

USBI -RM**GENERAL AND RESTAURANT DUTY UTILITY SET**

- ☐ Air Volume: 250 - 32000 cfm
- ☐ Maximum SP: 6" wg. @ standard air density

FEATURES & BENEFITS

- ☐ Use with General Ventilation (UL705) and for Restaurant Duty (UL762)
- ☐ Vented Motor Cover and Continuously Sealed Housing for added weather protection
- ☐ Scroll and Motor Compartment Connected for added Structure
- ☐ Easily Accessible Clean Out Door and Motor Access from 3 Sides
- ☐ Standard 2" Grease Drain
- ☐ Standard Emergency Disconnect Switch
- ☐ Standard Heat Slinger and Heavy Duty Pillow Block Bearings for Belt Drive option
- ☐ Standard Shaft Seal for Belt Drive option
- ☐ Standard Pivot Plates for easy Belt Adjustment
- ☐ Double Groove Pulleys standard for 2 HP and Above Motors
- ☐ Discharge Outlet Flanges Available on All Sizes
- ☐ Temperature Ratings - Aluminum Wheel, 350 degrees F

OPTIONS

- ☐ Belt Drive
- ☐ Belt Drive High Pressure
- ☐ Direct Drive
- ☐ Discharge Extension
- ☐ Discharge Screens
- ☐ Discharge Shutter (UL705 Only)

- ❑ Discharge Configurations: Vertical, Horizontal Left or Horizontal Right
- ❑ Vibration Isolators
- ❑ Extended Lube Lines

ADDITIONAL IMAGES



CERTIFICATIONS

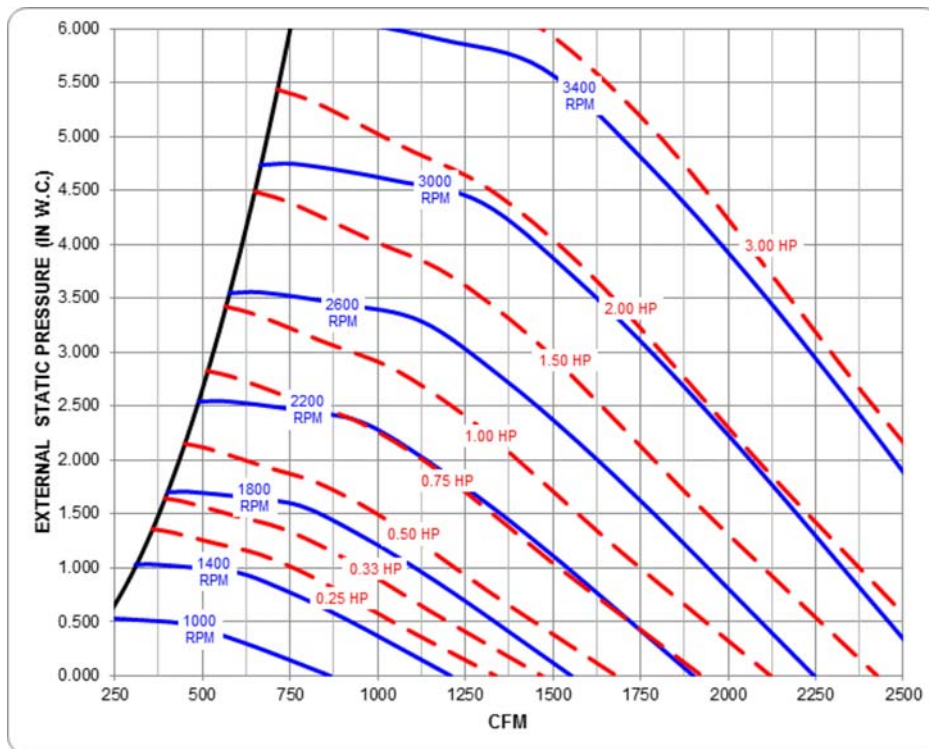
CaptiveAire Systems, Inc. certifies that Models USBI11-RM thru USBI36-RM shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311, and comply with the requirements of the AMCA Certified Rating Program.

Models USBI11-RM thru USBI36-RM are ETL Listed under file numbers 3049729-001 and 3049729-002 and comply with UL705 (electrical) and UL762 Standards and CSA Std C22.2, No 113.





Catalog #110C
December 2013

USBI 11BD-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 1167 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

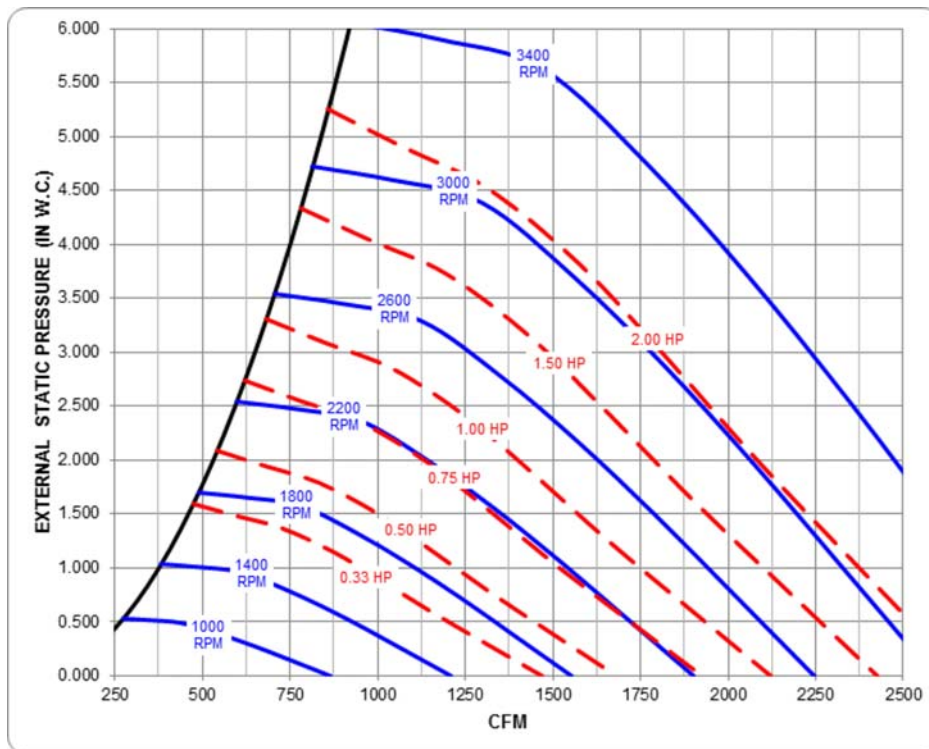
USBI11BD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.					
		0.000	0.500	1.000	1.500	2.000	2.500
		RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
1000	1543	1159 6.4 / 0.11	1473 8.9 / 0.23	1706 11.4 / 0.36	1912 14.0 / 0.50	2101 16.5 / 0.66	2283 19.0 / 0.84
1250	1929	1448 9.4 / 0.21	1715 12.3 / 0.36	1929 14.2 / 0.52	2111 16.7 / 0.68	2281 19.0 / 0.85	
1500	2314	1736 13.1 / 0.35	1966 15.7 / 0.54	2165 18.1 / 0.73	2333 19.8 / 0.92		
1750	2700	2025 17.1 / 0.56	2226 19.5 / 0.78				
2000	3086	2315 21 / 0.84					

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

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

USBI-11DD-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 1167 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

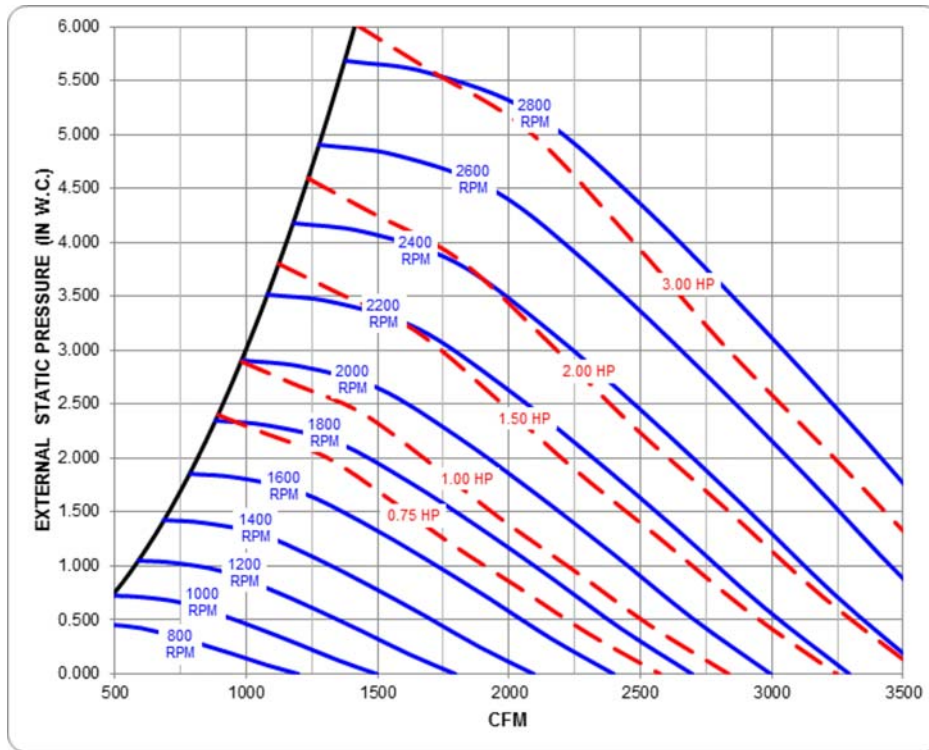
USBI -11DD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.					
		0.000	0.500	1.000	1.500	2.000	2.500
		RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
1000	1543	1159 6.4 / 0.11	1473 8.7 / 0.23	1706 11.4 / 0.36	1912 14.0 / 0.50	2101 16.5 / 0.66	2283 19.0 / 0.84
1250	1929	1448 9.4 / 0.21	1715 11.5 / 0.36	1929 14.2 / 0.52	2111 16.7 / 0.68	2281 19.0 / 0.85	
1500	2314	1736 13.1 / 0.35	1966 14.7 / 0.54	2165 17.4 / 0.73	2333 19.8 / 0.92		
1750	2700	2025 17.1 / 0.56	2226 18.7 / 0.78				
2000	3086	2315 21 / 0.84					

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

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USBI 13BD-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 1932 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

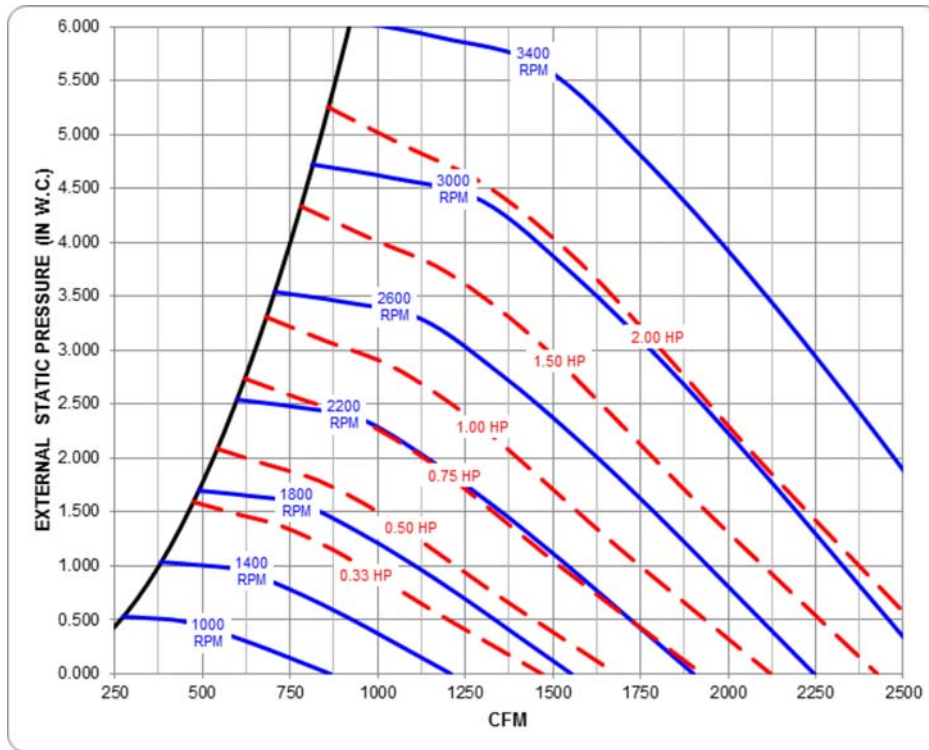
USB113BD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.						
		0.000	0.500	1.000	1.500	2.000	2.500	3.000
		RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
1500	1398	1003 7.5 / 0.15	1284 9.6 / 0.33	1482 12.2 / 0.50	1654 14.9 / 0.68	1812 17.6 / 0.87	1963 20 / 1.08	2107 23 / 1.32
2000	1864	1336 12.3 / 0.35	1572 15.0 / 0.59	1750 16.6 / 0.82	1899 19.0 / 1.05	2037 21 / 1.28	2165 24 / 1.52	
2500	2330	1670 18.2 / 0.69	1871 21 / 0.99	2033 23 / 1.29	2170 24 / 1.57			
3000	2796	2004 24 / 1.19	2179 27 / 1.55					

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 1932 cfm.

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

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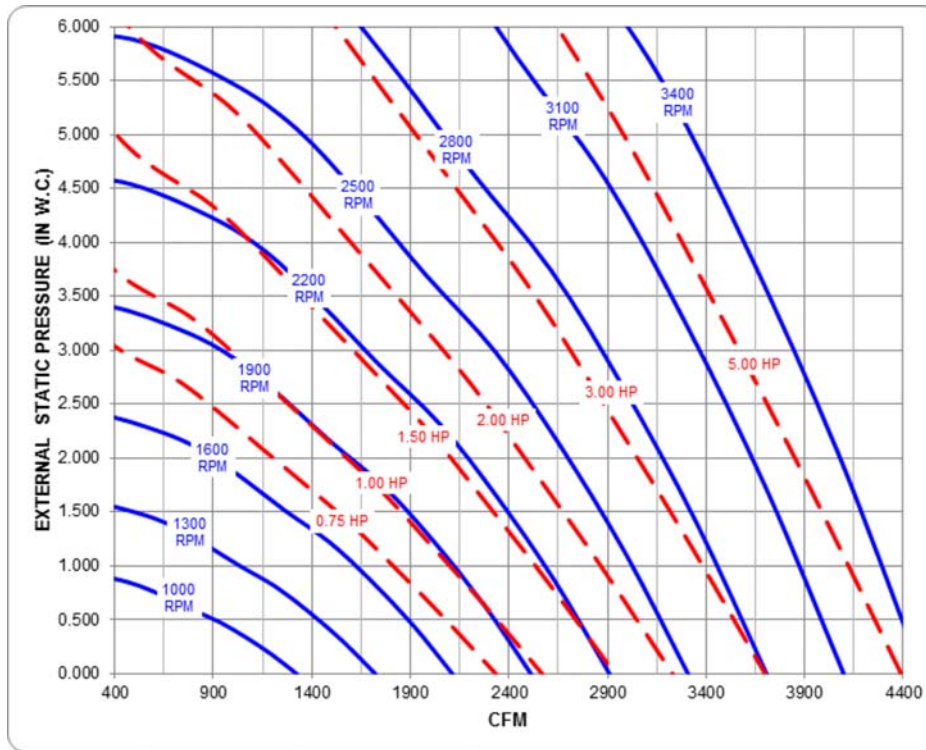
USB13DD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.						
		0.000	0.500	1.000	1.500	2.000	2.500	3.000
		RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
1500	1565	1003 7.5 / 0.15	1284 9.6 / 0.33	1482 12.2 / 0.50	1654 14.9 / 0.68	1812 17.6 / 0.87	1963 20 / 1.08	2107 23 / 1.32
2000	2087	1336 12.3 / 0.35	1572 15.0 / 0.59	1750 16.6 / 0.82	1899 19.0 / 1.05	2037 21 / 1.28	2165 24 / 1.52	
2500	2609	1670 18.2 / 0.69	1871 21 / 0.99	2033 23 / 1.29	2170 24 / 1.57			
3000	3130	2004 24 / 1.19	2179 27 / 1.55					

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 1932 cfm.

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

USBI 15BDHP-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 2362 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

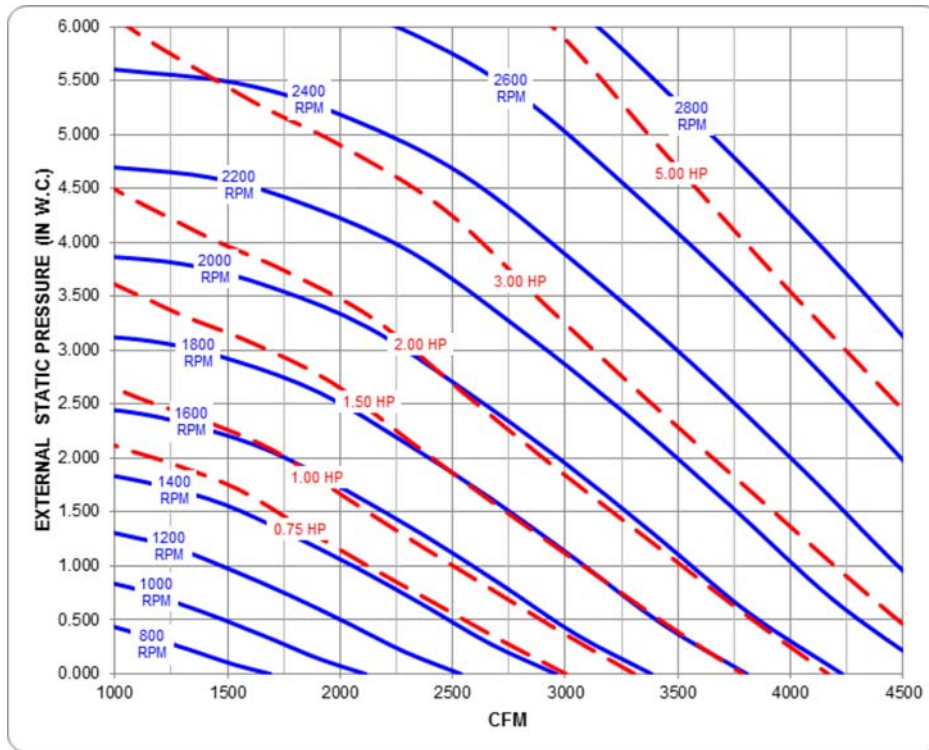
USB115BDHP-RM Performance Table

CFM	Discharge Velocity FPM	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
1400	1067	1059 8.4 / 0.16	1281 10.1 / 0.31	1478 12.7 / 0.48	1651 15.0 / 0.67	1806 17.4 / 0.87	1947 19.7 / 1.09	2077 22 / 1.31	2198 24 / 1.54
1900	1448	1437 13.6 / 0.41	1603 14.4 / 0.61	1763 16.8 / 0.82	1911 19.1 / 1.05	2047 21 / 1.28	2176 24 / 1.54		
2400	1829	1814 19.4 / 0.82	1946 20 / 1.07	2078 22 / 1.33					
2900	2210	2194 26 / 1.45							

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 2362 cfm.

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

USBI 15BD-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 2362 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

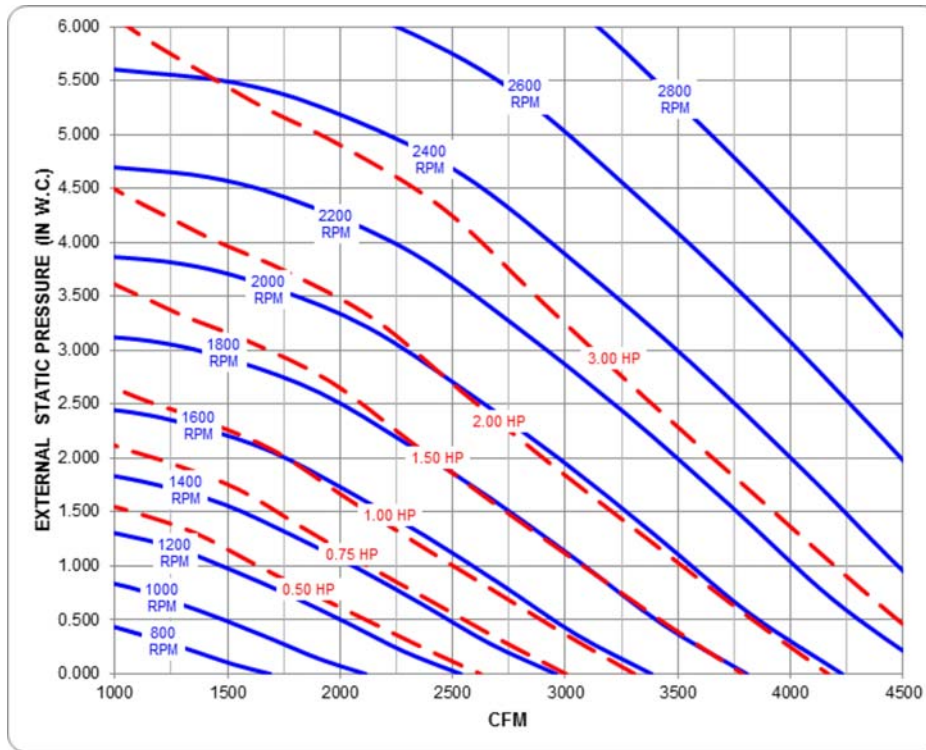
USBI 15BD-RM Performance Table

CFM	Discharge Velocity FPM	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
2000	1524	948 9.5 / 0.22	1202 11.0 / 0.45	1378 14.0 / 0.68	1531 17.1 / 0.91	1671 19.9 / 1.16	1802 23 / 1.43	1925 25 / 1.72	2041 28 / 2.02	2153 30 / 2.35
2500	1905	1184 14.1 / 0.43	1409 15.7 / 0.72	1568 17.8 / 1.00	1706 21 / 1.29	1833 23 / 1.58	1950 26 / 1.88	2063 28 / 2.19	2168 30 / 2.52	
3000	2286	1421 19.7 / 0.75	1622 21 / 1.09	1770 23 / 1.43	1896 24 / 1.77	2012 27 / 2.11	2120 29 / 2.46			
3500	2667	1658 26 / 1.19	1840 26 / 1.58	1977 28 / 1.98	2096 29 / 2.38					
4000	3048	1895 32 / 1.77	2061 33 / 2.22	2191 34 / 2.68						
4500	3429	2131 38 / 2.52								

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 2362 cfm.

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

USBI 15DD-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 2362 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

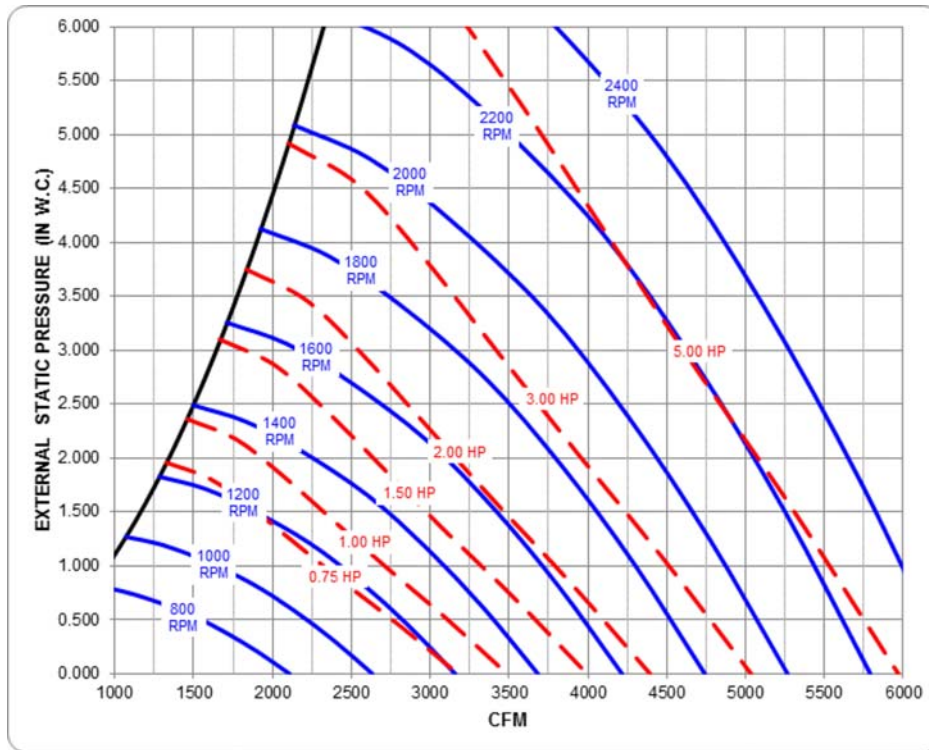
USB15DD-RM Performance Table

CFM	Discharge Velocity FPM	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
2000	1469	948 9.5 / 0.22	1202 11.0 / 0.45	1378 14.0 / 0.68	1531 17.1 / 0.91	1671 19.9 / 1.16	1802 23 / 1.43	1925 25 / 1.72	2041 28 / 2.02	2153 30 / 2.35
2500	1837	1184 14.1 / 0.43	1409 15.7 / 0.72	1568 17.8 / 1.00	1706 21 / 1.29	1833 23 / 1.58	1950 26 / 1.88	2063 28 / 2.19	2168 30 / 2.52	
3000	2204	1421 19.7 / 0.75	1622 21 / 1.09	1770 23 / 1.43	1896 24 / 1.77	2012 27 / 2.11	2120 29 / 2.46			
3500	2571	1658 26 / 1.19	1840 26 / 1.58	1977 28 / 1.98	2096 29 / 2.38					
4000	2939	1895 32 / 1.77	2061 33 / 2.22	2191 34 / 2.68						
4500	3306	2131 38 / 2.52								

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 2362 cfm.

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

USBI 18BDHP-RM Performance Curve

Max Sizeable RPM = 2000 RPM. Curve shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 3512 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

USBI 18BDHP-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.									
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
		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
2500	1281	950 11.2 / 0.37	1090 13.3 / 0.60	1218 15.8 / 0.86	1339 18.3 / 1.12	1452 21 / 1.38	1559 23 / 1.66	1659 26 / 1.95	1756 28 / 2.26	1846 30 / 2.58	1935 32 / 2.93
3000	1538	1139 14.8 / 0.63	1259 16.6 / 0.91	1369 19.0 / 1.21	1474 21 / 1.52	1575 24 / 1.83	1671 26 / 2.15	1765 28 / 2.47	1853 30 / 2.80	1938 33 / 3.15	
3500	1794	1329 18.9 / 1.01	1434 20 / 1.33	1530 23 / 1.67	1623 25 / 2.02	1712 27 / 2.38	1799 29 / 2.75	1884 31 / 3.11	1966 33 / 3.49		
4000	2050	1519 23 / 1.50	1612 24 / 1.87	1698 26 / 2.25	1781 28 / 2.65	1861 30 / 3.06	1940 33 / 3.47				
4500	2307	1709 28 / 2.14	1792 29 / 2.55	1870 31 / 2.98	1945 33 / 3.42						
5000	2563	1899 33 / 2.94	1974 34 / 3.39								

Max Sizeable RPM = 2000 RPM. Table shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 3512 cfm.

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

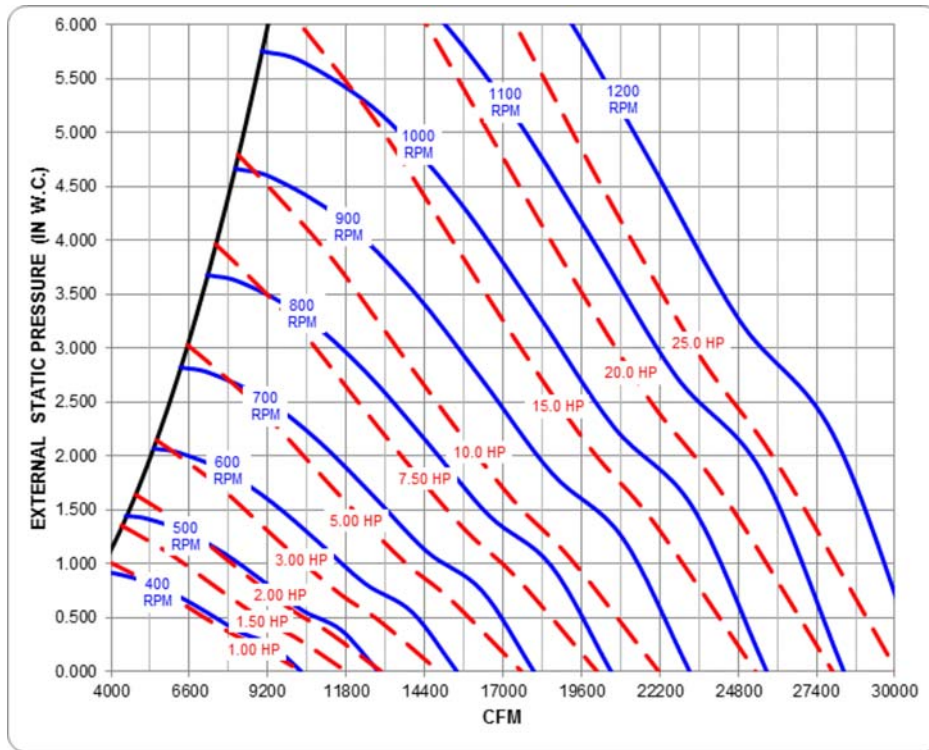
USBI36DD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.													
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	5.000	5.500	6.000	
		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	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
9000	1728	650 18.4 / 1.79	738 19.9 / 2.70	806 22 / 3.61	868 25 / 4.53	927 28 / 5.46	983 32 / 6.41	1037 35 / 7.36	1088 38 / 8.34	1137 42 / 9.35	1185 45 / 10.38	1230 49 / 11.44	1274 52 / 12.53	1316 55 / 13.66	
12000	2304	867 29 / 4.25	939 33 / 5.45	996 32 / 6.67	1048 36 / 7.88	1096 39 / 9.11	1143 42 / 10.33	1188 46 / 11.57	1231 49 / 12.81	1274 52 / 14.06	1315 55 / 15.32	1356 58 / 16.60	1395 60 / 17.88		
15000	2880	1083 43 / 8.29	1145 48 / 9.80	1195 51 / 11.31	1240 51 / 12.83	1282 53 / 14.35	1322 56 / 15.87	1361 58 / 17.40	1398 61 / 18.94						
18000	3456	1300 61 / 14.32	1353 65 / 16.14	1398 68 / 17.95											

Max Sizeable RPM = 1000 RPM. Table shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 13881 cfm.

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

USBI 36DD-RM Performance Curve

Max Sizeable RPM = 1000 RPM. Curve shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 13881 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

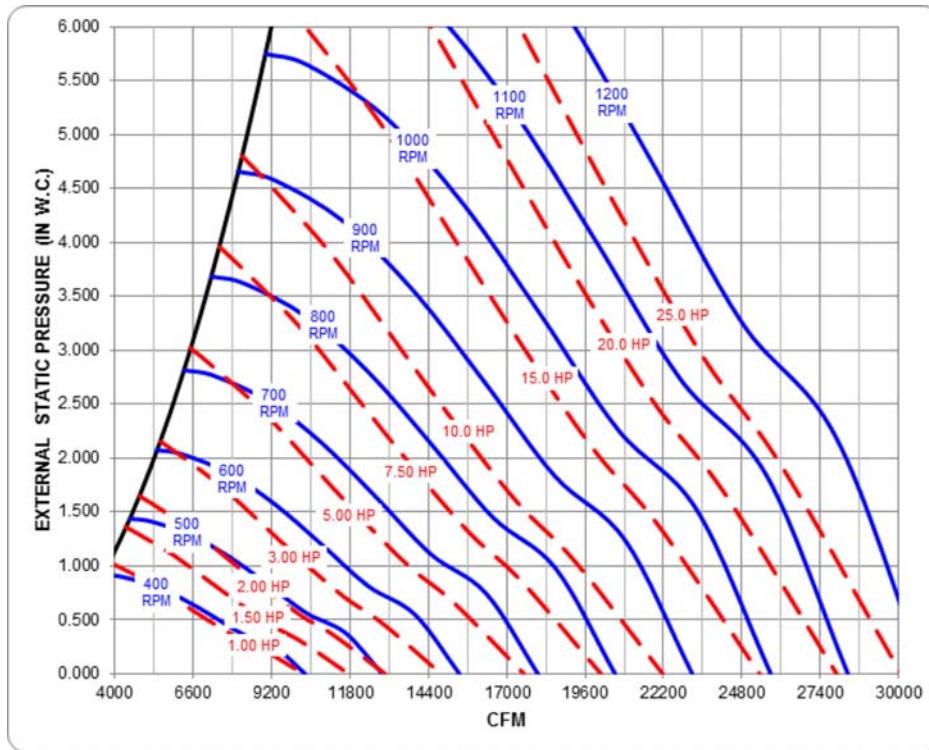
USBI 36BD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.					
		0.000	0.500	1.000	1.500	2.000	2.500
		RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
1000	1543	1159 6.4 / 0.11	1473 8.7 / 0.23	1706 11.4 / 0.36	1912 14.0 / 0.50	2101 16.5 / 0.66	2283 19.0 / 0.84
1250	1929	1448 9.4 / 0.21	1715 11.5 / 0.36	1929 14.2 / 0.52	2111 16.7 / 0.68	2281 19.0 / 0.85	
1500	2314	1736 13.1 / 0.35	1966 14.7 / 0.54	2165 17.4 / 0.73	2333 19.8 / 0.92		
1750	2700	2025 17.1 / 0.56	2226 18.7 / 0.78				
2000	3086	2315 21 / 0.84					

Max Sizeable RPM = 1000 RPM. Table shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 13881 cfm.

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USBI 36BD-RM Performance Curve

Max Sizeable RPM = 1000 RPM. Curve shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 13881 cfm.

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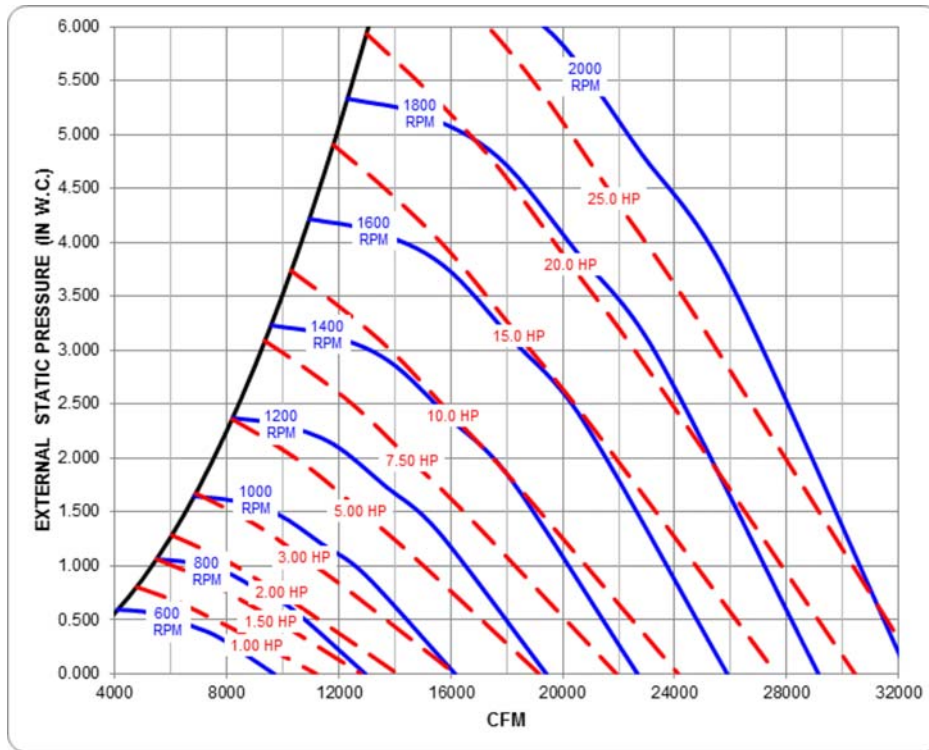
USB136BDHP-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.							
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	
		RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
12000	1556	742 27 / 1.23	848 32 / 2.21	978 40 / 3.37	1086 48 / 4.56	1182 56 / 5.82	1276 63 / 7.17	1373 73 / 8.66	
16000	2075	989 44 / 2.91	1057 49 / 4.12	1153 54 / 5.57	1254 62 / 7.12	1343 70 / 8.68			
20000	2593	1236 64 / 5.68	1286 68 / 7.13	1352 74 / 8.79					

Max Sizeable RPM = 1400 RPM. Table shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 13881 cfm.

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

USBI 36BDHP-RM Performance Curve

Max Sizeable RPM = 1400 RPM. Curve shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 13881 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

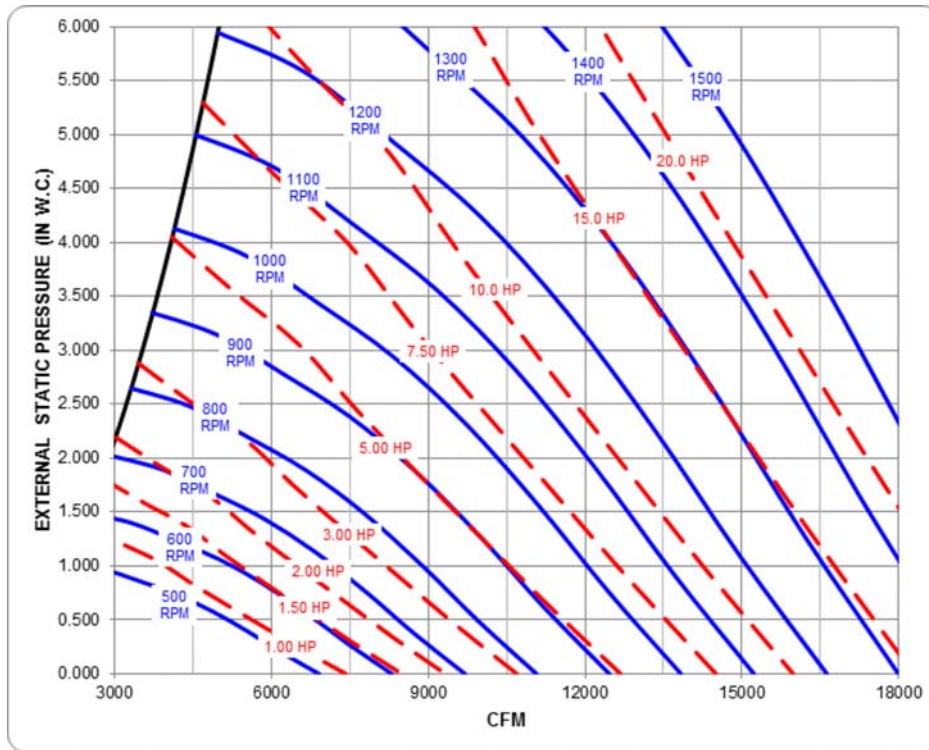
USBI30DD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.													
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	5.000	5.500	6.000	
		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	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
9000	1728	650 18.4 / 1.79	738 19.9 / 2.70	806 22 / 3.61	868 25 / 4.53	927 28 / 5.46	983 32 / 6.41	1037 35 / 7.36	1088 38 / 8.34	1137 42 / 9.35	1185 45 / 10.38	1230 49 / 11.44	1274 52 / 12.53	1316 55 / 13.66	
12000	2304	867 29 / 4.25	939 33 / 5.45	996 32 / 6.67	1048 36 / 7.88	1096 39 / 9.11	1143 42 / 10.33	1188 46 / 11.57	1231 49 / 12.81	1274 52 / 14.06	1315 55 / 15.32	1356 58 / 16.60	1395 60 / 17.88		
15000	2880	1083 43 / 8.29	1145 48 / 9.80	1195 51 / 11.31	1240 51 / 12.83	1282 53 / 14.35	1322 56 / 15.87	1361 58 / 17.40	1398 61 / 18.94						
18000	3456	1300 61 / 14.32	1353 65 / 16.14	1398 68 / 17.95											

Max Sizeable RPM = 1400 RPM. Table shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 9376 cfm.

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

USBI 30DD-RM Performance Curve

Max Sizeable RPM = 1400 RPM. Curve shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 9376 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

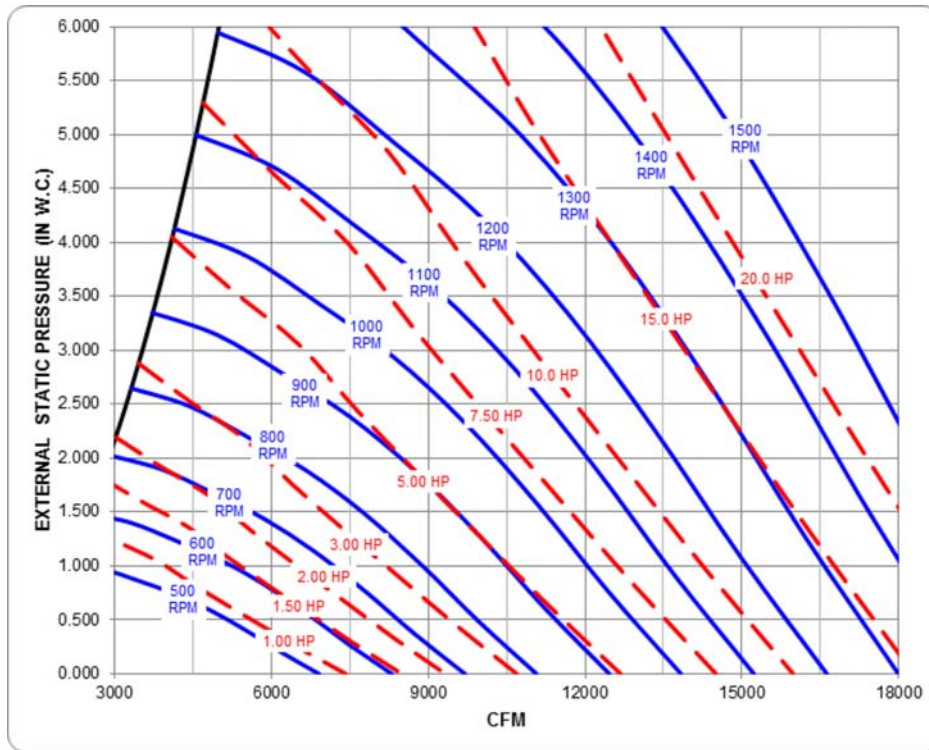
USBI30BD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.													
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	5.000	5.500	6.000	
		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	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
9000	1728	650 18.4 / 1.79	738 19.9 / 2.70	806 22 / 3.61	868 25 / 4.53	927 28 / 5.46	983 32 / 6.41	1037 35 / 7.36	1088 38 / 8.34	1137 42 / 9.35	1185 45 / 10.38	1230 49 / 11.44	1274 52 / 12.53	1316 55 / 13.66	
12000	2304	867 29 / 4.25	939 33 / 5.45	996 32 / 6.67	1048 36 / 7.88	1096 39 / 9.11	1143 42 / 10.33	1188 46 / 11.57	1231 49 / 12.81	1274 52 / 14.06	1315 55 / 15.32	1356 58 / 16.60	1395 60 / 17.88		
15000	2880	1083 43 / 8.29	1145 48 / 9.80	1195 51 / 11.31	1240 51 / 12.83	1282 53 / 14.35	1322 56 / 15.87	1361 58 / 17.40	1398 61 / 18.94						
18000	3456	1300 61 / 14.32	1353 65 / 16.14	1398 68 / 17.95											

Max Sizeable RPM = 1400 RPM. Table shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 9376 cfm.

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

USBI 30BD-RM Performance Curve

Max Sizeable RPM = 1400 RPM. Curve shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 9376 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

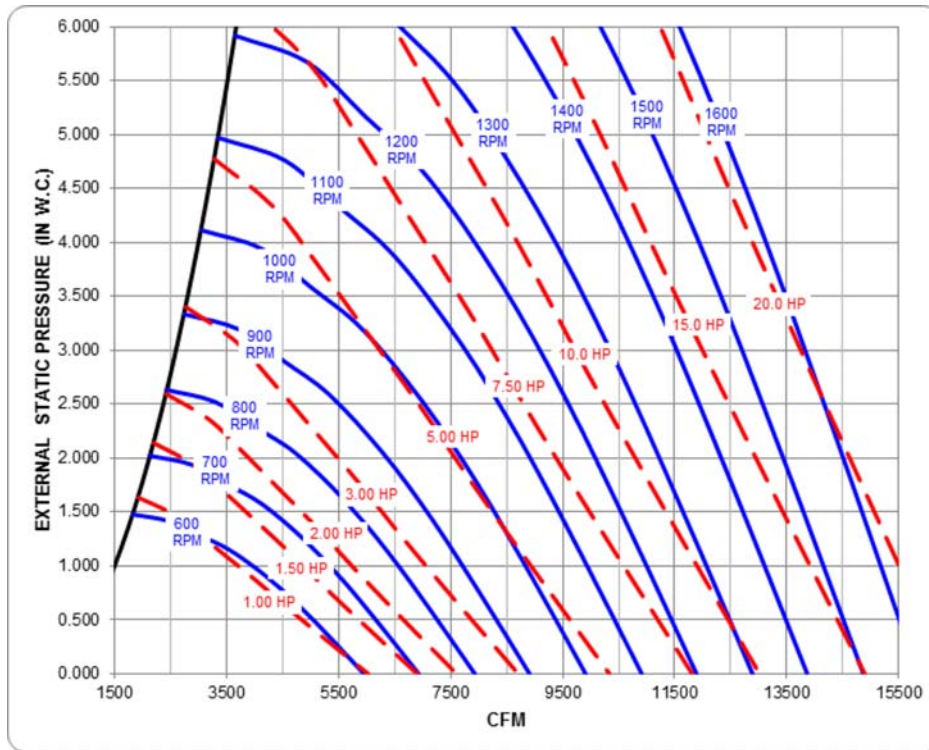
USBI30BDHP-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.													
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	5.000	5.500	6.000	
		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	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
7500	1440	757 18.9 / 1.91	823 20 / 2.67	880 22 / 3.40	934 25 / 4.15	985 27 / 4.91	1034 29 / 5.68	1081 32 / 6.48	1128 34 / 7.30	1173 37 / 8.13	1217 39 / 8.99	1259 42 / 9.86	1301 44 / 10.75	1341 46 / 11.66	
9500	1824	958 27 / 3.89	1013 29 / 4.85	1061 31 / 5.79	1106 33 / 6.72	1149 35 / 7.65	1190 38 / 8.60	1231 40 / 9.56	1270 42 / 10.54	1308 44 / 11.53	1346 46 / 12.52	1383 48 / 13.55	1420 50 / 14.59	1455 52 / 15.61	
11500	2208	1160 38 / 6.90	1207 39 / 8.07	1248 41 / 9.22	1287 43 / 10.34	1325 45 / 11.47	1361 47 / 12.60	1396 49 / 13.74	1430 50 / 14.88	1463 52 / 16.04	1496 54 / 17.21	1529 56 / 18.39	1561 58 / 19.58		
13500	2592	1362 50 / 11.16	1402 51 / 12.55	1439 52 / 13.90	1474 53 / 15.23	1507 55 / 16.56	1539 57 / 17.88	1570 59 / 19.20							

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 9376 cfm.

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

USBI 30BDHP-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 9376 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

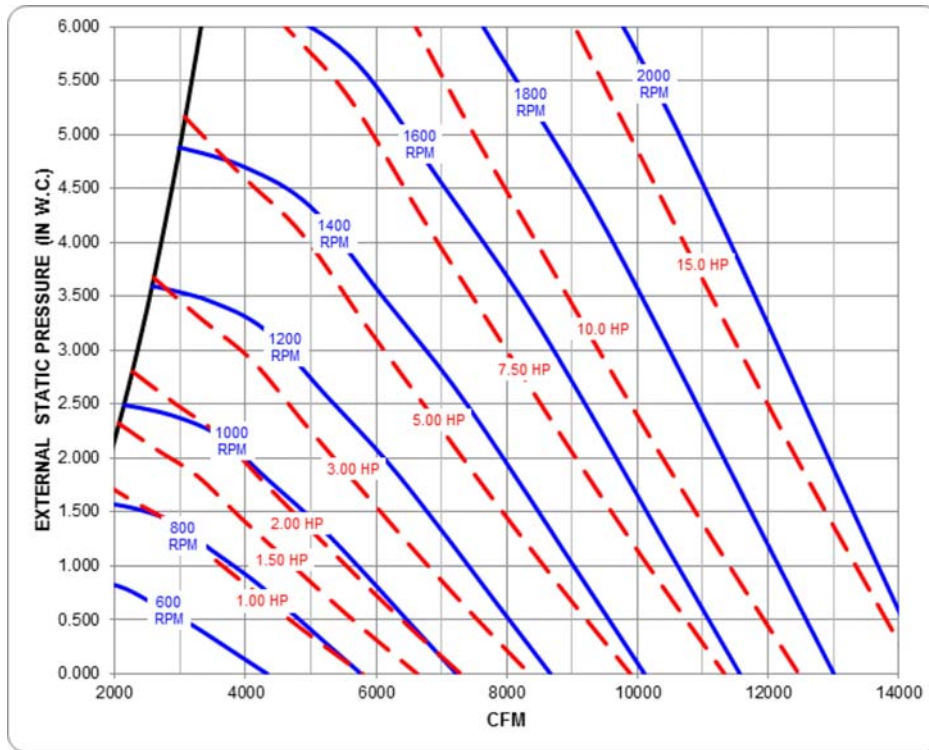
USBI24DD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.										
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	5.000
		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	RPM Sone/BHP	RPM Sone/BHP
6000	2037	831 18.1 / 1.12	941 21 / 1.72	1034 21 / 2.34	1116 24 / 2.94	1190 27 / 3.56	1258 31 / 4.18	1322 34 / 4.83	1384 37 / 5.49	1443 40 / 6.18	1500 43 / 6.88	1555 45 / 7.61
8000	2716	1108 29 / 2.64	1192 33 / 3.45	1271 34 / 4.27	1342 35 / 5.09	1408 38 / 5.90	1469 41 / 6.71	1526 44 / 7.52	1580 46 / 8.34			
10000	3395	1384 44 / 5.15	1453 49 / 6.16	1519 54 / 7.18	1581 53 / 8.21							

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 6297 cfm.

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

USBI 24DD-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 6297 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

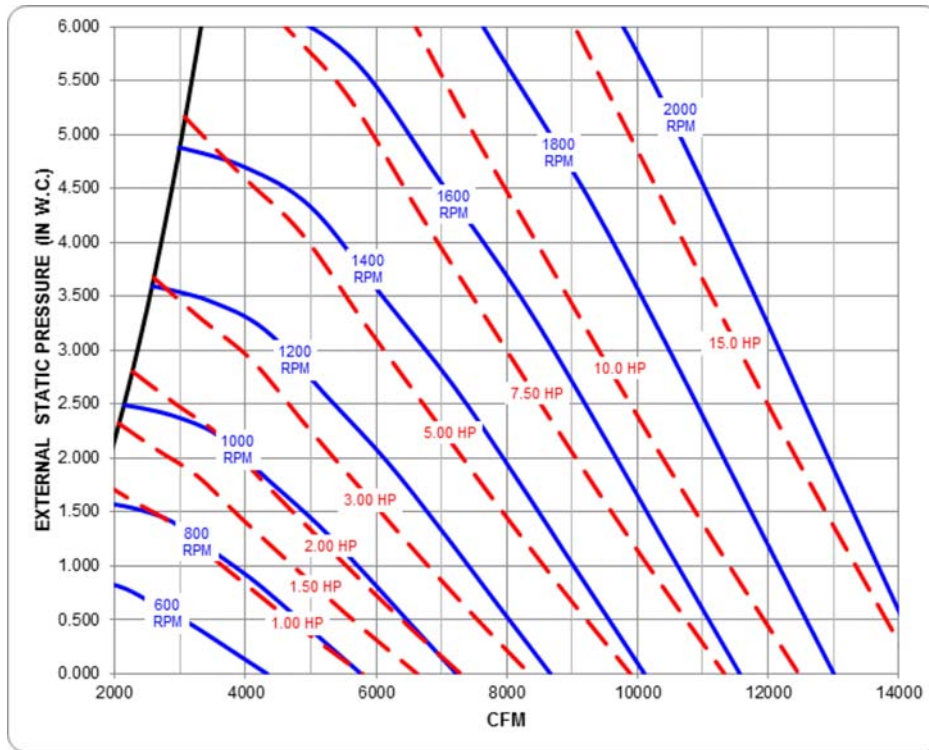
USBI24BD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.										
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	5.000
		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	RPM Sone/BHP	RPM Sone/BHP
6000	1715	831 18.1 / 1.12	941 21 / 1.72	1034 21 / 2.34	1116 24 / 2.94	1190 27 / 3.56	1258 31 / 4.18	1322 34 / 4.83	1384 37 / 5.49	1443 40 / 6.18	1500 43 / 6.88	1555 45 / 7.61
8000	2287	1108 29 / 2.64	1192 33 / 3.45	1271 34 / 4.27	1342 35 / 5.09	1408 38 / 5.90	1469 41 / 6.71	1526 44 / 7.52	1580 46 / 8.34			
10000	2859	1384 44 / 5.15	1453 49 / 6.16	1519 54 / 7.18	1581 53 / 8.21							

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 6297 cfm.

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

USBI 24BD-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 6297 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

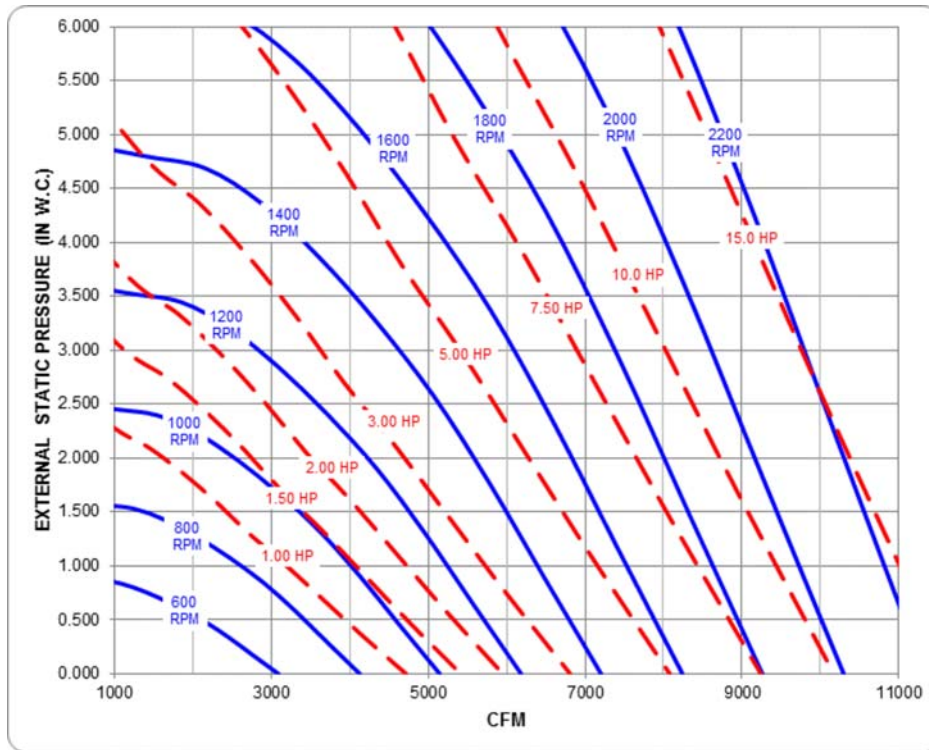
USBI24BDHP-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.													
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	5.000	5.500	6.000	
		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	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	
5000	1429	971 19.1 / 1.19	1074 23 / 1.71	1159 26 / 2.24	1237 29 / 2.78	1311 32 / 3.33	1380 35 / 3.89	1446 38 / 4.47	1510 41 / 5.07	1571 44 / 5.67	1630 46 / 6.29	1687 49 / 6.92	1742 52 / 7.57	1795 54 / 8.22	
7000	2001	1359 32 / 3.25	1437 35 / 3.99	1506 41 / 4.73	1568 44 / 5.46	1628 46 / 6.20	1684 49 / 6.95	1739 52 / 7.71	1792 54 / 8.48						
9000	2573	1748 49 / 6.91													

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 6297 cfm.

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

USBI 24BDHP-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 6297 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

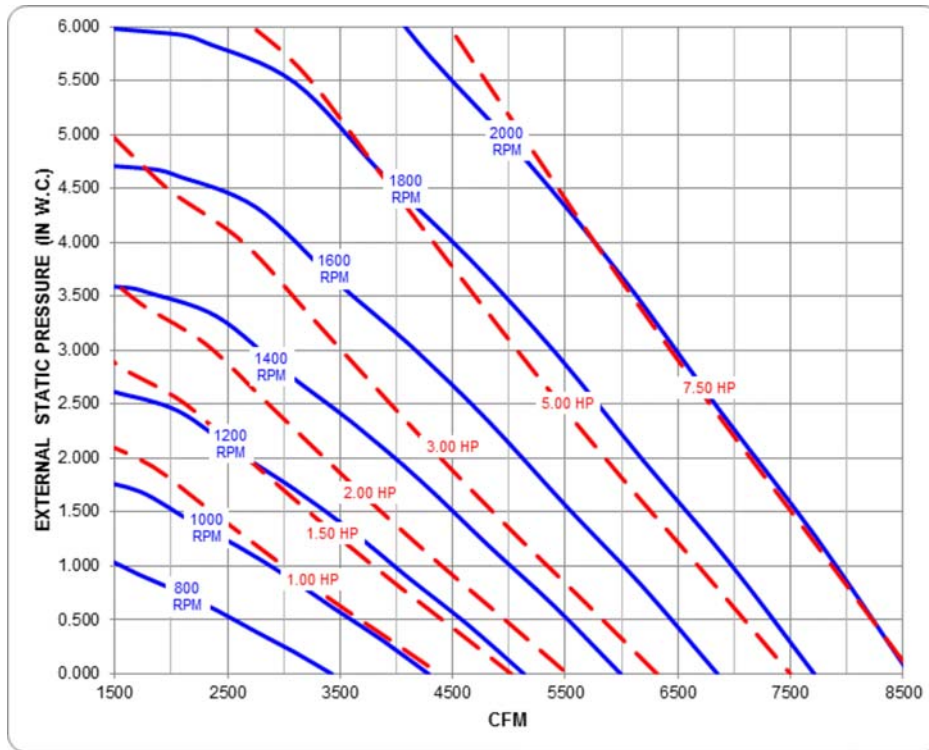
USBI 20DD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.										
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	5.000
		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	RPM Sone/BHP	RPM Sone/BHP
3500	1626	818 12.5 / 0.51	979 15.7 / 0.90	1110 19.8 / 1.30	1223 23 / 1.71	1323 27 / 2.12	1415 30 / 2.54	1499 33 / 2.97	1578 36 / 3.42	1653 39 / 3.89	1724 42 / 4.37	1792 45 / 4.87
4500	2090	1051 19.6 / 1.08	1183 23 / 1.57	1296 26 / 2.09	1398 29 / 2.60	1490 32 / 3.12	1576 35 / 3.64	1655 39 / 4.17	1729 42 / 4.70			
5500	2555	1285 28 / 1.98	1396 30 / 2.57	1495 32 / 3.19	1585 36 / 3.82	1668 39 / 4.44	1748 43 / 5.08					
6500	3019	1518 36 / 3.26	1615 39 / 3.96	1702 42 / 4.68	1783 44 / 5.42							
7500	3484	1752 47 / 5.01										

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 4184 cfm.

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

USBI 20DD-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 4184 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

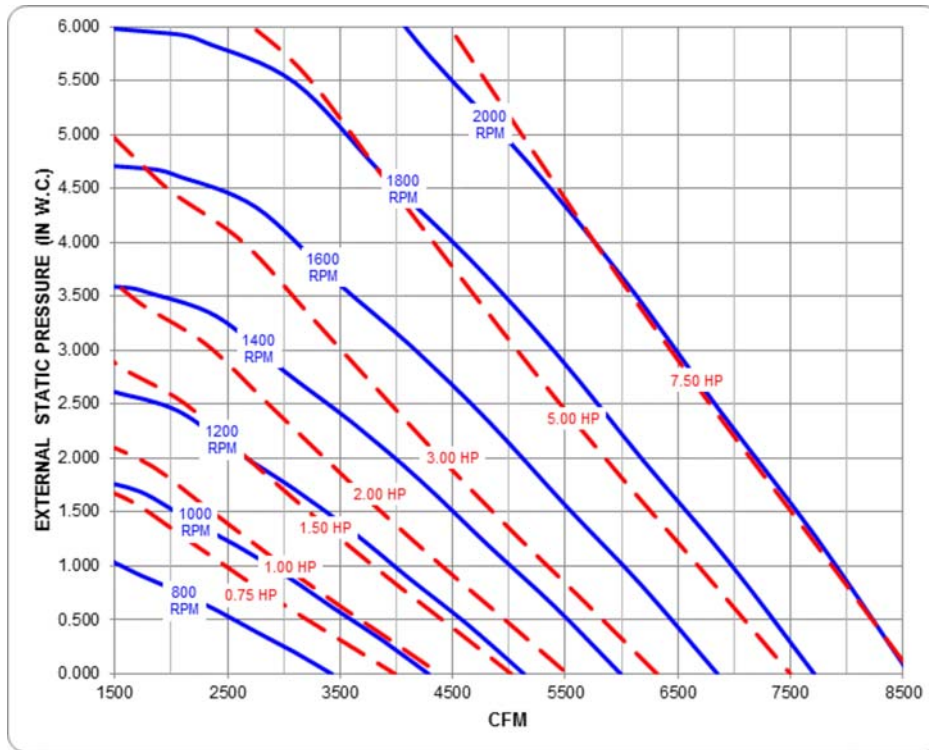
USBI 20BD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.										
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	5.000
		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	RPM Sone/BHP	RPM Sone/BHP
3500	1506	818 12.5 / 0.51	979 15.7 / 0.90	1110 19.8 / 1.30	1223 23 / 1.71	1323 27 / 2.12	1415 30 / 2.54	1499 33 / 2.97	1578 36 / 3.42	1653 39 / 3.89	1724 42 / 4.37	1792 45 / 4.87
4500	1936	1051 19.6 / 1.08	1183 23 / 1.57	1296 26 / 2.09	1398 29 / 2.60	1490 32 / 3.12	1576 35 / 3.64	1655 39 / 4.17	1729 42 / 4.70			
5500	2366	1285 28 / 1.98	1396 30 / 2.57	1495 32 / 3.19	1585 36 / 3.82	1668 39 / 4.44	1748 43 / 5.08					
6500	2797	1518 36 / 3.26	1615 39 / 3.96	1702 42 / 4.68	1783 44 / 5.42							
7500	3227	1752 47 / 5.01										

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 4184 cfm.

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

USBI 20BD-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 4184 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

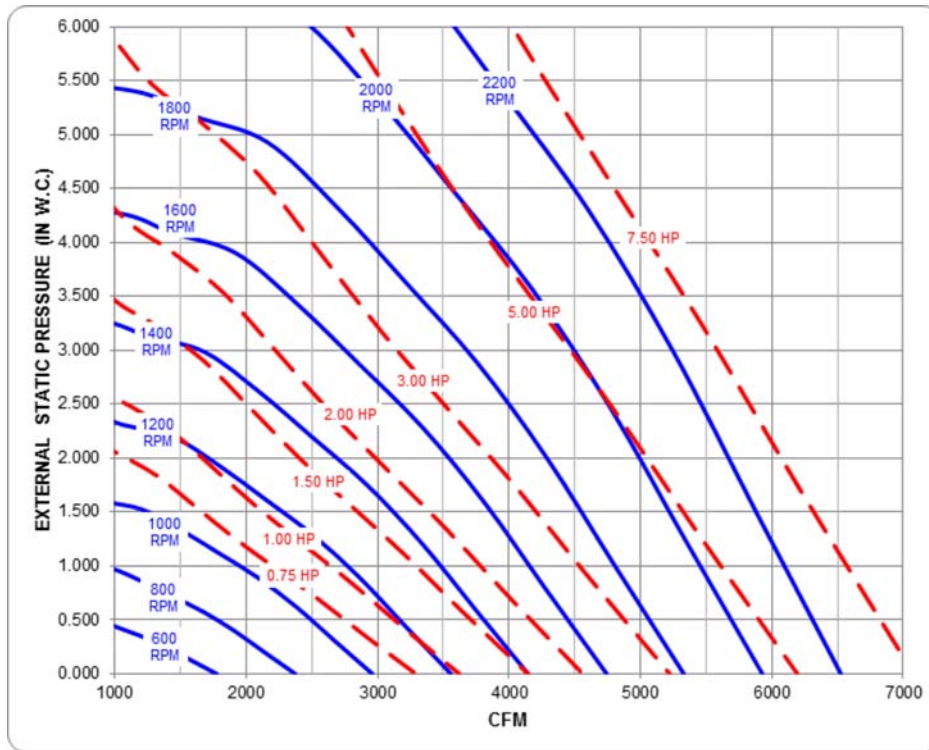
USBI 20BDHP-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.												
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	5.000	5.500	
		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	RPM Sone/BHP	
2000	861	676 10.0 / 0.17	863 13.9 / 0.40	1011 17.6 / 0.66	1138 21 / 0.92	1253 24 / 1.20	1359 27 / 1.50	1458 30 / 1.82	1550 33 / 2.14	1638 36 / 2.49	1723 39 / 2.85	1803 42 / 3.22	1880 45 / 3.60	
3000	1291	1013 18.2 / 0.57	1148 21 / 0.91	1267 25 / 1.27	1373 28 / 1.64	1471 31 / 2.02	1561 34 / 2.41	1647 37 / 2.81	1728 39 / 3.22	1805 42 / 3.63	1880 45 / 4.06	1952 48 / 4.50		
4000	1721	1351 28 / 1.35	1455 31 / 1.79	1552 33 / 2.25	1641 36 / 2.73	1726 39 / 3.22	1805 42 / 3.72	1881 45 / 4.22	1952 48 / 4.73					
5000	2151	1688 39 / 2.64	1772 42 / 3.18	1853 44 / 3.74	1930 47 / 4.32									

Max Sizeable RPM = 2000 RPM. Table shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 4184 cfm.

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

USBI 20BDHP-RM Performance Curve

Max Sizeable RPM = 2000 RPM. Curve shown extended beyond this point for reference only.

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 4184 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

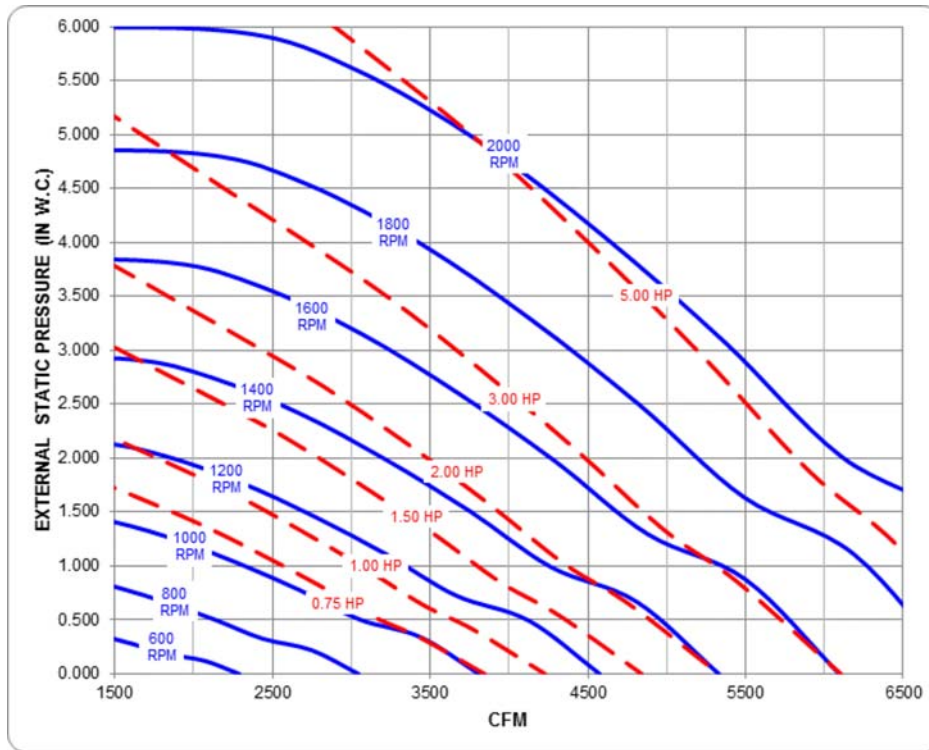
USBI 18DD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.									
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
		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
2500	1450	656 7.6 / 0.21	878 9.4 / 0.46	1037 12.7 / 0.72	1164 15.5 / 1.01	1279 18.3 / 1.33	1387 21 / 1.67	1491 23 / 2.03	1591 26 / 2.42	1690 28 / 2.83	1786 31 / 3.26
3500	2030	918 13.2 / 0.57	1077 15.6 / 0.91	1234 17.2 / 1.28	1356 20 / 1.64	1460 23 / 2.02	1553 25 / 2.41	1640 27 / 2.83	1723 29 / 3.26		
4500	2610	1180 20 / 1.20	1294 25 / 1.63	1432 23 / 2.10	1554 25 / 2.57	1656 28 / 3.03	1747 30 / 3.50				
5500	3190	1443 28 / 2.20	1529 33 / 2.69	1639 33 / 3.26	1752 33 / 3.84						
6500	3770	1705 36 / 3.63	1775 40 / 4.20								

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 3512 cfm.

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

USBI 18DD-RM Performance Curve

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

Max discharge velocity for restaurant applications is 1800 fpm. This equates to 3512 cfm.

Performance shown is for installation type B Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses.

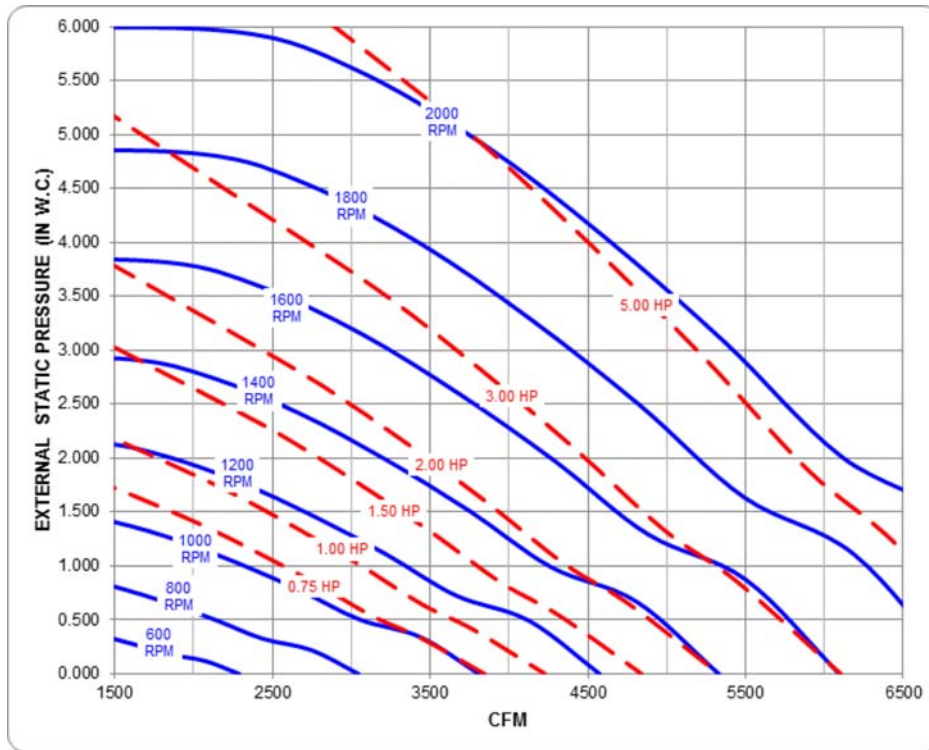
USBI 18BD-RM Performance Table

CFM	Discharge Velocity FPM	Static Pressure in Inches W.G.									
		0.000	0.500	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
		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
2500	1281	656 7.6 / 0.21	878 9.4 / 0.46	1037 12.7 / 0.72	1164 15.5 / 1.01	1279 18.3 / 1.33	1387 21 / 1.67	1491 23 / 2.03	1591 26 / 2.42	1690 28 / 2.83	1786 31 / 3.26
3500	1794	918 13.2 / 0.57	1077 15.6 / 0.91	1234 17.2 / 1.28	1356 20 / 1.64	1460 23 / 2.02	1553 25 / 2.41	1640 27 / 2.83	1723 29 / 3.26		
4500	2307	1180 20 / 1.20	1294 25 / 1.63	1432 23 / 2.10	1554 25 / 2.57	1656 28 / 3.03	1747 30 / 3.50				
5500	2819	1443 28 / 2.20	1529 33 / 2.69	1639 33 / 3.26	1752 33 / 3.84						
6500	3332	1705 36 / 3.63	1775 40 / 4.20								

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