavy-duty driveframe channels. Regreaseable cast pillow block ball bearings.

Prop. Dia.	CFM Air Delivery @ Static Pressure Shown				Motor HP	Fan RPM	Sones @ 0.000" @ 5 Ft.		FANS COMPLETE WITH DRIVE PACKAGE				FAN WITHOUT MOTOR & DRIVE PACKAGE Item No.
	0.000"	0.125"	0.250"	0.375"			Open Dripproof 1-Phase Motor 115/230V, 60 Hz	Totally Enclosed 1-Phase Motor 115/230V, 60 Hz	Open Dripproof 3-Phase Motor 208-230/460V, 60 Hz	Totally Enclosed 3-Phase Motor 208-230/460V, 60 Hz			
<b>Standard-Duty</b>													
<b>SUPPLY FAN</b>													
20"	3581	3148	2469	1160	1/4	953	16.2	0.30	<b>7AC80</b>	<b>7AC82</b>	<b>7AC81</b>	<b>7AC83</b>	<b>3FKD4</b>
	3904	3517	2954	2037	1/3	1039	17.2	0.40	<b>7AC84</b>	<b>7AC86</b>	<b>7AC85</b>	<b>7AC87</b>	
	4587	4277	3873	3333	1/2	1221	20	0.60	<b>7AC88</b>	<b>7AC90</b>	<b>7AC89</b>	<b>7AC91</b>	
<b>EXHAUST FAN</b>													
20	3581	3148	2469	1160	1/4	953	16.2	0.30	<b>7AD16</b>	<b>7AD18</b>	<b>7AD17</b>	<b>7AD19</b>	<b>3FKD7</b>
	3904	3517	2954	2037	1/3	1039	17.2	0.40	<b>7AD20</b>	<b>7AD22</b>	<b>7AD21</b>	<b>7AD23</b>	
	4587	4277	3873	3333	1/2	1221	20	0.60	<b>7AD24</b>	<b>7AD26</b>	<b>7AD25</b>	<b>7AD27</b>	
<b>Medium-Duty</b>													
<b>SUPPLY FAN</b>													
54	30,129	26,014	—	—	1½	343	17.3	1.73	<b>7AC59</b>	<b>7AC60</b>	<b>7AC61</b>	<b>7AC62</b>	<b>3FKD5</b>
	32,589	28,800	22,253	—	2	371	19.0	2.30	<b>7AC63</b>	<b>7AC64</b>	<b>7AC65</b>	<b>7AC66</b>	
	37,683	34,407	30,466	—	3	429	25	3.45	—	<b>7AC67</b>	<b>7AC68</b>	<b>7AC69</b>	
	44,535	41,763	38,990	35,068	5	507	43	5.75	—	—	<b>7AC70</b>	<b>7AC71</b>	
<b>EXHAUST FAN</b>													
20	4404	3672	—	—	1/4	861	14.3	0.30	<b>7AD52</b>	<b>7AD54</b>	<b>7AD53</b>	<b>7AD55</b>	<b>3FKD8</b>
	4844	4156	—	—	1/3	947	16.1	0.40	<b>7AD56</b>	<b>7AD58</b>	<b>7AD57</b>	<b>7AD59</b>	
	5550	4919	4269	—	1/2	1085	17.9	0.60	<b>7AD60</b>	<b>7AD62</b>	<b>7AD61</b>	<b>7AD63</b>	
	6348	5764	5325	4497	3/4	1241	22	0.90	<b>7AD64</b>	—	<b>7AD65</b>	<b>7AD66</b>	
<b>Heavy-Duty</b>													
<b>SUPPLY FAN</b>													
60	48,356	44,215	39,274	—	5	485	35	5.75	—	—	<b>7AC72</b>	<b>7AC73</b>	<b>3FKD6</b>
	55,335	51,712	48,133	41,726	7½	555	45	8.63	—	—	<b>7AC74</b>	<b>7AC75</b>	
	60,918	57,628	54,364	50,737	10	611	54	11.50	—	—	<b>7AC76</b>	<b>7AC77</b>	
	69,692	66,816	63,943	61,110	15	699	74	17.25	—	—	<b>7AC78</b>	<b>7AC79</b>	

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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet some levels. Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.

### Supply and Exhaust Fan Accessories — NEW!

Galvanized steel accessories are for use with Dayton® exhaust and supply propeller fans. Ship unassembled; assembly hardware included.

For Fan Dia.	Item No.
<b>Wall Housings</b>	
12 - 60"	<b>3FKF4 - 3FKF9, 3FKG1 - 3FKG5</b>
<b>Weatherhood</b>	
20	<b>3FKF2</b>
<b>Wall Collar</b>	
20	<b>3FKF3</b>

#### WALL HOUSINGS

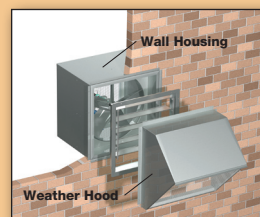
Provide an easy, flexible way to install and enclose propeller fans in the wall opening. Protective screen meets OSHA regulations and completely protects the motor drive side of fan.

#### WEATHER HOODS

Protect the wall opening from rain or snow. Each includes bird screen.

#### WALL COLLARS

Provide an easy way to install propeller fans in the wall opening. Internal flange for mounting shutters and external flange that provides flashing for the wall opening.



# NEWS...

# Solutions For Air

Your Ventilation Information Resource

## for the FANS

May 2009 — [www.solutionsforair.com](http://www.solutionsforair.com)

★ New Dayton® Products - *click on any Item No. below to see more information on [www.solutionsforair.com](http://www.solutionsforair.com)*

### More New Products and Sizes Coming Soon!

NEW Products				
	Roof Curb Adaptors	Reducer	Allow an existing roof curb to be used when replacing a fan or ventilator. Designed to adapt a standard fan base dimension to the existing curb. Does not add height to the installation. Galvanized steel construction.	<b>3AZK1, 3AZK2, 3AZK3, 3AZK4, 3AZK5, 3AZK6, 3AZK7, 3AZK8, 3AZK9, 3AZL1, 3AZL2, 3AZL3, 3AZL4</b>
		Increaser		
	Replacement Motors	UL 705	Designed specifically as replacement motors for Dayton ventilators.	<b>3RED9, 3REE1, 3REE2, 3REE3, 3REE4</b>
		Hazardous		
New Sizes				
	Centrifugal Belt-Drive Upblast Exhaust Ventilators	Assembled with Drive Package	Designed for use in restaurants, schools, commercial, and industrial applications to exhaust contaminated air from kitchen range hoods, up and away from the roof. Leakproof, spun aluminum construction features a fully rolled windband for increased stability. UL/cUL 762 Listed.	<b>3ATT8, 3ATT9, 3ATU1, 3ATU2, 3ATU3, 3ATU4, 3ATU5, 3ATU6, 3ATU7, 3ATU8, 3ATU9, 3ATV1, 3ATV2</b>
	Centrifugal Belt-Drive Downblast Exhaust Ventilators	Assembled with Drive Package	Designed to meet the general clean air exhaust requirements for industrial and commercial buildings. Features a fully rolled windband bead for increased stability and easy transport. Fresh outside air is drawn in under the motor cover to maximize motor life. UL/cUL 705 Listed.	<b>3HFL6, 3HFL7, 3HFL8, 3HFL9</b>
	Nonventilated Roof Curbs	Fixed, Straight-Sided	Designed for use in general exhaust applications. Flat mounting flange fastens directly to the roof deck before insulation is applied for weather tightness. Straight sided surface accommodates roofing material up the side of the curb and over the top for leakproof installation.	<b>3AZJ8, 3AZJ9</b>
	Direct Fired Make-Up Air Heaters	Energy Efficient	Designed to provide large volumes of tempered fresh air to commercial kitchens or industrial buildings. The direct gas burners are 92% efficient and operate on natural gas. Units constructed of 18-ga. galvanized steel with standard lifting lugs for easy installation. ETL Listed for US and Canada.	<b>3CCR7, 3CCR8, 3CCR9</b>



## Solutions For Air

Your Ventilation Information Resource

**Research and Purchase**  
No Registration Required for [www.solutionsforair.com](http://www.solutionsforair.com) users!

For additional information on other Dayton products, visit [www.solutionsforair.com](http://www.solutionsforair.com) - Your Dayton Ventilation Information Resource. This website helps take the guesswork out of selecting the right product for your application, as well as provides you with a surplus of product information including product specifications, submittals, recommended accessories, troubleshooting guides, air performance and much more!

We offer selection tools to match our products with your specifications, including an application search, competitor cross reference and building cutaway. In addition, there is a Ventilation School section where we help to expand your knowledge on HVAC. Visit [SoutionsForAir.com](http://SoutionsForAir.com) today and we'll show you how fun and easy ventilation can be!