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ADDITIONAL INFORMATION

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CERTIFICATIONS

Rupp Air certifies that Model DU10HRA thru DU360HRA 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 DU10HRA thru DU360HRA are ETL Listed under file number 3049729-002 and comply with UL705 (electrical) Standards and CSA Std C22.2, No 113.

Models DU12HRA thru DU360HRA are ETL Listed under file number 3049729-001 and comply with UL762 Standards.



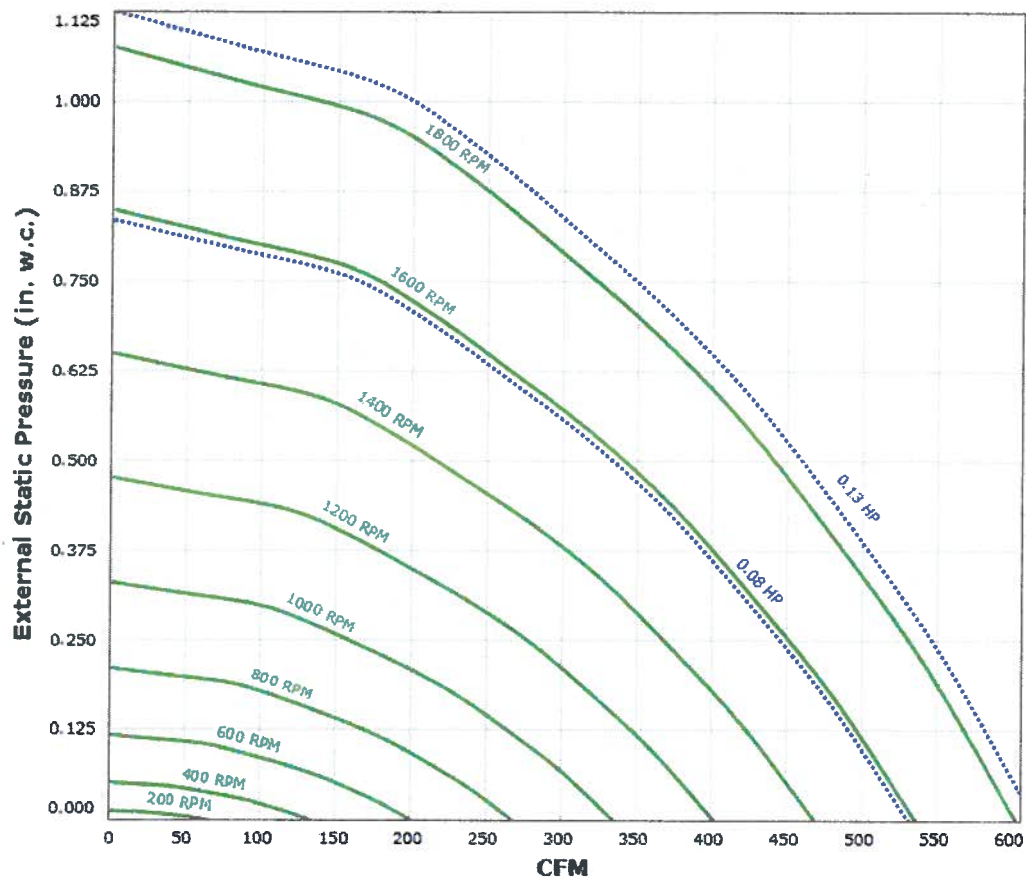
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DU10HRA Performance Curve

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

Motor 7190-2912 has an rpm range of 1000 to 1550.

Motor M047PWAAE-ECM-50-115 has an rpm range of 350 to 1800.

Motor M047PWAAE-ECM-50-230 has an rpm range of 350 to 1800.

Motor M047PWAAE-ECM-60-115 has an rpm range of 350 to 1800.

Motor M047PWAAE-ECM-60-230 has an rpm range of 350 to 1800.

Performance shown is certified for Installation Type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream.

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DU10HRA

CFM	Static Pressure in Inches W.G.							
	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
250	755 1.6 / 0.01	969 2.5 / 0.02	1152 4.1 / 0.03	1309 5.7 / 0.04	1453 7.5 / 0.06	1582 8.8 / 0.08	1689 9.7 / 0.10	1799 10.5 / 0.12
300	906 2.6 / 0.01	1091 3.4 / 0.03	1255 5.1 / 0.04	1402 6.8 / 0.06	1531 8.4 / 0.07	1657 9.4 / 0.09	1765 10.3 / 0.11	
350	1054 3.6 / 0.02	1215 4.7 / 0.04	1362 6.3 / 0.05	1496 8.1 / 0.07	1620 9.1 / 0.09	1741 10.1 / 0.11		
400	1205 5.3 / 0.04	1351 6.3 / 0.05	1481 7.9 / 0.07	1606 9.0 / 0.08	1724 9.9 / 0.10			
450	1355 7.1 / 0.05	1485 8.3 / 0.07	1607 9.0 / 0.08	1718 9.9 / 0.10				
500	1506 9.4 / 0.07	1623 9.6 / 0.09	1730 10.0 / 0.10					
550	1657 10.7 / 0.09	1763 10.9 / 0.11						

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

Motor 7190-2912 has an rpm range of 1000 to 1550.

Motor M047PWAAE-ECM-50-115 has an rpm range of 350 to 1800.

Motor M047PWAAE-ECM-50-230 has an rpm range of 350 to 1800.

Motor M047PWAAE-ECM-60-115 has an rpm range of 350 to 1800.

Motor M047PWAAE-ECM-60-230 has an rpm range of 350 to 1800.

Performance shown is certified for Installation Type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

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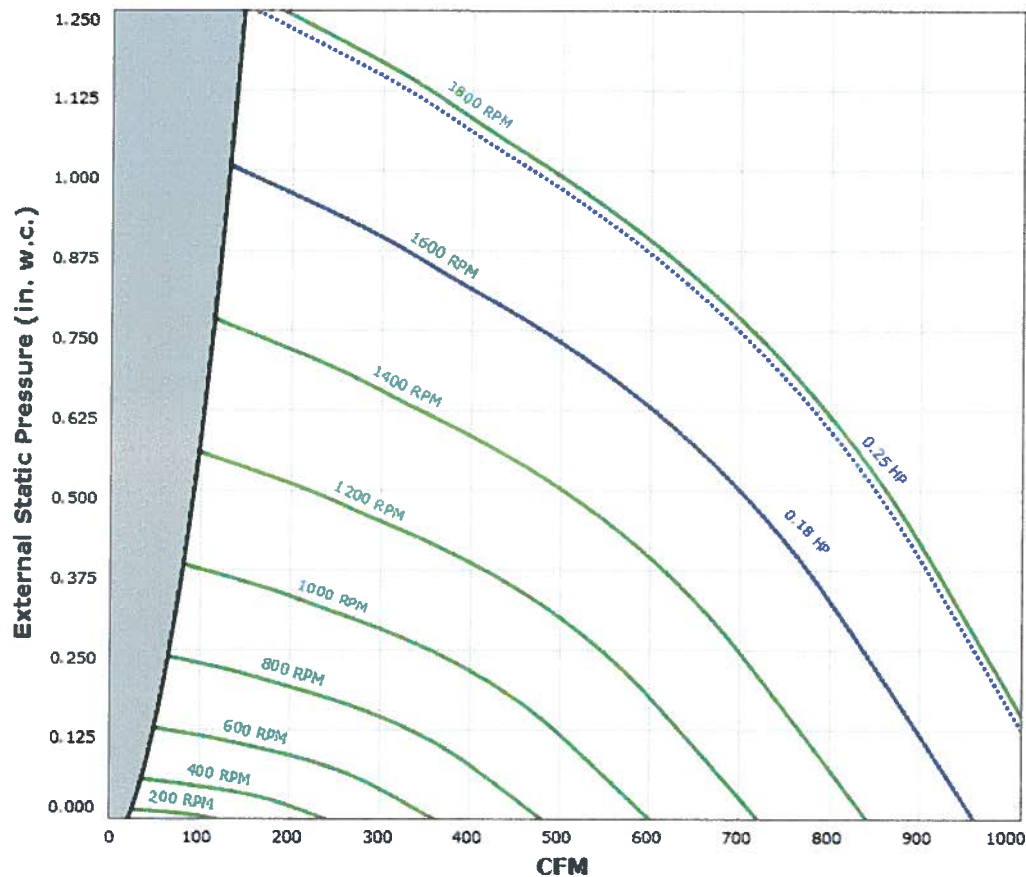
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DU12HRA Performance Curve

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

Motor 7185-0293 has an rpm range of 1125 to 1625.

Motor M047PWAAD-ECM-50-115 has an rpm range of 350 to 1800.

Motor M047PWAAD-ECM-50-230 has an rpm range of 350 to 1800.

Motor M047PWAAD-ECM-60-115 has an rpm range of 350 to 1800.

Motor M047PWAAD-ECM-60-230 has an rpm range of 350 to 1800.

Performance shown is certified for Installation Type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream.

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CFM	Static Pressure in Inches W.G.								
	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000
	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
300	509 0.4 / 0.01	746 1.8 / 0.02	940 3.2 / 0.04	1103 4.5 / 0.06	1245 6.1 / 0.08	1370 7.5 / 0.11	1478 8.9 / 0.14	1587 10.0 / 0.18	1676 10.8 / 0.21
400	677 1.5 / 0.01	866 2.8 / 0.03	1028 3.9 / 0.05	1180 5.4 / 0.07	1311 6.8 / 0.10	1434 8.3 / 0.13	1544 9.6 / 0.16	1646 10.5 / 0.20	1739 11.4 / 0.23
500	846 2.9 / 0.03	1002 4.0 / 0.04	1142 5.2 / 0.07	1272 6.4 / 0.09	1393 7.8 / 0.12	1511 9.3 / 0.15	1613 10.2 / 0.18	1718 11.2 / 0.22	
600	1015 4.4 / 0.05	1149 5.7 / 0.07	1268 6.8 / 0.09	1382 8.0 / 0.12	1493 9.3 / 0.15	1596 10.1 / 0.18	1695 11.0 / 0.21	1791 11.9 / 0.25	
700	1184 6.4 / 0.07	1304 7.7 / 0.10	1408 8.9 / 0.12	1509 10.0 / 0.15	1606 10.6 / 0.18	1699 11.3 / 0.22	1790 12.0 / 0.25		
800	1351 8.6 / 0.11	1457 10.1 / 0.14	1553 11.0 / 0.16	1643 11.6 / 0.19	1732 12.1 / 0.23				
900	1520 11.1 / 0.15	1616 11.9 / 0.19	1705 12.7 / 0.22	1786 13.2 / 0.25					
1000	1689 12.8 / 0.21	1776 13.7 / 0.25							

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

Motor 7185-0293 has an rpm range of 1125 to 1625.

Motor M047PWAAD-ECM-50-115 has an rpm range of 350 to 1800.

Motor M047PWAAD-ECM-50-230 has an rpm range of 350 to 1800.

Motor M047PWAAD-ECM-60-115 has an rpm range of 350 to 1800.

Motor M047PWAAD-ECM-60-230 has an rpm range of 350 to 1800.

Performance shown is certified for Installation Type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

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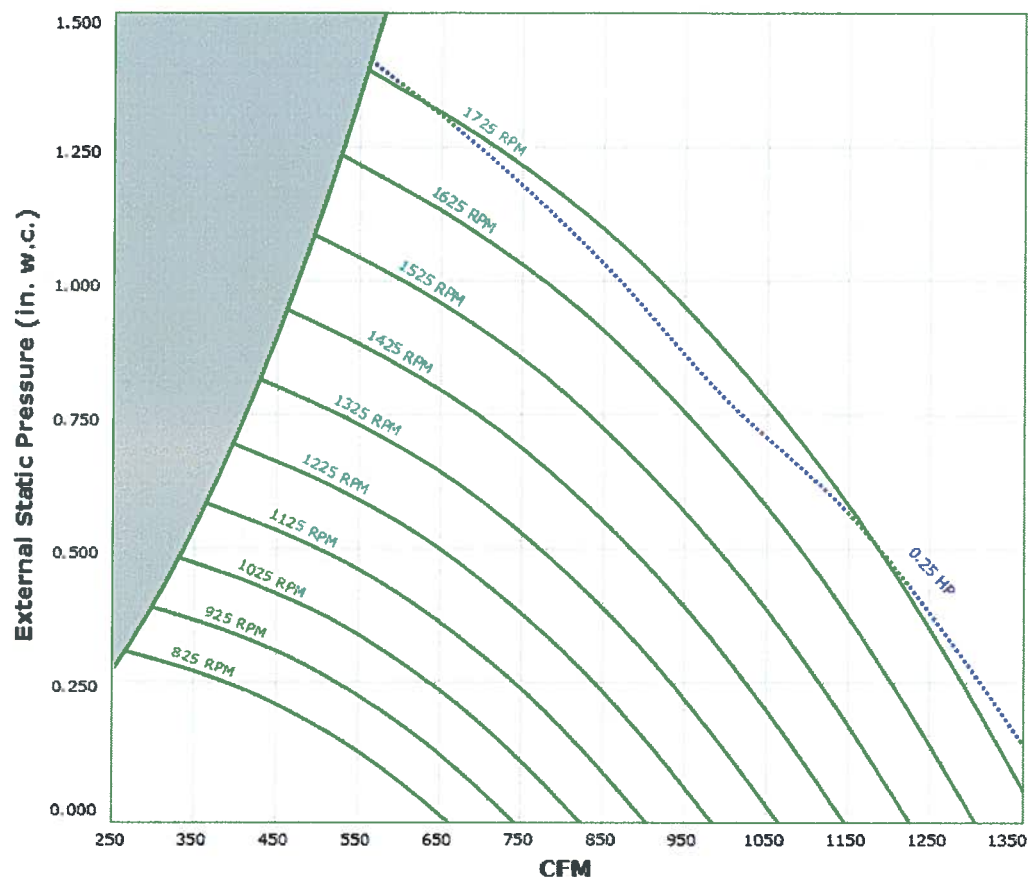


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DU30HRA Performance Curve



Max Sizeable RPM = 1625 RPM. Curve shown extended beyond this point for reference only.

Motor 48A17O11038A has an rpm range of 825 to 1625.

Motor 48A17T11026A has an rpm range of 825 to 1625.

Motor CK48HF24KF01-50-115 has an rpm range of 825 to 1440.

Motor CK48HF24KF01-50-230 has an rpm range of 825 to 1440.

Motor CK48HF24KF01-60-115 has an rpm range of 825 to 1625.

Motor CK48HF24KF01-60-230 has an rpm range of 825 to 1625.

Performance shown is certified for Installation Type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream.

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DU30HRA

CFM	Static Pressure in Inches W.G.				
	0.000	0.250	0.500	0.750	1.000
	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
750	945 4.9 / 0.04	1133 6.8 / 0.07	1307 8.9 / 0.12	1462 11.1 / 0.16	1609 13.3 / 0.21
850	1071 6.1 / 0.05	1239 8.1 / 0.09	1396 10.1 / 0.14	1543 12.3 / 0.19	
950	1195 7.5 / 0.08	1348 9.5 / 0.12	1491 11.5 / 0.17		
1050	1321 9.1 / 0.10	1460 11.0 / 0.15	1593 13.0 / 0.20		
1150	1447 10.8 / 0.13	1575 12.8 / 0.18			
1250	1572 12.7 / 0.17				

Max Sizeable RPM = 1625 RPM. Table shown extended beyond this point for reference only.

Motor 48A17O11038A has an rpm range of 825 to 1625.

Motor 48A17T11026A has an rpm range of 825 to 1625.

Motor CK48HF24KF01-50-115 has an rpm range of 825 to 1440.

Motor CK48HF24KF01-50-230 has an rpm range of 825 to 1440.

Motor CK48HF24KF01-60-115 has an rpm range of 825 to 1625.

Motor CK48HF24KF01-60-230 has an rpm range of 825 to 1625.

Performance shown is certified for Installation Type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

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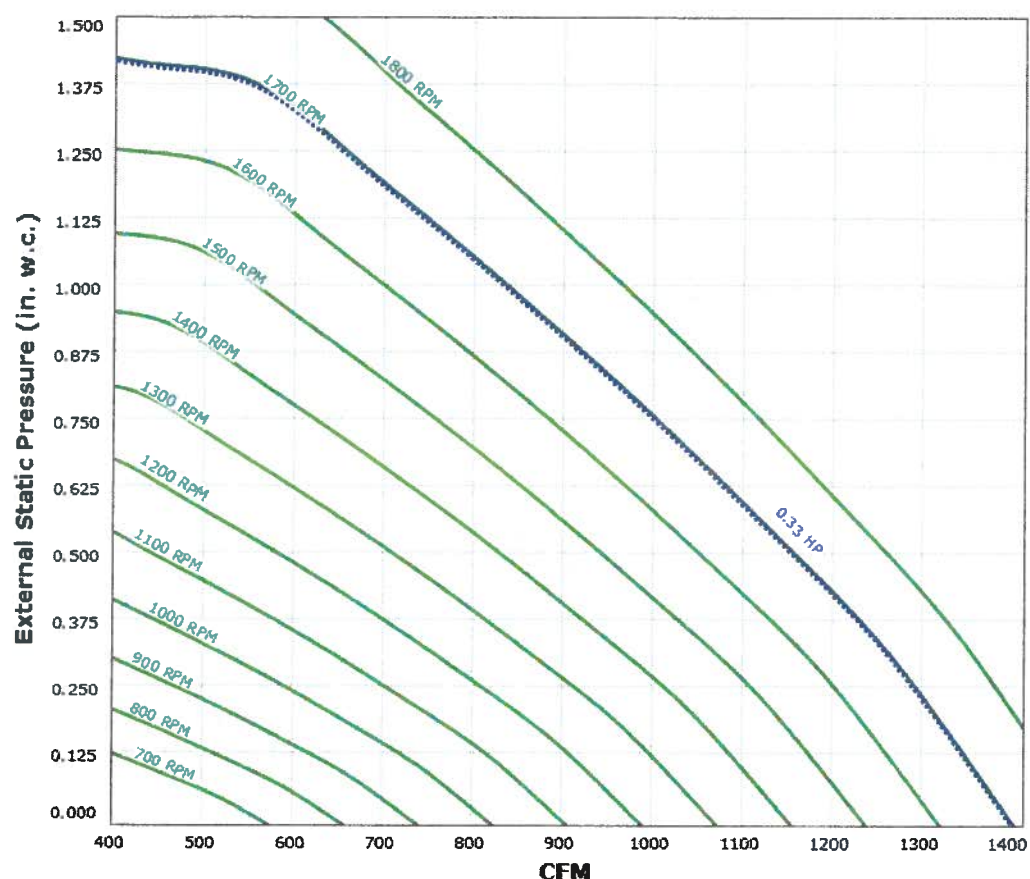
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DU33HRA Performance Curve

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

Motor 48A17011036 has an rpm range of 1200 to 1635.

Motor 48A17T11027A has an rpm range of 1200 to 1625.

Motor CK48HF25JF01-50-115 has an rpm range of 1200 to 1350.

Motor CK48HF25JF01-50-230 has an rpm range of 1200 to 1350.

Motor CK48HF25JF01-60-115 has an rpm range of 1200 to 1625.

Motor CK48HF25JF01-60-230 has an rpm range of 1200 to 1625.

Motor M055PWCUN0318-ECM-50-115 has an rpm range of 300 to 1800.

Motor M055PWCUN0318-ECM-50-230 has an rpm range of 300 to 1800.

Motor M055PWCUN0318-ECM-60-115 has an rpm range of 300 to 1800.

Motor M055PWCUN0318-ECM-60-230 has an rpm range of 300 to 1800.

Performance shown is certified for Installation Type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream.

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DU33HRA

CFM	Static Pressure in Inches W.G.											
	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.125	1.250	1.375
	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
400	491 0.8 / 0.01	688 2.3 / 0.02	835 3.7 / 0.04	957 5.0 / 0.06	1064 6.0 / 0.08	1166 7.1 / 0.11	1258 8.3 / 0.14	1347 9.5 / 0.17	1434 10.7 / 0.20	1515 11.9 / 0.24	1594 13.2 / 0.28	1667 14.4 / 0.
500	611 1.7 / 0.02	779 3.1 / 0.03	917 4.6 / 0.05	1031 5.7 / 0.07	1131 6.8 / 0.10	1222 7.8 / 0.12	1309 8.9 / 0.15	1393 10.1 / 0.18	1471 11.3 / 0.22	1548 12.4 / 0.25	1618 13.6 / 0.29	1689 14.8 / 0.
600	734 2.7 / 0.03	873 4.1 / 0.05	1000 5.4 / 0.07	1113 6.6 / 0.09	1207 7.7 / 0.12	1296 8.8 / 0.15	1376 9.9 / 0.18	1453 11.0 / 0.21	1527 12.1 / 0.24	1596 13.2 / 0.28	1667 14.4 / 0.32	
700	857 3.9 / 0.04	974 5.2 / 0.06	1094 6.3 / 0.09	1199 7.5 / 0.12	1292 8.7 / 0.15	1375 9.8 / 0.18	1452 11.0 / 0.21	1525 12.1 / 0.24	1595 13.2 / 0.28	1663 14.3 / 0.31		
800	979 5.2 / 0.06	1080 6.2 / 0.09	1189 7.4 / 0.11	1288 8.7 / 0.15	1377 9.9 / 0.18	1457 11.1 / 0.21	1533 12.2 / 0.25	1603 13.3 / 0.28	1670 14.5 / 0.32			
900	1102 6.4 / 0.09	1189 7.4 / 0.11	1286 8.6 / 0.14	1380 9.9 / 0.18	1466 11.2 / 0.21	1544 12.4 / 0.25	1619 13.6 / 0.29	1685 14.7 / 0.33				
1000	1224 7.9 / 0.13	1300 8.8 / 0.15	1387 10.0 / 0.18	1475 11.3 / 0.22	1558 12.6 / 0.26	1634 13.8 / 0.30						
1100	1346 9.4 / 0.17	1416 10.4 / 0.19	1493 11.6 / 0.23	1574 12.8 / 0.27	1652 14.2 / 0.31							
1200	1469 11.2 / 0.22	1531 12.2 / 0.24	1600 13.2 / 0.28	1674 14.5 / 0.32								
1300	1591 13.1 / 0.27	1648 14.1 / 0.31										

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

Motor 48A17011036 has an rpm range of 1200 to 1635.

Motor 48A17T11027A has an rpm range of 1200 to 1625.

Motor CK48HF25JF01-50-115 has an rpm range of 1200 to 1350.

Motor CK48HF25JF01-50-230 has an rpm range of 1200 to 1350.

Motor CK48HF25JF01-60-115 has an rpm range of 1200 to 1625.

Motor CK48HF25JF01-60-230 has an rpm range of 1200 to 1625.

Motor M055PWCUN0318-ECM-50-115 has an rpm range of 300 to 1800.

Motor M055PWCUN0318-ECM-50-230 has an rpm range of 300 to 1800.

Motor M055PWCUN0318-ECM-60-115 has an rpm range of 300 to 1800.

Motor M055PWCUN0318-ECM-60-230 has an rpm range of 300 to 1800.

Performance shown is certified for Installation Type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free inlet hemispherical sound levels.

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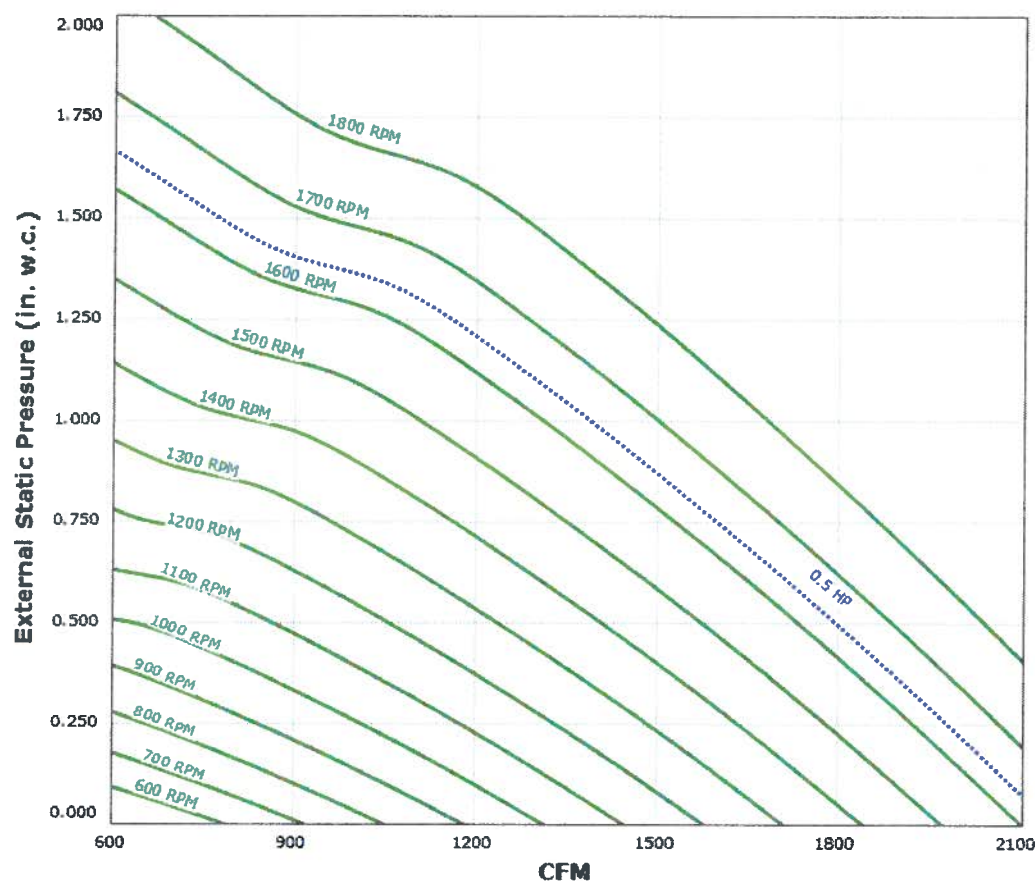
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DU50HRA Performance Curve

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 300 to 1800.

Motor M055PWCUM0317-ECM-50-230 has an rpm range of 300 to 1800.

Motor M055PWCUM0317-ECM-60-115 has an rpm range of 300 to 1800.

Motor M055PWCUM0317-ECM-60-230 has an rpm range of 300 to 1800.

Performance shown is certified for Installation Type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream.

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DU50HRA

CFM	Static Pressure in Inches W.G.						
	0.000	0.250	0.500	0.750	1.000	1.250	1.500
	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
600	459 1.2 / 0.01	774 4.6 / 0.05	993 7.3 / 0.11	1172 10.0 / 0.18	1322 12.5 / 0.26	1456 15.0 / 0.35	1575 17.4 / 0.44
900	687 3.5 / 0.04	933 6.5 / 0.09	1118 9.1 / 0.16	1278 11.8 / 0.24	1422 14.4 / 0.33	1554 17.0 / 0.43	
1200	915 6.3 / 0.09	1117 9.1 / 0.16	1277 11.7 / 0.24	1418 14.3 / 0.32	1548 16.8 / 0.42		
1500	1143 9.5 / 0.17	1315 12.4 / 0.26	1455 15.0 / 0.35	1582 17.5 / 0.45			
1800	1372 13.4 / 0.29	1519 16.3 / 0.40	1645 18.9 / 0.50				
2100	1601 17.9 / 0.46						

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 300 to 1800.

Motor M055PWCUM0317-ECM-50-230 has an rpm range of 300 to 1800.

Motor M055PWCUM0317-ECM-60-115 has an rpm range of 300 to 1800.

Motor M055PWCUM0317-ECM-60-230 has an rpm range of 300 to 1800.

Performance shown is certified for Installation Type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

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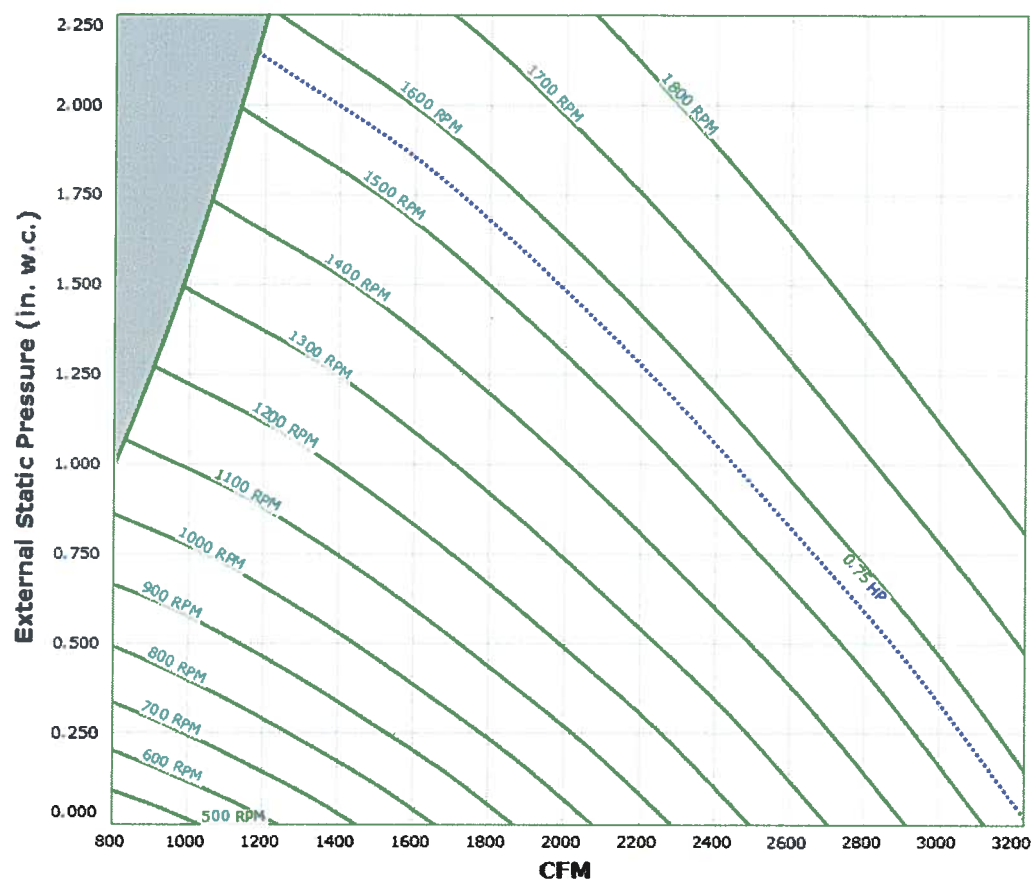
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DU85HRA Performance Curve



Max Sizeable RPM = 1800 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 300 to 1800.

Motor M055PWCUL0316-ECM-50-230 has an rpm range of 300 to 1800.

Motor M055PWCUL0316-ECM-60-115 has an rpm range of 300 to 1800.

Motor M055PWCUL0316-ECM-60-230 has an rpm range of 300 to 1800.

Performance shown is certified for Installation Type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream.

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DU85HRA

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
	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
800	389 1.1 / 0.01	633 4.0 / 0.05	802 6.5 / 0.10	942 8.3 / 0.17	1062 10.0 / 0.24				
1000	485 2.3 / 0.02	700 5.0 / 0.07	856 7.2 / 0.12	988 9.0 / 0.19	1105 10.8 / 0.27	1211 12.7 / 0.35	1305 14.6 / 0.44		
1200	582 3.4 / 0.04	773 6.0 / 0.09	917 8.0 / 0.15	1041 9.7 / 0.22	1152 11.6 / 0.30	1254 13.6 / 0.39	1348 15.4 / 0.49	1435 17.4 / 0.59	1517 19.1 / 0.69
1400	679 4.7 / 0.06	848 7.1 / 0.12	985 8.9 / 0.19	1101 10.7 / 0.27	1206 12.6 / 0.35	1302 14.5 / 0.44	1394 16.5 / 0.54	1478 18.2 / 0.64	1559 20 / 0.75
1600	776 6.1 / 0.09	928 8.1 / 0.16	1057 10.0 / 0.23	1167 11.9 / 0.32	1267 13.8 / 0.40	1359 15.7 / 0.50	1445 17.6 / 0.60	1527 19.3 / 0.71	
1800	873 7.4 / 0.13	1010 9.3 / 0.20	1131 11.3 / 0.29	1237 13.2 / 0.38	1331 15.1 / 0.47	1420 17.0 / 0.57	1503 18.8 / 0.67		
2000	969 8.7 / 0.18	1093 10.5 / 0.26	1208 12.7 / 0.35	1309 14.6 / 0.45	1401 16.6 / 0.55	1485 18.4 / 0.65			
2200	1066 10.1 / 0.24	1179 12.1 / 0.33	1287 14.2 / 0.42	1384 16.2 / 0.53	1472 18.1 / 0.63	1553 19.9 / 0.74			
2400	1163 11.8 / 0.31	1266 13.8 / 0.40	1368 15.9 / 0.51	1461 17.9 / 0.62	1545 19.7 / 0.73				
2600	1260 13.7 / 0.40	1355 15.6 / 0.49	1450 17.7 / 0.61	1538 19.6 / 0.72					
2800	1357 15.6 / 0.50	1445 17.6 / 0.60	1533 19.5 / 0.72						
3000	1454 17.7 / 0.61	1535 19.5 / 0.72							
3200	1550 19.8 / 0.74								

Max Sizeable RPM = 1800 RPM. Table 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 300 to 1800.

Motor M055PWCUL0316-ECM-50-230 has an rpm range of 300 to 1800.

Motor M055PWCUL0316-ECM-60-115 has an rpm range of 300 to 1800.

Motor M055PWCUL0316-ECM-60-230 has an rpm range of 300 to 1800.

Performance shown is certified for Installation Type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free inlet hemispherical sone levels.

Catalog #110R

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