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## ENGINEERING SUPPLEMENT

ES-753

June 2007

### HOODED ROOF VENTILATORS MODEL NYPSB-F BELT-DRIVE/FILTERED SUPPLY

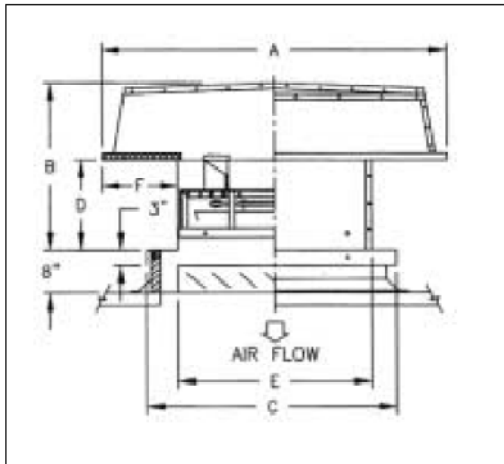


#### DESIGN FEATURES

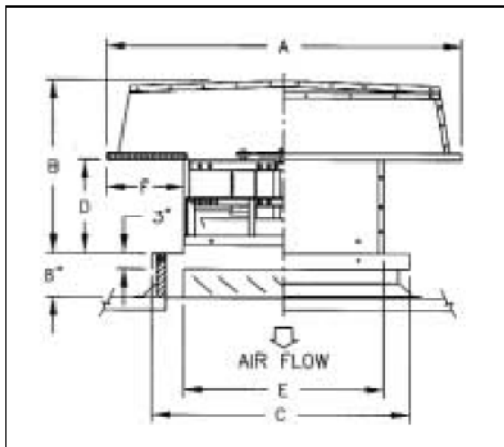
- **Eight sizes** - from 24" to 72" in diameter.
- **Airflows** - 3400 to 49,700 CFM, up to 3/4" SP.
- **Filters** - two-inch thick, permanent, cleanable filters. Easily mounted into the filter rack at job site. Designed to handle velocities to 650 FPM to 120°F. maximum temperature.
- **Construction** - similar features as Models NYPEB/NYPED/NYPSB/NYPSD. See page 2 of Hooded and Upblast Roof Ventilator, Bulletin 741, for a list of features.

#### 8-PART SIZING NOMENCLATURE

EXAMPLE							
<b>NY</b>	<b>P</b>	<b>S</b>	<b>B</b>	<b>H</b>	<b>24</b>	<b>H</b>	<b>F</b>
New York Blower	Model	Supply	Belt- drive	Style	Fan Size	Horse- power	Filtered



Model NYPSBH-F



Model NYPSBC-F

#### 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	
1-3	24	57	35 <sup>3</sup> / <sub>8</sub>	38	20 <sup>1</sup> / <sub>4</sub>	28 <sup>3</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub>	13.2
4,5	24	67	40 <sup>1</sup> / <sub>4</sub>	38	20 <sup>1</sup> / <sub>4</sub>	28 <sup>3</sup> / <sub>8</sub>	17 <sup>1</sup> / <sub>2</sub>	21.3
6-8	30	67	40 <sup>1</sup> / <sub>4</sub>	44	20 <sup>1</sup> / <sub>4</sub>	34 <sup>3</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>2</sub>	18.4
9-12	30	78	43 <sup>1</sup> / <sub>2</sub>	44	20 <sup>1</sup> / <sub>4</sub>	34 <sup>3</sup> / <sub>8</sub>	20	29
13-15	36	78	43 <sup>1</sup> / <sub>2</sub>	50	20 <sup>1</sup> / <sub>4</sub>	40 <sup>3</sup> / <sub>8</sub>	17	25.6
16-19	36	88	45 <sup>5</sup> / <sub>8</sub>	50	20 <sup>1</sup> / <sub>4</sub>	40 <sup>3</sup> / <sub>8</sub>	22	36.7
20-22	42	88	45 <sup>5</sup> / <sub>8</sub>	56	20 <sup>1</sup> / <sub>4</sub>	46 <sup>3</sup> / <sub>8</sub>	19	32.8
23-25	42	98	49 <sup>7</sup> / <sub>8</sub>	56	20 <sup>1</sup> / <sub>4</sub>	46 <sup>3</sup> / <sub>8</sub>	24	45.3
26-29	48	98	52 <sup>5</sup> / <sub>8</sub>	62	23 <sup>1</sup> / <sub>8</sub>	52 <sup>3</sup> / <sub>8</sub>	21	40.9
30-33	48	109	57 <sup>1</sup> / <sub>4</sub>	62	23 <sup>1</sup> / <sub>8</sub>	52 <sup>3</sup> / <sub>8</sub>	26 <sup>1</sup> / <sub>2</sub>	56.3
34,35	54	109	57 <sup>3</sup> / <sub>8</sub>	68	23 <sup>1</sup> / <sub>8</sub>	58 <sup>3</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>2</sub>	51.3
36-38	54	127 <sup>7</sup> / <sub>8</sub>	45 <sup>7</sup> / <sub>8</sub>	68	23 <sup>1</sup> / <sub>4</sub>	58 <sup>3</sup> / <sub>8</sub>	32 <sup>7</sup> / <sub>8</sub>	81.8
39-41	60	127 <sup>7</sup> / <sub>8</sub>	45 <sup>7</sup> / <sub>8</sub>	77	23 <sup>1</sup> / <sub>4</sub>	64 <sup>3</sup> / <sub>8</sub>	29 <sup>7</sup> / <sub>8</sub>	76.4
42,43	60	139 <sup>1</sup> / <sub>2</sub>	54 <sup>5</sup> / <sub>8</sub>	77	23 <sup>1</sup> / <sub>4</sub>	64 <sup>3</sup> / <sub>8</sub>	35 <sup>3</sup> / <sub>4</sub>	97.3
44	72	127 <sup>7</sup> / <sub>8</sub>	56 <sup>3</sup> / <sub>8</sub>	89	33 <sup>1</sup> / <sub>2</sub>	80 <sup>3</sup> / <sub>4</sub>	23 <sup>3</sup> / <sub>4</sub>	64.1
45,46	72	139 <sup>1</sup> / <sub>2</sub>	65 <sup>1</sup> / <sub>4</sub>	89	33 <sup>1</sup> / <sub>2</sub>	80 <sup>3</sup> / <sub>4</sub>	29 <sup>1</sup> / <sub>2</sub>	84.9

\* Numbers are inclusive and identify each 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 111/16 inches on all sides.

Dimension F is distance of filter overhang.

**MODEL NYPSB-F BELT DRIVE/FILTERED SUPPLY - performance ratings**

Item #	Fan		CFM							Motor HP	Max. BHP	Sones at 0" SP	Fan RPM	Apprx. shpg. wt. #	
	Size	Model	0" SP	1/8" SP	1/4" SP	3/8" SP	1/2" SP	5/8" SP	3/4" SP						
1	24	NYPSBH24HF	5478	4618	3384						1/3	0.45	19.7	733	355
2		NYPSBH24JF	6061	5290	4385						1/2	0.62	24	811	360
3		NYPSBH24KF	6928	6274	5545	4550					3/4	0.91	32	927	375
4		NYPSBH24LF*	7966	7621	6896	6145	5117				1	1.25	37	1027	390
5		NYPSBH24MF*	8338	8011	7370	6643	5817	4521			1 1/2	1.44	39	1075	410
6	30	NYPSBH30HF	7056	5320							1/3	0.44	14.2	545	455
7		NYPSBH30JF	8195	6773	5257						1/2	0.70	19.9	633	460
8		NYPSBH30KF	9102	7856	6419	4983					3/4	0.96	23	703	480
9		NYPSBH30LF	10745	9847	8439	6940	5385				1	1.31	27	780	495
10		NYPSBH30MF	12026	11275	10108	8704	7496	6048			1 1/2	1.84	33	873	525
11		NYPSBH30NF	13197	12536	11550	10387	9077	8033	6673		2	2.43	40	958	530
12		NYPSBH30PF	15374	14824	14129	13180	12179	11017	10053		3	3.85	58	1116	560
13	36	NYPSBH36HF	8637	5524							1/3	0.42	12.7	396	547
14		NYPSBH36JF	9662	6971							1/2	0.59	15.9	443	553
15		NYPSBH36KF	11189	8867	5980						3/4	0.90	20	513	553
16		NYPSBH36LF	13367	11383	8859						1	1.27	24	572	595
17		NYPSBH36MF	14886	13240	10925	8302					1 1/2	1.73	28	637	625
18		NYPSBH36NF	16382	14959	12858	10865					2	2.34	33	701	630
19		NYPSBH36PF	18648	17453	15774	13924	12154	9574			3	3.45	43	798	660
20	42	NYPSBH42JF	11981	8861							1/2	0.64	19.2	381	706
21		NYPSBH42KF	13648	11005	7350						3/4	0.94	23	434	711
22		NYPSBH42LF	15126	12791	9931						1	1.29	28	481	733
23		NYPSBH42MF	17781	15773	13217	9952					1 1/2	1.76	34	535	777
24		NYPSBH42NF	19642	17886	15687	13109					2	2.38	43	591	785
25		NYPSBH42PF	22368	20892	19049	16993	14661	11512			3	3.52	57	673	815
26	48	NYPSBH48KF	16021	11558							3/4	0.92	21	345	965
27		NYPSBH48LF	17739	13704	9377						1	1.25	25	382	920
28		NYPSBH48MF	19921	16388	12763						1 1/2	1.77	30	429	977
29		NYPSBH48NF	21733	18569	15169	11496					2	2.31	35	468	980
30		NYPSBH48PF	26428	24000	20481	17196	13661				3	3.47	45	536	1040
31		NYPSBC48QF	29743	27950	25717	22805	19994	16017			5	5.56	66	940	1240
32		NYPSBC48RF	34173	32640	30893	28638	26117	23941	19863		7 1/2	8.44	85	1080	1295
33		NYPSBC48SF	37654	36275	34758	32979	30662	28506	26544		10	11.29	103	1190	1345
34	54	NYPSBC54NF	23687	19805	14265						2	2.22	41	584	1320
35		NYPSBC54PF	27094	23809	19601	13582					3	3.33	51	668	1365
36		NYPSBC54QF	35431	32178	28853	24895	19692				5	5.61	70	793	1395
37		NYPSBC54RF	40570	37757	34846	31888	28223	23769			7 1/2	8.43	95	908	1355
38		NYPSBC54SF	44502	41963	39294	36656	33816	30222			10	11.12	114	996	1385
39	60	NYPSBC60NF	27843	23155	16296						2	2.28	42	549	1460
40		NYPSBC60PF	31900	27995	22503	16112					3	3.43	52	629	1485
41		NYPSBC60QF	37783	34470	30666	25723	20291				5	5.69	69	745	1515
42		NYPSBC60RF	44965	42017	38880	35072	30381	25573			7 1/2	8.56	89	853	1580
43		NYPSBC60SF	49498	46865	43982	41060	36980	32828	28434		10	11.42	110	939	1615
44		72	NYPSBC72NF	34018	28954	18543						2	2.18	26	308
45	NYPSBC72PF		41875	36930	31965	17715					3	3.32	33	354	1869
46	NYPSBC72QF		49682	45522	41486	36840	24597				5	5.52	44	420	1884

\* These models have fixed-pitch motor pulley.

- 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.
- On Style H, die-formed steel blades are standard. On Style C, 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 Inlet 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 Standard 210 for air performance and AMCA Standard 300 for sound.**

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