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ENGINEERING SUPPLEMENT
ES-744
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CENTRIFUGAL DOWNBLAST ROOF VENTILATORS MODEL SDBD DIRECT-DRIVE/EXHAUST



AMCA SEAL The New York Blower Company certifies that the Model SDBD ventilators shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications 211 and 311 and comply with the requirements of the AMCA Certified Ratings Program.

DESIGN FEATURES

5 Sizes - from 6' to 15' in diameter.

Airflows - 30 to 3,000 CFM, up to 1" SP.

Centrifugal aluminum wheel - wheel non-over-loading, backward inclined tapered blades for maximum efficiency. Suitable for ducted and non-ducted applications.

Neoprene isolators - to reduce vibration and sound.

Aluminum Birdscreen - standard.

Safety disconnect - standard with single speed ODP motors.

Conduit chase - provided for ease of electrical connection from below roof.



Exterior fasteners - stainless steel as standard.

Deep spun inlet - for optimum air and sound performance. Also prevents snow and rain from entering building.

Aluminum construction - for durability and appearance.

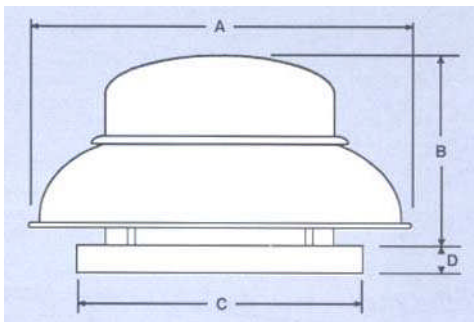
Motors - single phase, 60 cycle ODP motors are standard.

Motor assembly - isolated from unit to eliminate vibration and noise transmission, mounted out of exhaust airstream. Speed controllable.

Motor and wheel - removable as an assembly for ease of maintenance.

Factory test run - for quality assurance.

DIMENSIONS - Not to be used for construction unless certified.



Fan Size	Dimensions [inches]							Approx. shpg. wt. #
	Damper O.D.	Roof Opening	Curb O.D.	A	B	C	D	
6	11	11 ³ / ₄	14 ³ / ₄	21 ³ / ₄	16 ³ / ₄	16 ¹ / ₂	1 ³ / ₄	48
8	11	11 ³ / ₄	14 ³ / ₄	21 ³ / ₄	16 ³ / ₄	16 ¹ / ₂	1 ³ / ₄	48*
10	11	11 ³ / ₄	14 ³ / ₄	21 ³ / ₄	16 ³ / ₄	16 ¹ / ₂	1 ³ / ₄	67
12	18	19 ¹ / ₄	22 ¹ / ₄	33 ¹ / ₈	23 ¹ / ₂	24	2 ¹ / ₂	102
15	18	19 ¹ / ₄	22 ¹ / ₄	33 ¹ / ₈	23 ¹ / ₂	24	2 ¹ / ₂	125

* Model 8167 weighs approximately 67 pounds.

The New York Blower Company has a policy of continuous product development and reserves the right to change designs and specifications without notice.

MODEL SDBD DIRECT DRIVE/EXHAUST - performance ratings

Fan		CFM									Motor HP	Max. BHP	Sones at 0" SP	Fan RPM	
Size	Model	0" SP	1/8" SP	1/4" SP	3/8" SP	1/2" SP	5/8" SP	3/4" SP	7/8" SP	1" SP					
6	SDBD6 CS+	46	27								1/10	0.02	3.4	1050	
	SDBD6 CS+	59	45	29							1/10	0.03	6.2	1350	
	SDBD6 C*	75	63	51	39	26						1/10	0.04	11.1	1700
	SDBD6 CLS+	85	54									1/10	0.02	2.8	950
	SDBD6 CLS+	108	85	53								1/10	0.03	4.7	1200
	SDBD6 CLS+	130	112	90	61							1/10	0.04	7.5	1450
	SDBD6 CL*	153	137	120	100	76						1/10	0.06	11.1	1700
	SDBD6 S+	224	133									1/10	0.02	2.5	950
	SDBD6 S+	236	152									1/10	0.02	2.8	1000
	SDBD6 S+	248	171									1/10	0.02	3.2	1050
	SDBD6 S+	260	187									1/10	0.02	3.5	1100
	SDBD6 S+	272	204									1/10	0.03	3.9	1150
	SDBD6 S+	284	219	118								1/10	0.03	4.2	1200
	SDBD6 S+	295	234	146								1/10	0.03	4.6	1250
	SDBD6 S+	307	249	170								1/10	0.03	5.0	1300
	SDBD6 S+	319	264	191								1/10	0.03	5.4	1350
	SDBD6 S+	331	278	210								1/10	0.04	5.8	1400
	SDBD6 S+	343	293	229	131							1/10	0.04	6.2	1450
	SDBD6 S+	354	307	246	162							1/10	0.04	6.6	1500
	SDBD6 S+	366	320	263	188							1/10	0.05	7.0	1550
	SDBD6 S+	378	334	279	211							1/10	0.05	7.4	1600
SDBD6 *	390	347	295	232	134						1/10	0.05	7.9	1650	
8	SDBD812 S+	409	238								1/25	0.02	2.5	750	
	SDBD812 S+	464	325								1/25	0.03	3.3	850	
	SDBD812 S+	518	399	216							1/25	0.03	4.1	950	
	SDBD812*	573	468	326							1/25	0.04	4.9	1050	
	SDBD810 S+	627	535	417	249							1/10	0.05	5.9	1150
	SDBD810 S+	682	599	496	362	183						1/10	0.07	6.8	1250
	SDBD810 S+	736	661	569	460	314						1/10	0.08	7.8	1350
	SDBD810 S+	791	721	638	545	425	276					1/10	0.10	8.9	1450
	SDBD810 S+	818	751	672	584	476	340	170				1/10	0.11	9.4	1500
	SDBD810*	845	781	705	622	523	398	251				1/10	0.12	10.0	1550
SDBD8167*	954	897	836	764	688	600	494	371	233		1/4	0.16	12.1	1750	
10	SDBD1 025 S+	808	640	403							1/4	0.06	4.9	900	
	SDBD1025 S+	897	750	559	299						1/4	0.07	5.9	1000	
	SDBD1025 S+	987	856	696	489						1/4	0.09	6.8	1100	
	SDBD1025 S+	1077	958	821	648	438					1/4	0.12	7.9	1200	
	SDBD1025 S+	1167	1058	936	790	615	405				1/4	0.15	9.0	1300	
	SDBD1025 S+	1256	1156	1046	920	769	597	390			1/4	0.18	10.2	1400	
	SDBD1025 S+	1346	1253	1152	1042	910	762	594	393		1/4	0.22	11.5	1500	
	SDBD1025 S+	1391	1301	1204	1099	977	838	682	504	279	1/4	0.25	12.1	1550	
	SDBD1025 *	1436	1348	1256	1155	1041	910	766	604	412	1/4	0.27	12.8	1600	
SDBD1033 S+	1481	1396	1307	1211	1104	981	845	695	524	1/3	0.29	13.5	1650		
SDBD1033 *	1526	1443	1358	1265	1165	1048	921	781	625	1/3	0.32	14.2	1700		
12	SDBD1 216 S+	1209	959	708	456						1/4	0.08	6.5	900	
	SDBD1216 S+	1277	1042	797	570						1/4	0.09	7.1	950	
	SDBD1216 S+	1344	1123	884	674	423					1/4	0.10	7.6	1000	
	SDBD1216 S+	1411	1202	970	771	553					1/4	0.12	8.2	1050	
	SDBD1216 S+	1478	1280	1057	863	665	419				1/4	0.14	8.9	1100	
	SDBD1216 *	1545	1356	1144	952	769	558				1/4	0.15	9.6	1150	
	SDBD1250 S+	1613	1432	1231	1040	866	678	442			1/2	0.17	10.2	1200	
	SDBD1250 S+	1680	1506	1317	1126	960	786	587			1/2	0.20	11.0	1250	
	SDBD1250 S+	1747	1580	1401	1212	1050	888	710	491		1/2	0.22	11.7	1300	
	SDBD1250 S+	1814	1653	1484	1299	1139	984	821	633	376	1/2	0.24	12.5	1350	
	SDBD1250 S+	1881	1726	1565	1387	1226	1077	924	757	556	1/2	0.27	13.2	1400	
	SDBD1250 S+	1949	1798	1645	1474	1312	1168	1023	869	695	1/2	0.30	14.0	1450	
	SDBD1250 S+	2016	1870	1723	1560	1398	1257	1118	974	817	1/2	0.33	14.8	1500	
	SDBD1250 S+	2083	1942	1801	1645	1484	1344	1210	1073	929	1/2	0.36	15.6	1550	
SDBD1250 S+	2150	2013	1878	1729	1572	1430	1300	1170	1034	1/2	0.40	16.4	1600		
SDBD1250 S+	2217	2084	1954	1812	1660	1516	1389	1263	1134	1/2	0.44	17.3	1650		
SDBD1250 S+	2284	2155	2029	1893	1747	1602	1476	1354	1231	1/2	0.48	18.2	1700		
SDBD1250 *	2352	2226	2104	1973	1832	1689	1562	1443	1324	1/2	0.52	18.9	1750		
15	SDBD1550 S+	1958	1599	1212	759						1/2	0.14	6.9	750	
	SDBD1550 S+	2089	1756	1395	989	512					1/2	0.16	7.7	800	
	SDBD1550 S+	2219	1907	1567	1203	795					1/2	0.19	8.4	850	
	SDBD1550 S+	2350	2055	1736	1411	1035	608				1/2	0.23	9.3	900	
	SDBD1550 S+	2481	2202	1902	1602	1256	887				1/2	0.27	10.2	950	
	SDBD1550 S+	2611	2347	2066	1779	1468	1130	752			1/2	0.31	11.1	1000	
	SDBD1550 S+	2742	2493	2228	1950	1672	1352	1019	621		1/2	0.36	12.1	1050	
	SDBD1550 S+	2872	2636	2386	2119	1860	1564	1258	923	494	1/2	0.41	13.2	1100	
	SDBD1550 *	3003	2779	2540	2285	2038	1774	1480	1180	840	1/2	0.46	14.2	1150	

Units with C and CL in model number include choke plate for low flow models. Units with S in model number require speed control. Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings include the effects of the bird screen in the airstream. 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 fan sone levels. The sound ratings shown are at 0" static pressure.

* Base Unit - AMCA Seal for Sound Rating does not apply to units with speed control. AMCA sound rating is for units when tested at max. RPM.

+ RPM range capable with solid state speed control.

† Speed (RPM) shown is nominal. Performance is based on actual speed of the test.