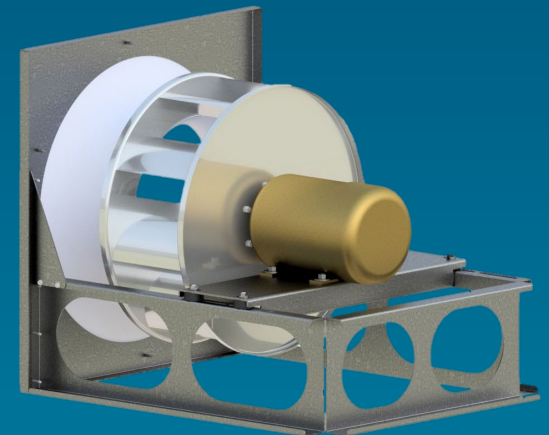
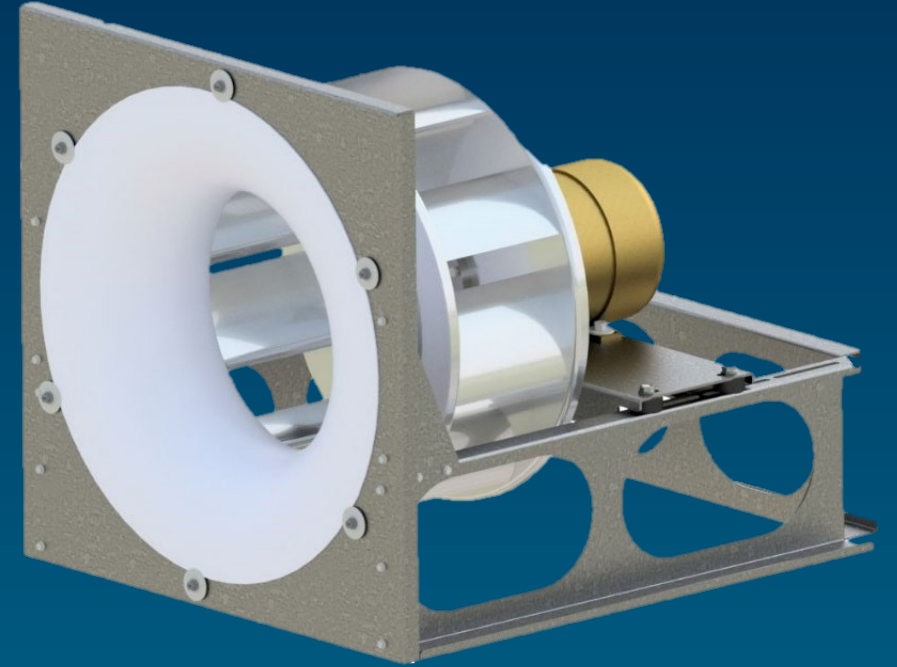


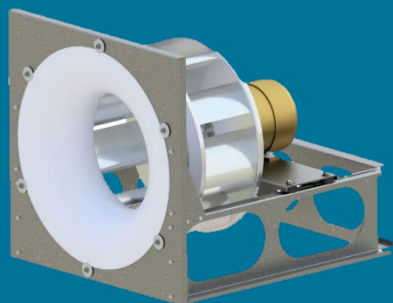
PF09 Series Catalog

Direct Drive Plenum Fan



CREATING A BETTER TOMORROW
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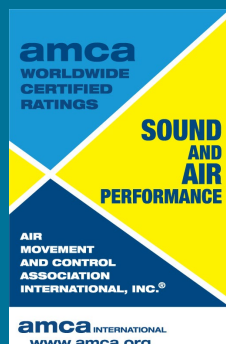


High performance PF09 Sereres Direct Drive Fan

Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	12"
Wheel width	50%
Maximum Wheel Speed	4596 RPM

NAS PF09-12x50 Sound Power Ratings

PF09-12"-50%			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	402	1660	63	57	65	63	56	54	53	54	62	61	66	62	61	59	56	62
	833	2272	66	60	70	72	68	67	64	62	64	64	71	71	71	73	68	67
	2074	4501	83	72	76	88	84	85	89	84	83	76	81	89	89	91	90	87
2	355	2197	64	60	71	70	64	60	59	60	69	66	72	68	66	66	62	67
	883	2737	71	62	72	76	71	68	67	65	74	69	74	76	74	75	70	70
	1948	4508	82	71	75	88	83	85	87	82	83	76	80	87	87	90	89	85
3	435	2687	74	63	74	78	69	66	64	64	77	70	76	76	71	72	67	70
	901	3098	76	66	73	83	73	71	69	67	81	72	75	81	76	77	72	71
	1819	4518	82	71	75	88	83	84	86	81	83	76	80	87	86	90	88	83
4	502	3095	77	67	74	84	73	70	68	67	82	74	76	81	75	76	71	71
	866	3370	81	69	74	86	75	72	71	69	86	76	77	83	77	79	74	73
	1683	4527	82	72	75	90	84	84	84	79	83	77	80	88	86	89	87	81
5	561	3448	82	70	75	86	76	73	72	70	87	76	78	84	78	80	74	73
	970	3781	84	72	76	89	78	76	75	72	87	78	80	86	81	82	77	75
	1536	4530	85	74	76	90	84	83	83	78	85	78	81	88	86	89	85	80
6	615	3764	84	73	76	89	78	76	75	72	87	78	80	86	81	82	77	75
	886	3961	86	74	77	90	80	77	76	73	87	79	81	87	83	84	79	76
	1375	4532	87	77	78	90	84	82	81	77	86	80	82	88	85	88	84	80
7	664	4056	87	75	78	90	80	78	77	74	87	80	82	88	83	85	80	77
	956	4277	89	77	79	91	82	80	79	76	88	81	83	89	85	87	81	78
	1192	4527	88	79	79	91	84	81	80	77	88	82	83	89	86	88	83	79
8	710	4335	89	77	79	91	83	80	79	76	88	82	83	89	85	87	82	78
	852	4426	89	78	79	91	83	81	80	77	88	82	83	89	86	87	82	79
	984	4535	89	79	80	91	85	81	80	77	88	83	84	89	86	88	83	79



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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

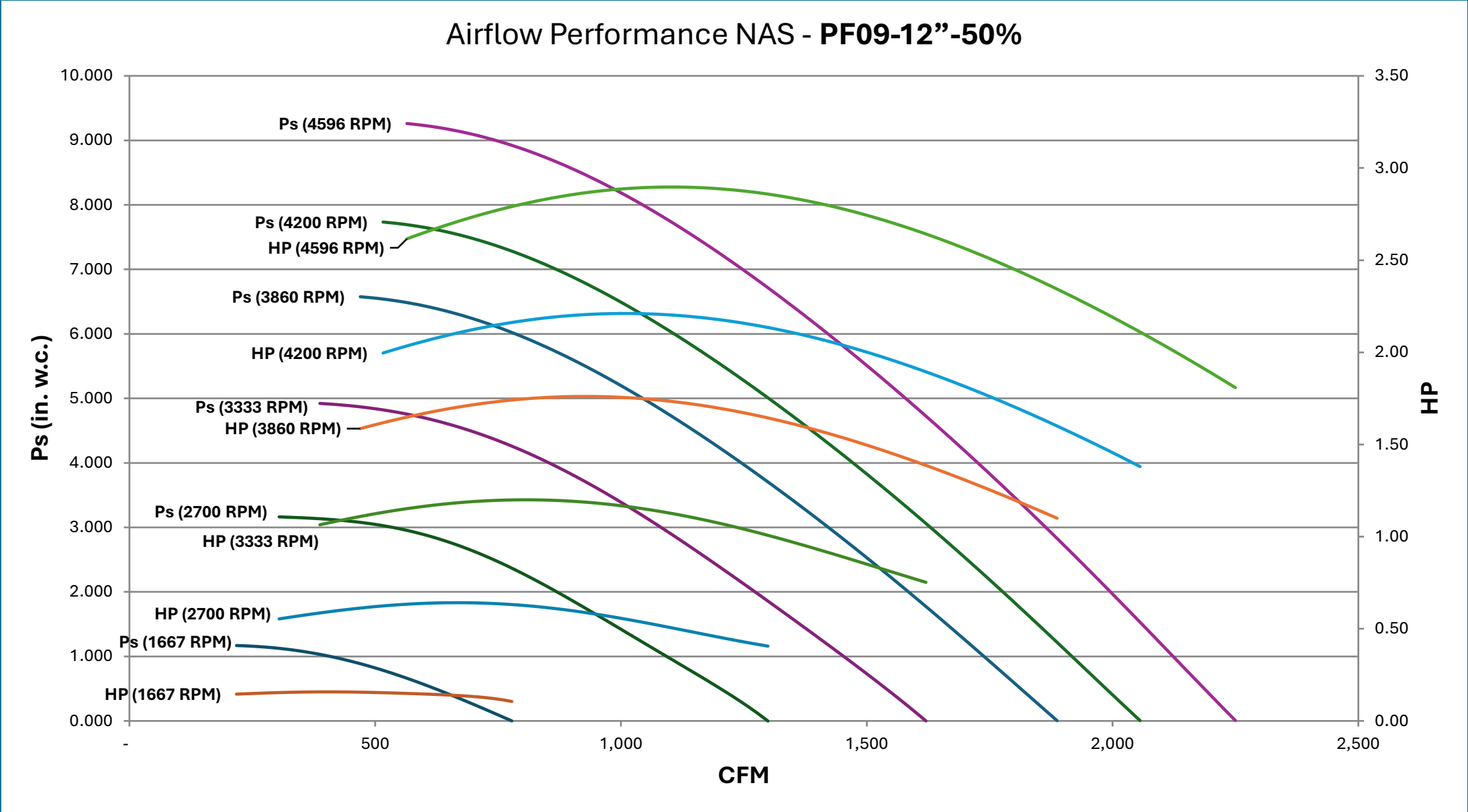
Power ratings (BHP) are for direct drive application and as such exclude bearing and transmission losses.

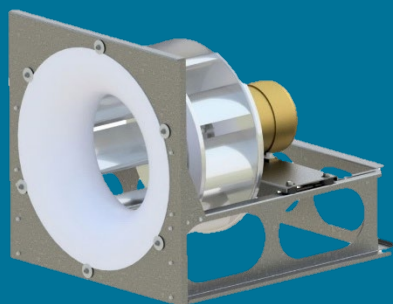
Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

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

All data developed with Nortek Air Solutions LLC fan selection engine version 2.00.00 March 2026





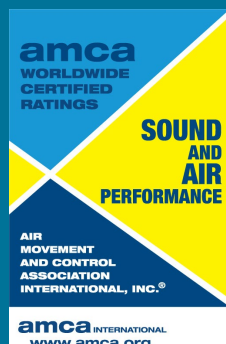


High performance PF09 Sereres Direct Drive Fan

Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	12"
Wheel width	80%
Maximum Wheel Speed	4596 RPM

NAS PF09-12x80 Sound Power Ratings

PF09-12-80			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	732	1656	63	60	66	67	59	56	53	56	64	64	70	66	64	62	57	63
	1518	2399	69	64	72	78	73	71	69	64	70	68	75	80	77	77	74	68
	3274	4490	86	76	79	90	86	85	85	88	89	80	84	91	92	93	89	93
2	712	2170	68	63	73	72	66	61	59	60	70	68	77	73	70	68	63	67
	1476	2708	78	66	73	81	71	71	68	65	82	71	77	84	77	77	72	70
	3107	4495	87	76	78	91	85	84	85	85	89	80	83	92	91	92	88	89
3	872	2652	78	68	77	79	70	66	64	64	82	74	81	81	75	74	68	69
	1506	3038	83	70	75	85	74	72	70	67	87	75	79	85	79	79	74	71
	2950	4512	89	76	77	92	85	83	84	82	89	80	83	93	91	91	88	85
4	1007	3058	84	72	77	85	74	71	69	67	88	77	81	86	79	78	72	70
	1740	3505	90	74	77	89	78	75	74	71	92	79	81	89	83	83	78	74
	2792	4533	87	77	78	92	85	83	83	81	87	81	84	93	90	91	87	84
5	1125	3417	90	75	77	88	77	74	72	70	92	80	82	89	82	82	76	73
	1620	3665	89	75	78	89	79	77	75	72	91	80	82	89	84	84	78	74
	2617	4541	87	78	79	92	85	82	82	80	86	82	84	92	90	90	86	82
6	1233	3741	90	77	79	91	80	77	75	72	91	82	84	91	85	84	79	75
	1776	4012	89	77	80	92	81	79	78	74	89	82	84	92	87	87	81	77
	2413	4533	88	79	80	92	85	82	82	79	87	83	85	93	90	90	86	81
7	1332	4039	90	79	81	93	82	79	78	75	89	83	85	93	88	87	81	76
	1598	4143	91	79	81	93	82	80	79	75	89	84	86	93	88	88	82	77
	2166	4516	89	81	81	93	85	82	81	77	88	84	86	93	90	90	85	80
8	1423	4316	91	81	82	94	84	81	80	77	89	85	86	94	90	89	84	78
	1708	4427	90	82	83	94	85	82	81	77	89	85	87	94	90	90	84	79
	1865	4512	90	82	82	94	86	82	81	78	89	85	87	94	91	90	85	79



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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

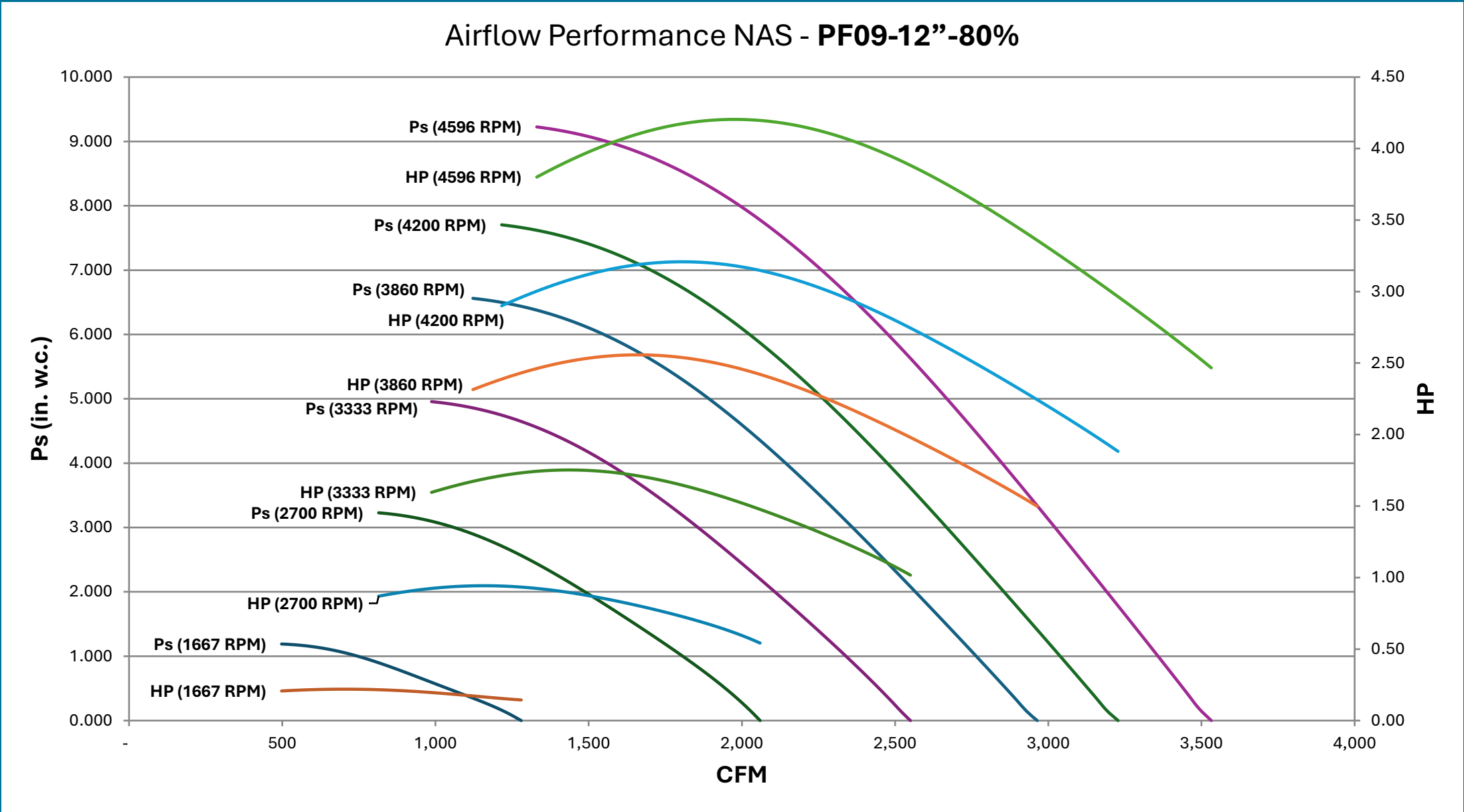
Power ratings (BHP) are for direct drive application and as such exclude bearing and transmission losses.

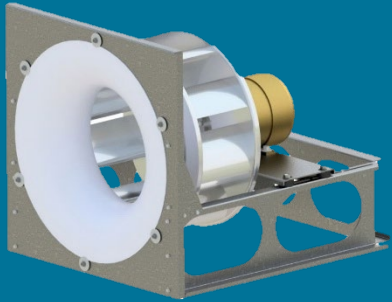
Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

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All data developed with Nortek Air Solutions LLC fan selection engine version 2.00.00 March 2026





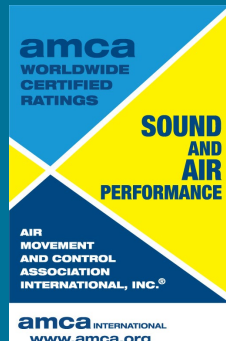


High performance PF09 Sereres Direct Drive Fan

Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	12"
Wheel width	105%
Maximum Wheel Speed	4596 RPM

NAS PF09-12x105 Sound Power Ratings

PF09-12-105			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	976	1653	69	67	69	71	62	59	55	56	69	75	72	72	68	67	60	67
	2023	2588	83	72	73	80	72	73	71	64	84	77	79	84	80	80	78	71
	4196	4518	87	78	81	91	86	87	86	87	88	83	87	95	95	95	91	94
2	931	2163	66	65	74	73	64	63	60	59	71	70	80	75	71	70	65	67
	1930	2737	86	71	74	81	71	72	69	64	87	76	79	85	80	79	75	71
	3939	4494	87	78	81	90	85	86	85	84	87	83	88	95	94	94	90	90
3	1140	2648	82	70	76	79	68	67	65	62	85	75	81	84	76	74	70	70
	1970	3002	86	75	75	86	72	72	70	66	88	80	80	88	81	80	75	71
	3753	4515	86	77	81	90	84	85	84	81	86	83	88	94	93	93	90	87
4	1317	3052	84	76	75	85	72	71	68	66	88	81	81	87	79	78	73	71
	2275	3481	87	80	77	90	76	76	74	70	90	85	82	93	85	83	79	75
	3579	4538	86	77	81	91	84	84	83	80	85	83	88	94	93	92	89	85
5	1472	3396	86	82	76	88	74	74	71	68	90	85	82	89	82	81	76	74
	2119	3623	86	79	77	90	77	76	74	70	89	85	83	92	85	84	79	75
	3390	4552	85	77	80	92	84	84	83	79	86	83	87	95	92	92	88	84
6	1613	3703	85	79	77	89	77	76	74	71	89	85	84	91	85	84	79	76
	2323	3992	84	77	79	91	79	79	77	73	87	84	85	94	87	87	82	78
	3159	4546	85	77	80	92	84	83	82	78	87	83	87	95	92	91	87	83
7	1742	3983	84	78	79	91	79	78	76	73	88	85	85	93	87	87	82	77
	2090	4091	84	78	79	91	80	79	77	74	87	84	86	94	88	87	82	78
	2862	4525	84	78	80	93	84	82	81	77	87	84	87	96	91	90	86	81
8	1862	4256	84	78	80	92	81	80	79	75	87	85	87	94	90	89	84	79
	2234	4372	84	79	81	92	82	81	79	75	87	85	87	95	90	89	85	80
	2469	4489	84	79	81	92	83	82	80	76	88	85	88	95	91	90	86	81



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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

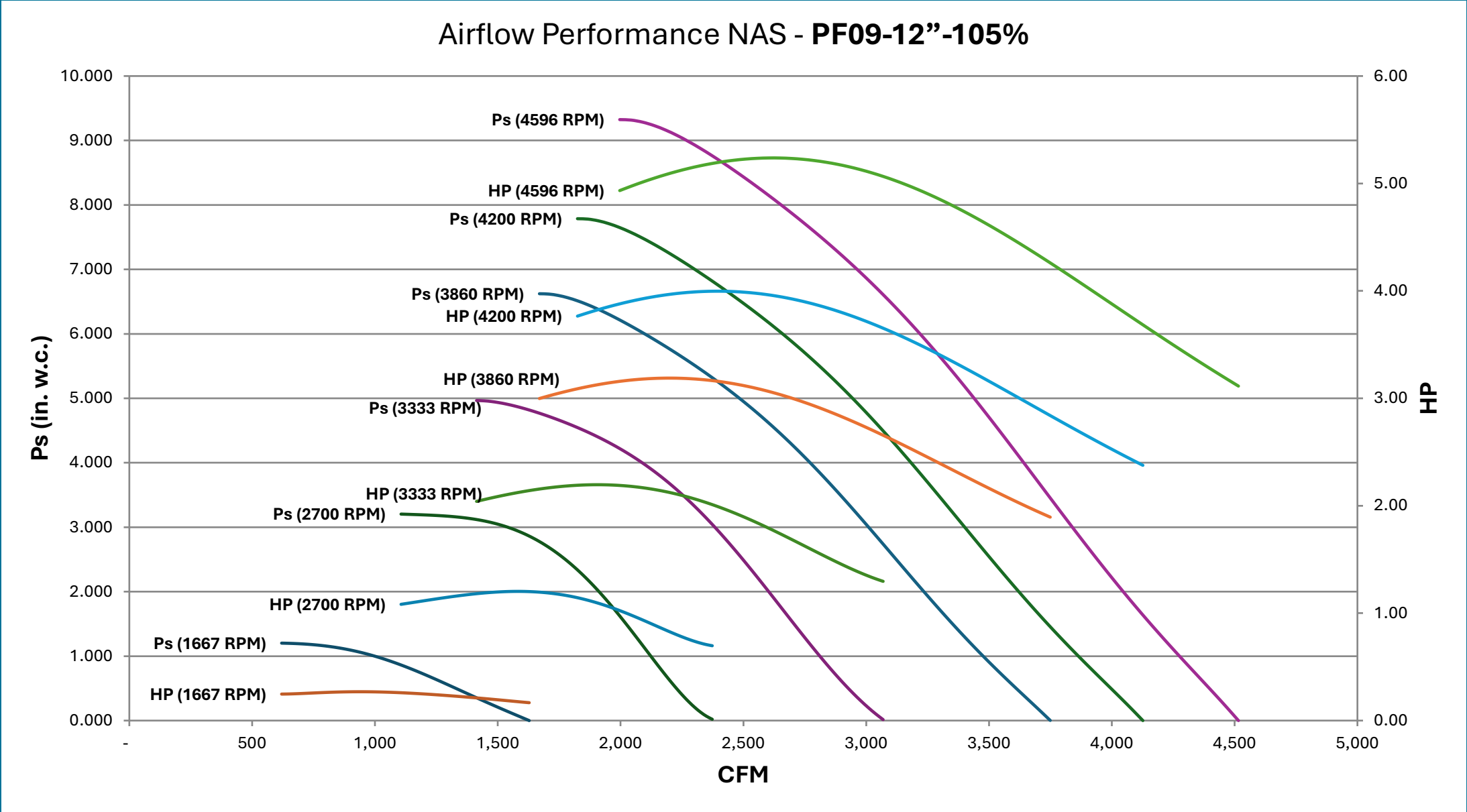
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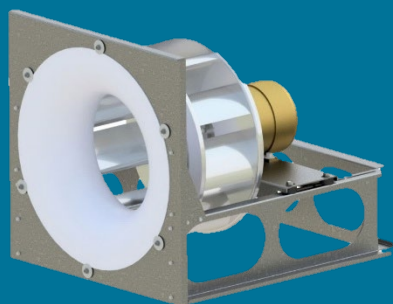
Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

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

All data developed with Nortek Air Solutions LLC fan selection engine version 2.00.00 March 2026







High performance PF09 Sereres Direct Drive Fan

Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	14"
Wheel width	50%
Maximum Wheel Speed	3965 RPM

NAS PF09-14x50 Sound Power Ratings

PF09-14-50			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	672	1670	62	60	66	67	61	59	57	57	63	63	68	67	65	64	60	65
	1160	2250	67	63	73	75	71	70	68	65	66	68	74	75	75	76	72	69
	2405	3920	83	71	78	89	83	87	88	83	83	77	82	89	88	91	89	86
2	438	1996	65	60	72	70	64	61	60	61	69	67	73	69	67	67	63	67
	908	2312	66	62	74	74	68	66	64	64	70	69	75	73	72	72	67	68
	2236	3915	82	70	77	88	82	86	86	81	83	76	81	87	87	90	87	84
3	537	2440	73	64	77	78	69	66	65	65	75	71	78	77	72	72	68	69
	1114	2830	76	67	76	83	74	72	70	68	81	73	78	81	77	78	72	72
	2071	3925	83	70	77	89	81	85	84	79	84	76	81	87	86	90	86	82
4	620	2812	77	68	78	83	73	70	69	68	82	75	79	81	76	77	71	71
	1072	3075	81	70	78	87	75	73	72	70	85	77	79	84	79	80	74	73
	1895	3933	84	71	78	91	81	84	83	78	84	77	81	88	86	89	84	80
5	693	3133	82	71	78	88	76	74	72	70	86	78	80	85	79	80	74	73
	998	3288	84	72	78	88	77	75	74	72	87	79	80	86	81	82	76	75
	1701	3935	88	74	79	91	82	82	81	77	86	79	82	89	86	88	83	79
6	759	3420	86	73	79	89	78	77	75	73	88	80	81	87	82	83	77	75
	1093	3607	87	75	80	90	80	78	77	74	87	81	82	88	84	85	79	77
	1483	3932	88	76	80	92	82	81	80	76	87	81	83	89	86	88	82	79
7	820	3685	87	76	80	90	80	79	78	75	87	81	83	88	85	85	80	77
	984	3767	88	76	81	92	81	80	78	75	87	82	83	89	85	86	80	78
	1232	3933	89	77	81	93	82	81	80	77	88	82	84	90	86	87	82	79
8	876	3939	89	77	81	93	82	81	80	77	88	83	84	90	86	87	82	79
	876	3939	89	77	81	93	82	81	80	77	88	83	84	90	86	87	82	79
	876	3939	89	77	81	93	82	81	80	77	88	83	84	90	86	87	82	79

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Performance and sound is certified for Installation Type A: Free inlet, Free outlet.

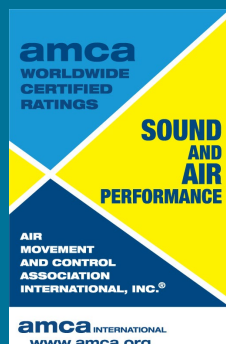
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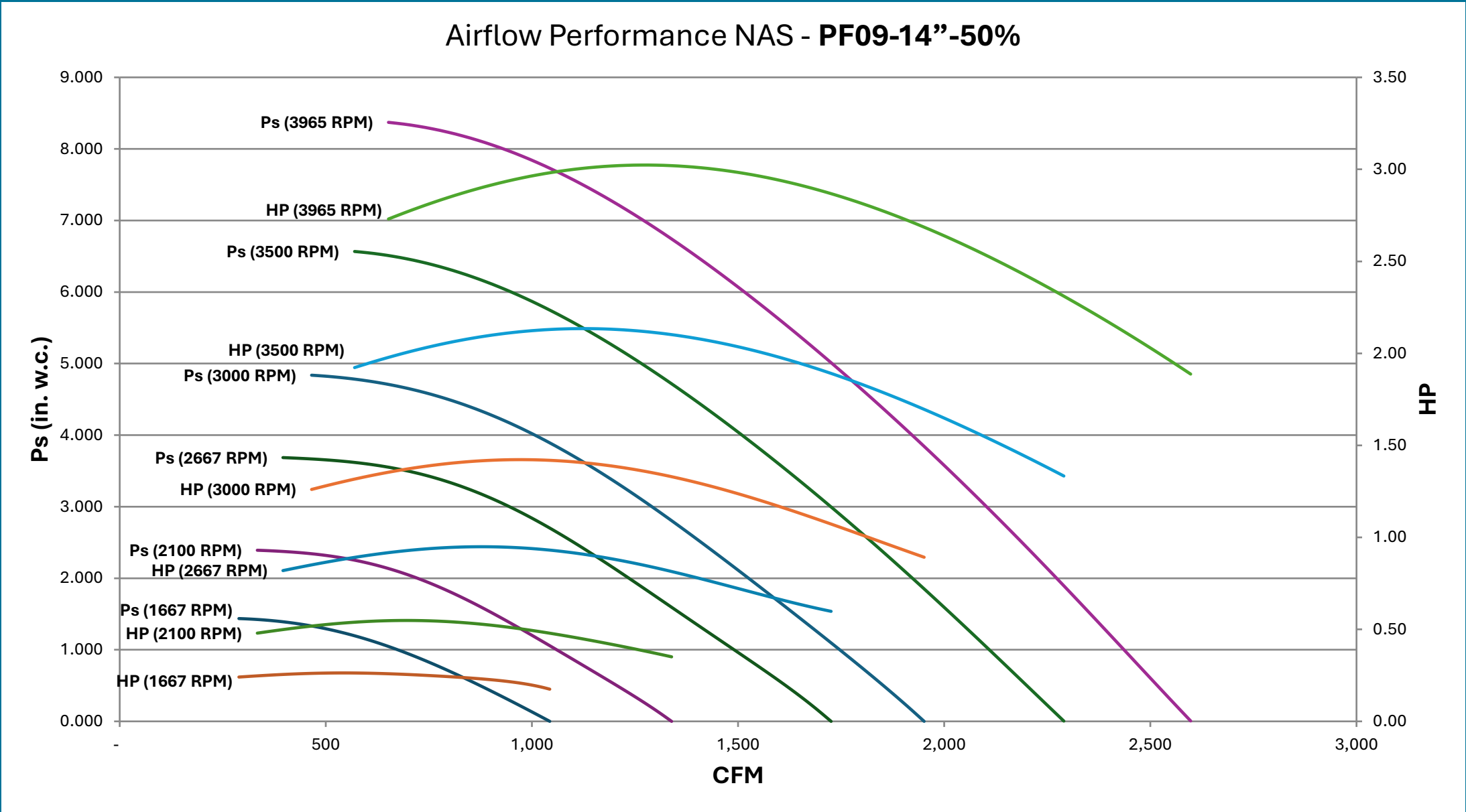
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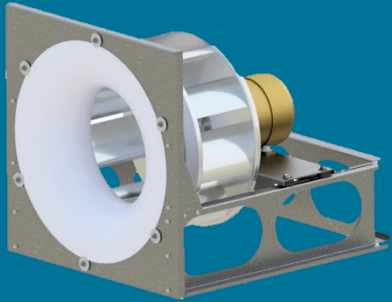
Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

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All data developed with Nortek Air Solutions LLC fan selection engine version 2.00.00 March 2026







High performance PF09 Sereres Direct Drive Fan

Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	14"
Wheel width	80%
Maximum Wheel Speed	3965 RPM

NAS PF09-14x80 Sound Power Ratings

PF09-14-80			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	1161	1669	63	63	70	71	64	62	57	59	66	67	74	71	70	68	62	66
	2006	2296	69	66	77	78	73	73	71	66	71	70	80	80	79	79	76	70
	3785	3874	87	75	80	90	85	85	86	87	89	80	84	92	92	92	89	92
2	861	1967	68	64	74	73	66	62	60	61	70	70	79	73	70	68	64	66
	1786	2446	74	67	76	81	71	71	68	65	78	72	80	85	78	77	72	70
	3576	3886	88	74	80	91	84	84	84	84	89	80	84	93	92	91	88	88
3	1054	2403	76	69	79	79	70	67	65	64	80	75	82	82	76	74	68	68
	1822	2747	83	71	78	85	74	73	70	67	86	76	81	86	80	79	73	71
	3378	3907	89	74	79	92	83	83	83	81	89	80	84	93	91	90	86	84
4	1217	2771	84	73	81	85	74	72	69	67	88	78	84	85	80	78	72	71
	2102	3166	89	74	79	90	77	76	74	71	91	80	83	89	84	83	77	74
	3171	3925	88	75	80	93	83	82	82	79	87	81	85	93	90	89	85	82
5	1361	3096	89	76	81	90	77	75	72	70	91	81	84	90	83	82	75	73
	1960	3315	91	76	80	90	79	77	75	72	92	81	84	90	85	84	78	75
	2935	3928	88	77	81	93	82	82	82	78	86	82	85	93	90	89	85	81
6	1491	3389	91	78	81	91	80	78	75	73	92	83	85	92	86	85	78	75
	2147	3628	89	78	82	92	81	80	78	75	89	83	85	92	88	87	81	77
	2651	3918	89	79	82	93	83	82	81	77	87	83	86	94	90	89	84	79
7	1610	3659	90	80	83	93	82	80	78	75	90	84	86	93	89	87	81	77
	1932	3749	90	80	84	94	82	81	79	76	89	85	87	94	89	88	82	78
	2318	3917	90	80	83	94	83	82	80	77	88	84	87	94	90	89	83	79
8	1721	3910	91	81	84	95	83	82	80	77	89	86	88	95	90	89	83	79
	1721	3910	91	81	84	95	83	82	80	77	89	86	88	95	90	89	83	79
	1857	3942	91	81	84	95	84	82	80	77	90	86	88	95	91	90	83	79

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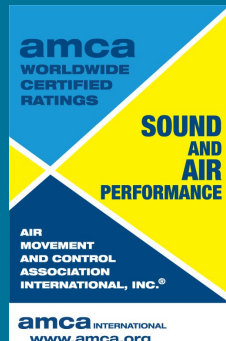
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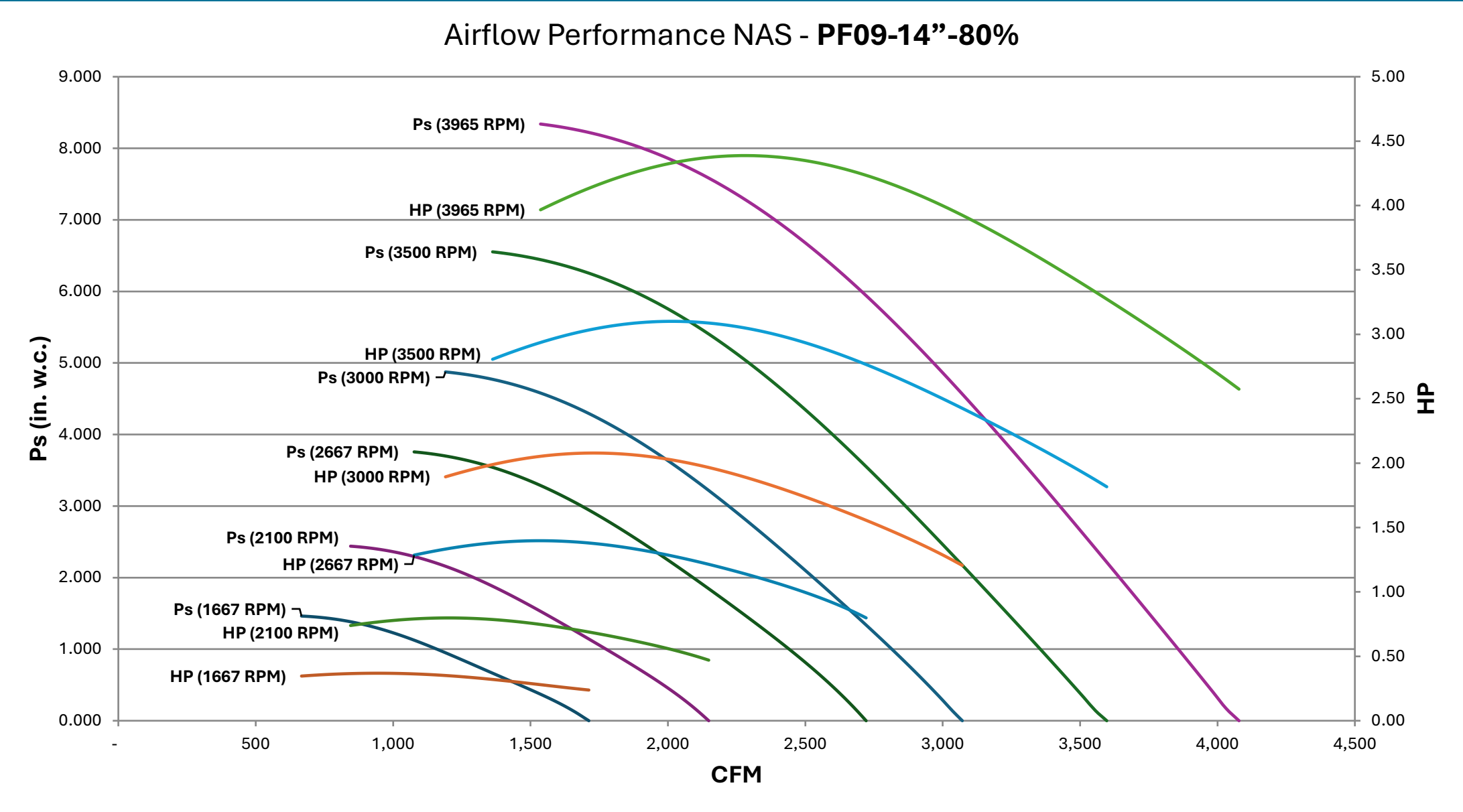
Power ratings (BHP) are for direct drive application and as such exclude bearing and transmission losses.

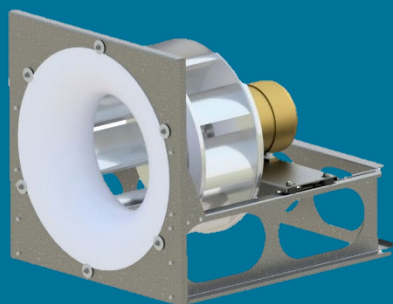
Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

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

All data developed with Nortek Air Solutions LLC fan selection engine version 2.00.00 March 2026





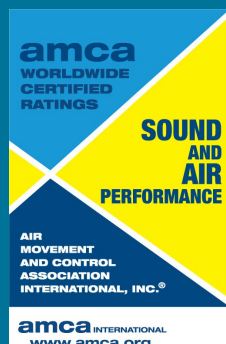


High performance PF09 Sereres Direct Drive Fan

Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	14"
Wheel width	105%
Maximum Wheel Speed	3965 RPM

NAS PF09-14x105 Sound Power Ratings

PF09-14-105			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	1530	1674	69	67	72	72	66	64	59	57	69	74	77	74	73	72	64	66
	2644	2504	84	74	76	82	74	75	74	67	84	79	82	86	82	83	80	73
	4812	3895	87	77	83	91	85	87	85	86	87	83	89	95	95	95	91	93
2	1169	1967	67	67	76	73	64	63	61	59	71	71	81	75	72	70	65	67
	2425	2540	83	72	77	83	72	74	70	65	84	78	81	86	81	81	76	71
	4534	3904	87	77	83	91	84	86	84	83	87	83	89	95	94	93	90	89
3	1432	2406	76	70	78	79	69	68	65	63	80	76	83	85	77	74	70	69
	2474	2773	87	76	78	87	74	74	71	67	87	81	83	89	82	81	76	72
	4305	3926	87	76	83	91	83	85	83	80	86	84	89	94	93	92	88	86
4	1653	2773	84	76	79	85	73	71	69	66	87	81	84	87	80	79	74	72
	2381	2954	86	79	79	90	75	74	71	68	89	84	84	90	83	82	76	73
	3428	3546	87	77	81	91	80	81	79	75	87	84	86	93	89	88	84	80
5	1848	3085	85	82	79	89	75	74	71	69	89	86	84	90	83	82	76	74
	2662	3328	86	80	80	91	77	78	75	71	90	86	85	94	86	85	80	76
	3833	3959	85	76	82	93	83	83	82	78	86	84	88	95	92	91	87	83
6	2025	3364	86	81	80	90	78	77	74	71	89	86	85	92	86	85	79	76
	2430	3463	85	80	80	90	78	78	75	72	89	86	86	92	87	86	80	77
	3499	3945	84	77	81	94	82	82	80	76	87	84	87	97	91	90	85	81
7	2187	3619	85	79	81	91	80	79	77	73	88	86	86	93	88	87	82	78
	2624	3744	84	79	82	93	81	80	78	74	87	86	87	95	90	88	83	79
	3044	3910	84	78	82	93	82	82	79	76	87	85	88	96	90	90	84	80
8	2338	3867	84	79	82	93	82	81	79	75	87	86	88	96	90	89	84	80
	2338	3867	84	79	82	93	82	81	79	75	87	86	88	96	90	89	84	80
	2442	3885	85	79	82	93	82	81	79	75	87	86	88	96	91	89	84	80



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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

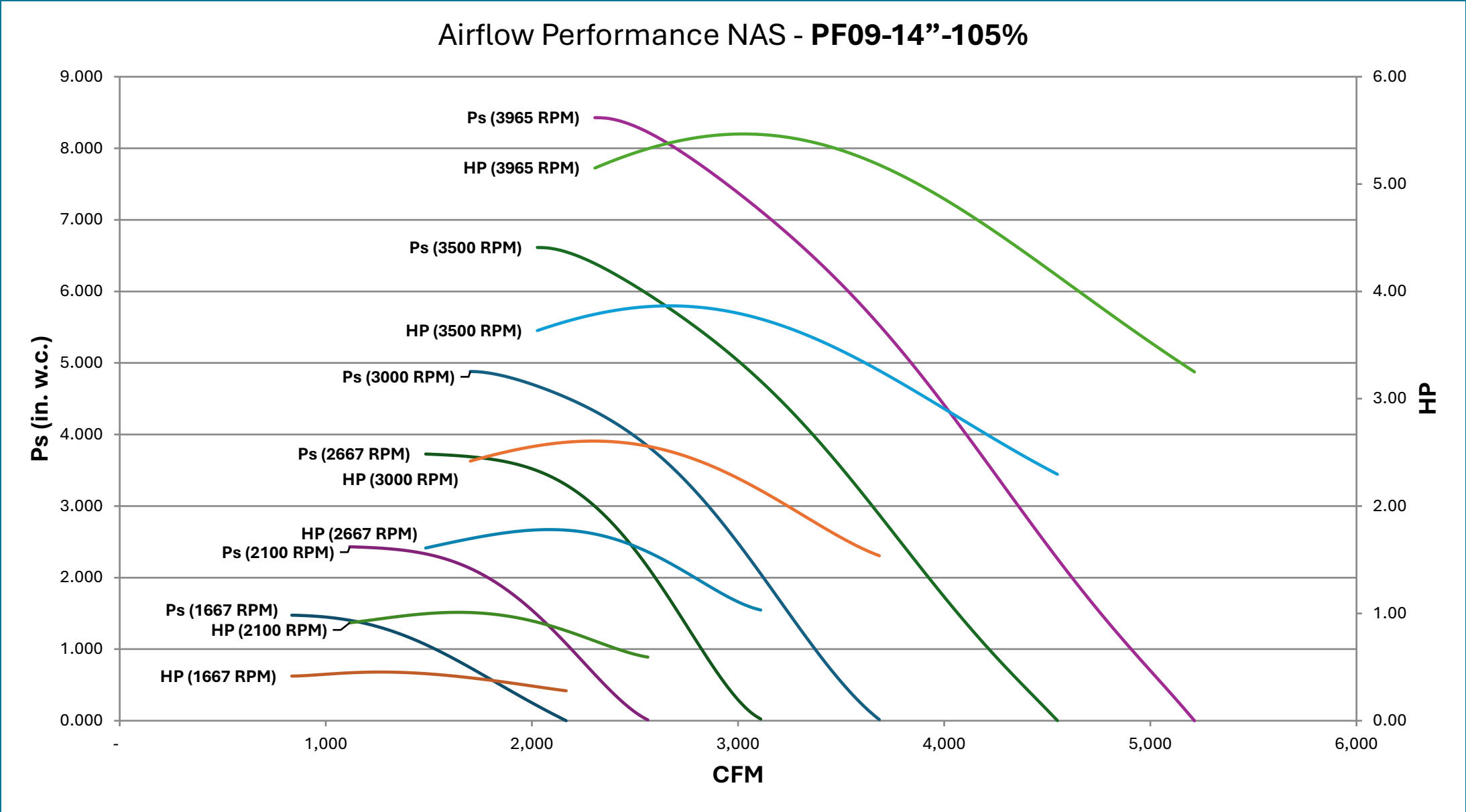
Power ratings (BHP) are for direct drive application and as such exclude bearing and transmission losses.

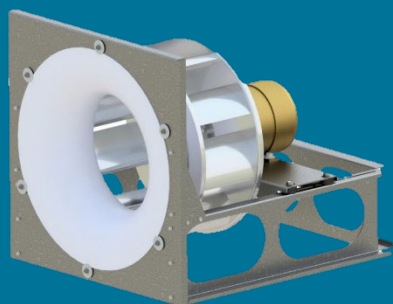
Values shown are for inlet Lwi and outlet Lwo sound power levels for installation type A: Free inlet, free outlet.

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

All data developed with Nortek Air Solutions LLC fan selection engine version 2.00.00 March 2026

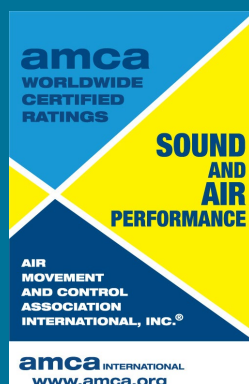






High performance PF09 Sereres Direct Drive Fan

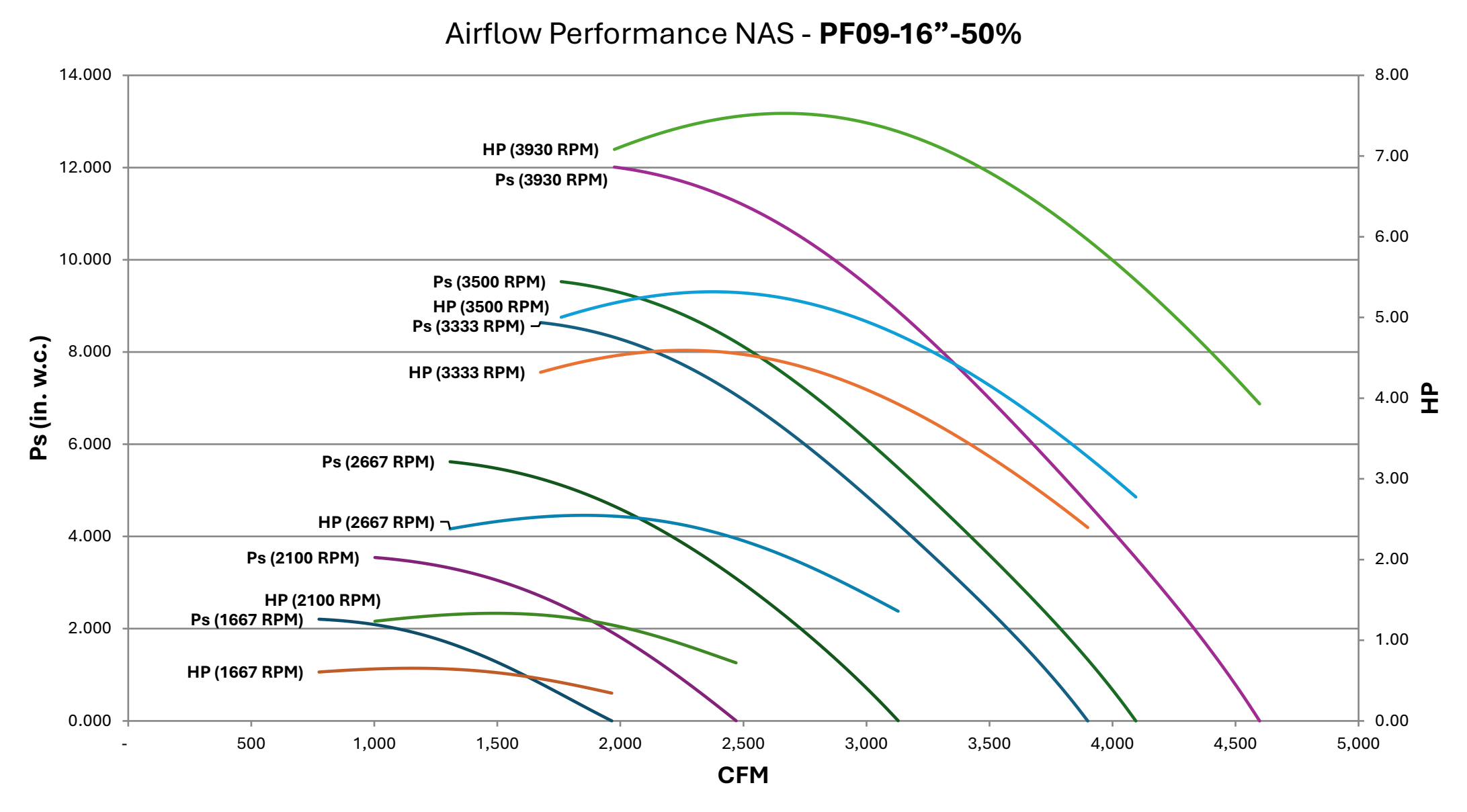
Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	16"
Wheel width	50%
Maximum Wheel Speed	3930 RPM

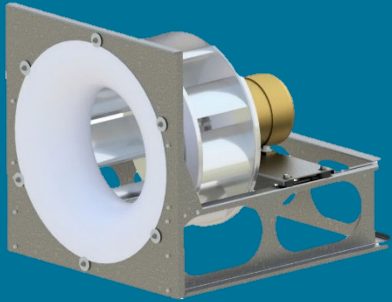


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NAS PF09-16x50 Sound Power Ratings

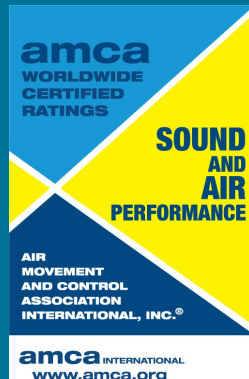
PF09-16-50			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	1084	1335	61	66	66	64	60	60	59	53	62	68	69	66	67	65	68	56
	2248	2128	70	68	78	76	74	73	75	67	72	71	79	79	80	79	81	72
	4389	3861	83	80	83	92	88	88	90	89	90	83	86	92	93	95	94	94
2	771	1603	70	69	77	72	65	63	63	55	74	74	77	73	71	69	71	59
	1918	2108	67	65	78	73	72	70	70	64	72	70	78	76	78	76	76	69
	4227	3845	82	79	83	92	87	87	89	88	89	83	86	92	92	94	93	92
3	944	1965	74	71	81	76	70	68	67	61	78	75	82	77	76	74	74	66
	1958	2336	71	68	80	76	74	72	72	67	75	73	81	79	80	79	77	71
	4089	3859	82	79	83	91	87	87	88	86	87	83	85	92	92	94	92	90
4	1090	2270	77	73	84	79	74	71	70	65	80	78	85	81	79	78	76	70
	2261	2708	74	70	83	82	78	76	76	72	80	77	82	84	83	82	79	75
	3960	3884	81	79	82	91	86	87	88	85	86	83	85	92	92	94	91	88
5	1218	2537	80	75	88	84	77	74	73	69	83	80	87	84	82	81	77	73
	2105	2808	78	72	85	84	78	77	77	73	82	78	85	86	84	83	80	76
	3831	3912	82	78	82	91	86	87	87	84	86	83	85	92	91	94	91	87
6	1335	2777	81	77	89	86	79	77	75	72	84	81	88	87	85	83	79	75
	1922	2912	80	74	84	86	79	78	77	73	84	80	85	88	85	84	80	77
	3320	3689	81	76	82	90	84	85	85	82	88	82	84	91	90	92	88	85
7	1442	2997	81	77	85	89	81	79	77	73	86	82	86	90	86	85	81	77
	2076	3144	81	75	83	90	81	80	79	75	87	82	84	90	87	86	82	79
	2989	3610	82	76	82	90	84	84	84	80	89	82	83	91	90	90	86	83
8	1541	3201	82	77	83	91	82	80	80	75	88	82	85	91	88	87	82	79
	2219	3360	82	77	82	92	83	82	81	77	89	83	84	92	89	88	83	81
	3196	3857	84	77	81	93	85	85	85	82	91	84	84	92	91	92	88	85
9	1635	3394	82	77	82	92	83	82	81	77	90	83	84	92	89	88	84	81
	2354	3562	84	78	82	92	84	83	82	78	91	84	85	93	90	90	85	82
	3097	3920	85	78	81	94	85	86	85	82	93	85	85	94	91	93	88	85
10	1723	3576	84	78	82	92	84	83	82	78	91	84	85	93	90	90	85	82
	2068	3627	84	78	82	92	84	83	83	79	91	85	85	93	90	90	85	83
	2804	3893	85	80	82	95	86	85	85	81	93	86	86	95	91	92	87	85
11	1807	3749	85	79	82	94	85	84	84	80	92	85	86	94	90	91	86	83
	2168	3802	85	80	82	94	85	84	84	80	93	86	86	94	91	91	87	84
	2445	3879	86	80	82	95	86	85	84	81	93	86	87	95	91	92	87	84
12	1888	3915	86	80	82	95	86	85	85	81	94	86	87	95	91	92	87	85
	1888	3915	86	80	82	95	86	85	85	81	94	86	87	95	91	92	87	85
	2010	3926	86	80	82	95	86	85	85	81	94	86	87	95	91	92	87	85





High performance PF09 Sereres Direct Drive Fan

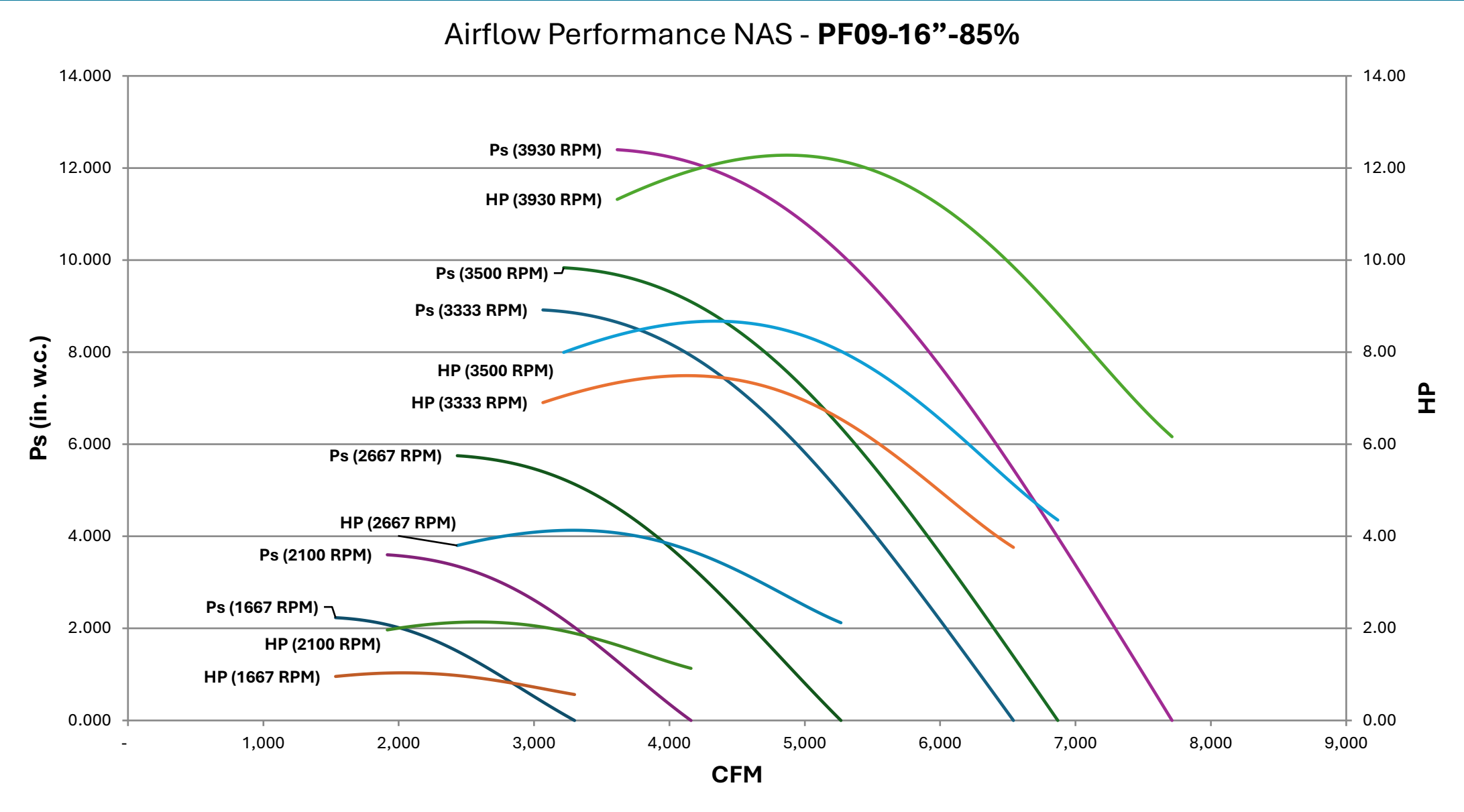
Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	16"
Wheel width	85%
Maximum Wheel Speed	3930 RPM

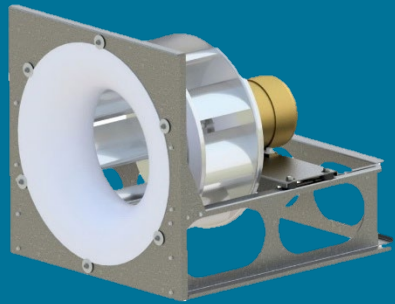


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NAS PF09x85 Sound Power Ratings

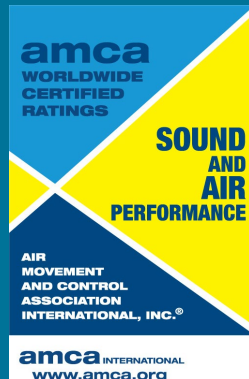
PF09-16-85			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	1891	1333	71	66	70	69	63	61	56	52	71	68	74	72	70	67	59	53
	3922	2196	76	71	83	79	74	76	75	68	77	76	89	84	83	82	81	72
	7415	3885	89	84	87	96	89	90	90	95	94	88	92	99	98	97	95	102
2	1643	1607	68	67	76	69	66	69	62	56	73	71	79	72	72	71	64	59
	3407	2157	74	70	82	76	72	73	71	65	76	74	85	81	80	79	75	69
	7182	3875	89	85	86	96	88	89	89	92	95	88	91	98	97	96	93	98
3	2013	1970	71	68	81	72	68	70	66	61	77	74	85	77	76	74	69	64
	3479	2363	75	71	84	79	73	74	72	67	79	76	85	83	82	79	75	71
	6975	3878	90	85	85	96	87	88	88	90	95	88	91	97	96	96	92	95
4	2324	2277	75	69	84	76	70	71	70	65	81	77	88	81	78	77	73	69
	4016	2722	81	73	80	87	77	77	75	71	85	79	83	90	86	83	79	75
	6780	3889	91	85	85	96	86	87	87	87	96	88	90	97	96	95	91	92
5	2599	2543	82	71	87	85	73	74	73	69	86	80	90	88	82	79	76	73
	4492	3039	83	77	81	90	79	80	78	75	88	81	85	92	88	86	81	79
	6586	3901	91	86	84	96	86	87	86	85	97	88	90	96	95	95	90	89
6	2847	2776	88	73	87	87	75	76	75	72	89	82	90	91	84	82	78	76
	4099	3044	83	77	82	91	78	79	78	74	89	82	85	93	88	86	81	78
	6383	3911	90	85	84	96	85	86	86	84	96	88	90	96	95	94	89	88
7	3075	2988	87	77	84	89	77	78	77	74	90	84	89	94	86	84	80	77
	4428	3282	84	81	81	93	80	81	79	76	91	84	85	95	90	89	82	80
	6157	3918	89	84	83	96	85	86	85	83	96	87	89	96	94	94	89	87
8	3287	3185	86	80	83	93	79	79	78	75	91	86	88	96	88	86	81	79
	4733	3506	85	82	81	93	81	82	81	78	93	85	86	96	91	90	84	82
	5897	3916	88	84	83	96	84	86	84	82	96	87	88	96	94	93	88	86
9	3486	3374	86	83	82	94	81	81	80	77	92	88	88	98	90	88	83	81
	4183	3490	86	82	81	93	81	82	80	77	95	87	87	97	90	90	83	81
	5592	3907	88	84	82	96	84	85	84	81	96	87	88	97	94	93	87	85
10	3675	3555	87	84	82	94	82	82	81	78	94	89	89	98	91	90	84	82
	4410	3676	87	83	81	94	82	83	82	79	96	88	88	98	91	91	85	82
	5228	3896	88	84	82	97	84	85	83	81	97	88	88	97	93	93	87	84
11	3854	3726	88	85	82	95	83	83	82	79	95	90	90	99	92	91	85	83
	4625	3854	88	84	81	96	83	84	83	80	97	90	89	99	92	92	86	84
	4796	3894	89	84	81	97	83	84	83	80	98	89	89	99	92	92	87	84
12	4026	3891	89	86	83	97	84	84	83	80	96	91	90	100	93	92	86	84
	4026	3891	89	86	83	97	84	84	83	80	96	91	90	100	93	92	86	84
	4282	3922	89	86	82	97	84	84	83	81	97	91	90	100	93	92	87	84





High performance PF09 Sereres Direct Drive Fan

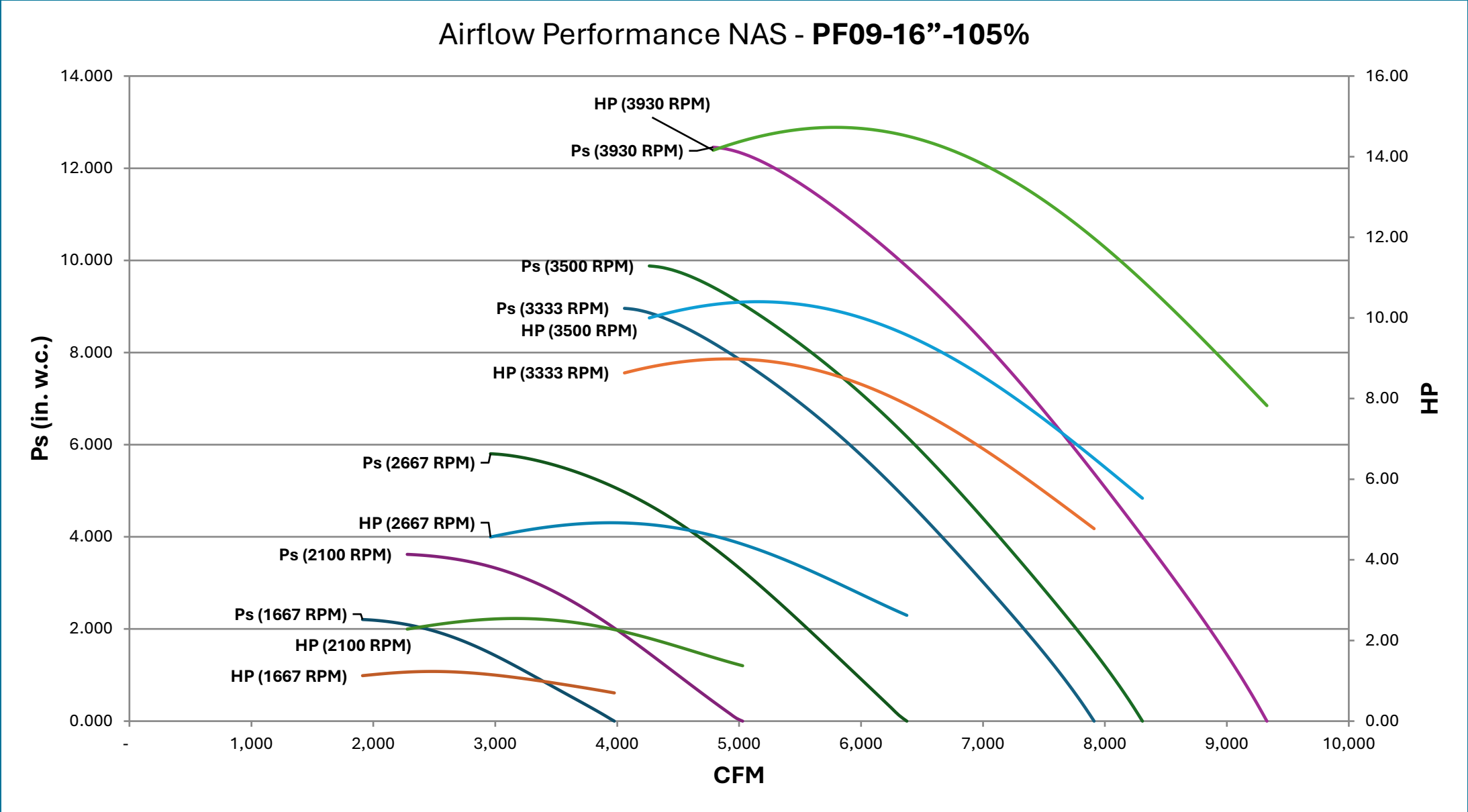
Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	16"
Wheel width	105%
Maximum Wheel Speed	3930 RPM

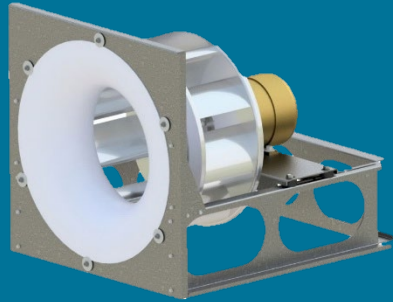


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NAS PF09-16x105 Sound Power Ratings

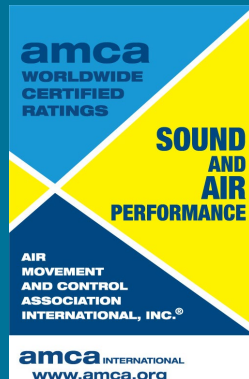
PF09-16-105			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	2291	1336	70	66	72	69	65	64	56	50	69	68	76	73	72	72	61	55
	4751	2208	76	72	86	81	76	76	77	69	79	78	90	88	85	83	83	75
	9004	3887	91	84	88	98	91	92	89	93	99	90	95	102	100	99	94	100
2	1989	1614	70	67	77	69	65	66	61	56	75	71	80	74	72	72	66	61
	4124	2164	75	70	85	78	73	73	71	65	78	76	89	85	82	80	76	71
	8737	3880	91	84	88	98	90	91	89	91	98	90	94	101	100	98	93	97
3	2436	1973	72	67	82	73	68	69	67	61	79	75	86	79	77	75	71	67
	4210	2367	76	71	82	87	74	74	72	67	80	77	87	90	83	81	77	72
	8479	3885	91	84	87	97	89	90	88	89	98	90	94	101	99	98	93	95
4	2813	2275	75	69	84	78	72	72	70	65	83	78	89	84	80	78	75	71
	4861	2732	84	73	81	89	78	77	75	71	89	80	85	94	87	84	80	77
	8224	3895	91	85	87	97	89	90	87	86	98	90	93	100	98	97	92	92
5	3145	2538	82	71	87	86	74	74	72	68	89	80	91	91	83	80	77	73
	5435	3055	86	77	81	92	81	81	78	74	91	83	87	95	91	87	83	80
	7962	3904	91	85	86	97	88	89	86	84	98	90	93	100	97	96	91	89
6	3446	2766	88	73	87	88	77	76	74	70	93	82	91	93	86	82	79	76
	4962	3061	86	75	81	92	80	80	77	73	92	83	86	95	90	87	82	79
	7682	3911	92	84	85	97	87	88	86	83	98	90	92	100	97	96	90	88
7	3722	2974	87	75	85	91	79	78	76	72	94	84	90	95	88	84	80	77
	5359	3306	87	77	81	92	83	82	79	75	93	84	87	97	93	89	84	81
	7378	3913	92	84	85	97	87	88	85	82	98	89	92	99	97	96	90	87
8	3979	3164	87	77	84	94	82	79	78	74	95	86	89	98	91	86	82	79
	5730	3533	89	79	82	93	84	84	81	77	95	86	88	98	94	91	86	83
	7039	3910	92	83	84	96	86	87	84	81	98	88	91	99	96	95	89	86
9	4220	3348	87	79	83	96	84	81	79	75	96	88	89	100	93	89	83	80
	5064	3498	88	78	81	94	84	83	80	76	95	87	88	99	94	91	85	81
	6656	3905	92	82	83	96	86	87	84	81	98	88	90	99	96	95	89	86
10	4448	3528	88	80	83	96	85	83	80	76	97	89	90	100	94	91	85	82
	5338	3686	89	80	81	94	84	85	82	77	97	88	89	100	94	93	86	83
	6220	3898	92	81	82	96	85	87	83	80	98	88	89	99	95	95	88	85
11	4666	3699	90	82	83	97	85	84	81	78	99	90	91	101	94	92	86	83
	5599	3864	90	81	81	97	85	86	83	79	98	89	90	100	95	94	87	84
	5722	3892	91	81	82	97	85	86	83	79	98	89	90	100	95	95	87	84
12	4873	3862	91	83	84	99	86	86	82	79	100	92	92	102	95	94	87	84
	4873	3862	91	83	84	99	86	86	82	79	100	92	92	102	95	94	87	84
	5153	3899	91	82	82	99	85	86	83	79	98	91	91	101	95	95	87	84





High performance PF09 Sereres Direct Drive Fan

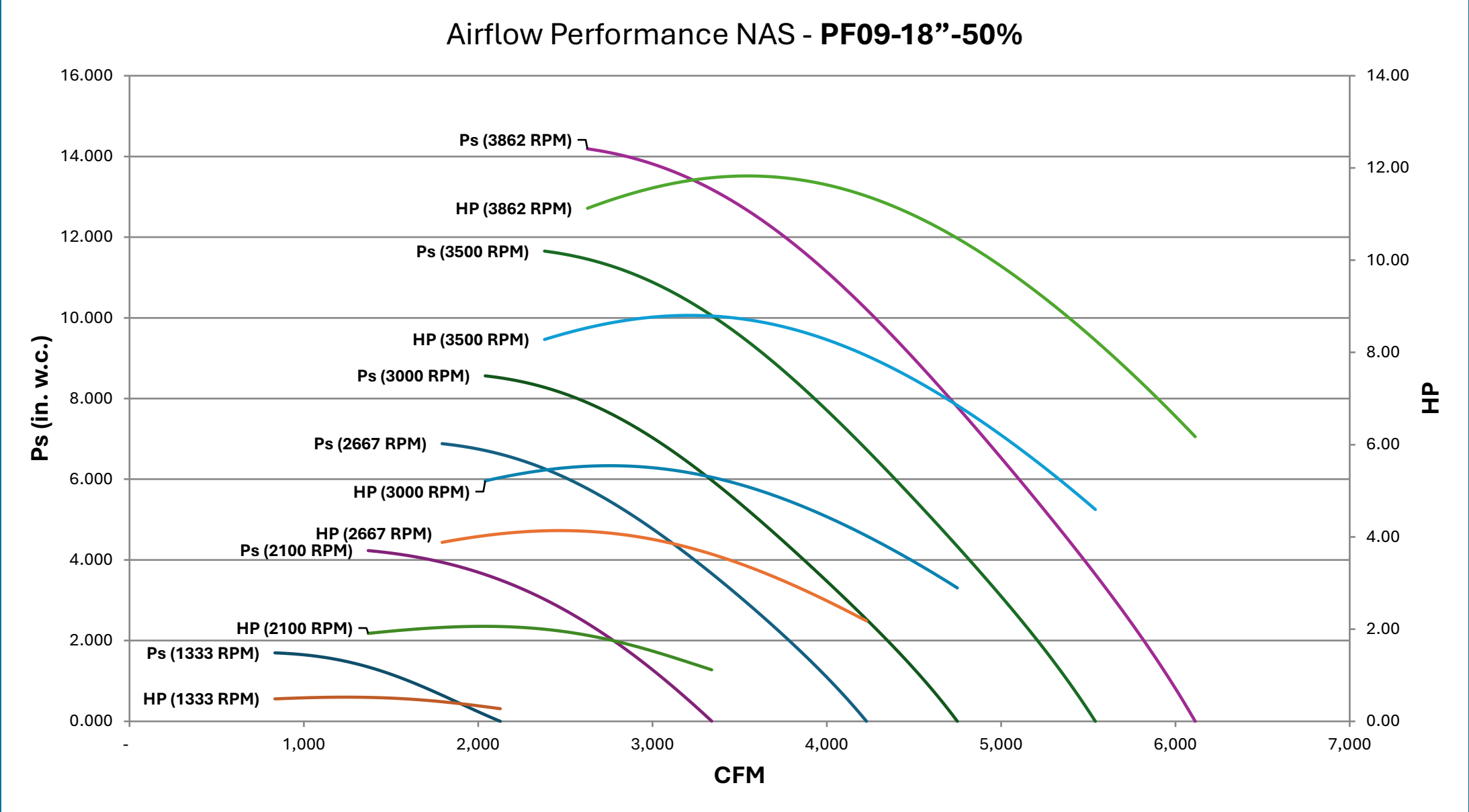
Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	18"
Wheel width	50%
Maximum Wheel Speed	3862 RPM

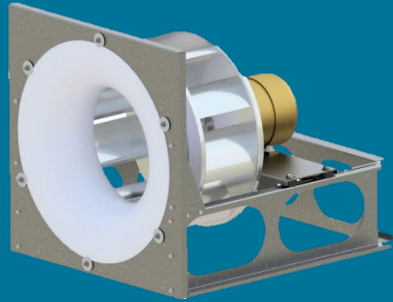


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NAS PF09-18x50 Sound Power Ratings

PF09-18-50			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	1619	1341	66	67	69	68	64	64	62	57	64	69	71	70	71	69	71	60
	3358	2264	75	72	84	81	79	79	82	74	76	76	84	84	85	84	87	80
	5868	3797	86	83	86	95	91	90	93	92	93	86	89	95	96	98	97	97
2	981	1453	70	74	75	71	65	64	63	56	74	77	79	73	72	69	71	60
	2440	1948	68	69	79	75	73	72	71	65	73	72	79	78	79	78	77	70
	5681	3778	85	82	86	94	90	90	92	91	92	86	89	95	95	97	96	95
3	1201	1780	75	73	81	76	70	69	67	61	78	77	84	78	77	74	74	66
	2490	2151	71	69	82	77	75	74	73	68	76	74	82	79	81	79	78	72
	5515	3780	85	82	86	94	90	90	91	90	90	86	88	95	95	97	95	94
4	1387	2057	78	73	86	79	74	72	71	66	81	79	87	81	81	78	77	70
	2875	2497	74	72	85	83	79	78	77	73	80	78	84	85	85	83	80	76
	5367	3797	84	82	86	94	89	90	91	89	89	86	88	94	95	97	94	92
5	1551	2299	80	76	88	82	77	75	73	69	83	81	89	84	83	81	78	73
	2680	2577	78	73	88	84	79	78	78	73	83	79	87	86	86	84	80	76
	5223	3820	84	81	85	94	89	89	90	87	88	85	88	94	94	96	94	91
6	1699	2516	82	77	90	86	79	77	76	72	85	82	89	87	86	83	80	75
	2936	2831	80	74	88	87	81	81	80	76	86	81	88	90	88	86	82	79
	5074	3842	84	81	85	94	88	89	90	87	89	86	88	94	94	96	93	90
7	1835	2715	82	77	91	87	81	79	78	74	86	83	90	90	88	85	81	78
	3170	3060	82	76	87	91	83	83	82	78	89	83	87	92	90	89	84	81
	4919	3860	85	81	85	94	88	89	90	87	90	86	88	95	94	96	93	89
8	1962	2899	82	77	88	89	82	81	80	76	88	83	89	92	89	87	83	80
	2825	3070	83	78	87	91	83	83	82	77	89	84	87	92	90	89	84	81
	4068	3558	84	78	85	93	86	87	87	83	92	85	86	93	93	93	89	86
9	2081	3073	83	78	87	91	83	83	82	77	89	84	87	93	90	89	84	81
	2996	3255	84	79	86	94	85	84	83	79	91	85	87	95	91	90	86	83
	4314	3771	86	79	85	95	87	88	88	85	93	86	87	95	93	95	90	87
10	2193	3239	84	79	86	94	85	84	83	79	91	85	87	94	91	90	86	83
	3158	3429	86	80	85	95	86	85	85	80	93	86	87	96	92	92	87	84
	4291	3860	87	80	85	96	88	88	88	85	95	87	87	96	94	95	91	88
11	2300	3395	86	80	86	95	86	85	84	80	93	86	87	96	92	92	87	84
	3312	3596	87	81	85	95	87	86	86	82	94	87	88	96	93	93	88	85
	3999	3839	88	81	85	97	88	88	88	84	96	88	88	97	94	95	90	87
12	2403	3545	87	81	85	95	87	86	85	81	94	87	88	96	93	93	88	85
	2884	3609	87	81	85	95	87	86	86	82	94	88	88	96	93	93	88	86
	3652	3815	88	82	85	97	88	88	87	83	96	89	89	97	94	95	90	87
13	2501	3689	88	82	85	96	87	87	86	82	95	88	89	96	93	94	89	86
	3001	3755	88	82	85	97	88	87	87	83	95	88	89	97	94	94	89	87
	3241	3807	88	83	85	97	88	87	87	83	96	89	89	97	94	95	90	87
14	2595	3827	89	83	85	97	88	88	87	83	96	89	89	97	94	95	90	87
	2595	3827	89	83	85	97	88	88	87	83	96	89	89	97	94	95	90	87
	2757	3841	89	83	85	97	88	88	87	83	96	89	90	98	94	95	90	87



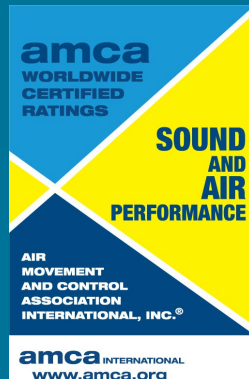


High performance PF09 Sereres Direct Drive Fan

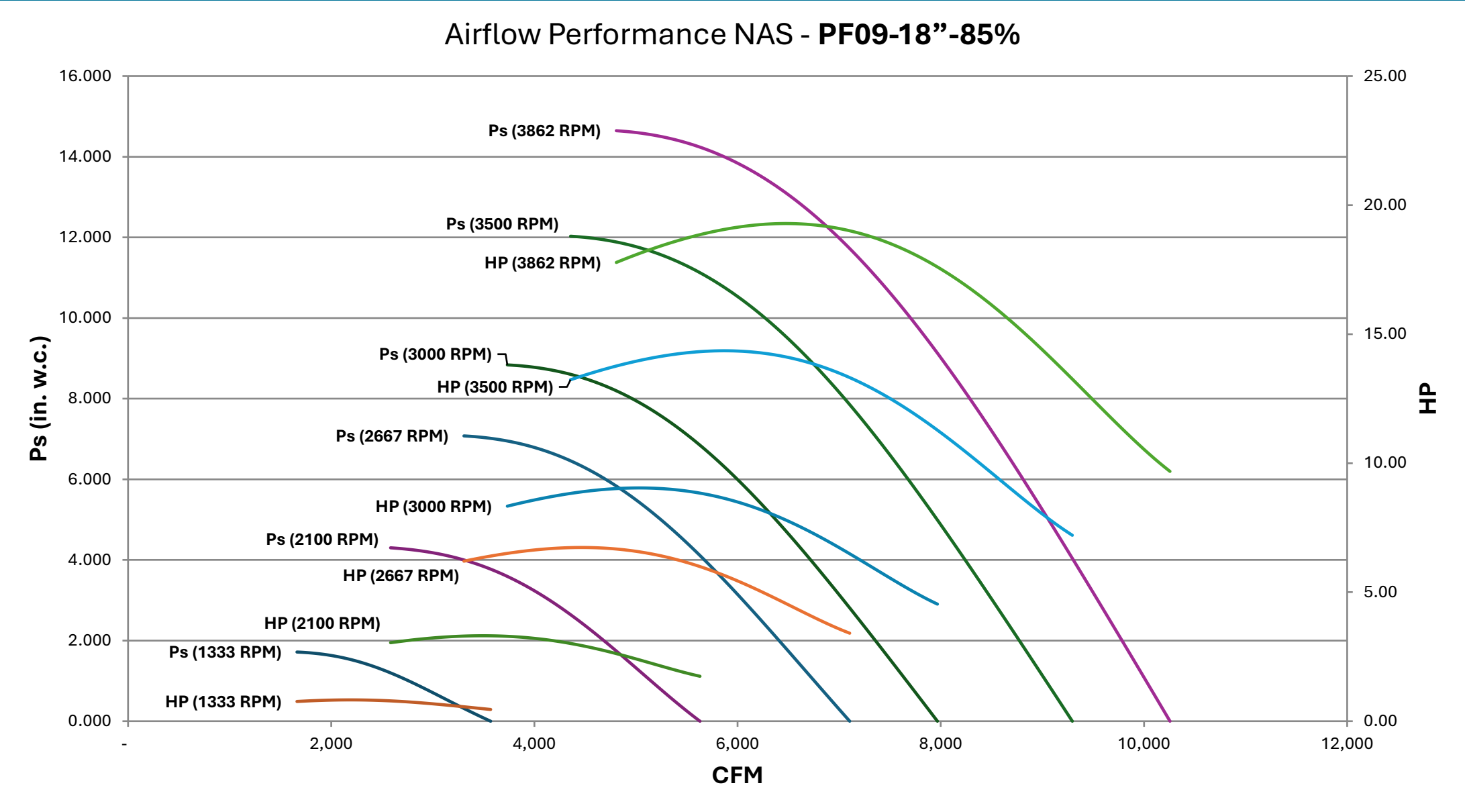
Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	18"
Wheel width	85%
Maximum Wheel Speed	3862 RPM

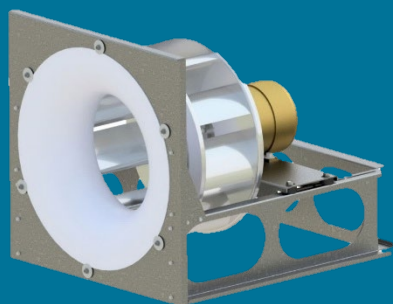


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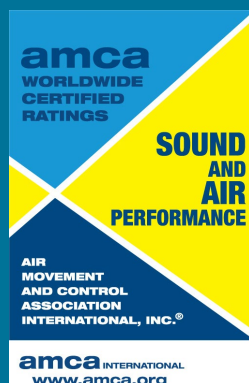
PF09-18-85			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	2770	1335	71	68	74	71	67	66	59	55	71	71	78	75	74	72	63	58
	4787	1982	76	73	84	78	75	77	75	68	78	77	90	84	83	83	81	72
	9926	3826	91	87	90	99	91	92	93	98	97	91	95	101	100	100	98	105
2	1989	1451	69	72	75	69	67	69	62	56	73	75	78	73	73	71	64	60
	4124	1938	74	72	83	76	73	74	71	65	77	76	86	81	81	79	75	69
	9636	3807	92	87	89	99	91	92	92	96	97	91	94	101	100	99	97	102
3	2437	1779	72	70	81	73	69	71	66	61	78	76	85	77	76	74	69	64
	5053	2363	79	74	87	82	77	78	76	71	82	80	87	87	86	83	80	75
	9393	3805	92	87	89	99	90	91	91	93	98	91	94	100	99	99	96	99
4	2814	2056	75	70	86	75	71	72	70	66	81	78	90	80	79	77	73	69
	4862	2447	80	74	84	88	77	77	76	71	84	80	87	91	86	83	79	75
	9167	3811	93	88	88	99	89	91	90	91	98	91	93	100	99	98	94	96
5	3146	2297	79	72	88	79	74	75	73	70	85	81	92	84	82	80	76	73
	5436	2732	83	77	84	90	80	80	79	75	88	82	87	93	90	86	82	79
	8951	3820	94	88	87	99	89	90	89	89	99	91	93	99	98	98	93	93
6	3446	2507	86	74	90	87	76	77	76	73	89	83	93	91	85	82	78	76
	5954	2987	84	80	85	92	82	83	81	77	90	84	88	93	91	89	84	81
	8732	3830	94	88	87	99	88	90	89	87	99	91	93	99	98	97	92	92
7	3722	2699	88	77	92	88	78	79	77	74	91	84	94	94	87	84	80	78
	5359	2953	84	80	85	92	81	82	80	76	91	84	89	94	90	88	83	80
	8502	3839	93	88	87	99	88	89	88	86	99	90	92	99	97	97	92	91
8	3979	2877	86	80	89	90	80	80	79	76	91	86	93	96	89	86	82	79
	5730	3156	85	83	85	95	82	83	81	78	93	86	88	97	92	91	84	82
	8251	3843	92	87	86	98	87	89	88	86	98	90	92	99	97	97	91	90
9	4220	3047	86	83	87	93	81	81	80	77	92	88	92	98	90	88	83	81
	6077	3345	87	85	84	96	83	85	83	80	95	87	89	98	93	93	86	84
	7972	3844	90	86	86	98	87	88	87	85	98	90	91	99	96	96	91	89
10	4449	3210	87	85	86	96	83	83	81	79	94	89	91	100	92	90	84	82
	5339	3315	88	84	84	96	83	84	82	79	96	89	90	100	92	92	85	83
	7688	3848	90	87	86	99	87	88	87	84	98	90	91	99	96	96	90	88
11	4666	3365	89	87	85	97	84	84	83	80	95	91	91	101	93	91	86	84
	5599	3475	89	85	84	96	84	85	83	80	98	90	90	100	93	93	86	84
	7285	3830	90	87	85	99	87	88	86	84	99	90	91	99	96	96	90	87
12	4873	3514	90	87	85	97	85	84	84	81	96	92	92	101	93	92	87	85
	5848	3628	90	86	84	96	85	85	84	82	99	91	91	101	94	93	88	85
	6859	3821	91	87	85	100	86	87	86	83	99	91	91	100	96	95	89	87
13	5072	3656	91	88	85	97	86	85	85	82	97	93	92	102	94	93	88	86
	6086	3774	91	86	84	99	86	86	85	83	100	92	92	102	95	94	89	86
	6364	3821	91	86	84	100	86	87	86	83	100	92	92	102	95	95	89	87
14	5264	3792	92	88	86	99	86	86	85	83	98	94	93	103	95	94	89	87
	5264	3792	92	88	86	99	86	86	85	83	98	94	93	103	95	94	89	87
	5792	3842	92	88	85	99	86	86	86	83	100	94	93	102	95	95	89	87





High performance PF09 Sereres Direct Drive Fan

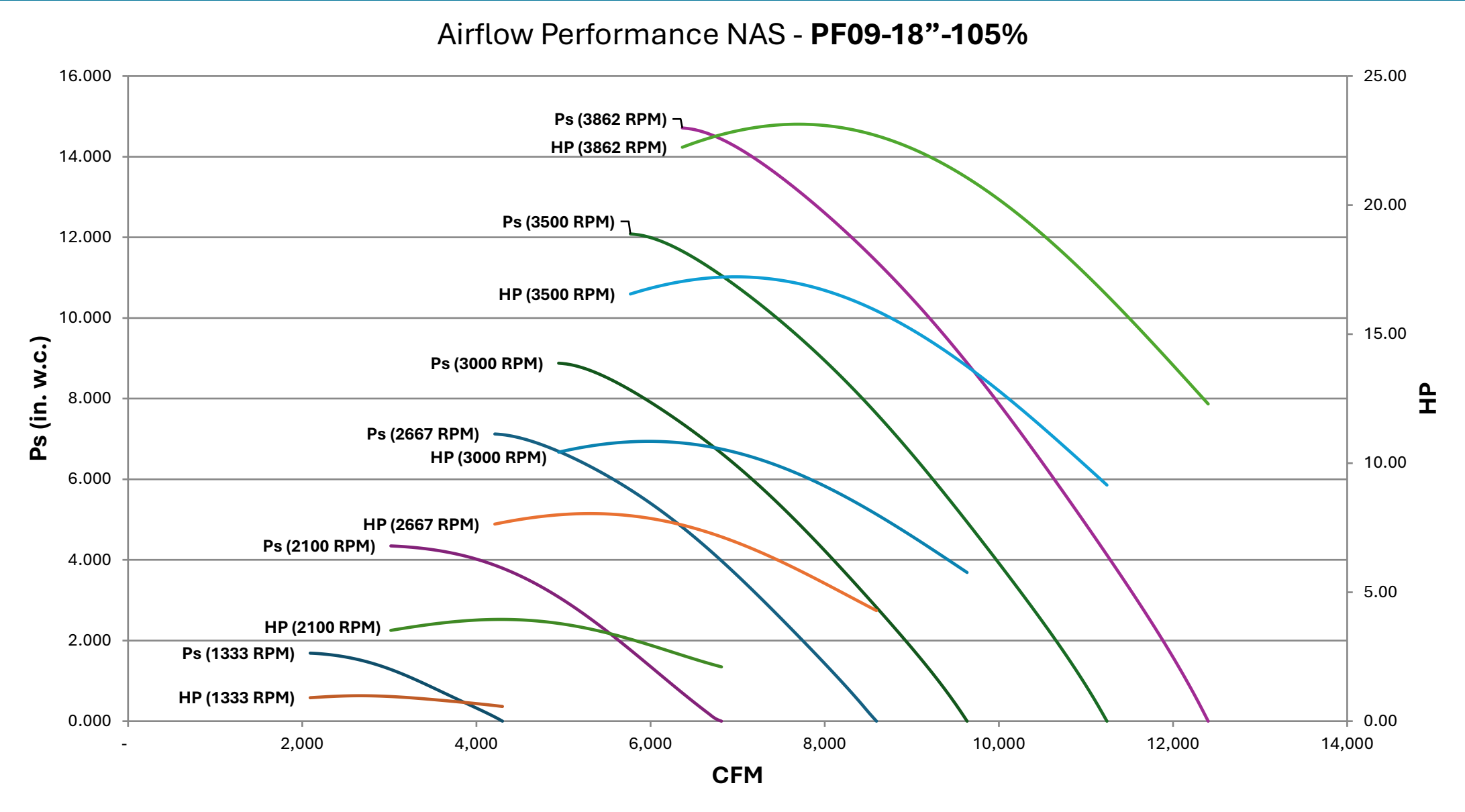
Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	18"
Wheel width	105%
Maximum Wheel Speed	3862 RPM

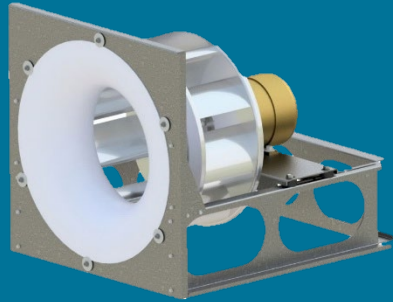


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NAS PF09-18x105 Sound Power Ratings

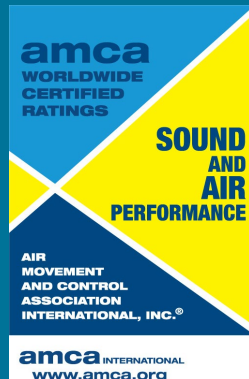
PF09-18-105			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	3380	1345	70	68	76	71	69	68	60	54	72	72	80	77	76	75	65	60
	5840	2004	76	74	87	81	77	77	78	69	80	80	91	88	86	84	84	75
	12110	3848	94	87	91	101	94	95	92	96	101	93	98	105	103	102	97	103
2	2411	1458	70	72	77	69	66	66	62	56	75	76	80	74	73	72	66	61
	4999	1945	75	71	86	77	74	74	71	65	78	77	90	84	83	80	76	71
	11718	3811	94	87	91	101	93	94	91	94	101	93	97	104	103	101	96	101
3	2952	1782	73	69	83	73	69	70	67	62	80	76	87	79	78	75	72	67
	6120	2373	81	74	85	89	78	78	76	71	84	81	90	94	87	84	81	77
	11425	3812	94	87	90	100	92	93	91	92	101	93	97	104	102	101	96	98
4	3409	2055	75	71	87	77	72	73	70	66	83	79	92	83	81	78	75	71
	5891	2456	82	74	85	90	78	78	76	71	86	81	89	94	87	84	81	77
	11138	3818	94	87	90	100	92	93	90	90	101	93	96	103	101	100	95	96
5	3811	2292	79	72	88	80	75	75	73	69	87	81	93	86	83	80	77	74
	6586	2748	86	77	85	91	82	81	79	74	90	84	89	96	92	87	83	80
	10849	3826	94	87	89	100	91	92	89	88	100	93	96	103	101	100	94	94
6	4175	2498	85	74	91	89	77	77	75	71	91	83	94	94	86	83	79	76
	7214	3010	87	80	85	94	84	84	81	77	92	87	90	99	94	90	85	82
	10551	3833	94	87	89	100	91	92	89	86	100	93	95	102	100	99	93	92
7	4510	2685	88	75	92	90	80	78	76	73	93	85	95	96	89	85	81	78
	6494	2978	87	77	85	92	84	82	80	75	92	85	90	96	94	89	84	81
	10237	3838	94	87	88	100	90	91	88	86	100	92	95	102	100	99	93	91
8	4821	2859	87	78	90	92	82	80	78	74	94	87	94	98	92	86	82	79
	5785	2975	86	77	86	92	84	82	79	75	93	86	91	97	94	88	84	80
	8330	3472	92	83	86	96	87	87	84	81	98	90	92	101	97	95	89	86
9	5114	3024	87	79	89	96	85	81	79	75	95	88	94	100	94	88	84	81
	7364	3373	91	81	84	96	86	86	83	79	97	88	90	100	96	93	87	84
	9530	3839	95	86	87	99	89	90	87	84	101	91	94	101	99	98	92	89
10	5390	3187	88	81	88	98	86	83	81	77	97	90	93	102	95	90	85	82
	6468	3323	89	80	84	97	86	85	82	78	97	88	90	101	96	92	86	83
	9122	3835	95	85	86	99	89	90	87	83	101	91	93	101	99	98	91	89
11	5653	3341	90	82	87	100	87	84	82	78	99	91	93	103	96	92	86	83
	6784	3483	91	81	84	97	87	86	83	79	98	90	91	102	97	94	88	84
	8668	3829	94	84	86	99	88	89	86	83	101	91	93	101	98	97	91	88
12	5905	3488	91	83	87	99	88	85	83	79	101	92	93	103	97	93	87	84
	7086	3636	92	82	84	97	87	87	84	80	99	91	92	103	97	95	89	85
	8162	3823	94	83	85	99	88	89	86	82	101	90	92	101	98	97	91	87
13	6146	3629	92	84	87	100	88	87	84	80	102	93	94	104	97	95	88	85
	7375	3783	93	83	84	100	88	89	85	81	100	92	92	103	98	97	90	86
	7594	3819	93	83	85	100	88	89	85	81	101	92	92	103	98	97	90	87
14	6378	3765	93	85	87	101	89	88	85	81	103	94	94	104	98	96	89	86
	6378	3765	93	85	87	101	89	88	85	81	103	94	94	104	98	96	89	86
	6959	3822	93	85	84	101	88	89	85	82	100	93	93	103	98	97	90	87





High performance PF09 Sereres Direct Drive Fan

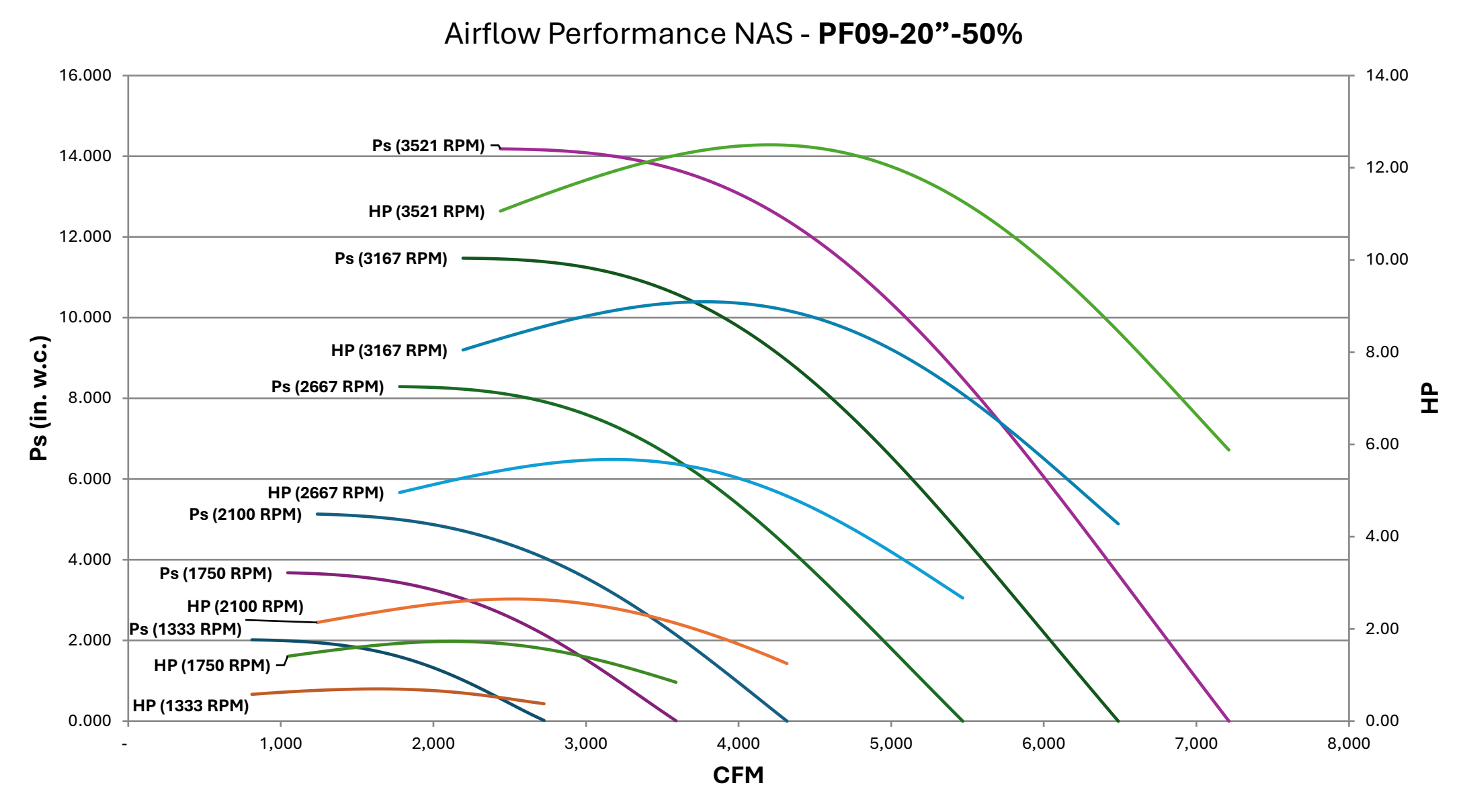
Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	20"
Wheel width	50%
Maximum Wheel Speed	3521 RPM

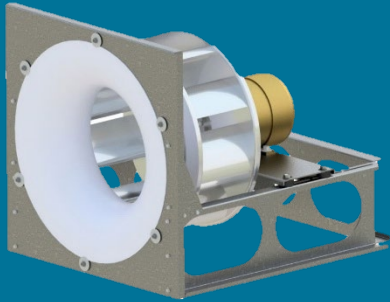


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NAS PF09-20x50 Sound Power Ratings

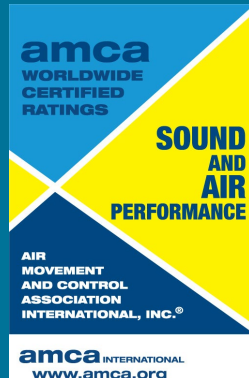
PF09-20-50			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	2224	1341	68	69	76	70	67	68	62	58	68	70	75	72	73	74	66	64
	3844	2039	76	73	85	79	77	79	82	73	77	75	85	83	85	84	87	80
	6912	3473	90	83	88	92	89	90	89	93	95	87	90	96	97	97	93	98
2	1191	1345	69	77	75	68	63	64	61	57	72	79	76	70	71	68	64	63
	2964	1830	73	69	84	74	71	72	71	66	75	72	82	78	79	78	75	71
	6666	3452	89	83	87	92	89	89	88	91	94	87	90	95	97	96	92	96
3	1459	1645	73	71	85	74	67	68	66	63	75	74	84	76	75	73	70	68
	3025	2022	72	69	88	76	72	73	72	68	77	73	86	79	80	78	76	72
	6462	3450	89	82	87	91	88	89	88	90	93	86	89	95	96	95	92	94
4	1684	1897	75	72	87	76	70	71	70	67	78	76	86	79	79	76	73	71
	3492	2333	76	71	88	81	76	76	76	72	80	76	88	84	84	81	79	76
	6287	3462	88	82	87	91	87	88	87	88	92	85	89	95	96	95	91	92
5	1883	2118	77	73	90	79	73	74	73	70	81	77	90	81	81	79	76	74
	3254	2396	77	72	89	86	77	76	76	73	82	77	89	87	85	82	79	77
	6128	3480	88	81	86	90	86	87	86	87	91	85	89	95	95	94	90	90
6	2063	2316	80	74	90	82	76	76	75	73	83	79	91	85	84	81	79	76
	3565	2615	81	74	91	87	79	79	78	75	85	80	90	91	88	84	81	79
	5972	3500	89	81	86	91	86	87	86	86	92	85	88	95	95	94	90	90
7	2228	2497	83	76	92	87	78	78	77	75	86	81	92	89	86	83	80	78
	3851	2816	84	76	90	89	81	81	80	78	87	82	89	93	90	86	83	82
	5804	3518	90	81	86	92	86	87	86	86	93	85	88	96	95	94	90	90
8	2382	2666	87	77	95	88	80	80	79	77	88	82	93	92	88	85	82	80
	3430	2823	87	78	91	89	82	81	80	78	89	83	91	94	90	87	83	82
	4939	3279	89	79	86	93	85	85	84	83	93	85	88	95	94	91	88	87
9	2526	2823	88	79	92	90	82	81	81	79	90	84	92	94	90	87	84	82
	3637	2988	89	79	89	92	83	83	82	80	91	84	90	95	92	88	85	83
	5237	3474	91	80	86	94	86	86	86	85	95	86	88	96	95	93	89	88
10	2663	2973	90	80	91	92	83	83	82	80	91	85	91	95	92	88	85	84
	3835	3148	91	80	88	94	85	84	83	82	93	85	90	97	93	90	86	85
	5104	3518	93	81	86	94	87	87	86	85	96	87	89	97	96	93	89	89
11	2793	3116	91	81	90	95	85	84	83	82	93	86	91	97	93	90	86	85
	3352	3173	92	81	90	95	85	84	84	83	93	86	91	97	94	90	87	86
	4760	3498	94	82	87	95	87	87	86	85	96	87	89	97	96	93	89	88
12	2917	3254	93	82	89	96	86	85	84	84	94	87	91	98	95	91	87	87
	3500	3313	94	82	89	97	87	86	85	84	95	87	91	98	95	92	88	87
	4338	3478	95	82	88	96	88	87	86	85	97	88	90	98	96	93	89	88
13	3036	3386	95	82	89	97	87	86	85	85	96	88	91	99	96	92	88	88
	3643	3447	95	83	89	97	88	87	86	85	96	88	91	99	96	93	89	88
	3825	3475	95	83	89	97	88	87	86	85	96	88	91	99	96	93	89	88
14	3151	3512	96	83	89	97	88	87	86	86	97	89	92	99	96	94	89	89
	3151	3512	96	83	89	97	88	87	86	86	97	89	92	99	96	94	89	89
	3209	3516	96	83	89	97	88	87	86	86	97	89	92	99	96	94	89	89





High performance PF09 Sereres Direct Drive Fan

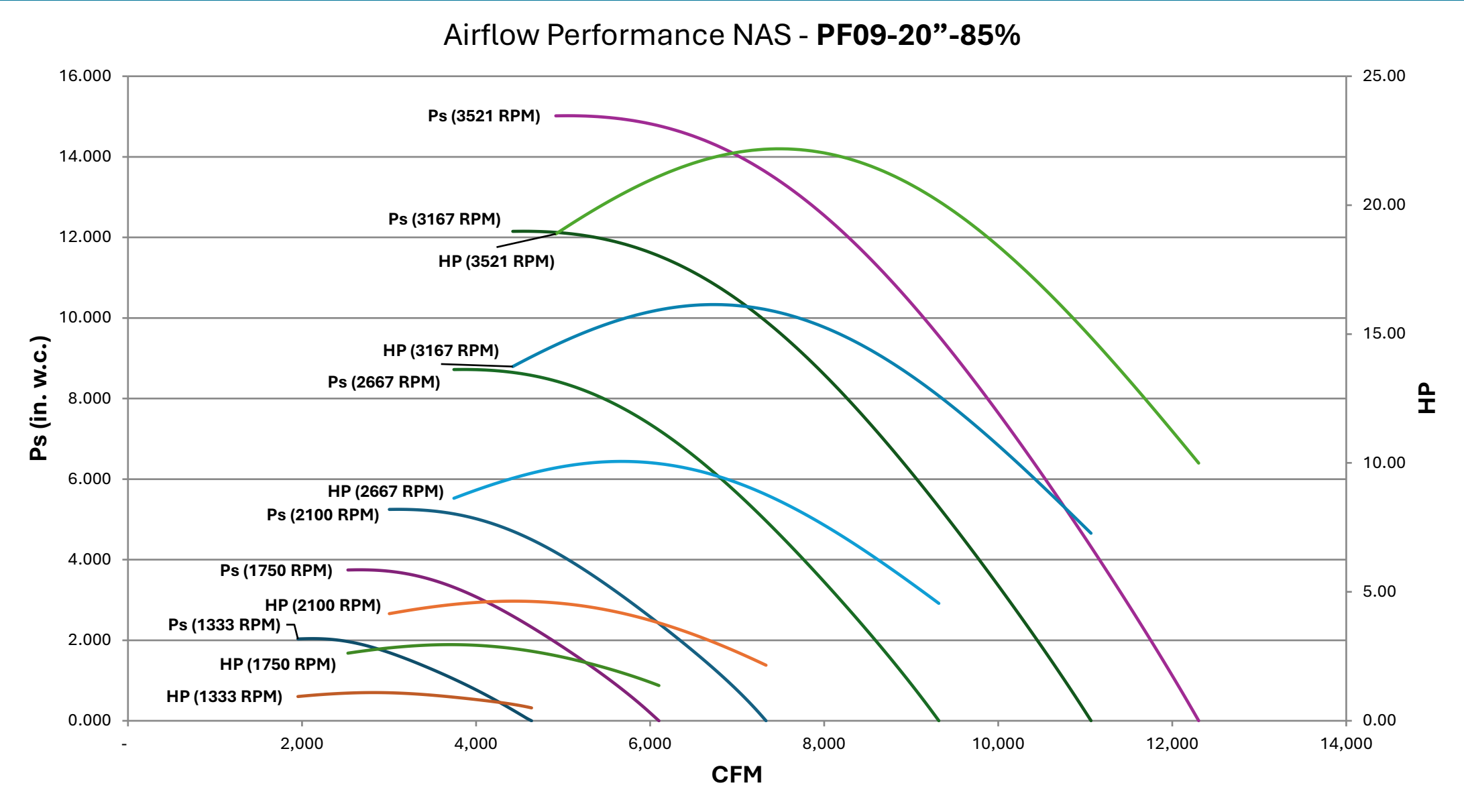
Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	20"
Wheel width	85%
Maximum Wheel Speed	3521 RPM

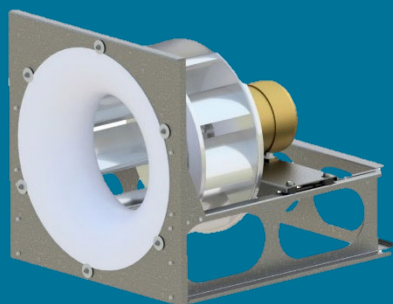


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NAS PF09-20x85 Sound Power Ratings

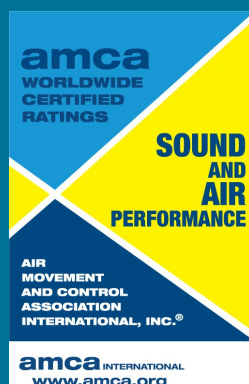
PF09-20-85			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	3807	1339	72	69	78	70	67	69	62	58	81	73	81	75	75	76	67	64
	6578	2023	80	76	90	80	76	77	84	73	83	81	91	87	86	83	91	81
	11909	3486	101	97	92	98	90	90	89	99	106	94	96	102	100	98	94	105
2	2422	1332	72	78	78	68	63	65	61	58	81	82	79	71	71	69	66	65
	5021	1801	76	72	87	74	71	73	70	65	79	76	86	81	80	79	76	71
	11603	3478	100	97	91	97	90	90	88	96	104	94	96	102	100	98	94	103
3	2966	1627	71	71	85	72	67	69	66	63	79	75	88	77	76	73	71	68
	6150	2193	80	76	90	80	75	76	76	71	85	80	91	87	85	82	81	76
	11312	3478	99	96	91	97	89	89	88	94	103	94	96	101	99	98	94	100
4	3425	1874	74	73	88	75	70	72	70	67	82	79	90	82	81	79	76	74
	5918	2272	81	76	89	80	75	76	75	71	86	80	91	87	85	82	79	76
	11030	3483	98	96	90	97	89	89	87	91	102	94	96	101	99	97	94	98
5	3829	2089	77	76	92	77	73	75	73	71	87	84	95	86	85	84	81	79
	6617	2533	87	81	87	88	79	79	77	75	89	83	89	92	89	85	82	79
	10748	3490	97	96	89	96	88	88	87	89	101	94	96	101	98	97	93	95
6	4195	2283	81	76	92	81	76	76	75	73	88	84	95	88	86	85	82	79
	7249	2767	91	88	88	89	81	81	79	77	92	86	90	94	91	87	83	82
	10460	3496	96	95	89	96	87	88	86	86	100	94	95	100	98	97	93	92
7	4531	2460	84	78	94	89	78	78	77	75	90	84	96	92	88	85	82	80
	6524	2731	92	87	91	92	80	81	79	77	93	85	92	95	91	87	83	81
	10156	3501	97	95	88	96	87	88	86	85	100	94	94	100	97	96	92	91
8	4844	2625	90	82	98	90	79	79	78	77	93	85	98	94	90	86	82	80
	6976	2913	93	89	89	94	82	82	80	78	95	87	91	97	92	89	84	83
	9831	3505	97	95	88	96	86	87	86	85	100	94	94	100	97	95	91	90
9	5137	2778	92	84	96	92	81	80	79	78	95	87	97	96	92	87	83	81
	7397	3088	94	90	87	97	83	84	82	80	97	89	91	98	93	90	86	84
	9473	3503	98	95	87	96	86	87	85	84	99	93	92	99	96	95	90	89
10	5415	2923	94	85	94	95	82	82	80	79	97	88	95	98	93	88	84	83
	6498	3044	94	86	89	98	83	83	81	80	96	89	92	98	93	90	85	83
	9078	3500	98	95	87	96	85	86	85	83	99	93	91	99	96	94	89	88
11	5680	3065	95	87	91	99	84	83	81	80	98	89	94	100	94	90	85	84
	6816	3191	95	88	87	100	84	84	82	81	98	91	91	100	94	91	86	85
	8637	3494	98	94	86	98	86	86	85	83	100	93	91	100	96	94	89	87
12	5932	3200	97	88	89	101	85	84	82	81	99	91	93	102	95	91	86	85
	7118	3331	97	89	85	101	85	85	83	82	99	92	90	102	96	92	87	86
	8142	3489	99	94	85	101	86	86	85	83	102	92	91	102	96	94	89	87
13	6174	3329	98	90	88	103	86	85	83	82	101	92	92	104	96	92	87	86
	7409	3465	98	90	85	102	86	86	84	83	100	93	91	103	96	94	88	87
	7584	3490	99	91	85	101	86	86	85	83	101	93	91	103	96	94	88	87
14	6407	3453	99	90	87	104	87	85	84	83	102	93	92	105	97	93	88	87
	6407	3453	99	90	87	104	87	85	84	83	102	93	92	105	97	93	88	87
	6958	3505	99	91	86	102	87	86	85	83	101	93	92	103	97	94	88	87





High performance PF09 Sereres Direct Drive Fan

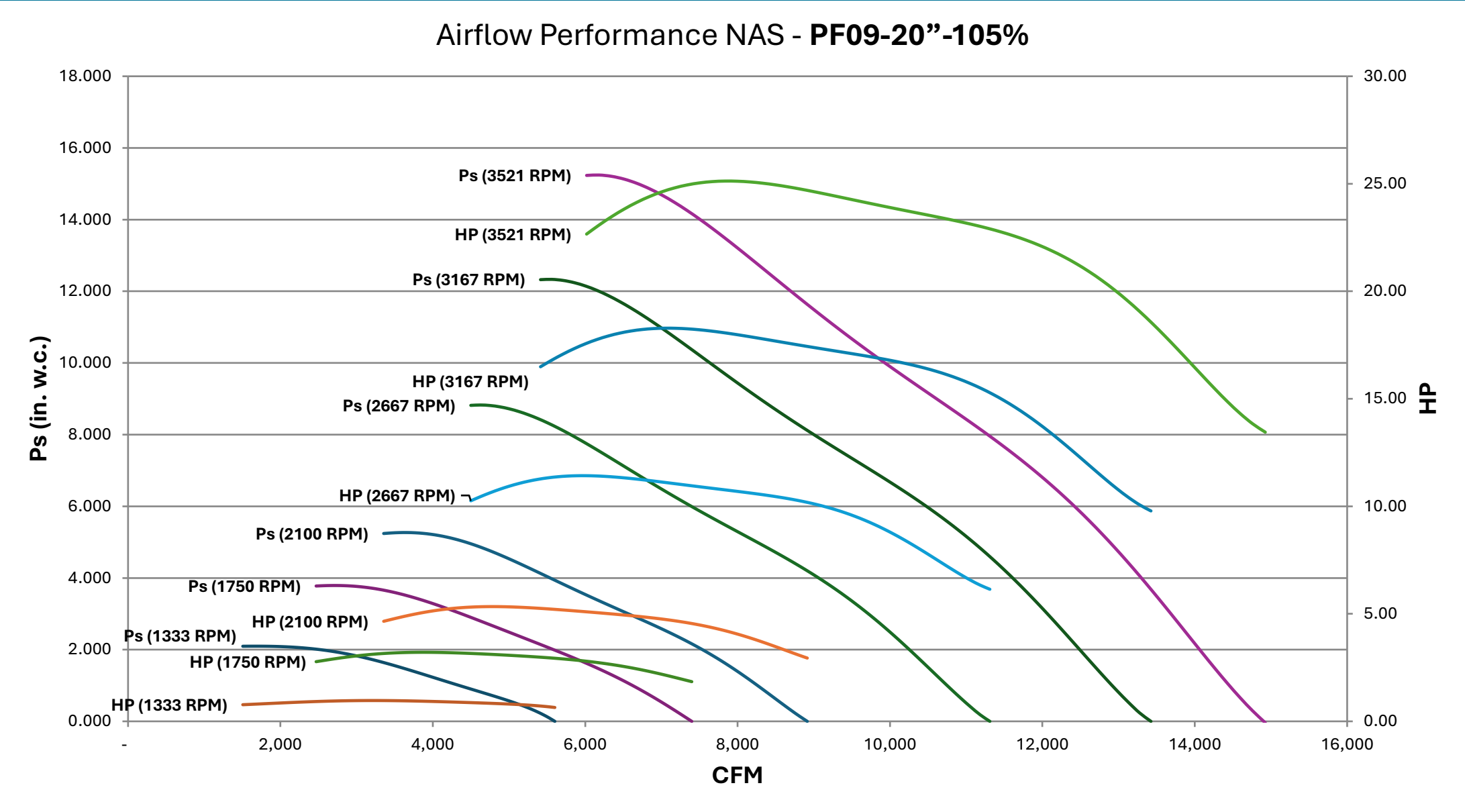
Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	20"
Wheel width	105%
Maximum Wheel Speed	3521 RPM

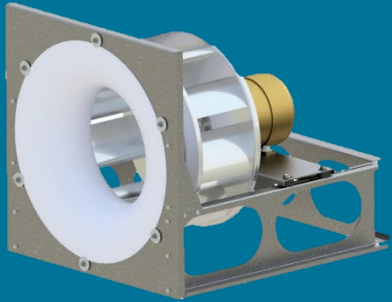


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NAS PF09-20x105 Sound Power Ratings

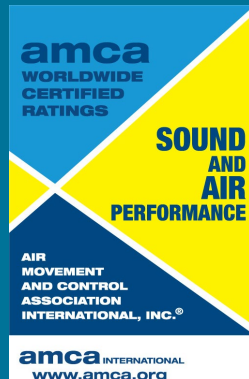
PF09-20-105			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	4388	1340	70	71	84	73	70	70	63	59	71	75	84	80	79	77	69	66
	7583	1955	77	75	93	83	84	82	83	73	80	81	94	92	92	88	90	80
	14321	3495	93	87	92	100	98	100	96	102	93	92	97	105	107	108	102	109
2	2520	1333	69	79	81	68	65	65	61	58	73	84	81	74	73	71	67	66
	6271	1883	75	73	92	79	78	76	74	69	79	79	93	88	87	83	79	74
	14006	3509	93	87	92	100	97	99	95	99	93	93	97	105	106	107	100	106
3	3086	1623	71	72	87	73	68	68	66	63	78	78	91	79	76	75	72	69
	6400	2078	78	74	96	81	79	77	75	71	82	80	95	90	88	83	80	76
	13631	3506	93	87	91	101	96	98	93	96	93	93	96	104	105	105	99	103
4	3563	1862	74	71	89	76	71	71	70	67	81	79	93	83	80	77	75	73
	7388	2397	81	77	90	95	84	80	78	75	85	84	93	95	93	87	83	80
	13206	3496	92	87	91	101	95	96	91	93	93	94	96	104	104	104	97	99
5	3984	2069	77	71	94	78	77	73	73	70	84	80	97	87	85	80	78	75
	6884	2462	82	76	92	95	84	80	78	76	87	84	94	95	93	87	83	81
	12733	3484	92	86	90	101	94	94	89	89	93	94	96	104	103	102	95	94
6	4364	2258	79	73	94	82	80	76	75	73	86	82	96	90	88	82	80	78
	7541	2698	88	79	92	95	86	83	81	79	90	86	94	97	96	90	85	83
	12222	3479	92	86	90	101	93	93	88	87	93	94	95	103	103	101	94	93
7	4714	2432	83	76	95	94	82	78	77	75	88	84	97	95	91	85	82	80
	6788	2706	90	79	95	96	86	83	81	79	91	86	97	99	96	90	85	83
	11730	3492	92	86	89	101	92	92	88	87	94	94	95	103	102	100	93	92
8	5040	2594	88	78	96	95	84	81	79	77	91	86	98	98	94	88	84	82
	7258	2895	92	81	93	98	87	85	82	80	93	88	95	101	97	92	87	85
	11101	3493	92	85	88	100	91	91	87	86	94	93	94	102	102	99	92	91
9	5345	2744	91	79	96	96	86	83	81	79	93	87	98	99	95	90	86	84
	7697	3070	94	82	91	102	88	86	84	82	95	90	94	102	98	94	88	87
	10504	3501	94	85	88	101	91	91	87	86	95	93	94	103	101	99	92	91
10	5634	2886	93	81	94	97	87	84	82	80	94	89	97	101	96	91	87	85
	8113	3234	96	84	89	103	89	88	85	83	96	92	94	104	100	95	90	88
	9891	3503	95	85	88	102	91	90	87	85	96	93	94	103	101	98	92	90
11	5909	3025	94	82	92	101	88	86	83	81	95	90	96	102	97	93	88	86
	7091	3192	96	83	91	102	89	87	84	83	96	92	94	104	99	94	89	88
	9267	3503	98	85	88	103	91	90	87	85	98	94	93	105	101	98	92	90
12	6172	3158	96	83	91	102	89	87	84	82	96	92	95	104	98	94	89	87
	7406	3332	98	85	89	104	90	88	85	84	97	93	94	106	100	96	90	89
	8639	3503	99	86	88	104	91	90	87	85	98	94	94	106	101	98	92	90
13	6424	3285	97	84	90	103	90	88	85	83	97	93	94	105	99	95	90	89
	7709	3466	99	86	89	104	91	89	86	85	98	94	94	106	100	97	91	90
	8012	3507	99	86	89	104	91	89	87	85	98	95	94	106	101	97	91	90
14	6667	3408	98	85	89	104	90	89	86	84	98	94	94	106	100	96	91	90
	6667	3408	98	85	89	104	90	89	86	84	98	94	94	106	100	96	91	90
	7392	3514	99	86	89	104	91	90	87	85	98	95	94	106	101	97	91	90





High performance PF09 Sereres Direct Drive Fan

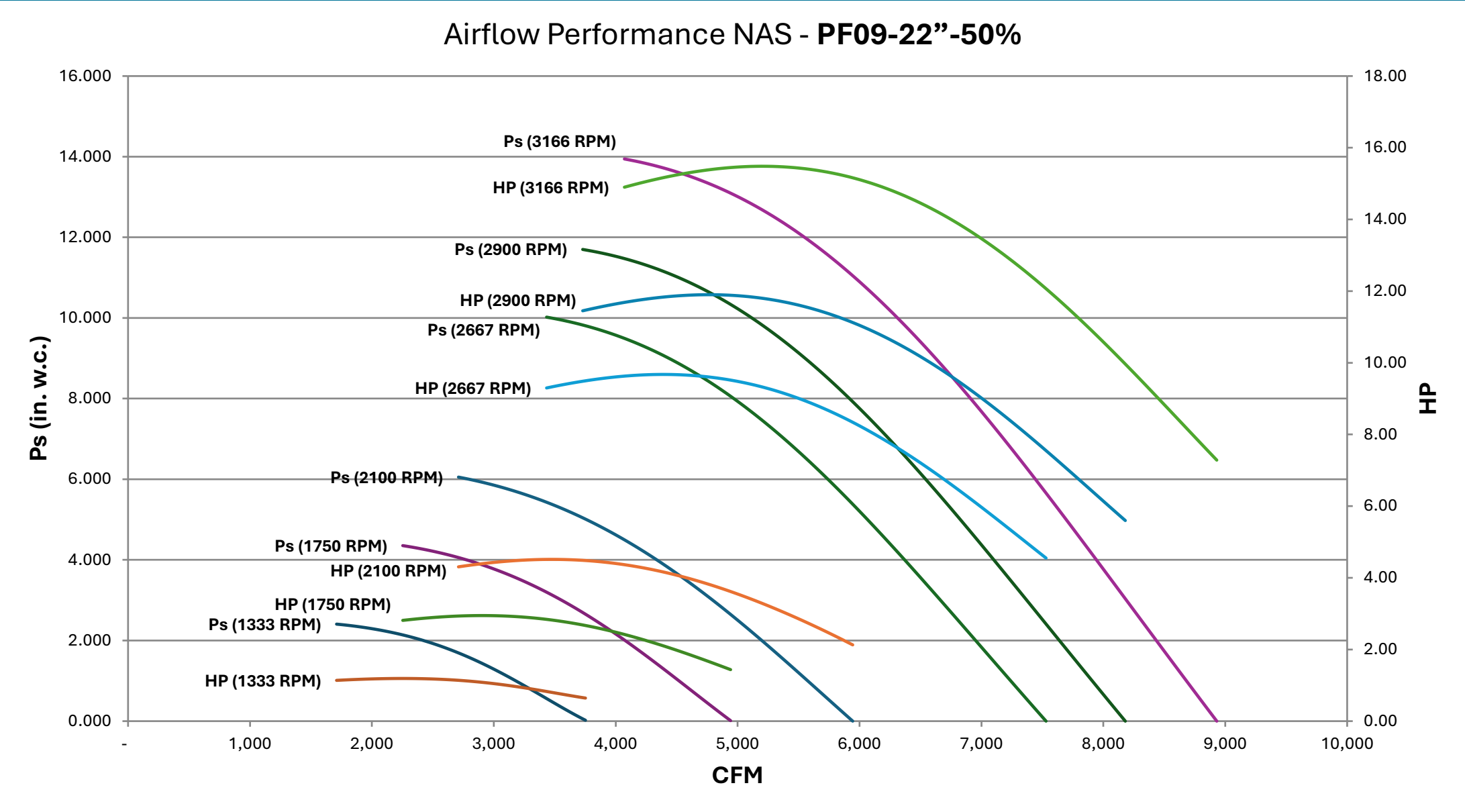
Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	22"
Wheel width	50%
Maximum Wheel Speed	3166 RPM

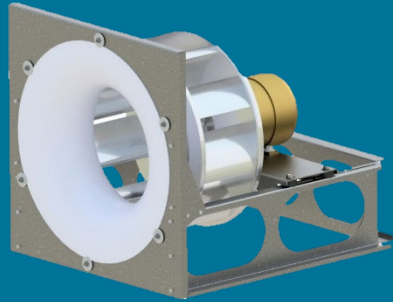


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NAS PF09-22x50 Sound Power Ratings

PF09-22-50			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	3173	1330	71	71	79	72	70	72	65	61	71	73	79	75	77	78	70	67
	5484	2072	78	76	87	82	81	82	87	77	79	79	89	87	89	87	92	86
	8541	3117	90	85	90	93	91	91	90	94	94	89	92	97	99	97	94	99
2	2408	1331	71	77	79	69	66	66	63	60	71	78	78	73	73	71	67	66
	4162	1788	74	73	86	77	75	76	74	69	76	76	84	81	83	81	79	74
	8235	3098	89	84	89	93	90	90	90	92	93	88	91	97	98	96	93	97
3	1826	1480	73	77	84	72	68	69	67	63	75	79	84	76	76	73	70	68
	3786	1828	73	72	88	76	74	74	73	68	77	75	86	80	81	79	76	73
	7983	3097	88	83	89	92	89	89	89	90	93	87	91	96	98	95	93	95
4	2108	1707	75	74	88	76	71	72	71	67	79	78	88	80	80	76	74	71
	4372	2110	76	73	90	79	77	77	76	72	81	77	90	84	85	82	80	77
	7767	3108	88	83	89	92	89	88	88	89	92	86	91	96	97	95	92	93
5	2357	1906	77	75	90	79	74	75	74	71	81	79	90	82	82	79	77	74
	4073	2163	77	74	91	80	78	78	77	73	82	79	92	84	86	82	80	77
	7570	3124	87	82	88	91	88	88	88	87	91	86	90	96	97	94	91	91
6	2582	2084	79	76	93	81	76	77	76	73	83	80	93	85	85	81	79	77
	4462	2362	80	75	91	83	80	80	79	76	85	81	92	88	89	84	82	80
	7376	3142	88	82	89	92	88	88	87	87	92	86	91	96	97	94	91	91
7	2789	2247	82	77	93	83	79	79	78	75	86	82	94	87	87	83	81	79
	4819	2543	84	77	93	88	82	82	81	78	87	82	93	94	91	87	84	82
	7168	3158	89	82	89	93	88	88	87	86	93	86	91	97	97	94	91	90
8	2981	2398	85	78	94	89	81	80	80	77	88	83	94	93	89	85	83	80
	4292	2546	86	78	94	89	82	82	81	79	89	83	94	95	91	87	84	82
	6930	3166	90	82	89	94	88	87	87	86	94	86	91	97	97	93	90	90
9	3162	2540	87	79	95	89	82	82	81	79	90	85	95	94	91	87	84	82
	4553	2695	89	80	95	90	84	83	83	81	91	85	94	96	93	88	86	84
	6557	3144	91	82	89	95	88	87	87	85	95	87	91	98	97	93	90	89
10	3333	2673	89	80	96	90	84	83	83	81	91	86	96	95	93	88	86	84
	4800	2839	91	81	93	92	86	85	84	82	93	86	93	97	94	90	87	86
	6295	3157	92	82	90	95	88	87	87	85	95	87	91	98	97	93	90	89
11	3496	2803	91	82	95	92	86	85	84	82	93	87	95	97	94	90	87	85
	4195	2857	91	82	95	92	86	85	85	83	93	87	95	97	95	90	88	86
	5866	3139	93	83	90	96	88	88	87	85	96	88	92	98	97	93	90	89
12	3651	2927	92	83	94	93	87	86	85	84	94	88	94	98	95	91	88	87
	4381	2984	93	83	94	94	88	87	86	85	94	88	94	98	96	92	89	88
	5339	3121	94	83	92	96	89	88	87	85	96	89	93	99	97	93	90	88
13	3801	3045	94	83	93	96	88	87	86	85	95	89	94	100	96	92	89	88
	4561	3104	94	84	93	97	88	88	87	86	96	89	94	100	97	93	90	89
	4700	3120	95	84	93	97	89	88	87	86	96	89	94	100	97	93	90	89





High performance PF09 Sereres Direct Drive Fan

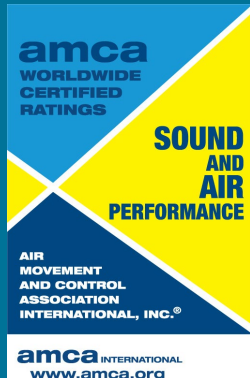
Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	22"
Wheel width	85%
Maximum Wheel Speed	3166 RPM

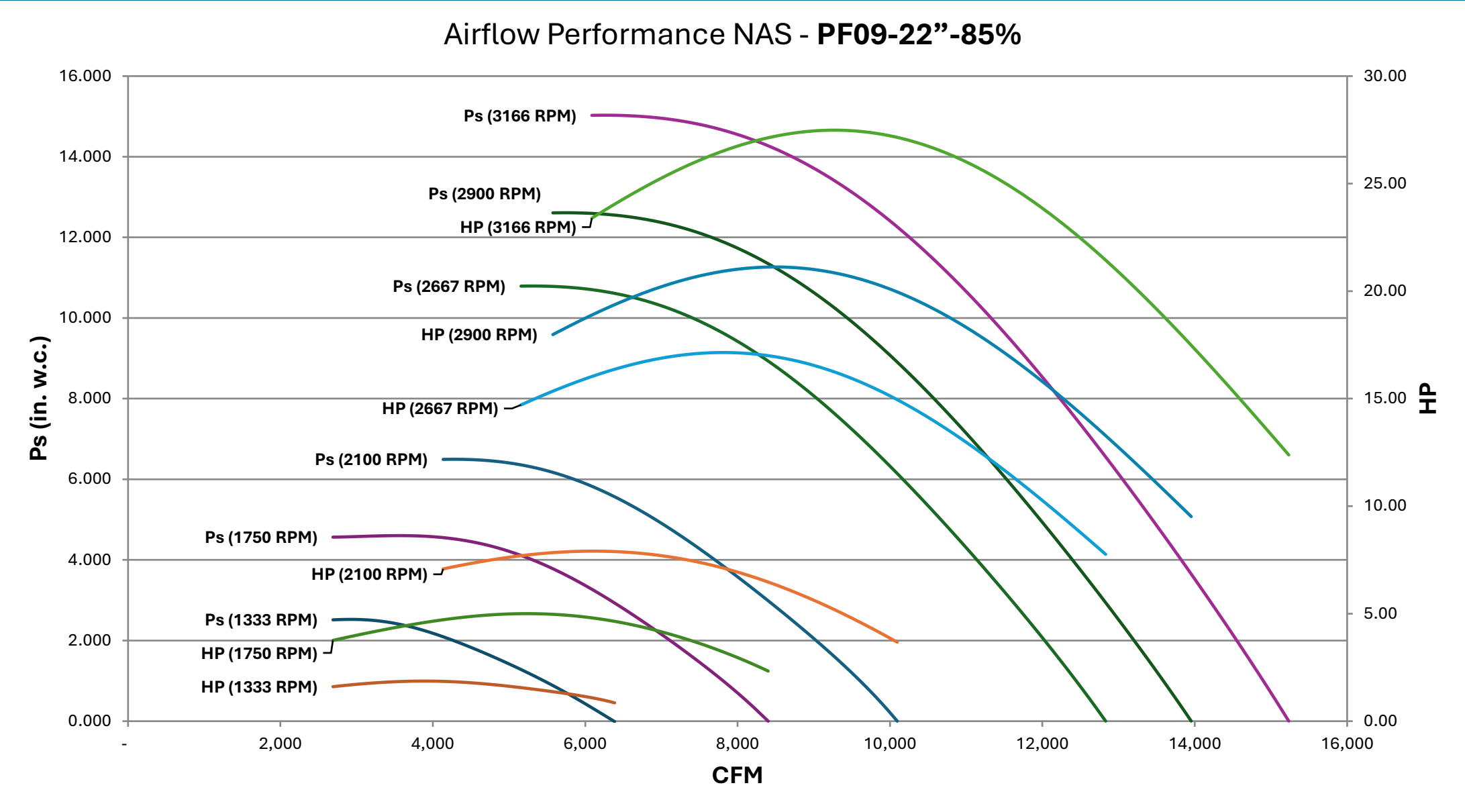


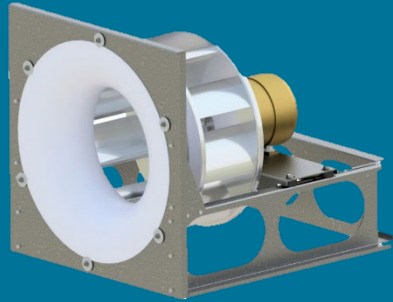
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NAS PF09-22x85 Sound Power Ratings

PF09-22-85			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	5458	1332	74	72	82	72	71	73	66	62	80	76	84	79	79	79	72	67
	9432	2066	85	80	92	83	80	81	89	78	86	85	94	92	90	87	96	88
	14715	3128	100	97	94	99	91	91	90	98	105	95	98	103	101	99	96	106
2	4250	1329	72	77	81	69	67	68	63	61	81	80	82	76	74	72	68	67
	7344	1804	79	75	90	78	75	76	75	70	83	81	90	86	84	82	81	74
	14335	3122	100	97	93	99	90	91	90	96	104	95	98	102	101	98	95	104
3	3612	1460	72	79	83	71	68	69	67	63	80	82	88	77	76	74	71	68
	7489	1952	80	76	91	78	76	77	76	71	85	81	92	87	85	83	81	76
	13975	3122	99	96	93	98	90	90	89	94	103	95	98	102	100	98	95	101
4	4170	1680	75	75	90	75	71	73	71	67	83	81	93	82	81	79	76	74
	7206	2025	81	76	91	78	76	77	75	71	86	81	92	87	85	82	80	76
	13625	3126	98	96	92	98	89	90	89	91	102	95	97	102	100	98	94	98
5	4663	1874	78	77	92	77	74	75	74	71	87	85	94	87	85	84	81	78
	8058	2258	86	79	91	81	79	79	78	75	88	84	93	90	88	85	82	79
	13277	3133	97	96	91	97	89	89	88	89	101	95	97	101	99	97	94	96
6	5108	2048	81	78	95	80	76	77	76	73	88	86	98	89	87	85	82	79
	8827	2465	91	84	90	90	82	81	80	77	91	86	93	95	91	87	84	81
	12919	3138	96	96	91	97	88	89	87	86	100	95	97	101	99	97	94	93
7	5517	2207	84	78	96	82	78	79	77	75	89	86	99	91	88	85	83	80
	7944	2439	90	82	94	93	81	81	79	77	92	85	95	96	91	86	83	81
	12542	3143	97	96	91	97	88	88	87	86	100	95	96	100	98	96	93	92
8	5898	2354	87	80	96	85	80	80	79	77	91	86	100	92	90	85	83	80
	8494	2601	93	88	95	94	82	83	81	79	95	87	96	97	93	88	85	83
	12232	3161	97	96	90	97	87	88	87	85	100	94	95	100	98	96	92	91
9	6255	2492	90	82	98	92	81	81	80	78	94	87	100	96	92	87	84	82
	9007	2756	95	91	95	96	84	84	82	80	97	89	96	98	94	90	86	84
	11694	3144	97	95	90	97	87	88	86	84	99	93	94	100	97	95	91	89
10	6594	2621	93	85	101	93	83	82	81	80	97	88	102	97	94	88	85	83
	7913	2723	94	86	98	95	83	84	82	80	96	89	98	98	94	90	86	84
	11202	3141	98	95	90	98	86	87	85	84	99	93	94	100	97	94	90	88
11	6916	2749	95	87	101	95	84	83	82	81	98	90	101	99	95	90	86	84
	8299	2855	95	87	96	97	85	85	83	81	98	90	97	100	95	91	87	85
	10653	3136	98	94	90	100	86	87	85	84	100	93	94	101	97	94	89	88
12	7223	2870	97	88	98	98	85	84	83	82	100	91	100	101	96	91	87	85
	8668	2980	96	89	94	99	86	86	84	82	99	92	96	101	96	92	88	86
	10037	3131	98	94	90	102	86	87	85	83	101	92	94	102	97	94	89	88
13	7518	2985	98	89	96	100	86	85	84	83	101	92	98	102	97	92	88	86
	9022	3100	98	90	92	102	87	86	85	83	100	93	95	102	97	94	89	87
	9343	3133	98	91	91	102	87	87	85	83	100	93	94	103	97	94	89	87
14	7802	3097	99	90	95	103	87	86	85	84	102	93	97	104	98	93	89	87
	7802	3097	99	90	95	103	87	86	85	84	102	93	97	104	98	93	89	87
	8563	3147	99	91	92	103	87	87	85	84	101	93	95	104	98	94	89	88







High performance PF09 Sereres Direct Drive Fan

Wheel Material	Aluminum
Blade Count	9
Drive Type	Direct
Nominal wheel size	22"
Wheel width	105%
Maximum Wheel Speed	3166 RPM



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NAS PF09-22x105 Sound Power Ratings

PF09-22-105			Inlet								Discharge							
Ps	CFM	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
1	6697	1301	73	74	86	75	74	74	67	63	77	78	89	84	81	80	72	67
	11572	2007	80	81	96	87	87	84	86	78	86	86	99	96	95	90	93	84
	18817	3136	91	90	96	104	99	98	93	100	95	95	100	110	108	105	99	106
2	5244	1296	71	80	84	69	69	69	62	60	77	83	86	78	76	74	68	64
	9062	1774	77	78	94	82	81	79	75	71	83	82	95	91	89	85	81	74
	18253	3114	90	89	95	103	98	97	93	97	94	94	100	110	107	104	98	104
3	4295	1450	72	81	86	72	71	69	65	62	81	85	90	79	78	75	70	66
	8906	1884	77	78	96	81	79	78	75	71	85	83	95	90	88	84	80	75
	17750	3107	90	89	95	103	97	96	92	95	94	94	99	109	106	103	97	101
4	4959	1660	74	76	91	75	71	72	68	66	84	81	96	83	81	78	73	70
	8569	1961	77	78	96	81	78	77	74	71	86	83	97	90	87	83	79	75
	17289	3111	90	88	94	102	96	95	91	92	94	94	99	109	105	101	96	99
5	5545	1866	78	78	95	79	74	73	71	68	88	83	97	87	83	79	76	73
	9582	2173	79	78	96	84	81	80	77	75	88	85	100	93	90	86	82	79
	16850	3121	90	88	93	101	95	93	90	90	95	94	98	109	104	100	95	96
6	6074	2042	78	78	98	81	77	77	73	71	89	84	101	89	86	83	79	76
	10496	2379	81	80	94	94	84	83	80	78	89	87	98	100	94	89	85	82
	16412	3133	90	87	93	100	93	92	89	88	95	94	98	108	103	99	94	94
7	6560	2200	80	78	98	84	80	79	76	73	90	86	101	92	88	85	81	78
	9446	2370	80	79	96	94	84	83	79	76	90	87	100	99	93	89	84	81
	15957	3145	89	87	92	100	93	92	89	87	95	94	97	108	103	99	94	93
8	7013	2342	81	79	98	89	82	81	78	75	91	87	102	96	91	87	83	80
	10099	2531	82	80	96	94	86	85	81	78	91	88	99	102	96	91	86	83
	15463	3152	89	87	92	100	93	92	88	87	94	94	97	108	103	99	93	92
9	7439	2475	83	79	100	94	84	83	79	77	92	88	103	101	93	89	85	82
	10712	2683	84	81	95	96	87	86	82	80	93	89	98	104	97	93	87	85
	14910	3152	88	86	91	100	92	91	88	86	94	94	96	108	102	98	92	91
10	7841	2605	84	81	99	96	85	84	80	78	93	89	102	103	95	91	86	84
	11291	2826	85	82	93	98	88	87	84	81	94	91	98	105	98	94	88	86
	14280	3149	88	86	91	101	92	91	87	85	94	94	96	108	102	98	92	90
11	8224	2732	85	82	98	98	86	85	82	79	94	91	101	104	96	92	87	85
	9869	2803	86	82	95	98	87	87	83	80	95	91	99	104	97	93	88	86
	13551	3138	88	85	91	101	91	91	87	85	95	93	96	108	102	98	91	90
12	8590	2852	86	83	97	101	87	86	83	80	94	92	100	106	97	93	88	86
	10308	2927	87	83	94	100	88	88	84	81	96	92	98	106	98	95	89	87
	12703	3125	88	84	91	102	91	90	86	84	96	93	96	109	101	97	91	89
13	8940	2967	87	84	96	103	88	87	84	81	95	93	100	107	98	94	89	87
	10728	3044	88	84	93	102	89	89	85	82	97	93	98	107	99	96	90	88
	11717	3116	89	84	92	103	90	90	85	83	98	93	97	108	100	97	90	89
14	9278	3078	88	85	95	105	89	88	85	82	96	94	99	109	99	95	90	88
	9278	3078	88	85	95	105	89	88	85	82	96	94	99	109	99	95	90	88
	10572	3127	89	85	93	104	90	89	85	83	97	94	98	109	100	96	90	89

