



THE NEW YORK BLOWER COMPANY
7660 Quincy Street
Willowbrook, IL 60527-5530

Visit us on the Web: <http://www.nyb.com>
Phone: (800) 208-7918 Email: nyb@nyb.com

ENGINEERING SUPPLEMENT
ES-752
June 2007

HOODED ROOF VENTILATORS
MODEL NYPSD-F DIRECT-DRIVE/FILTERED SUPPLY



DESIGN FEATURES

- **Sizes** - from 24" to 60" in diameter.
- **Airflows** - 2750 to 45,950 CFM, up to 3/4" SP.
- **Filters** - two-inch thick, permanent, cleanable filters. Easily mounted into the filter rack at job site. Designed to handle velocities to 650 FPM to 120°F. maximum temperature.
- **Construction** - similar features as Models NYPEB/NYPED /NYPSE/NYPSD. See page 2 of Hooded and Upblast Roof Ventilator, Bulletin 741, for a list of features.

9-PART SIZING NOMENCLATURE								
EXAMPLE								
NY	P	S	D	C	24	H	11	F
↓	↓	↓	↓	↓	↓	↓	↓	↓
New		Supply	Direct-	Supply	Fan	Horse-	Fan	
York			drive		Size	power	RPM	
Blower								Filtered
	Model							

DIMENSIONS Not to be used for construction unless certified

Item #*	Fan Size	Dimensions [inches]						Net Sq. Ft. Filter Area
		A	B	C	D	E	F	
1-5	24	57	35 3/8	38	20 1/4	28 3/8	12 1/2	13.2
6-10	24	67	40 1/4	38	20 1/4	28 3/8	17 1/2	21.3
11,12	30	67	40 1/4	44	20 1/4	34 3/8	14 1/2	18.4
13-20	30	78	43 1/2	44	20 1/4	34 3/8	20	29.0
21,23,24	36	78	43 1/2	50	20 1/4	40 3/8	17	25.6
22,25-33	36	88	45 5/8	50	20 1/4	40 3/8	22	36.7
34,35,37,38	42	88	45 5/8	56	20 1/4	46 3/8	19	32.8
36,39-45	42	98	49 7/8	56	20 1/4	46 3/8	24	45.3
46-49	48	98	52 5/8	62	23 1/8	52 3/8	21	40.9
50-55	48	109	57 1/4	62	23 1/8	52 3/8	26 1/2	56.3
56,57	54	109	57 3/8	68	23 1/8	58 3/8	23 1/2	51.3
58-62	54	127 7/8	45 7/8	68	23 1/4	58 3/8	32 7/8	81.8
63,64	60	127 7/8	45 7/8	77	23 1/4	64 3/8	29 7/8	76.4
65,66	60	139 1/2	54 5/8	77	23 1/4	64 3/8	35 3/4	97.3

Tolerance ± 1/8"

* Numbers are inclusive and identify model for which dimensions apply.
 Dimension B is overall height above curb.
 Dimension C is inside curb-cap flange.
 Dimension D is distance from curb to hood.
 Dimension E is damper net length and width, flanges add 1 11/16 inches on all sides.
 Dimension F is distance of filter overhang.

any has a policy of continuous product development
change designs and specifications without notice.

MODEL NYPSD-F DIRECT DRIVE/FILTERED SUPPLY - performance rating

Item #	Fan		CFM							Motor HP	Max. BHP	Sones at 0" SP	Fan RPM	Wheel		Approx. shpg. wt. #	
	Size	Model	0"SP	1/8"SP	1/4"SP	3/8"SP	1/2"SP	5/8"SP	3/4"SP					No. blades	Pitch		
1	24	NYPSDC24G8F	4834	3990	2724						1/4	0.29	14.5	870	3	27.5	400
2		NYPSDC24J8F	5926	5292	4419	2979					1/2	0.58	17.8	870	6	30.5	410
3		NYPSDC24H11F	4969	4453	3738	2752					1/3	0.37	19.7	1160	3	15.5	400
4		NYPSDC24J11F	6013	5423	4764	3934					1/2	0.58	22	1160	3	23	405
5		NYPSDC24K11F	6457	6056	5581	4990	4155	3262			3/4	0.86	27	1160	6	22.5	410
6		NYPSDC24L11F	7672	7255	6751	6173	5393	4130			1	1.13	28	1160	6	27	431
7		NYPSDC24L17F	7404	7062	6711	6212	5721	5180	4495		1	1.13	37	1750	3	14	420
8		NYPSDC24M17F	8870	8484	8045	7605	7158	6675	6112		1 1/2	1.70	43	1750	3	19.5	425
9		NYPSDC24N17F	10219	9794	9346	8885	8415	7929	7398		2	2.26	48	1750	3	26.5	431
10		NYPSDC24P17F	11109	10837	10538	10219	9894	9561	9208		3	3.49	53	1750	6	25	461
11	30	NYPSDC30J8F	8144	7002	5403						1/2	0.56	20	870	3	22	560
12		NYPSDC30K8F	9146	8435	7523	6311					3/4	0.85	22	870	6	19	550
13		NYPSDC30L8F	10756	9983	9122	7955	5797				1	1.15	23	870	6	23.5	590
14		NYPSDC30K11F	9343	8478	7539	6420					3/4	0.84	29	1160	3	14.5	545
15		NYPSDC30L11F	10828	9899	9002	7928	6218				1	1.14	32	1160	3	19.5	560
16		NYPSDC30M11F	12400	11445	10489	9396	7744				1 1/2	1.70	34	1160	3	26	590
17		NYPSDC30N11F	13425	12880	12324	11727	11023	10134	8948		2	2.32	37	1160	6	21	605
18		NYPSDC30N17F	12781	12170	11599	11009	10394	9733	8943		2	2.24	57	1750	3	12	555
19		NYPSDC30P17F	15142	14595	14058	13465	12824	12160	11447		3	3.39	60	1750	3	17	580
20		NYPSDC30Q17F	18528	17898	17263	16644	16028	15391	14700		5	5.67	69	1750	3	25.5	595
21	36	NYPSDC36L6F	13094	11647	9875						1	1.13	25	680	6	23.5	685
22		NYPSDC36M6F	15885	14050	11642						1 1/2	1.66	28	680	6	30	745
23		NYPSDC36K8F	11428	9810	8304						3/4	0.86	27	870	3	15.5	645
24		NYPSDC36L8F	12888	11194	9253	6573					1	1.14	30	870	3	20	675
25		NYPSDC36M8F	15721	13759	11741						1 1/2	1.71	33	870	3	28	695
26		NYPSDC36N8F	17139	15711	13867	11240					2	2.27	38	870	4	28.5	745
27		NYPSDC36M11F	14502	13242	12092	10818	9285				1 1/2	1.70	41	1160	3	12.5	690
28		NYPSDC36N11F	16862	15569	14143	12727	11451	9366			2	2.29	48	1160	3	17.5	695
29		NYPSDC36P11F	19642	18271	16930	15307	13597	11313			3	3.40	55	1160	3	24	745
30		NYPSDC36Q11F	23526	22520	21620	20700	19733	18704	17548		5	5.65	66	1160	6	23.5	765
31		NYPSDC36Q17F	20590	19843	19111	18388	17665	16931	16176		5	5.79	84	1750	3	11	695
32		NYPSDC36R17F	24852	24053	23268	22496	21732	20972	20212		7 1/2	8.52	94	1750	3	16.5	745
33		NYPSDC36S17F	28269	27422	26538	25634	24729	23833	22946		10	11.20	103	1750	3	20.5	765
34	42	NYPSDC42L6F	14470	12097	9170						1	1.13	29	680	3	18.5	805
35		NYPSDC42M6F	16106	14181	12251	8078					1 1/2	1.68	31	680	4	21.5	855
36		NYPSDC42N6F	18682	17275	15729	13831					2	2.29	39	680	6	21.5	895
37		NYPSDC42L8F	13728	12030	10018	7579					1	1.14	36	870	3	8	795
38		NYPSDC42M8F	16117	14411	12547	10074					1 1/2	1.67	40	870	3	13	805
39		NYPSDC42N8F	18954	17054	14977	12627					2	2.26	44	870	3	17.5	875
40		NYPSDC42P8F	21753	19642	17280	14937	11931				3	3.38	55	870	3	25	895
41		NYPSDC42N11F	17454	16117	14721	13298	11688	9409			2	2.29	57	1160	3	6	825
42		NYPSDC42P11F	20884	19636	18361	16956	15276	13271	11088		3	3.43	66	1160	3	11	875
43		NYPSDC42Q11F	25555	24148	22682	21139	19503	17738	15707		5	5.50	76	1160	3	18	895
44		NYPSDC42R17F	27405	26575	25696	24783	23832	22853	21859		7 1/2	8.57	129	1750	3	7	875
45		NYPSDC42S17F	31012	30205	29399	28583	27744	26869	25943		10	11.35	143	1750	3	10.5	895
46	48	NYPSDC48L6F	15157	12601	9688						1	1.11	30	680	3	8.5	1045
47		NYPSDC48M6F	17753	15714	13389	10294					1 1/2	1.70	37	680	4	11	1085
48		NYPSDC48N6F	19268	17311	15144	12303					2	2.17	36	680	4	15	1110
49		NYPSDC48N8F	19075	17058	15098	12775	9748				2	2.22	46	870	3	8	1085
50		NYPSDC48P8F	23488	21414	19236	16772	13857				3	3.32	51	870	3	13.5	1120
51		NYPSDC48Q8F	27420	25538	23537	21539	19515	17065			5	5.33	60	870	4	17.5	1165
52		NYPSDC48R8F	31822	30364	28989	27586	26034	24255	22219		7 1/2	8.46	76	870	6	20.5	1195
53		NYPSDC48Q11F	27127	25581	23927	22271	20664	18941	16886		5	5.52	80	1160	3	8.5	1120
54		NYPSDC48R11F	32199	30617	29017	27401	25730	23917	21859		7 1/2	8.38	90	1160	3	14.5	1155
55		NYPSDC48S11F	35246	33663	31879	29786	27577	25503	23471		10	11.04	96	1160	3	19	1195
56	54	NYPSDC54M6F	21309	18349	14648						1 1/2	1.65	39	680	3	8	1240
57		NYPSDC54N6F	23553	20675	17275						2	2.22	43	680	3	12	1260
58		NYPSDC54P8F	26883	24629	21951	19120	15746				3	3.31	61	870	3	7.5	1275
59		NYPSDC54Q8F	34841	31996	28362	26081	23050				5	5.37	73	870	3	14	1325
60		NYPSDC54R8F	40322	36117	32558	29896	26692	21078			7 1/2	8.36	88	870	3	22	1355
61		NYPSDC54R11F	38779	36866	35098	33203	30994	28551	26086		7 1/2	8.25	105	1160	3	8	1315
62		NYPSDC54S11F	44008	41670	39175	37189	35483	33737	31526		10	11.15	117	1160	3	12	1345
63	60	NYPSDC60N6F	26357	22572	18805						2	2.28	49	680	3	6	1460
64		NYPSDC60Q8F	35721	33249	30282	26703	23651	18631			5	5.63	80	870	3	8	1500
65		NYPSDC60R8F	42646	40010	36846	32254	27836	22808			7 1/2	8.43	90	870	3	14	1555
66		NYPSDC60S11F	45968	44233	42315	39638	36516	34312	32323		10	11.35	137	1160	3	6	1555

● Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings include the effects of filters in the airstream. Power rating [BHP] does not include drive losses.

● An adjustable-pitch propeller with cast-aluminum airfoil blades is standard.

● 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 Outlet fan sone levels. The sound ratings shown are at 0" static pressure.

● BHP at most static pressures listed is less than that shown. Motor loading beyond the nominal nameplate rating does not overheat the motor and is within NEMA-recommended limits and motor service factor due to the moving airstream.

The ratings shown are based on tests and procedures performed in accordance with AMCA 210 for air performance and AMCA 300 for sound.