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#### ADDITIONAL IMAGES



#### ADDITIONAL INFORMATION

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- [Motor Information](#)
- [Operation & Installation Manual](#)
- [Performance Data](#)
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- [Written Specification](#)

#### CERTIFICATIONS

Rupp Air certifies that Models RA-SIF11DD thru RA-SIF36DD are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and 311 and comply with the requirements of the AMCA Certified Rating Program.

Models RA-SIF11DD thru RA-SIF36DD have been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. products safety standard, that the manufacturing site has been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance.

Models RA-SIF11DD thru RA-SIF36DD are ETL Listed under report number 3100959CRT and comply with UL705 and CSA C22.2, No. 113 Standards.



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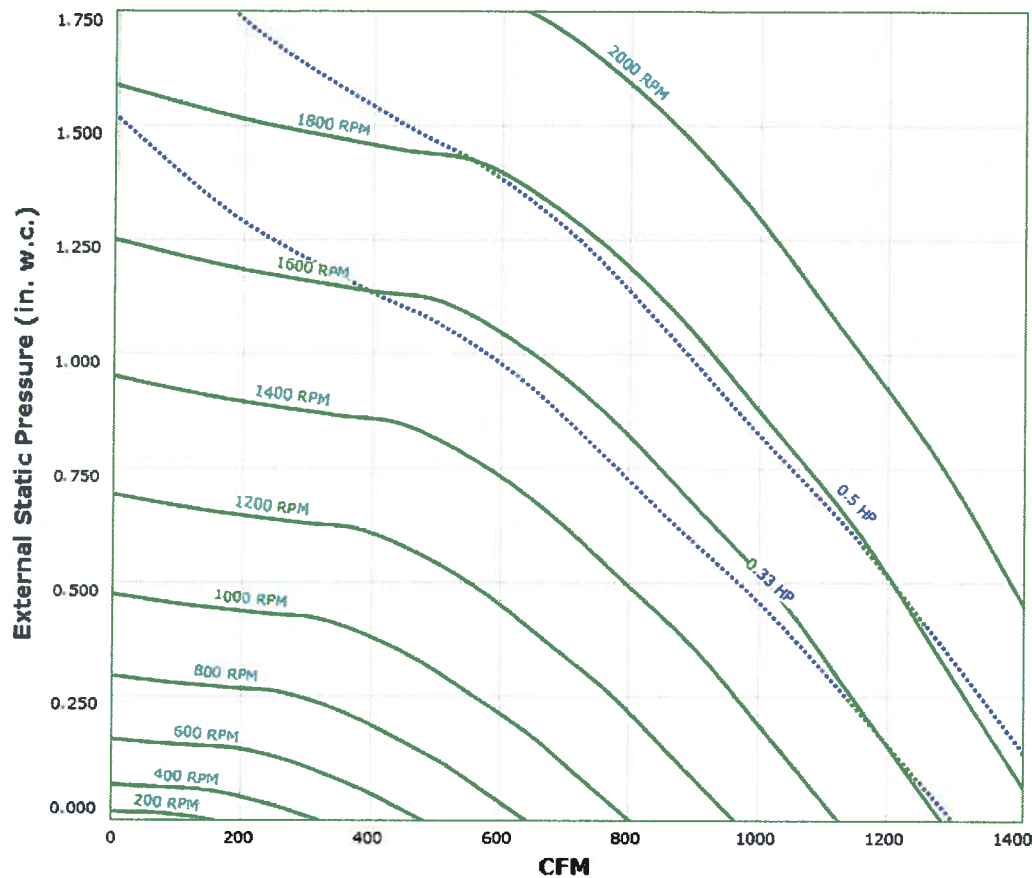
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## RA-SIF11DD Performance Curve



Max Sizeable RPM = 1800 RPM. Curve shown extended beyond this point for reference only.

Motor 48A17011045 has an rpm range of 1150 to 1625.

Motor CK48HF21HF01-50-115 has an rpm range of 1150 to 1425.

Motor CK48HF21HF01-50-230 has an rpm range of 1150 to 1430.

Motor CK48HF21HF01-60-115 has an rpm range of 1150 to 1625.

Motor CK48HF21HF01-60-230 has an rpm range of 1150 to 1670.

Motor M055PWCUM0317-ECM-50-115 has an rpm range of 350 to 1800.

Motor M055PWCUM0317-ECM-50-230 has an rpm range of 350 to 1800.

Motor M055PWCUM0317-ECM-60-115 has an rpm range of 350 to 1800.

Motor M055PWCUM0317-ECM-60-230 has an rpm range of 350 to 1800.

Motor M055PWCUN0318-ECM-50-115 has an rpm range of 350 to 1700.

Motor M055PWCUN0318-ECM-50-230 has an rpm range of 350 to 1700.

Motor M055PWCUN0318-ECM-60-115 has an rpm range of 350 to 1700.

Motor M055PWCUN0318-ECM-60-230 has an rpm range of 350 to 1700.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses.

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**RA-SIF11DD**

CFM	Static Pressure in Inches W.G.					
	0.000	0.250	0.500	0.750	1.000	1.250
	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
400	504 1.1 / 0.01	849 3.5 / 0.06	1096 5.8 / 0.12	1307 8.0 / 0.19	1498 10.2 / 0.28	1667 12.5 / 0.38
600	756 3.3 / 0.03	1022 5.3 / 0.10	1227 7.2 / 0.17	1389 8.9 / 0.24	1567 11.1 / 0.34	1719 13.3 / 0.44
800	1006 5.8 / 0.08	1220 7.5 / 0.16	1401 9.4 / 0.25	1556 11.3 / 0.34	1699 13.2 / 0.44	
1000	1256 8.6 / 0.15	1435 10.4 / 0.25	1592 12.3 / 0.35	1733 14.2 / 0.46		
1200	1509 12.2 / 0.27	1657 13.9 / 0.37	1799 15.8 / 0.50			
1400	1761 16.4 / 0.43					

Max Sizeable RPM = 1800 RPM. Table shown extended beyond this point for reference only.

Motor 48A17011045 has an rpm range of 1150 to 1625.

Motor CK48HF21HF01-50-115 has an rpm range of 1150 to 1425.

Motor CK48HF21HF01-50-230 has an rpm range of 1150 to 1430.

Motor CK48HF21HF01-60-115 has an rpm range of 1150 to 1625.

Motor CK48HF21HF01-60-230 has an rpm range of 1150 to 1670.

Motor M055PWCUM0317-ECM-50-115 has an rpm range of 350 to 1800.

Motor M055PWCUM0317-ECM-50-230 has an rpm range of 350 to 1800.

Motor M055PWCUM0317-ECM-60-115 has an rpm range of 350 to 1800.

Motor M055PWCUM0317-ECM-60-230 has an rpm range of 350 to 1800.

Motor M055PWCUN0318-ECM-50-115 has an rpm range of 350 to 1700.

Motor M055PWCUN0318-ECM-50-230 has an rpm range of 350 to 1700.

Motor M055PWCUN0318-ECM-60-115 has an rpm range of 350 to 1700.

Motor M055PWCUN0318-ECM-60-230 has an rpm range of 350 to 1700.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses. The sound ratings shown are loudness values in sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation type B: free inlet hemispherical sone levels. Ratings do not include the effect of duct end correction.

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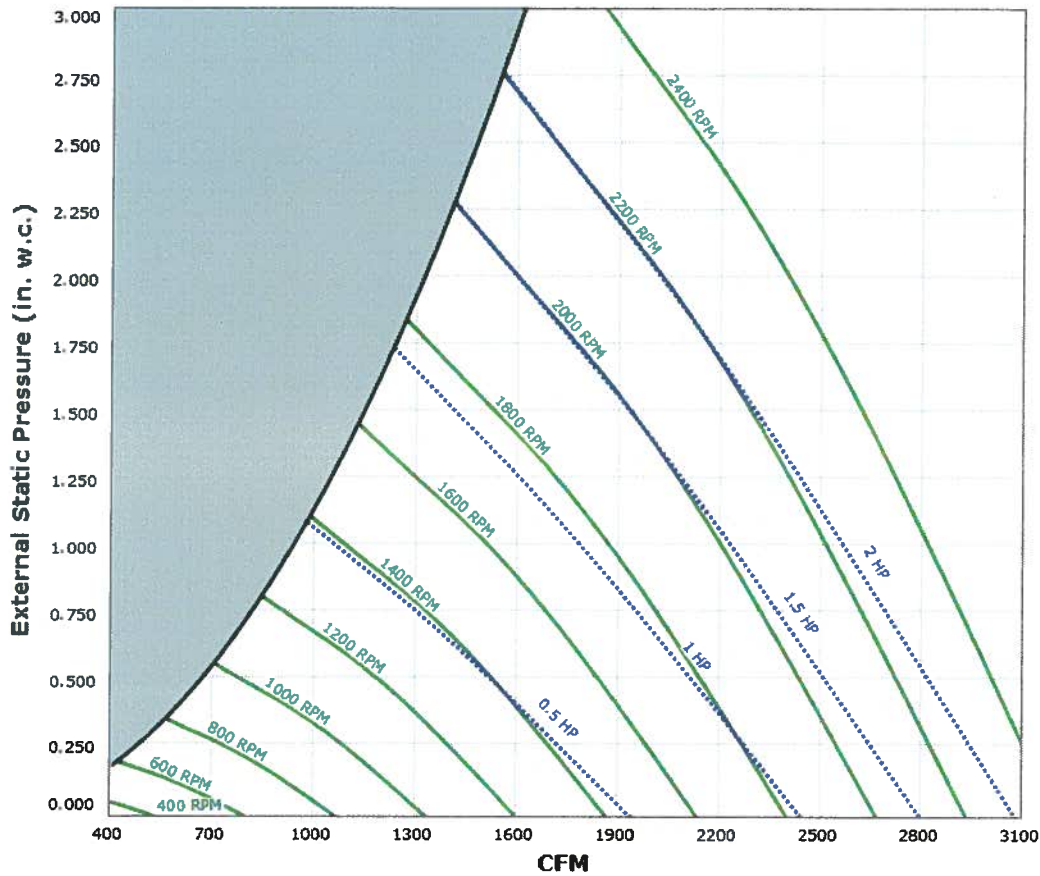
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**RA-SIF13DD Performance Curve**



Max Sizeable RPM = 2400 RPM. Curve shown extended beyond this point for reference only.

- Motor 48A17011045 has an rpm range of 1150 to 1625.
- Motor CK48HF21HF01-50-115 has an rpm range of 1150 to 1425.
- Motor CK48HF21HF01-50-230 has an rpm range of 1150 to 1430.
- Motor CK48HF21HF01-60-115 has an rpm range of 1150 to 1625.
- Motor CK48HF21HF01-60-230 has an rpm range of 1150 to 1670.
- Motor M055PWCUM0317-ECM-50-115 has an rpm range of 800 to 1800.
- Motor M055PWCUM0317-ECM-50-230 has an rpm range of 800 to 1800.
- Motor M055PWCUM0317-ECM-60-115 has an rpm range of 800 to 1800.
- Motor M055PWCUM0317-ECM-60-230 has an rpm range of 800 to 1800.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses.

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**RA-SIF13DD**

CFM	Static Pressure in Inches W.G.										
	0.000	0.250	0.500	0.750	1.000	1.250	1.500	1.750	2.000	2.250	2.500
	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
1300	975 6.8 / 0.15	1125 8.0 / 0.26	1255 9.1 / 0.37	1376 10.4 / 0.49	1487 11.7 / 0.62	1593 13.2 / 0.76	1697 14.8 / 0.91	1803 16.2 / 1.08			
1600	1200 9.6 / 0.28	1326 10.9 / 0.41	1438 11.9 / 0.54	1541 12.9 / 0.68	1641 14.2 / 0.83	1735 15.4 / 0.99	1824 16.5 / 1.15	1912 17.9 / 1.32	1998 19.2 / 1.50	2078 20 / 1.68	2165 22 / 1.88
1900	1424 13.0 / 0.47	1533 14.2 / 0.62	1631 15.3 / 0.78	1723 16.2 / 0.93	1811 17.2 / 1.10	1896 18.2 / 1.28	1977 19.3 / 1.45	2056 20 / 1.64	2132 21 / 1.83		
2200	1649 16.6 / 0.73	1746 17.9 / 0.91	1832 19.1 / 1.08	1915 19.9 / 1.26	1993 21 / 1.45	2070 22 / 1.64	2144 22 / 1.84				
2500	1874 20 / 1.07	1961 22 / 1.27	2039 23 / 1.47	2113 24 / 1.67	2183 24 / 1.88						
2800	2099 24 / 1.50	2177 26 / 1.73	2249 27 / 1.95								

Max Sizeable RPM = 2400 RPM. Table shown extended beyond this point for reference only.

- Motor 48A17011045 has an rpm range of 1150 to 1625.
- Motor CK48HF21HF01-50-115 has an rpm range of 1150 to 1425.
- Motor CK48HF21HF01-50-230 has an rpm range of 1150 to 1430.
- Motor CK48HF21HF01-60-115 has an rpm range of 1150 to 1625.
- Motor CK48HF21HF01-60-230 has an rpm range of 1150 to 1670.
- Motor M055PWCUM0317-ECM-50-115 has an rpm range of 800 to 1800.
- Motor M055PWCUM0317-ECM-50-230 has an rpm range of 800 to 1800.
- Motor M055PWCUM0317-ECM-60-115 has an rpm range of 800 to 1800.
- Motor M055PWCUM0317-ECM-60-230 has an rpm range of 800 to 1800.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses. The sound ratings shown are loudness values in sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation type B: free inlet hemispherical sone levels. Ratings do not include the effect of duct end correction.

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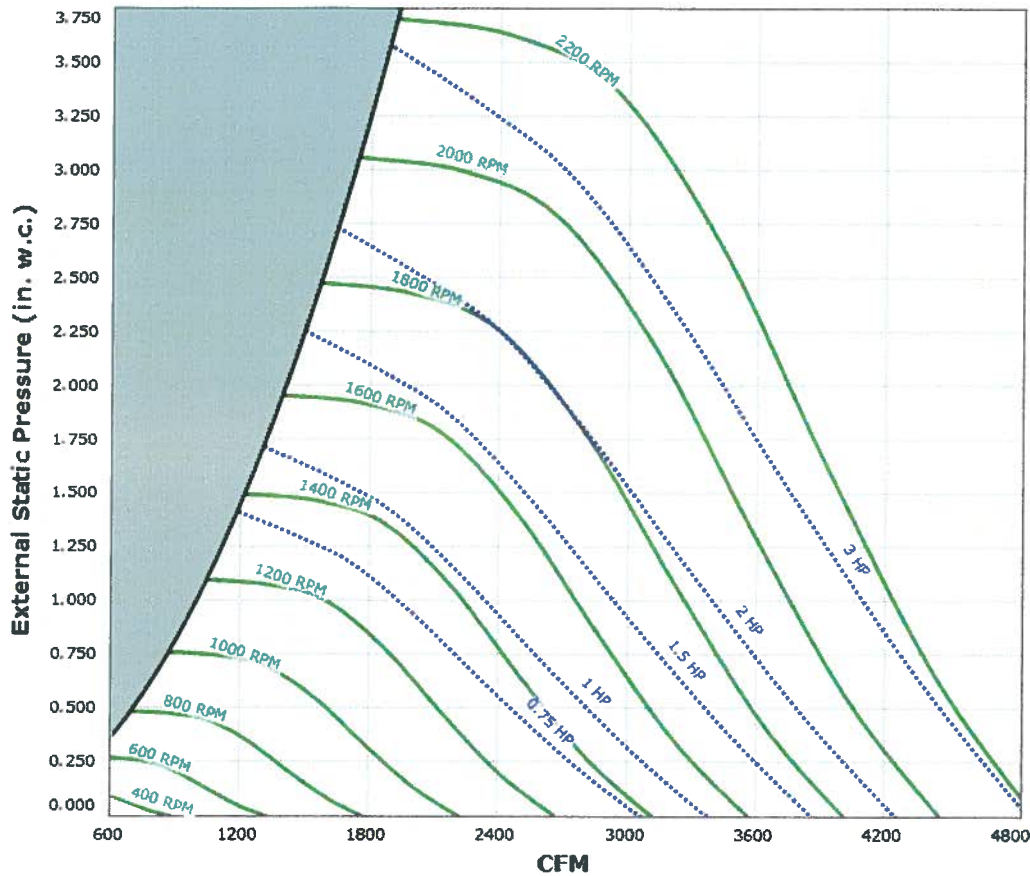


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**RA-SIF15DD Performance Curve**



Max Sizeable RPM = 2200 RPM. Curve shown extended beyond this point for reference only.

- Motor 48A17O11039 has an rpm range of 1075 to 1625.
- Motor CK48HF15FF01-50-115 has an rpm range of 1075 to 1360.
- Motor CK48HF15FF01-50-230 has an rpm range of 1075 to 1400.
- Motor CK48HF15FF01-60-115 has an rpm range of 1075 to 1625.
- Motor CK48HF15FF01-60-230 has an rpm range of 1075 to 1610.
- Motor M055PWCUL0316-ECM-50-115 has an rpm range of 400 to 1650.
- Motor M055PWCUL0316-ECM-50-230 has an rpm range of 400 to 1650.
- Motor M055PWCUL0316-ECM-60-115 has an rpm range of 400 to 1650.
- Motor M055PWCUL0316-ECM-60-230 has an rpm range of 400 to 1650.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses.

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**RA-SIF15DD**

CFM	Static Pressure in Inches W.G.														
	0.000	0.250	0.500	0.750	1.000	1.250	1.500	1.750	2.000	2.250	2.500	2.750	3.000	3.25	
	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
1200	544 3.4 / 0.05	732 4.7 / 0.13	869 6.4 / 0.23	1007 8.2 / 0.34	1146 10.1 / 0.48	1281 12.2 / 0.64									
1800	814 7.1 / 0.16	972 8.1 / 0.29	1074 9.1 / 0.41	1167 10.4 / 0.54	1258 11.8 / 0.68	1348 13.2 / 0.84	1440 14.7 / 1.01	1533 16.4 / 1.20	1626 18.2 / 1.41	1719 19.9 / 1.63	1811 22 / 1.86	1899 23 / 2.10	1985 25 / 2.36	2067 27 / 2	
2400	1085 11.3 / 0.37	1225 12.3 / 0.55	1314 13.2 / 0.71	1392 14.2 / 0.88	1464 15.1 / 1.05	1534 16.4 / 1.22	1602 17.7 / 1.41	1670 19.0 / 1.60	1738 20 / 1.81	1806 22 / 2.02	1875 23 / 2.25	1943 24 / 2.48	2013 26 / 2.74	2083 27 / 3	
3000	1356 16.3 / 0.72	1483 17.6 / 0.96	1565 18.3 / 1.17	1635 19.0 / 1.37	1698 19.9 / 1.57	1758 21 / 1.78	1816 22 / 1.99	1871 23 / 2.21	1927 24 / 2.43	1982 25 / 2.66	2037 26 / 2.90				
3600	1627 22 / 1.24	1743 23 / 1.54	1821 24 / 1.80	1886 25 / 2.04	1944 25 / 2.29	1999 26 / 2.53	2050 27 / 2.78								
4200	1898 28 / 1.97	2006 29 / 2.33	2079 30 / 2.64	2141 31 / 2.93											
4800	2169 35 / 2.93														

Max Sizeable RPM = 2200 RPM. Table shown extended beyond this point for reference only.

Motor 48A17011039 has an rpm range of 1075 to 1625.

Motor CK48HF15FF01-50-115 has an rpm range of 1075 to 1360.

Motor CK48HF15FF01-50-230 has an rpm range of 1075 to 1400.

Motor CK48HF15FF01-60-115 has an rpm range of 1075 to 1625.

Motor CK48HF15FF01-60-230 has an rpm range of 1075 to 1610.

Motor M055PWCUL0316-ECM-50-115 has an rpm range of 400 to 1650.

Motor M055PWCUL0316-ECM-50-230 has an rpm range of 400 to 1650.

Motor M055PWCUL0316-ECM-60-115 has an rpm range of 400 to 1650.

Motor M055PWCUL0316-ECM-60-230 has an rpm range of 400 to 1650.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission loss. Sound ratings shown are loudness values in sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation type B: free inlet hemispherical sone levels. Ratings do not include effect of duct end correction.

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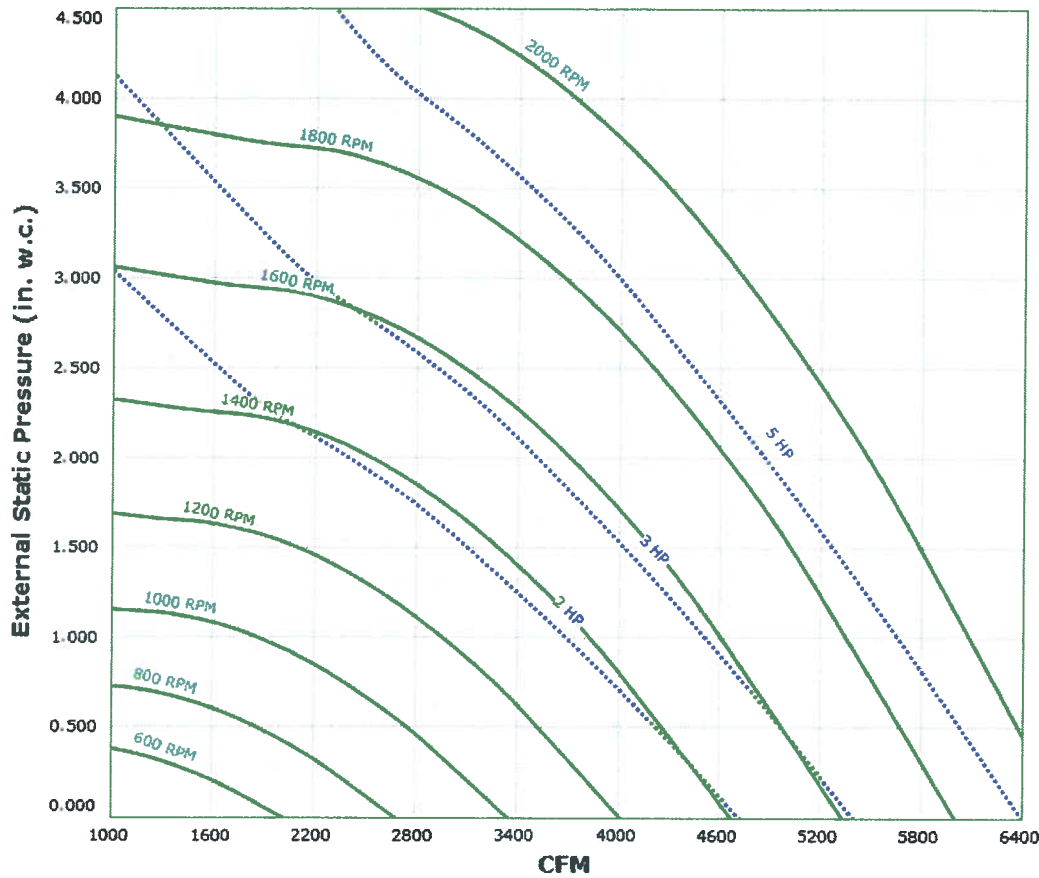
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RA-SIF18DD Performance Curve



Max Sizeable RPM = 1800 RPM. Curve shown extended beyond this point for reference only.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses.

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**RA-SIF18DD**

CFM	Static Pressure in Inches W.G.							
	0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500
	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
2200	641 6.0 / 0.19	859 9.0 / 0.50	1041 12.4 / 0.88	1205 15.8 / 1.34	1355 19.3 / 1.84	1494 22 / 2.38	1624 26 / 2.95	1746 29 / 3.55
2800	816 9.0 / 0.38	995 11.5 / 0.76	1151 14.7 / 1.20	1293 17.8 / 1.70	1425 21 / 2.25	1550 24 / 2.84	1670 27 / 3.48	1782 30 / 4.14
3400	990 12.3 / 0.68	1143 14.6 / 1.14	1279 17.4 / 1.63	1404 20 / 2.17	1521 23 / 2.77	1633 26 / 3.41	1741 28 / 4.09	
4000	1165 16.2 / 1.11	1297 18.1 / 1.65	1417 21 / 2.20	1530 23 / 2.80	1636 26 / 3.44	1738 28 / 4.13		
4600	1340 20 / 1.69	1456 22 / 2.31	1564 24 / 2.93	1665 27 / 3.59	1762 29 / 4.28			
5200	1515 25 / 2.45	1618 26 / 3.14	1716 28 / 3.84					
5800	1689 30 / 3.39	1782 31 / 4.17						

Max Sizeable RPM = 1800 RPM. Table shown extended beyond this point for reference only.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses. The sound ratings shown are loudness values in sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation type B: free inlet hemispherical sone levels. Ratings do not include the effect of duct end correction.

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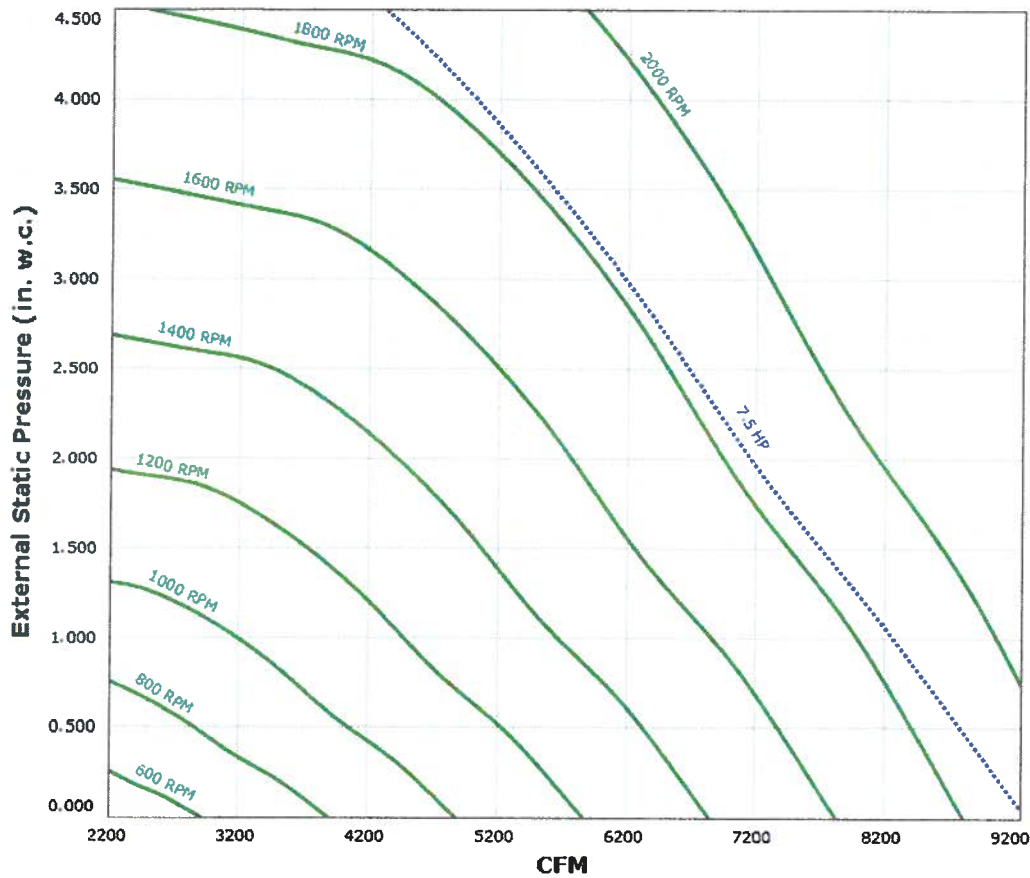
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RA-SIF20DD Performance Curve



Max Sizeable RPM = 1800 RPM. Curve shown extended beyond this point for reference only.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses.

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**RA-SIF20DD**

CFM	Static Pressure in Inches W.G.								
	0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000
	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
3200	658 8.3 / 0.31	852 11.6 / 0.76	1003 15.0 / 1.25	1138 18.6 / 1.81	1264 22 / 2.43	1383 26 / 3.11	1498 30 / 3.83	1608 33 / 4.60	1713 37 / 5.39
4200	863 13.0 / 0.70	1022 15.5 / 1.29	1153 19.0 / 1.89	1268 22 / 2.53	1375 26 / 3.22	1477 29 / 3.96	1574 32 / 4.75	1669 35 / 5.59	1761 38 / 6.47
5200	1069 18.5 / 1.33	1202 21 / 2.06	1318 24 / 2.79	1421 27 / 3.53	1516 31 / 4.31	1606 33 / 5.13	1692 36 / 5.99	1775 39 / 6.90	
6200	1274 25 / 2.26	1388 28 / 3.13	1491 30 / 3.99	1585 33 / 4.86	1672 35 / 5.74	1754 38 / 6.66			
7200	1480 31 / 3.54	1578 35 / 4.55	1671 37 / 5.56	1757 38 / 6.55					
8200	1686 39 / 5.23	1772 42 / 6.38							

Max Sizeable RPM = 1800 RPM. Table shown extended beyond this point for reference only.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses. The sound ratings shown are loudness values in sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation type B: free inlet hemispherical sone levels. Ratings do not include the effect of duct end correction.

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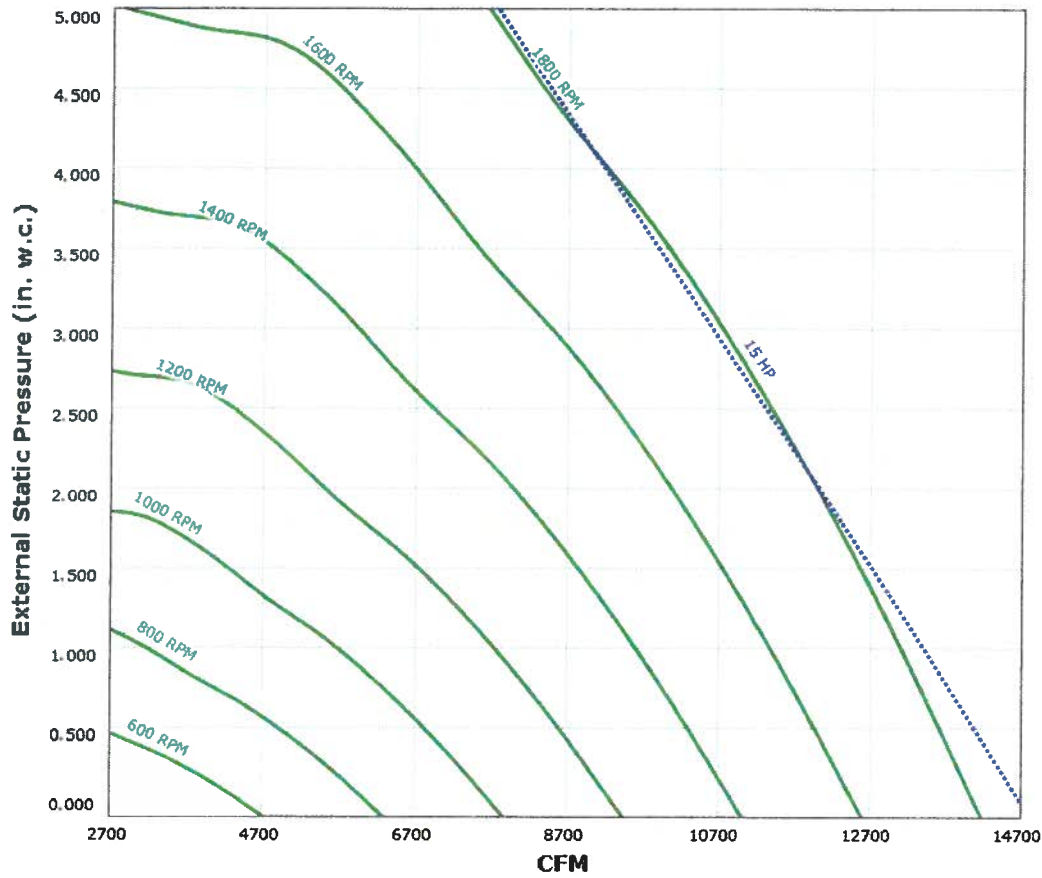
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RA-SIF24DD Performance Curve



Max Sizeable RPM = 1600 RPM. Curve shown extended beyond this point for reference only.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses.

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**RA-SIF24DD**

CFM	Static Pressure in Inches W.G.								
	0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000
	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
6700	852 18.0 / 1.39	972 22 / 2.33	1090 26 / 3.36	1193 30 / 4.42	1285 34 / 5.52	1369 38 / 6.65	1449 42 / 7.83	1523 45 / 9.05	1595 49 / 10.32
8700	1106 27 / 3.04	1197 30 / 4.22	1292 34 / 5.51	1383 38 / 6.85	1467 43 / 8.21	1544 47 / 9.59			
10700	1360 38 / 5.65	1433 41 / 7.07	1510 45 / 8.60	1587 49 / 10.21					

Max Sizeable RPM = 1600 RPM. Table shown extended beyond this point for reference only.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses. The sound ratings shown are loudness values in sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation type B: free inlet hemispherical sone levels. Ratings do not include the effect of duct end correction.

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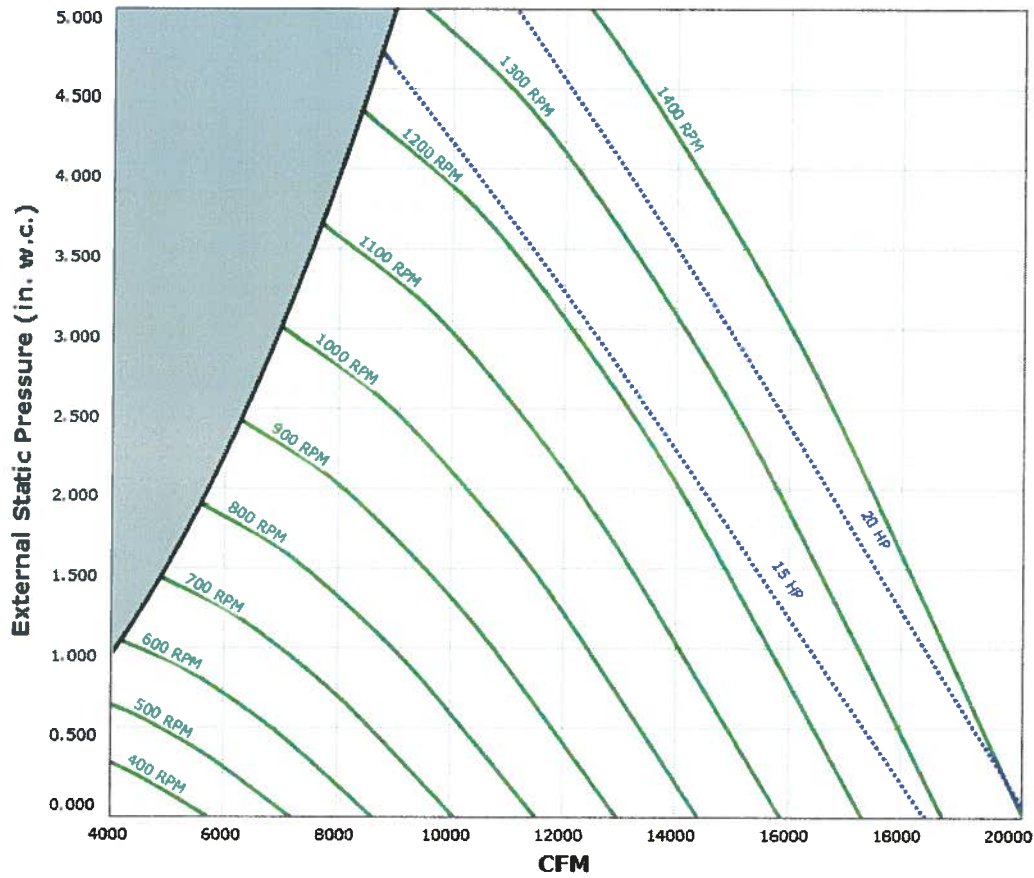
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RA-SIF30DD Performance Curve



Max Sizeable RPM = 1200 RPM. Curve shown extended beyond this point for reference only.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses.

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CFM	Static Pressure in Inches W.G.								
	0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000
	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
6000	420 7.4 / 0.53	544 10.8 / 1.34	647 14.7 / 2.25	738 18.0 / 3.26	822 21 / 4.35				
8000	559 12.1 / 1.26	659 15.1 / 2.31	743 18.2 / 3.42	821 21 / 4.62	894 25 / 5.90	962 28 / 7.25	1026 32 / 8.66	1089 36 / 10.15	1151 40 / 11.69
10000	699 17.5 / 2.46	782 20 / 3.77	854 23 / 5.10	921 26 / 6.50	985 29 / 7.98	1045 33 / 9.52	1103 37 / 11.12	1158 40 / 12.78	
12000	839 23 / 4.24	910 26 / 5.83	973 29 / 7.39	1032 32 / 9.00	1088 36 / 10.68	1142 39 / 12.42	1194 43 / 14.22		
14000	979 30 / 6.74	1042 33 / 8.60	1097 37 / 10.41	1149 40 / 12.25	1199 43 / 14.14				
16000	1119 39 / 10.05	1175 42 / 12.20							

Max Sizeable RPM = 1200 RPM. Table shown extended beyond this point for reference only.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses. The sound ratings shown are loudness values in sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation type B: free inlet hemispherical sone levels. Ratings do not include the effect of duct end correction.

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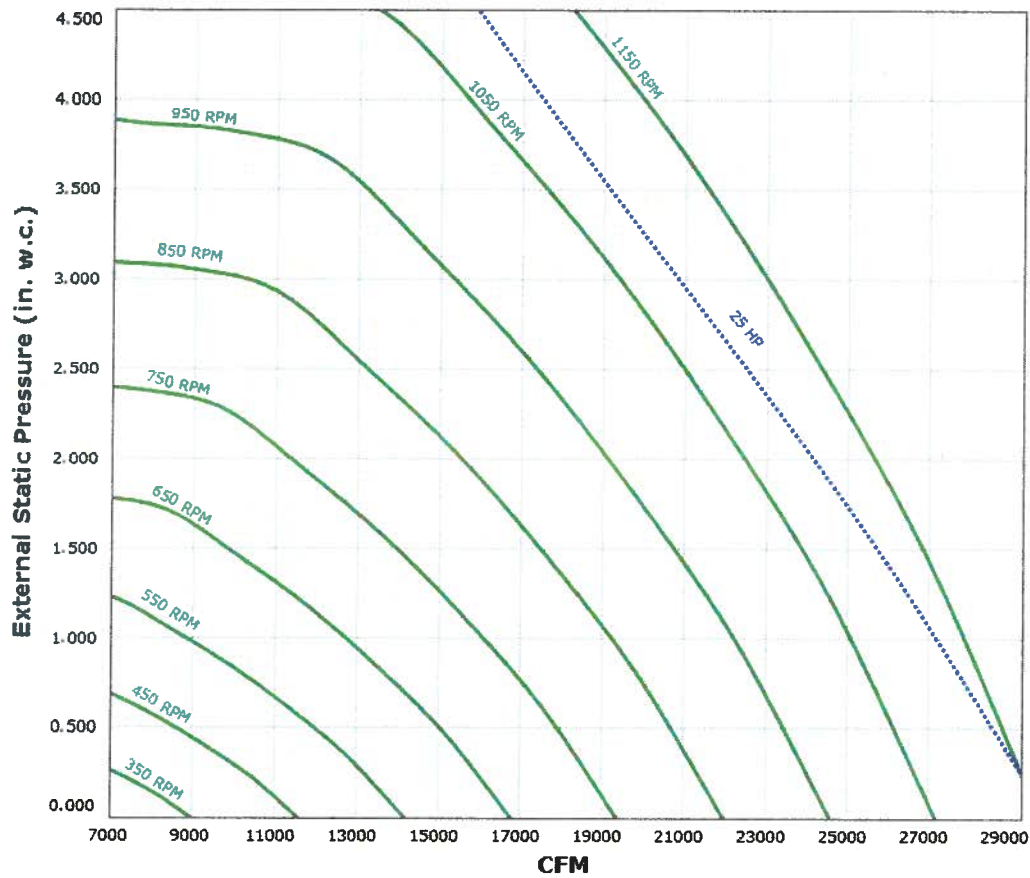


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### RA-SIF36DD Performance Curve



Max Sizeable RPM = 950 RPM. Curve shown extended beyond this point for reference only.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses.

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CFM	Static Pressure in Inches W.G.							
	0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500
	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
11000	430 11.0 / 1.28	521 14.2 / 2.68	604 18.3 / 4.27	675 22 / 5.95	741 26 / 7.76	803 29 / 9.70	862 33 / 11.78	919 36 / 14.02
13000	508 14.7 / 2.11	585 17.7 / 3.70	660 21 / 5.54	727 25 / 7.45	787 28 / 9.44	844 31 / 11.53	898 35 / 13.72	950 38 / 16.04
15000	586 18.7 / 3.23	652 21 / 5.01	720 24 / 7.08	782 28 / 9.25	839 31 / 11.46	892 34 / 13.75	942 38 / 16.10	
17000	664 23 / 4.71	721 25 / 6.66	782 28 / 8.95	840 31 / 11.36	894 35 / 13.83	944 38 / 16.34		
19000	742 28 / 6.57	793 30 / 8.70	847 32 / 11.19	901 35 / 13.83				
21000	820 32 / 8.87	865 34 / 11.19	914 37 / 13.85					
23000	898 38 / 11.65	939 39 / 14.15						

Max Sizeable RPM = 950 RPM. Table shown extended beyond this point for reference only.

Performance shown is certified for Installation Type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) includes transmission losses. The sound ratings shown are loudness values in sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation type B: free inlet hemispherical sone levels. Ratings do not include the effect of duct end correction.

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