

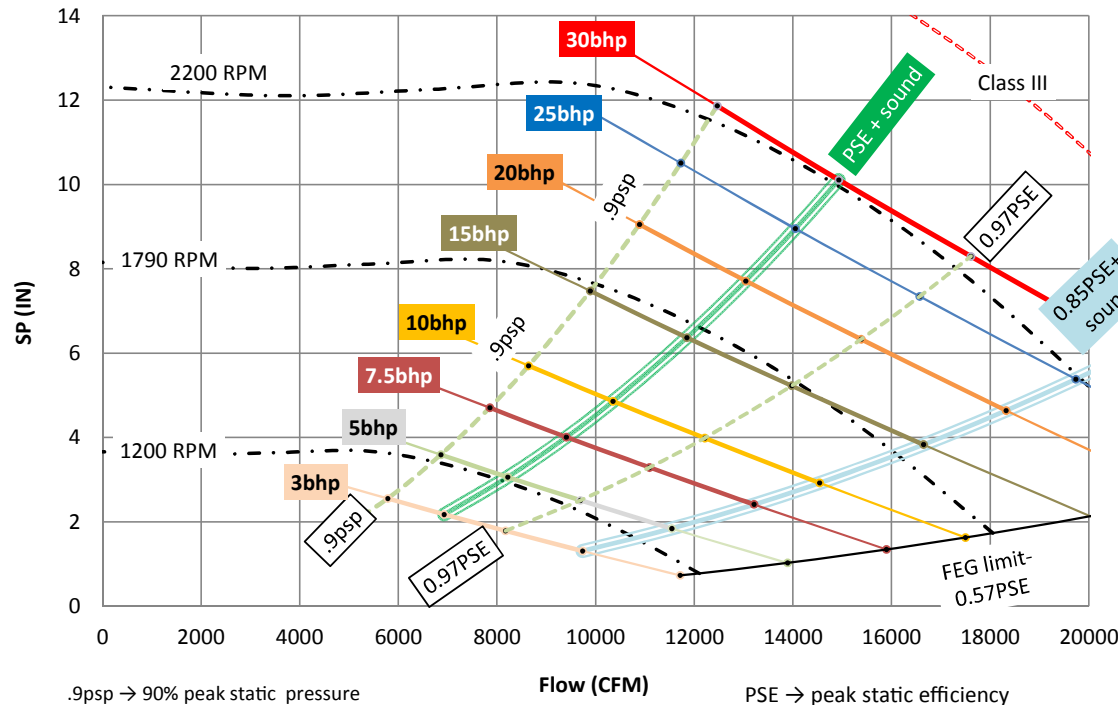
Model 686q1000

AcoustiFLO

Technologically Advanced
Air Handling Systems

US Patent 7,001,140

US Patent 7,357,621



	62.5	125	250	500	1000	2000	4000	8000	hz	62.5	125	250	500	1000	2000	4000	8000
rpm	outlet sound power, Lwo @ PSE									inlet sound power, Lwi @ PSE							
1200	81	82	84	77	75	70	67	62	1200	81	83	87	76	74	74	71	68
1790	87	84	94	86	85	80	77	74	1790	85	84	98	84	83	82	80	78
2200	91	89	93	92	87	88	86	81	2200	88	87	99	93	89	87	87	85
rpm	outlet sound power, Lwo @ 0.85PSE									inlet sound power, Lwi @ 0.85PSE							
1200	81	83	85	77	75	71	67	61	1200	83	85	89	78	75	76	72	67
1790	88	85	96	87	85	80	79	73	1790	87	86	98	84	84	84	83	79
2200	93	91	96	93	90	88	87	80	2200	90	89	100	95	90	88	89	84

Sound power levels shown include a general purpose, NEMA Premium®, 4 pole, 30hp, TEFC motor operating on a VFD

.9psp → 90% peak static pressure				PSE → peak static efficiency			
Static Efficiency = 77.6%				Static Efficiency = 79.1%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
5,786	2.56	1,035	3.0	6,930	2.18	1,026	3.0
6,860	3.59	1,228	5.0	8,216	3.06	1,217	5.0
7,852	4.71	1,405	7.5	9,405	4.01	1,393	7.5
8,643	5.70	1,547	10.0	10,351	4.86	1,533	10.0
9,893	7.47	1,771	15.0	11,849	6.37	1,755	15.0
10,889	9.05	1,949	20.0	13,042	7.71	1,931	20.0
11,730	10.51	2,099	25.0	14,049	8.95	2,080	25.0
				14,929	10.11	2,211	30.0

0.97PSE- (3% below PSE)				0.85PSE- (15% below PSE)			
Static Efficiency = 76.6%				Static Efficiency = 66.9%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
8,174	1.79	1,039	3.0	9,736	1.31	1,081	3.0
9,691	2.51	1,232	5.0	11,544	1.84	1,282	5.0
11,094	3.29	1,410	7.5	13,214	2.41	1,468	7.5
12,210	3.99	1,552	10.0	14,544	2.92	1,615	10.0
13,977	5.23	1,777	15.0	16,649	3.83	1,849	15.0
15,384	6.33	1,956	20.0	18,325	4.64	2,035	20.0
16,572	7.35	2,107	25.0	19,740	5.39	2,192	25.0
17,611	8.30	2,239	30.0	20,976	6.08	2,330	30.0



outlet



Inlet

Outlet Area = 4.7 sq. ft.



AcoustiFLO LLC certifies that the series 686q is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the Certified Ratings Program. Performance and sound is certified for Installation Type A: Free inlet, Free outlet.

Sound power levels shown are in decibels, referenced to 10^{-12} watts, calculated per AMCA International Standard 301

Ratings do not include the effects of duct end correction.

Power ratings (BHP) exclude bearing and transmission losses.

Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

Performance ratings do not include the effects of appurtenances (accessories).

FEG85



Series 686q March 2014

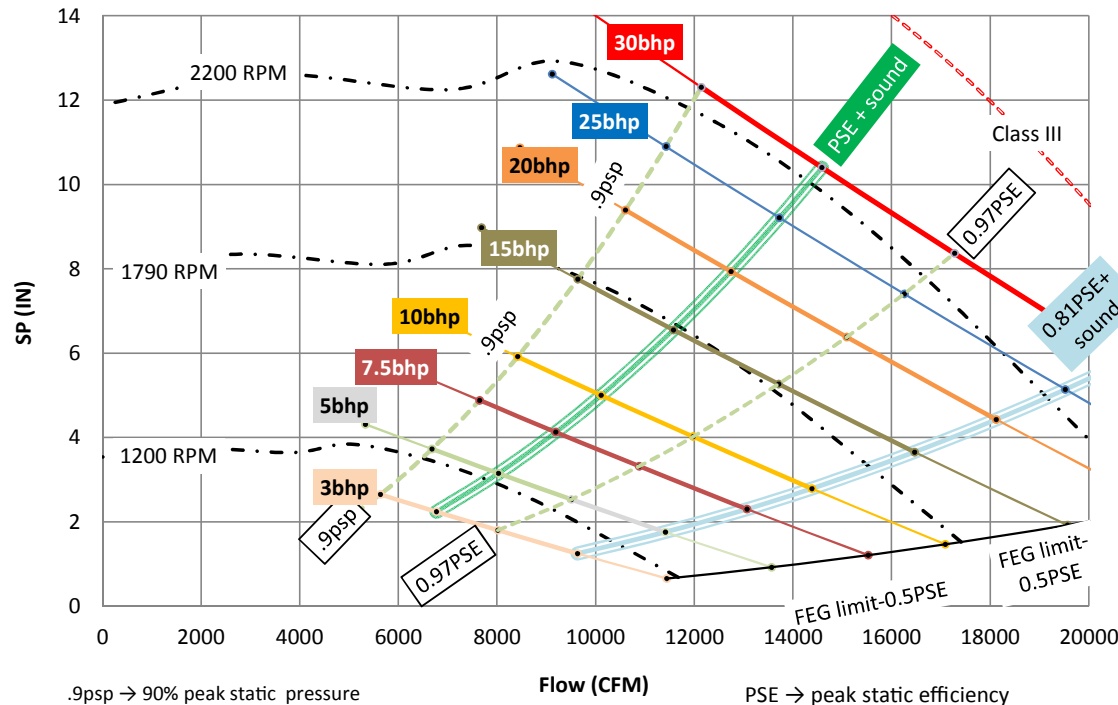
Model 686q1002

AcoustiFLO

Technologically Advanced
Air Handling Systems

US Patent 7,001,140

US Patent 7,357,621



	62.5	125	250	500	1000	2000	4000	8000
rpm	outlet sound power, Lwo @ PSE							
1790	87	87	91	86	84	80	78	73
rpm	outlet sound power, Lwo @ 0.81PSE							
1790	89	87	94	87	84	81	80	74

Sound power levels shown include a general purpose, NEMA Premium®, 4 pole, 30hp, TEFC motor operating on a VFD

.9psp → 90% peak static pressure				PSE → peak static efficiency			
Static Efficiency = 78.4%				Static Efficiency = 79.6%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
5,636	2.65	1,043	3.0	6,771	2.24	1,039	3.0
6,682	3.73	1,236	5.0	8,028	3.15	1,232	5.0
7,649	4.88	1,415	7.5	9,190	4.13	1,410	7.5
8,418	5.92	1,557	10.0	10,115	5.00	1,552	10.0
9,637	7.75	1,783	15.0	11,578	6.55	1,776	15.0
10,606	9.39	1,962	20.0	12,744	7.94	1,955	20.0
11,425	10.90	2,114	25.0	13,728	9.21	2,106	25.0
				14,588	10.40	2,238	30.0

0.97PSE- (4.8% below PSE)				0.81PSE- (21% below PSE)			
Static Efficiency = 75.8%				Static Efficiency = 63.2%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
8,019	1.80	1,058	3.0	9,630	1.25	1,106	3.0
9,508	2.53	1,254	5.0	11,418	1.76	1,311	5.0
10,884	3.32	1,436	7.5	13,071	2.30	1,501	7.5
11,979	4.02	1,580	10.0	14,386	2.79	1,652	10.0
13,713	5.27	1,809	15.0	16,468	3.66	1,891	15.0
15,093	6.38	1,991	20.0	18,125	4.43	2,082	20.0
16,258	7.41	2,145	25.0	19,525	5.14	2,242	25.0
17,277	8.37	2,279	30.0	20,748	5.80	2,383	30.0



Outlet Area = 4.7 sq. ft.



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Sound power levels shown are in decibels, referenced to 10^{-12} watts, calculated per AMCA International Standard 301

Ratings do not include the effects of duct end correction.

Power ratings (BHP) exclude bearing and transmission losses.

Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

Performance ratings include the effects of exit guide vanes (index setting 2).

FEG85



Series 686q March 2014

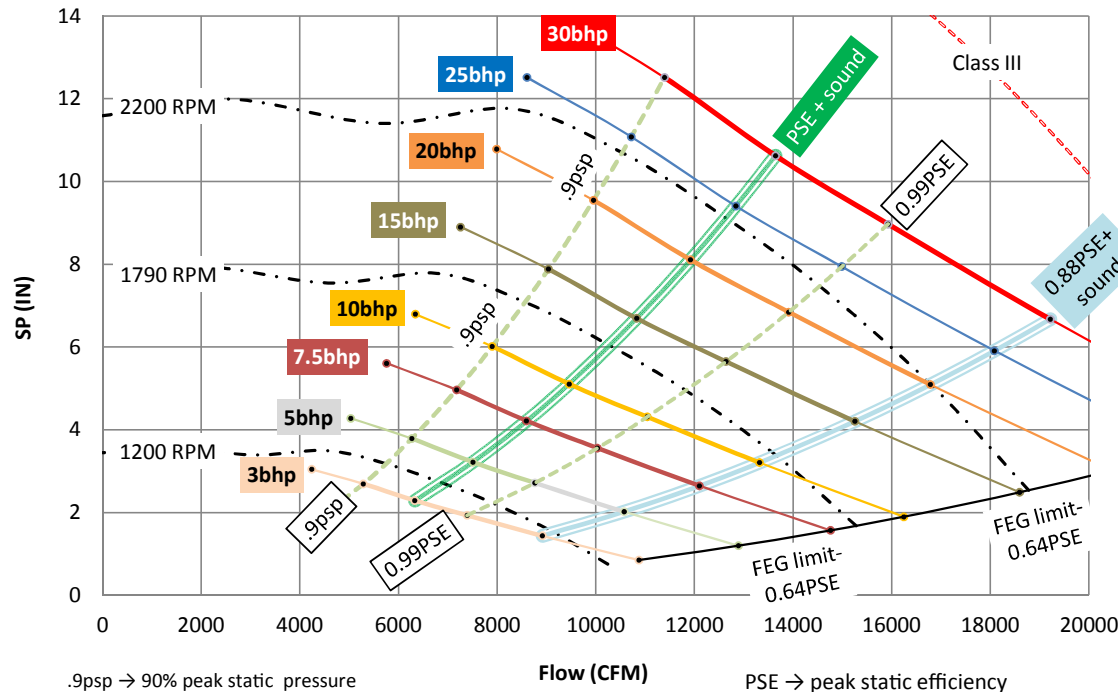
Model 686q1800

AcoustiFLO

Technologically Advanced
Air Handling Systems

US Patent 7,001,140

US Patent 7,357,621



	62.5	125	250	500	1000	2000	4000	8000	hz	62.5	125	250	500	1000	2000	4000	8000
rpm	outlet sound power, Lwo @ PSE									inlet sound power, Lwi @ PSE							
1200	76	77	79	75	72	68	64	58	1200	70	83	86	72	69	69	66	62
1790	82	80	90	84	88	80	76	70	1790	82	75	97	81	79	80	79	75
2200	90	86	93	93	85	90	83	77	2200	88	82	97	89	85	84	87	82
rpm	outlet sound power, Lwo @ 0.88PSE									inlet sound power, Lwi @ 0.88PSE							
1200	76	77	78	75	72	71	64	57	1200	71	84	87	74	70	74	68	62
1790	83	82	90	84	88	81	83	70	1790	81	76	99	83	80	81	86	75
2200	88	86	93	91	85	88	86	77	2200	89	82	98	90	83	85	91	82

Sound power levels shown include a general purpose, NEMA Premium®, 4 pole, 30hp, TEFC motor operating on a VFD

.9psp → 90% peak static pressure				PSE → peak static efficiency			
Static Efficiency = 74.8%				Static Efficiency = 76%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
5,289	2.70	1,104	3.0	6,334	2.29	1,102	3.0
6,271	3.79	1,309	5.0	7,509	3.22	1,307	5.0
7,178	4.96	1,499	7.5	8,596	4.22	1,496	7.5
7,901	6.01	1,650	10.0	9,461	5.11	1,647	10.0
9,044	7.88	1,888	15.0	10,830	6.69	1,885	15.0
9,954	9.55	2,078	20.0	11,920	8.11	2,075	20.0
10,723	11.08	2,239	25.0	12,841	9.41	2,235	25.0
				13,645	10.62	2,375	30.0
0.99PSE- (1% below PSE)				0.88PSE- (12% below PSE)			
Static Efficiency = 74.9%				Static Efficiency = 67.2%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
7,394	1.93	1,119	3.0	8,920	1.44	1,168	3.0
8,766	2.72	1,326	5.0	10,576	2.02	1,385	5.0
10,035	3.56	1,518	7.5	12,107	2.65	1,586	7.5
11,045	4.31	1,671	10.0	13,325	3.21	1,745	10.0
12,643	5.65	1,913	15.0	15,254	4.20	1,998	15.0
13,916	6.85	2,106	20.0	16,789	5.09	2,199	20.0
14,990	7.94	2,268	25.0	18,085	5.91	2,369	25.0
15,929	8.97	2,410	30.0	19,219	6.67	2,517	30.0



outlet



Inlet

Outlet Area = 4.7 sq. ft.



AcoustiFLO LLC certifies that the series 686q is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the Certified Ratings Program. Performance and sound is certified for Installation Type A: Free inlet, Free outlet.

Sound power levels shown are in decibels, referenced to 10⁻¹² watts, calculated per AMCA International Standard 301

Ratings do not include the effects of duct end correction.

Power ratings (BHP) exclude bearing and transmission losses.

Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

Performance ratings do not include the effects of appurtenances (accessories).

FEG80



Series 686q March 2014

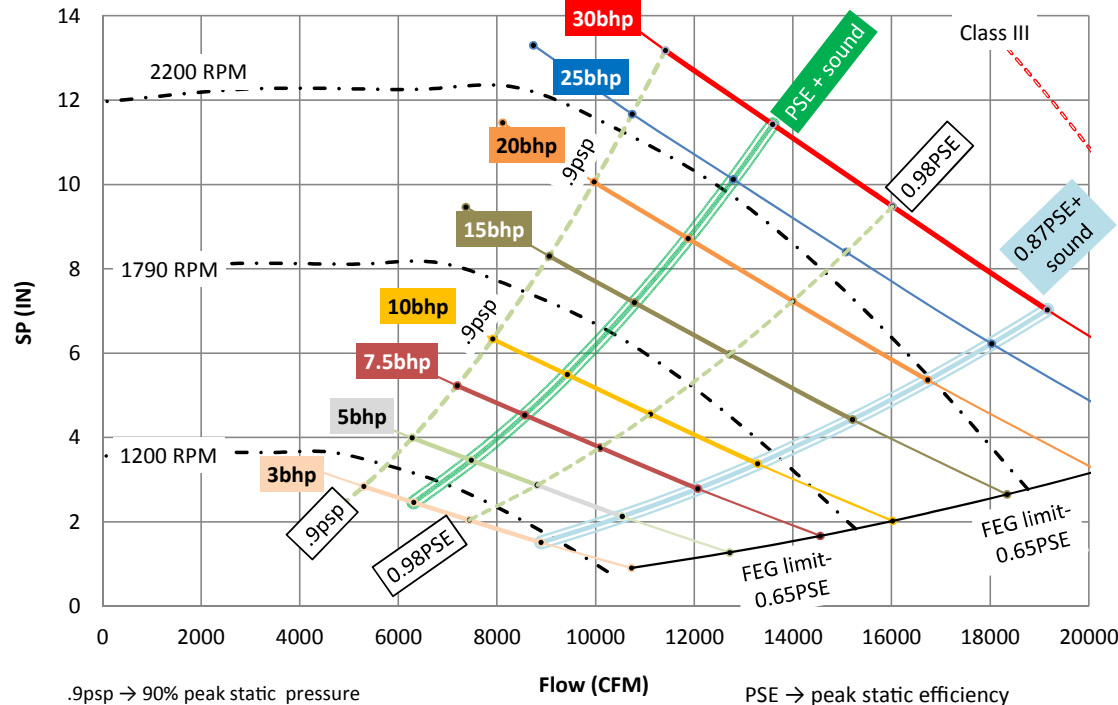
Model 686q1802

AcoustiFLO

Technologically Advanced
Air Handling Systems

US Patent 7,001,140

US Patent 7,357,621



	62.5	125	250	500	1000	2000	4000	8000
rpm	outlet sound power, Lwo @ PSE							
1790	83	80	87	84	87	80	78	71
rpm	outlet sound power, Lwo @ 0.87PSE							
1790	85	81	88	85	87	81	84	70

Sound power levels shown include a general purpose, NEMA Premium®, 4 pole, 30hp, TEFC motor operating on a VFD

.9psp → 90% peak static pressure Static Efficiency = 78.9%				PSE → peak static efficiency Static Efficiency = 81.5%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
5,298	2.84	1,105	3.0	6,309	2.46	1,100	3.0
6,281	3.99	1,310	5.0	7,480	3.46	1,304	5.0
7,190	5.23	1,500	7.5	8,562	4.54	1,493	7.5
7,914	6.34	1,651	10.0	9,424	5.49	1,643	10.0
9,059	8.30	1,890	15.0	10,787	7.20	1,880	15.0
9,971	10.06	2,080	20.0	11,873	8.72	2,070	20.0
10,741	11.67	2,241	25.0	12,790	10.12	2,230	25.0
				13,591	11.43	2,369	30.0

0.98PSE- (2.2% below PSE) Static Efficiency = 79.7%				0.87PSE- (13% below PSE) Static Efficiency = 70.6%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
7,437	2.04	1,117	3.0	8,893	1.51	1,165	3.0
8,818	2.87	1,324	5.0	10,544	2.13	1,381	5.0
10,094	3.76	1,516	7.5	12,070	2.79	1,581	7.5
11,110	4.56	1,669	10.0	13,284	3.38	1,740	10.0
12,718	5.97	1,910	15.0	15,207	4.43	1,992	15.0
13,998	7.24	2,102	20.0	16,737	5.36	2,193	20.0
15,078	8.40	2,265	25.0	18,029	6.22	2,362	25.0
16,023	9.48	2,407	30.0	19,159	7.03	2,510	30.0



Outlet Area = 4.7 sq. ft.



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Sound power levels shown are in decibels, referenced to 10^{-12} watts, calculated per AMCA International Standard 301

Ratings do not include the effects of duct end correction.

Power ratings (BHP) exclude bearing and transmission losses.

Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

Performance ratings include the effects of exit guide vanes (index setting 2).

FEG85



Series 686q March 2014

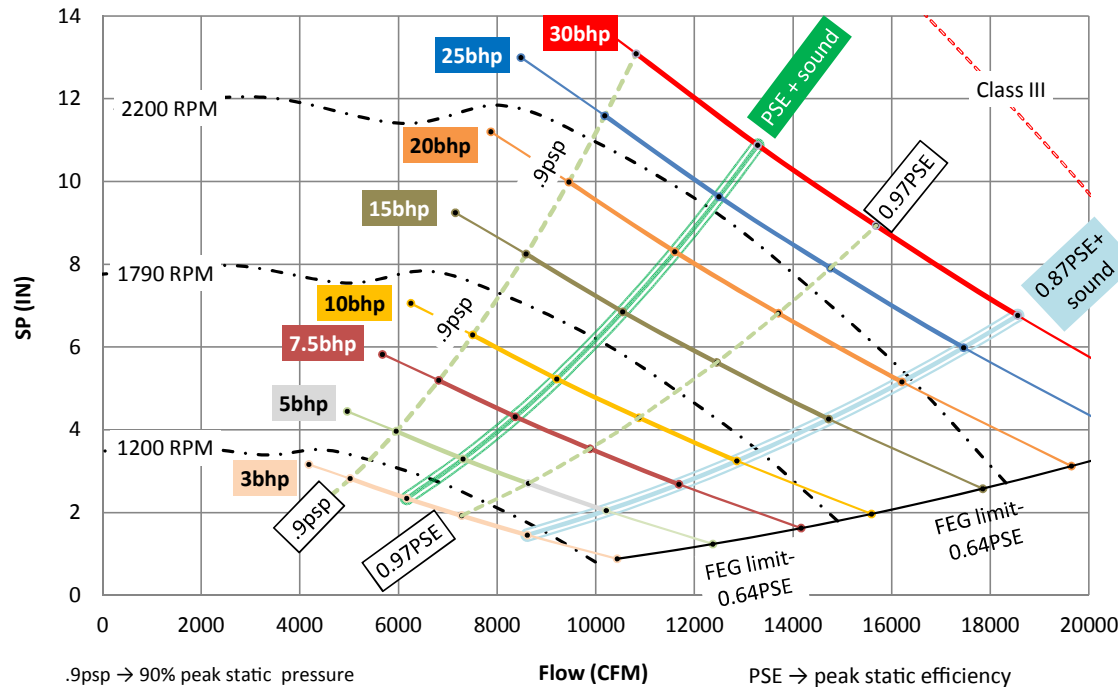
Model 686q1810

AcoustiFLO

Technologically Advanced
Air Handling Systems

US Patent 7,001,140

US Patent 7,357,621



.9psp → 90% peak static pressure				PSE → peak static efficiency			
Static Efficiency = 74.3%				Static Efficiency = 75.8%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
5,023	2.82	1,114	3.0	6,167	2.34	1,101	3.0
5,956	3.96	1,321	5.0	7,311	3.29	1,306	5.0
6,818	5.19	1,512	7.5	8,369	4.32	1,495	7.5
7,504	6.29	1,664	10.0	9,212	5.23	1,645	10.0
8,590	8.24	1,905	15.0	10,545	6.85	1,883	15.0
9,455	9.99	2,096	20.0	11,606	8.30	2,073	20.0
10,185	11.59	2,258	25.0	12,502	9.63	2,233	25.0
				13,285	10.88	2,373	30.0

0.97PSE- (3% below PSE)				0.87PSE- (13% below PSE)			
Static Efficiency = 73.5%				Static Efficiency = 65.8%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
7,281	1.92	1,118	3.0	8,613	1.46	1,158	3.0
8,633	2.71	1,326	5.0	10,211	2.05	1,373	5.0
9,882	3.55	1,518	7.5	11,689	2.68	1,572	7.5
10,877	4.30	1,670	10.0	12,865	3.25	1,730	10.0
12,451	5.63	1,912	15.0	14,727	4.26	1,980	15.0
13,704	6.82	2,105	20.0	16,209	5.16	2,179	20.0
14,762	7.91	2,267	25.0	17,461	5.99	2,348	25.0
15,687	8.93	2,409	30.0	18,555	6.76	2,495	30.0



outlet



Inlet w/IS

Outlet Area = 4.7 sq. ft.

rpm	62.5	125	250	500	1000	2000	4000	8000	hz	62.5	125	250	500	1000	2000	4000	8000
1200	77	78	80	75	73	68	64	58	1200	71	74	76	63	62	62	60	57
1790	86	82	92	84	88	80	77	70	1790	81	71	86	72	73	75	75	70
2200	89	86	91	92	85	89	83	78	2200	85	74	89	78	78	78	81	76
1200	77	79	82	75	73	69	64	58	1200	72	75	77	65	63	66	61	58
1790	88	83	93	84	88	81	83	70	1790	82	72	86	72	74	76	80	71
2200	88	87	94	91	86	88	87	77	2200	88	75	90	79	79	79	86	77

Sound power levels shown include a general purpose, NEMA Premium®, 4 pole, 30hp, TEFC motor operating on a VFD



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Sound power levels shown are in decibels, referenced to 10⁻¹² watts, calculated per AMCA International Standard 301

Ratings do not include the effects of duct end correction.

Power ratings (BHP) exclude bearing and transmission losses.

Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

Performance ratings include the effects of an inlet silencer.

FEG80



Series 686q March 2014

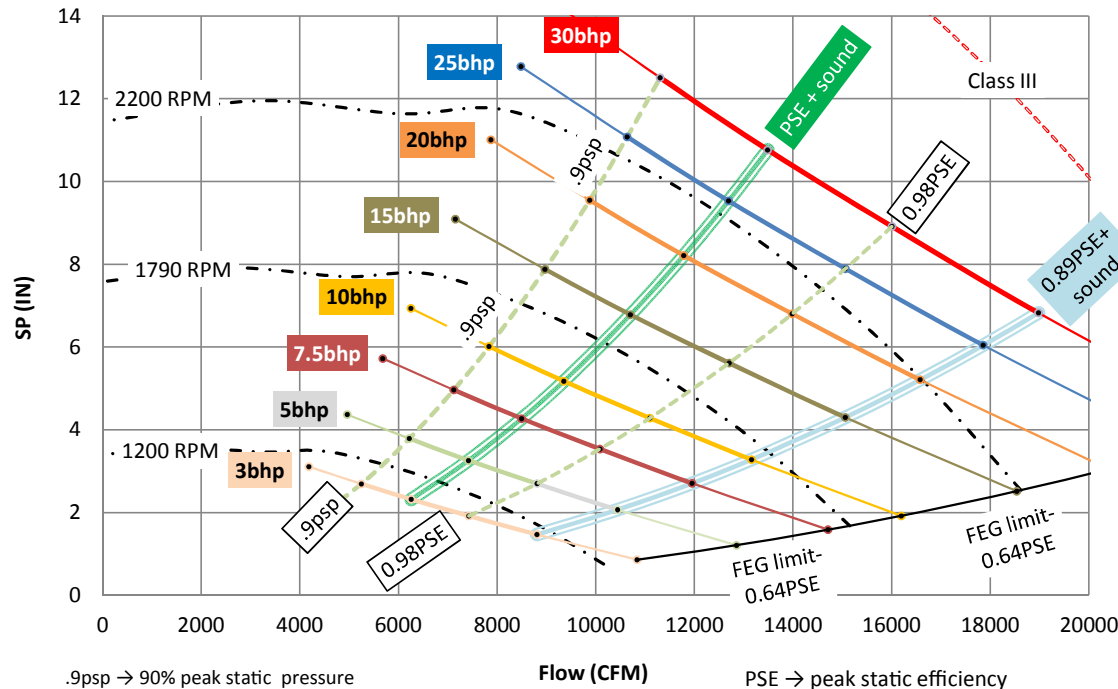
Model 686q1820

AcoustiFLO

Technologically Advanced
Air Handling Systems

US Patent 7,001,140

US Patent 7,357,621



.9psp → 90% peak static pressure				PSE → peak static efficiency			
Static Efficiency = 74.2%				Static Efficiency = 76.1%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
5,248	2.70	1,107	3.0	6,261	2.32	1,102	3.0
6,222	3.79	1,312	5.0	7,423	3.26	1,307	5.0
7,122	4.96	1,502	7.5	8,497	4.27	1,496	7.5
7,839	6.01	1,654	10.0	9,352	5.17	1,647	10.0
8,973	7.88	1,893	15.0	10,706	6.78	1,885	15.0
9,876	9.55	2,083	20.0	11,783	8.21	2,075	20.0
10,639	11.08	2,244	25.0	12,693	9.53	2,235	25.0
				13,488	10.76	2,375	30.0

0.98PSE- (2% below PSE)				0.89PSE- (11% below PSE)			
Static Efficiency = 74.8%				Static Efficiency = 67.9%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
7,430	1.92	1,121	3.0	8,809	1.47	1,167	3.0
8,810	2.70	1,329	5.0	10,444	2.07	1,384	5.0
10,085	3.54	1,522	7.5	11,955	2.71	1,584	7.5
11,100	4.29	1,675	10.0	13,159	3.28	1,743	10.0
12,706	5.62	1,917	15.0	15,063	4.30	1,996	15.0
13,985	6.80	2,110	20.0	16,579	5.21	2,196	20.0
15,065	7.89	2,273	25.0	17,859	6.04	2,366	25.0
16,008	8.91	2,415	30.0	18,978	6.82	2,514	30.0



outlet

Inlet w/FC



Outlet Area = 4.7 sq. ft.

	62.5	125	250	500	1000	2000	4000	8000	hz	62.5	125	250	500	1000	2000	4000	8000
rpm	outlet sound power, Lwo @ PSE									inlet sound power, Lwi @ PSE							
1200	74	76	78	75	73	69	64	58	1200	70	77	80	69	69	68	65	61
1790	83	80	88	83	85	79	76	70	1790	79	76	89	81	79	80	79	74
2200	91	85	89	91	84	90	83	78	2200	87	79	83	83	84	83	87	82
rpm	outlet sound power, Lwo @ 0.89PSE									inlet sound power, Lwi @ 0.89PSE							
1200	76	75	77	75	72	70	64	57	1200	72	79	81	70	70	72	66	61
1790	84	81	88	83	86	80	83	70	1790	81	77	92	84	80	81	85	75
2200	88	85	91	90	85	89	86	77	2200	85	81	85	85	85	85	91	82

Sound power levels shown include a general purpose, NEMA Premium®, 4 pole, 30hp, TEFC motor operating on a VFD



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Sound power levels shown are in decibels, referenced to 10⁻¹² watts, calculated per AMCA International Standard 301

Ratings do not include the effects of duct end correction.

Power ratings (BHP) exclude bearing and transmission losses.

Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

Performance ratings include the effects of an inlet flow concentrator.

FEG80



Series 686q March 2014

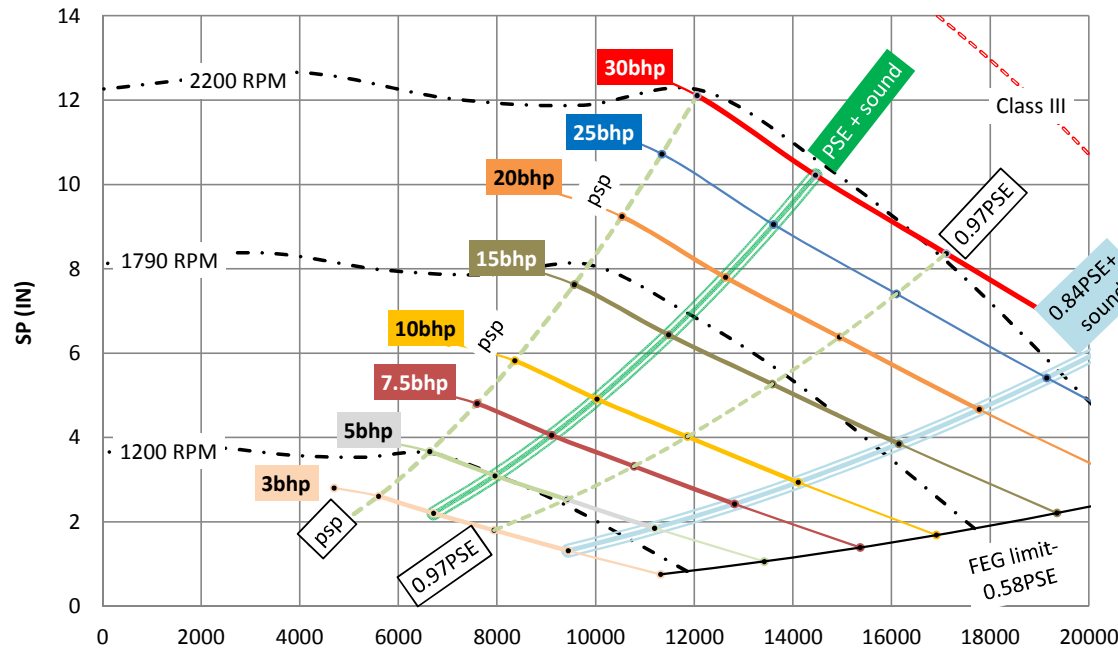
Model 686q2000

AcoustiFLO

Technologically Advanced
Air Handling Systems

US Patent 7,001,140

US Patent 7,357,621



psp → peak static pressure

Flow (CFM)

PSE → peak static efficiency

62.5 125 250 500 1000 2000 4000 8000 hz 62.5 125 250 500 1000 2000 4000 8000

rpm	outlet sound power, Lwo @ PSE								rpm	inlet sound power, Lwi @ PSE							
1200	81	76	83	75	75	69	65	59	1200	74	73	90	73	71	70	67	63
1790	91	84	88	87	86	80	77	71	1790	83	81	88	87	82	81	79	77
2200	94	89	88	96	87	87	86	79	2200	87	85	89	94	89	86	86	83
rpm	outlet sound power, Lwo @ 0.84PSE								rpm	inlet sound power, Lwi @ 0.84PSE							
1200	83	79	86	76	75	73	65	59	1200	76	76	92	75	73	76	68	62
1790	95	87	89	89	86	82	82	72	1790	87	85	89	89	84	83	86	76
2200	97	93	90	98	89	87	90	79	2200	92	88	91	96	91	89	93	84

Sound power levels shown include a general purpose, NEMA Premium®, 4 pole, 30hp, TEFC motor operating on a VFD



outlet



Inlet

Outlet Area = 4.7 sq. ft.



AcoustiFLO LLC certifies that the series 686q is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the Certified Ratings Program. Performance and sound is certified for Installation Type A: Free inlet, Free outlet.

Sound power levels shown are in decibels, referenced to 10^{-12} watts, calculated per AMCA International Standard 301

Ratings do not include the effects of duct end correction.

Power ratings (BHP) exclude bearing and transmission losses.

Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

Performance ratings do not include the effects of appurtenances (accessories).

FEG85



Series 686q March 2014

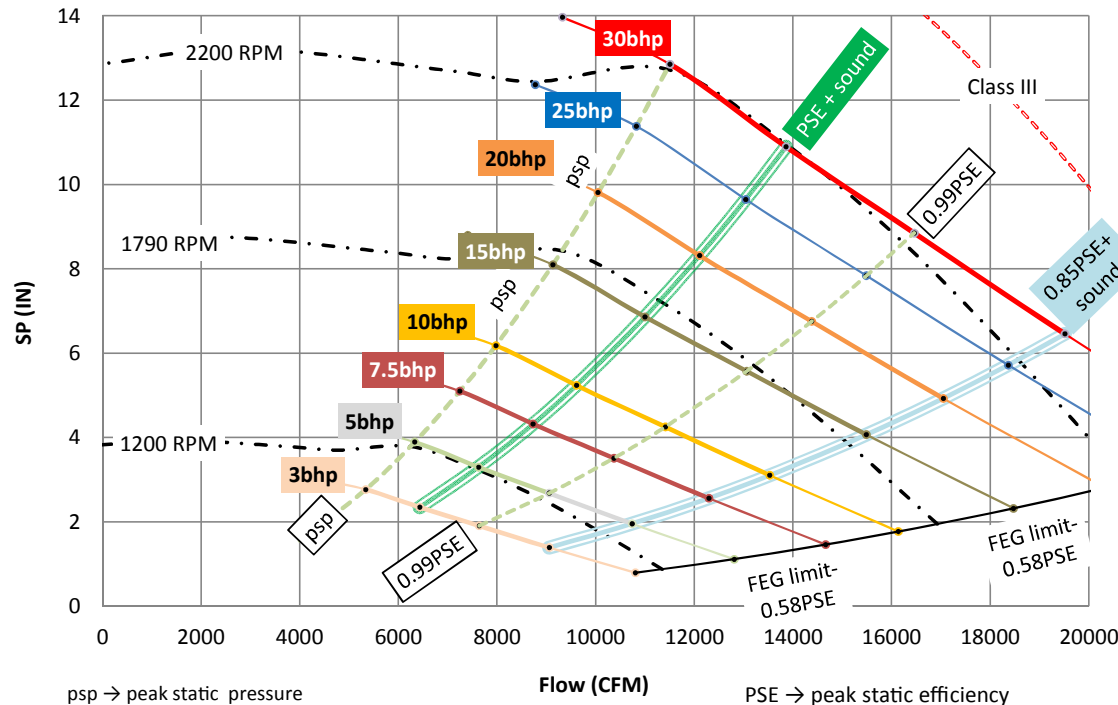
Model 686q2002

AcoustiFLO

Technologically Advanced
Air Handling Systems

US Patent 7,001,140

US Patent 7,357,621



rpm							
outlet sound power, Lwo @ PSE							
1790	89	87	88	88	85	82	79
1790	89	86	87	88	84	81	73

Sound power levels shown include a general purpose, NEMA Premium®, 4 pole, 30hp, TEFC motor operating on a VFD

psp → peak static pressure				PSE → peak static efficiency			
Static Efficiency = 77.5%				Static Efficiency = 79.2%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
5,340	2.77	1,026	3.0	6,434	2.35	1,019	3.0
6,331	3.89	1,216	5.0	7,628	3.30	1,208	5.0
7,247	5.10	1,392	7.5	8,732	4.32	1,383	7.5
7,977	6.18	1,533	10.0	9,611	5.24	1,522	10.0
9,131	8.10	1,754	15.0	11,001	6.86	1,743	15.0
10,050	9.81	1,931	20.0	12,108	8.31	1,918	20.0
10,826	11.38	2,080	25.0	13,043	9.65	2,066	25.0
				13,861	10.89	2,196	30.0

0.99PSE- (3.5% below PSE)				0.85PSE- (17% below PSE)			
Static Efficiency = 76.4%				Static Efficiency = 66.1%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
7,641	1.91	1,035	3.0	9,059	1.39	1,073	3.0
9,059	2.68	1,227	5.0	10,741	1.96	1,273	5.0
10,370	3.51	1,405	7.5	12,295	2.56	1,457	7.5
11,414	4.25	1,546	10.0	13,532	3.10	1,603	10.0
13,066	5.57	1,770	15.0	15,491	4.07	1,835	15.0
14,381	6.75	1,948	20.0	17,050	4.93	2,020	20.0
15,491	7.84	2,098	25.0	18,366	5.72	2,176	25.0
16,462	8.85	2,230	30.0	19,517	6.46	2,312	30.0



Outlet Area = 4.7 sq. ft.



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Sound power levels shown are in decibels, referenced to 10^{-12} watts, calculated per AMCA International Standard 301

Ratings do not include the effects of duct end correction.

Power ratings (BHP) exclude bearing and transmission losses.

Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

Performance ratings include the effects of exit guide vanes (index setting 2).

FEG85



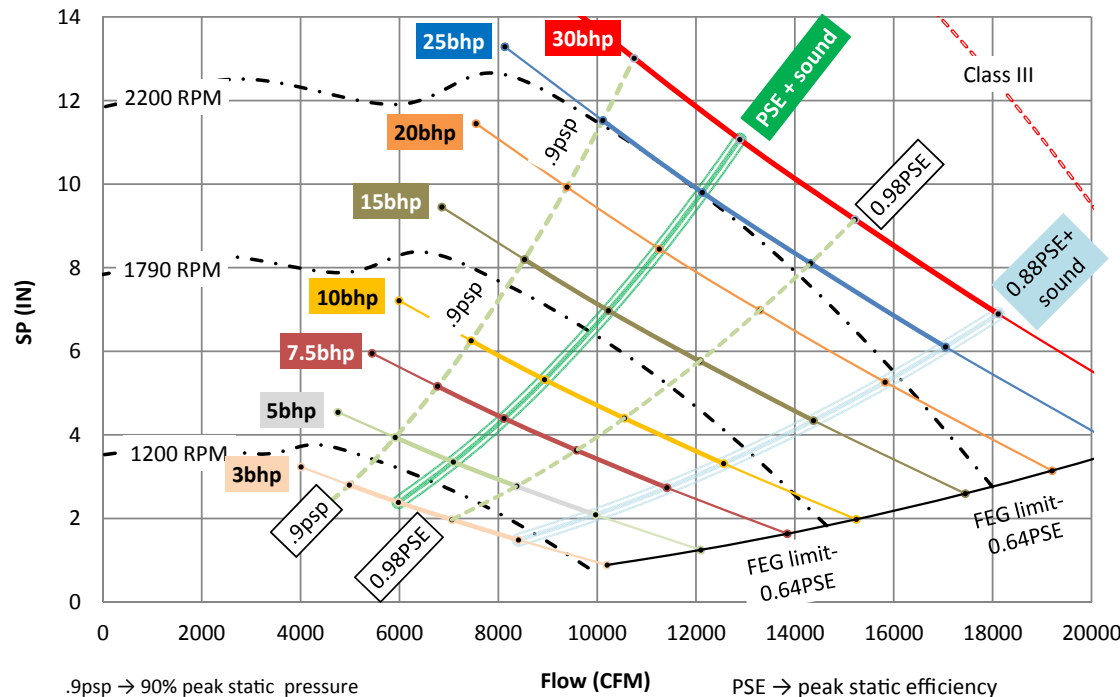
Series 686q March 2014

Model 686q2800

AcoustiFLO

Technologically Advanced
Air Handling Systems

US Patent 7,001,140
US Patent 7,357,621

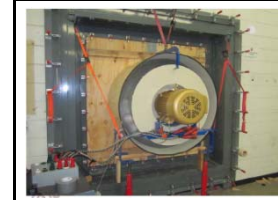


	62.5	125	250	500	1000	2000	4000	8000	hz	62.5	125	250	500	1000	2000	4000	8000
rpm	outlet sound power, Lwo @ PSE									inlet sound power, Lwi @ PSE							
1200	77	73	77	74	74	69	65	59	1200	73	67	85	71	71	71	69	65
1790	86	82	85	85	83	79	75	71	1790	87	76	86	85	81	81	80	78
2200	96	87	86	93	87	86	89	89	2200	94	88	91	95	88	86	87	88
rpm	outlet sound power, Lwo @ 0.88PSE									inlet sound power, Lwi @ 0.88PSE							
1200	78	75	78	74	74	70	67	59	1200	76	70	87	73	72	74	75	66
1790	90	85	86	86	83	80	79	71	1790	88	78	87	87	82	83	84	81
2200	97	88	87	95	88	86	89	88	2200	94	88	91	97	89	87	90	89

Sound power levels shown include a general purpose, NEMA Premium®, 4 pole, 30hp, TEFC motor operating on a VFD

.9psp → 90% peak static pressure				PSE → peak static efficiency			
Static Efficiency = 73.3%				Static Efficiency = 74.8%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
4,989	2.80	1,089	3.0	5,981	2.38	1,087	3.0
5,915	3.94	1,292	5.0	7,091	3.35	1,288	5.0
6,771	5.16	1,478	7.5	8,117	4.39	1,475	7.5
7,452	6.26	1,627	10.0	8,934	5.32	1,623	10.0
8,530	8.20	1,863	15.0	10,227	6.97	1,858	15.0
9,389	9.93	2,050	20.0	11,256	8.45	2,045	20.0
10,114	11.52	2,208	25.0	12,126	9.80	2,203	25.0
				12,885	11.07	2,341	30.0

0.98PSE- (2% below PSE)				0.88PSE- (12% below PSE)			
Static Efficiency = 73.1%				Static Efficiency = 65.5%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
7,063	1.97	1,104	3.0	8,408	1.49	1,151	3.0
8,374	2.77	1,309	5.0	9,969	2.09	1,365	5.0
9,585	3.63	1,499	7.5	11,411	2.74	1,562	7.5
10,550	4.40	1,649	10.0	12,560	3.31	1,720	10.0
12,077	5.77	1,888	15.0	14,377	4.34	1,969	15.0
13,292	6.99	2,078	20.0	15,824	5.26	2,167	20.0
14,319	8.11	2,238	25.0	17,046	6.11	2,334	25.0
15,216	9.15	2,379	30.0	18,114	6.89	2,480	30.0



outlet



Inlet

Outlet Area = 4.7 sq. ft.



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Sound power levels shown are in decibels, referenced to 10⁻¹² watts, calculated per AMCA International Standard 301

Ratings do not include the effects of duct end correction.

Power ratings (BHP) exclude bearing and transmission losses.

Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

Performance ratings do not include the effects of appurtenances (accessories).

FEG80



Series 686q March 2014

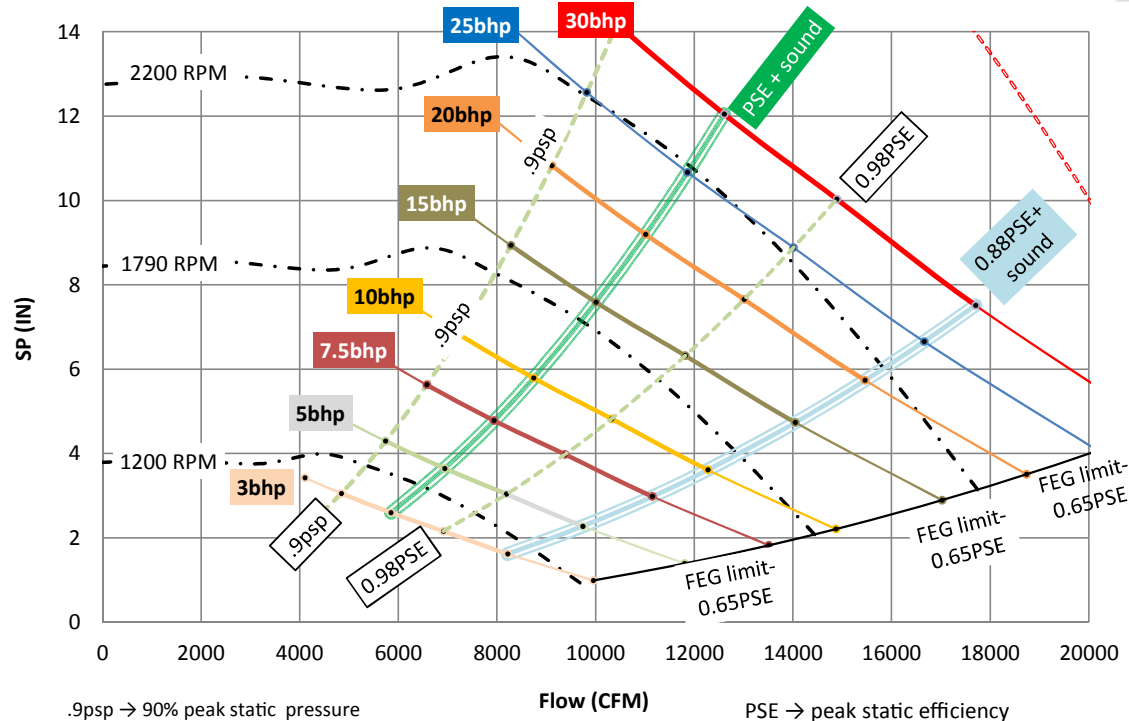
Model 686q2802

AcoustiFLO

Technologically Advanced
Air Handling Systems

US Patent 7,001,140

US Patent 7,357,621

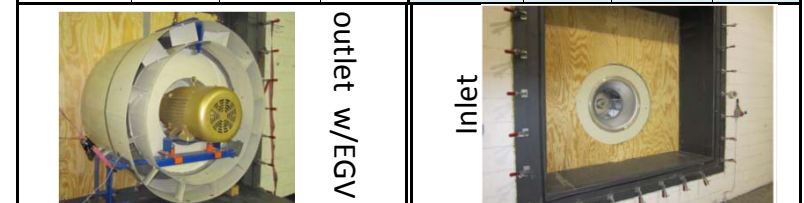


	62.5	125	250	500	1000	2000	4000	8000
rpm	outlet sound power, Lwo @ PSE							
1200	76	76	78	74	74	70	65	57
1790	85	85	85	86	86	79	75	69
2200	95	90	87	94	87	87	88	87
rpm	outlet sound power, Lwo @ 0.88PSE							
1200	79	77	78	74	73	70	67	58
1790	90	88	85	85	85	80	80	70
2200	97	91	87	94	88	87	90	86

Sound power levels shown include a general purpose, NEMA Premium®, 4 pole, 30hp, TEFC motor operating on a VFD

.9psp → 90% peak static pressure Static Efficiency = 73.7%				PSE → peak static efficiency Static Efficiency = 79.6%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
4,844	3.06	1,088	3.0	5,851	2.60	1,079	3.0
5,743	4.30	1,290	5.0	6,938	3.65	1,279	5.0
6,574	5.63	1,477	7.5	7,942	4.78	1,464	7.5
7,235	6.82	1,625	10.0	8,741	5.79	1,611	10.0
8,283	8.94	1,861	15.0	10,006	7.59	1,845	15.0
9,116	10.82	2,048	20.0	11,013	9.19	2,030	20.0
9,820	12.56	2,206	25.0	11,863	10.67	2,187	25.0
				12,606	12.05	2,324	30.0

0.98PSE- (2% below PSE) Static Efficiency = 78.3%				0.88PSE- (12% below PSE) Static Efficiency = 69.8%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
6,912	2.16	1,097	3.0	8,217	1.62	1,141	3.0
8,195	3.04	1,301	5.0	9,743	2.28	1,353	5.0
9,380	3.98	1,489	7.5	11,153	2.98	1,549	7.5
10,325	4.82	1,639	10.0	12,275	3.61	1,705	10.0
11,819	6.32	1,876	15.0	14,051	4.73	1,951	15.0
13,008	7.65	2,065	20.0	15,466	5.74	2,148	20.0
14,013	8.88	2,224	25.0	16,660	6.66	2,313	25.0
14,891	10.03	2,364	30.0	17,704	7.52	2,458	30.0



Outlet Area = 4.7 sq. ft.



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Sound power levels shown are in decibels, referenced to 10^{-12} watts, calculated per AMCA International Standard 301

Ratings do not include the effects of duct end correction.

Power ratings (BHP) exclude bearing and transmission losses.

Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

Performance ratings include the effects of exit guide vanes (index setting 2).

FEG85



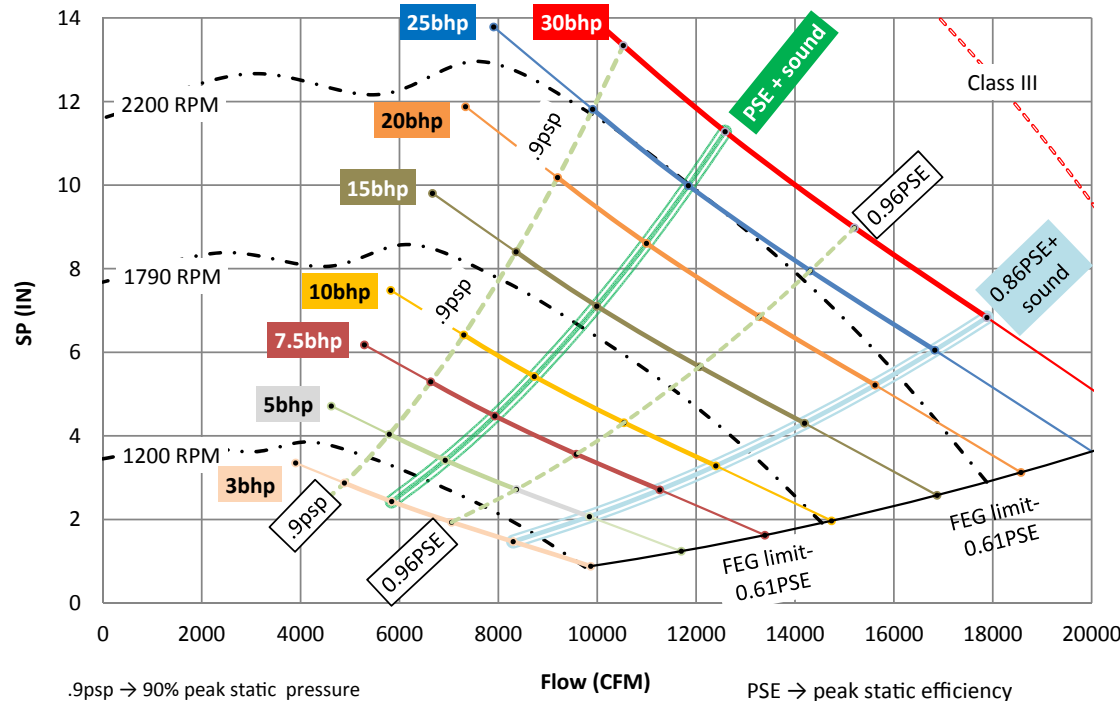
Series 686q March 2014

Model 686q2810

AcoustiFLO

Technologically Advanced
Air Handling Systems

US Patent 7,001,140
US Patent 7,357,621



	62.5	125	250	500	1000	2000	4000	8000	hz	62.5	125	250	500	1000	2000	4000	8000
rpm	outlet sound power, Lwo @ PSE									inlet sound power, Lwi @ PSE							
1200	76	72	78	74	74	69	65	59	1200	73	64	76	62	64	66	65	61
1790	88	81	85	85	85	80	77	73	1790	84	72	77	76	74	74	75	74
2200	93	86	86	92	87	86	87	87	2200	88	75	78	79	79	79	81	81
rpm	outlet sound power, Lwo @ 0.86PSE									inlet sound power, Lwi @ 0.86PSE							
1200	77	73	80	75	74	70	65	59	1200	74	65	78	63	65	68	66	61
1790	89	82	86	87	86	80	79	73	1790	87	72	78	78	75	76	79	74
2200	94	87	87	94	88	86	88	85	2200	89	76	78	80	81	81	84	80

Sound power levels shown include a general purpose, NEMA Premium®, 4 pole, 30hp, TEFC motor operating on a VFD

.9psp → 90% peak static pressure				PSE → peak static efficiency			
Static Efficiency = 73.7%				Static Efficiency = 74.5%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
4,887	2.87	1,090	3.0	5,842	2.43	1,084	3.0
5,795	4.04	1,292	5.0	6,927	3.42	1,285	5.0
6,633	5.29	1,479	7.5	7,929	4.48	1,471	7.5
7,301	6.41	1,628	10.0	8,727	5.42	1,619	10.0
8,357	8.41	1,863	15.0	9,990	7.11	1,853	15.0
9,199	10.18	2,051	20.0	10,996	8.61	2,039	20.0
9,909	11.82	2,209	25.0	11,845	9.99	2,197	25.0
				12,587	11.28	2,335	30.0

0.96PSE- (4% below PSE)				0.86PSE- (14% below PSE)			
Static Efficiency = 71.6%				Static Efficiency = 64.1%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
7,057	1.93	1,098	3.0	8,300	1.47	1,138	3.0
8,368	2.72	1,302	5.0	9,841	2.07	1,350	5.0
9,578	3.56	1,490	7.5	11,265	2.71	1,545	7.5
10,542	4.32	1,640	10.0	12,399	3.29	1,700	10.0
12,068	5.66	1,878	15.0	14,194	4.31	1,947	15.0
13,283	6.85	2,066	20.0	15,622	5.22	2,142	20.0
14,308	7.95	2,226	25.0	16,828	6.05	2,308	25.0
15,205	8.98	2,366	30.0	17,883	6.83	2,453	30.0



Outlet Area = 4.7 sq. ft.



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Sound power levels shown are in decibels, referenced to 10⁻¹² watts, calculated per AMCA International Standard 301

Ratings do not include the effects of duct end correction.

Power ratings (BHP) exclude bearing and transmission losses.

Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

Performance ratings include the effects of an inlet silencer.

FEG80



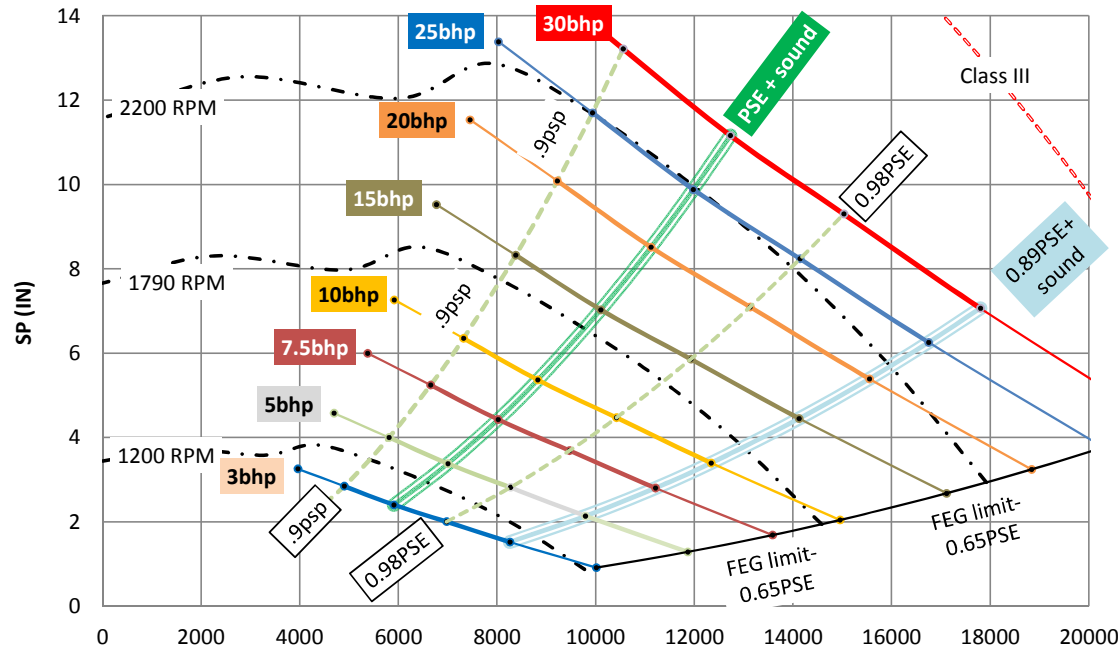
Series 686q March 2014

Model 686q2820

AcoustiFLO

Technologically Advanced
Air Handling Systems

US Patent 7,001,140
US Patent 7,357,621



.9psp → 90% peak static pressure

Flow (CFM)

PSE → peak static efficiency

62.5 125 250 500 1000 2000 4000 8000 hz 62.5 125 250 500 1000 2000 4000 8000

rpm	outlet sound power, Lwo @ PSE								inlet sound power, Lwi @ PSE							
1200	75	72	77	74	73	69	65	60	73	69	79	69	71	71	70	65
1790	86	81	84	85	85	80	77	75	84	77	78	77	79	79	78	77
2200	93	86	86	91	86	87	93	94	89	81	80	85	85	84	84	83
rpm	outlet sound power, Lwo @ 0.89PSE								inlet sound power, Lwi @ 0.89PSE							
1200	79	74	78	75	74	71	67	61	76	72	80	71	73	75	74	66
1790	90	83	86	86	84	80	80	75	90	81	81	80	81	82	83	82
2200	96	89	87	93	87	86	92	90	94	86	84	89	87	86	88	87

Sound power levels shown include a general purpose, NEMA Premium®, 4 pole, 30hp, TEFC motor operating on a VFD

.9psp → 90% peak static pressure				PSE → peak static efficiency			
Static Efficiency = 73.2%				Static Efficiency = 74.5%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
4,902	2.85	1,086	3.0	5,910	2.40	1,082	3.0
5,811	4.00	1,288	5.0	7,007	3.38	1,283	5.0
6,652	5.24	1,474	7.5	8,020	4.43	1,469	7.5
7,322	6.35	1,622	10.0	8,828	5.36	1,616	10.0
8,382	8.32	1,857	15.0	10,105	7.03	1,850	15.0
9,225	10.08	2,044	20.0	11,122	8.51	2,037	20.0
9,938	11.70	2,202	25.0	11,981	9.88	2,194	25.0
				12,732	11.16	2,331	30.0

0.98PSE- (2% below PSE)				0.89PSE- (11% below PSE)			
Static Efficiency = 73.3%				Static Efficiency = 66%			
CFM	SP	RPM	BHP	CFM	SP	RPM	BHP
6,978	2.00	1,098	3.0	8,263	1.52	1,138	3.0
8,273	2.82	1,302	5.0	9,796	2.14	1,349	5.0
9,470	3.69	1,491	7.5	11,214	2.80	1,544	7.5
10,423	4.47	1,641	10.0	12,343	3.40	1,700	10.0
11,932	5.86	1,878	15.0	14,129	4.45	1,946	15.0
13,132	7.10	2,067	20.0	15,551	5.39	2,141	20.0
14,146	8.24	2,227	25.0	16,751	6.26	2,307	25.0
15,033	9.30	2,366	30.0	17,801	7.07	2,451	30.0



outlet

Inlet w/FC



Outlet Area = 4.7 sq. ft.



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Sound power levels shown are in decibels, referenced to 10⁻¹² watts, calculated per AMCA International Standard 301

Ratings do not include the effects of duct end correction.

Power ratings (BHP) exclude bearing and transmission losses.

Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

Performance ratings include the effects of an inlet flow concentrator.

FEG80



Series 686q March 2014