Commercial & Industrial Ventilation

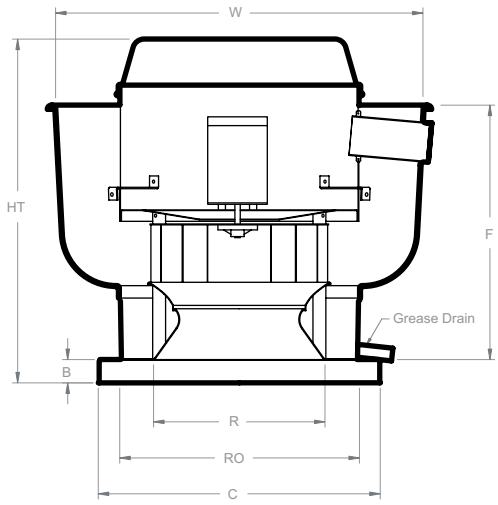
Complete Line of Sustainable Products

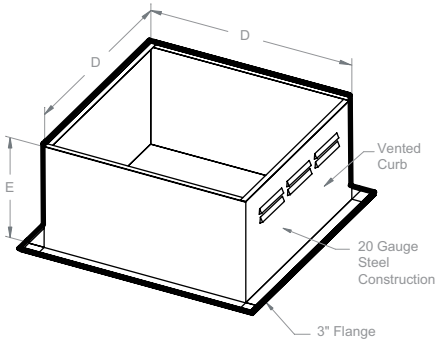
exhausthooddepot.com
Phone: 1-800-618-0483

Contents

NCA-FA Belt Drive

Centrifugal Upblast Fans





Features & Benefits

- Complete range of motors available to meet specific application needs
- Heavy duty construction, durable and weather resistant
- Non-overloading backward inclined wheels, blades and inlets fabricated from 3003-H14 aluminum
- Wall mount applications; units up to 24" nominal wheel can be wall mounted
- Forced fresh air through the motor compartment cools motor and ensures long motor life
- Quick release latches allow for easy access to motor compartment
- Variable pitch motor pulley allows for field adjustment and system balancing
- High efficiency combined with low tip speeds result in quiet operation
- External disconnect switch
- Fully welded, leak-proof grease drain
- Vibration isolation

Options

- Gravity Damper (UL 705 only)
- Motorized Damper (UL 705 only)
- Wall Mount Sleeve
- Bird Screen (UL 705 only)
- Grease Collection Box
- Roof Curb (vented & non vented)
- Base Hinging Kit or Hinged Sub Base (for NFPA96 compliance)

Certifications

CaptiveAire® certifies that Models NCA8FA thru NCA36FA shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests & procedures performed in accordance with AMCA Publication 211 and Publication 311, and comply with the requirements of the AMCA Certified Ratings Program.

Models NCA8FA thru NCA36FA are ETL Listed and comply with UL705 (electrical) and UL762 Standards and CSA Std. C22.2, No. 113.

Performance

MODEL	HT	W	B	C	D	E	F	R	RO	Weight (lbs)	Damper (lbs)
NCA8FA	25 1/4	27 1/4	2	21	19 1/2	22	18 1/2	12 1/8	16	105	15
NCA10FA	27 1/4	30 1/4	2	21	19 1/2	20	21 1/2	13 1/4	16	120	15
NCA14FA	30 1/2	33 3/4	2	24 3/4	23	20	23	14 7/8	20	140	19
NCA16FA	33 3/4	39 3/8	2	28	26 1/2	20	23 1/2	16 1/2	24	190	23
NCA18FA	33 3/8	38 7/8	2	28	26 1/2	20	29 1/2	18	24	195	23
NCA24FA	37 1/2	43 3/8	2	33	31 1/2	20	30 5/8	23 7/8	28	270	27
NCA30FA	40	52 3/4	2	40	38 1/2	20	33 1/2	24	36	410	35
NCA36FA	49 1/2	66	2	44 1/2	43	20	47 1/2	30 3/4	36	470	35 1/2

Motor Frame

Model	Largest Frame
NCA8FA	56
NCA10FA	56
NCA14FA	145T
NCA16FA	145T
NCA18FA	145T
NCA24FA	182T
NCA30FA	182T
NCA36FA	213T

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		0.00" sp	0.25" sp	0.50" sp	0.75" sp	1.00" sp	1.25" sp	1.50" sp	1.75" sp	2.00" sp
MODEL	CFM	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
NCA8FA	1000	1038 4.7 / 0.07	1236 6.1 / 0.13	1397 7.6 / 0.20	1534 11.6 / 0.26	1658 12.3 / 0.33	1779 13.1 / 0.41	1898 13.2 / 0.49		
NCA8FA	1200	1246 6.1 / 0.13	1415 9.0 / 0.20	1562 13.0 / 0.27	1690 14.0 / 0.35	1805 14.8 / 0.43				
NCA8FA	1400	1454 11.6 / 0.20	1598 13.9 / 0.28	1735 15.3 / 0.37	1854 16.4 / 0.45					
NCA8FA	1600	1661 15.0 / 0.30	1788 16.3 / 0.39	1912 16.0 / 0.49						
NCA8FA	1800	1869 17.8 / 0.43								
NCA10FA	1400	896 7.2 / 0.09	1017 9.1 / 0.16	1135 11.5 / 0.23	1252 12.1 / 0.31	1367 14.4 / 0.40	1480 15.7 / 0.50			
NCA10FA	1600	1024 9.9 / 0.14	1131 11.9 / 0.21	1235 13.9 / 0.29	1338 14.9 / 0.38	1439 15.8 / 0.48				
NCA10FA	1800	1152 13.1 / 0.20	1247 14.6 / 0.28	1340 15.4 / 0.37	1432 16.6 / 0.46					
NCA10FA	2000	1280 14.8 / 0.28	1366 17.1 / 0.36	1450 17.9 / 0.46						
NCA10FA	2200	1408 18.7 / 0.37	1486 19.4 / 0.46							
NCA10FA	2400	1536 21 / 0.48								
NCA14FA	1600	700 7.1 / 0.09	779 7.8 / 0.14	911 9.4 / 0.23	1034 9.6 / 0.32	1151 12.6 / 0.43	1263 14.7 / 0.55	1371 15.3 / 0.69	1475 16.3 / 0.83	1573 17.6 / 0.99
NCA14FA	1800	719 8.1 / 0.10	844 9.6 / 0.18	964 10.8 / 0.27	1077 10.8 / 0.37	1184 12.5 / 0.49	1288 14.8 / 0.61	1389 15.4 / 0.74	1486 16.5 / 0.89	
NCA14FA	2000	798 9.1 / 0.13	912 10.9 / 0.22	1021 10.2 / 0.32	1125 13.2 / 0.43	1225 13.6 / 0.55	1322 14.9 / 0.67	1415 15.6 / 0.81	1507 16.7 / 0.96	
NCA14FA	2200	878 10.2 / 0.18	981 12.2 / 0.27	1083 12.6 / 0.38	1180 14 / 0.50	1272 15.9 / 0.62	1362 15.8 / 0.75	1449 16 / 0.89		
NCA14FA	2400	958 11.6 / 0.23	1053 12.4 / 0.33	1146 14.3 / 0.45	1236 15.4 / 0.57	1324 17.5 / 0.70	1408 17.3 / 0.84	1490 17.1 / 0.9		
NCA14FA	2600	1038 12 / 0.29	1125 14.3 / 0.40	1212 15.1 / 0.52	1297 17.5 / 0.66	1379 18.6 / 0.79	1458 19.6 / 0.94			
NCA14FA	2800	1118 14.1 / 0.36	1198 15.5 / 0.48	1280 18.1 / 0.61	1359 18.7 / 0.75	1436 19.7 / 0.89				
NCA14FA	3000	1198 15.5 / 0.44	1273 19.1 / 0.57	1349 19.7 / 0.71	1424 20 / 0.85					
NCA14FA	3200	1277 19.4 / 0.54	1348 21 / 0.67	1419 21 / 0.82	1490 22 / 0.97					
NCA14FA	3400	1357 21 / 0.65	1423 22 / 0.79	1491 23 / 0.94						
NCA14FA	3600	1437 22 / 0.77	1499 24 / 0.91							
NCA14FA	3800	1516 24 / 0.90								
NCA16FA	2000	524 4.2 / 0.09	638 6.0 / 0.18	733 7.7 / 0.28	822 9.0 / 0.39					
NCA16FA	2500	655 7.4 / 0.17	750 9.5 / 0.28	833 10.3 / 0.40	907 11.0 / 0.52	978 11.6 / 0.66	1047 12.1 / 0.80	1127 13.8 / 0.98		
NCA16FA	3000	786 11.2 / 0.29	866 12.2 / 0.42	940 12.8 / 0.56	1007 13.0 / 0.70	1069 12.5 / 0.85	1129 13.8 / 1.01	1188 15.0 / 1.17	1248 16.1 / 1.35	1310 17.3 / 1.55
NCA16FA	3500	916 13.9 / 0.46	986 14.8 / 0.61	1052 14.6 / 0.77	1113 15.1 / 0.94	1170 16.4 / 1.10	1224 17.6 / 1.27	1276 18.0 / 1.45	1327 18.5 / 1.64	1377 19.0 / 1.83
NCA16FA	4000	1047 15.6 / 0.69	1108 17.1 / 0.86	1168 17.7 / 1.04	1224 19.4 / 1.23	1276 20 / 1.41	1326 20 / 1.60	1374 21 / 1.80	1420 21 / 2.00	
NCA16FA	4500	1178 19.0 / 0.98	1232 21 / 1.18	1286 22 / 1.38	1337 22 / 1.58	1386 23 / 1.79	1433 24 / 2.00			
NCA16FA	5000	1309 24 / 1.35	1358 24 / 1.56	1406 25 / 1.78						
NCA16FA	5500	1440 27 / 1.80								
NCA18FA	2700	490 4.8 / 0.12	584 6.2 / 0.23	684 8.0 / 0.38	774 9.5 / 0.53	862 11.3 / 0.70				
NCA18FA	3200	581 6.9 / 0.20	657 8.3 / 0.33	744 10.3 / 0.49	825 10.5 / 0.66	902 12.2 / 0.84	976 14.0 / 1.03	1050 15.4 / 1.24		
NCA18FA	3700	672 9.6 / 0.31	735 11.0 / 0.46	810 11.5 / 0.63	884 12.4 / 0.82	954 13.5 / 1.02	1020 15.0 / 1.23	1085 16.1 / 1.44	1148 17.6 / 1.67	1212 19.7 / 1.92
NCA18FA	4200	763 12.5 / 0.45	817 12.5 / 0.61	881 13.5 / 0.80	947 14.7 / 1.01	1012 16.0 / 1.22	1073 16.6 / 1.45	1132 17.5 / 1.69	1189 19.0 / 1.93	
NCA18FA	4700	853 14.4 / 0.63	901 15.8 / 0.81	956 16.2 / 1.01	1015 17.2 / 1.23	1074 17.7 / 1.47	1131 18.7 / 1.71	1187 20 / 1.97		
NCA18FA	5200	944 17.3 / 0.85	986 19.0 / 1.05	1034 18.9 / 1.27	1087 19.1 / 1.50	1141 20 / 1.75				
NCA18FA	5700	1035 21 / 1.12	1073 21 / 1.34	1115 21 / 1.57	1162 22 / 1.82					
NCA18FA	6200	1126 24 / 1.44	1160 24 / 1.68	1199 25 / 1.93						
NCA18FA	6700	1217 28 / 1.82								

Performance shown is for installation Type A; Free Inlet, Free Outlet. Power Rating (BHP) does not include Drive Losses. Performance Ratings do not include the effects of appurtenances in the air stream. The Sound Ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standards 301. Values shown are for installation Type A; Free inlet fan sone levels. The AMCA Certified Ratings Sound Seal applies to Sone Ratings only.

NCA-FA Performance

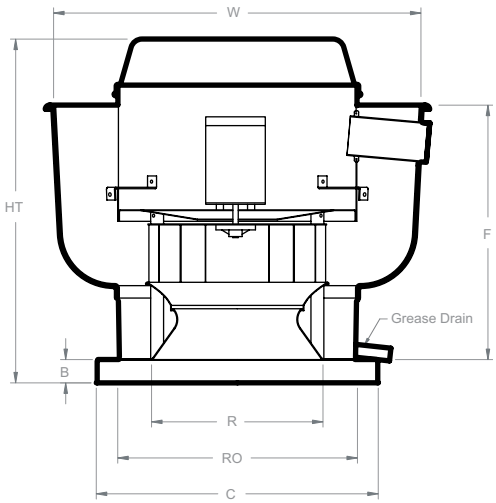
BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

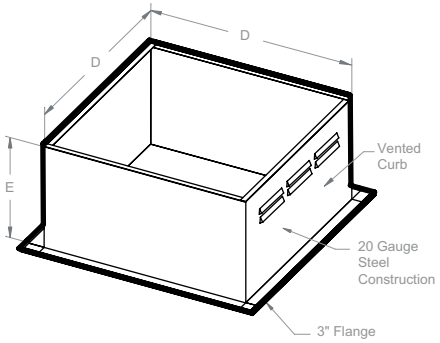
Performance		0.00" sp	0.25" sp	0.50" sp	0.75" sp	1.00" sp	1.25" sp	1.50" sp	1.75" sp	2.00" sp	2.25" sp	2.50" sp
MODEL	CFM	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
NCA24FA	3500	413 6.4 / 0.20	502 8.2 / 0.41	581 9.3 / 0.64	650 11.5 / 0.89	712 13.4 / 1.15						
NCA24FA	4500	530 9.6 / 0.43	602 11.3 / 0.69	668 12.9 / 0.97	729 13.8 / 1.26	785 14.9 / 1.57	838 15.8 / 1.90	887 16.8 / 2.24	933 18.1 / 2.59			
NCA24FA	5500	648 13.4 / 0.79	708 14.7 / 1.10	764 16.0 / 1.43	817 16.3 / 1.77	868 17.3 / 2.13	915 17.5 / 2.50	961 19.1 / 2.88	1004 21 / 3.28	1045 23 / 3.68		
NCA24FA	6500	766 17.0 / 1.30	818 18.0 / 1.67	866 18.1 / 2.05	912 19.2 / 2.44	957 19.4 / 2.85	1000 21 / 3.27	1042 23 / 3.70	1083 24 / 4.14	1121 26 / 4.59		
NCA24FA	7500	884 19.8 / 2.00	930 22 / 2.42	972 22 / 2.85	1013 23 / 3.29	1053 25 / 3.75	1092 27 / 4.22	1130 27 / 4.70				
NCA24FA	8500	1002 25 / 2.91	1042 27 / 3.39	1081 28 / 3.87	1117 29 / 4.37	1153 31 / 4.87						
NCA24FA	9500	1119 32 / 4.06	1156 35 / 4.59									
NCA30FA	6000	446 9.5 / 0.56	503 11.2 / 0.89	557 11.8 / 1.27	606 12.6 / 1.67	652 13.6 / 2.08	696 14.8 / 2.50	738 15.9 / 2.94	781 17.0 / 3.40	822 18.3 / 3.88	863 19.4 / 4.41	905 21 / 4.96
NCA30FA	7000	520 13.2 / 0.89	569 13.7 / 1.26	617 13.8 / 1.69	662 15.2 / 2.15	703 15.9 / 2.61	743 16.1 / 3.09	782 17.1 / 3.57	819 19.1 / 4.06	855 19.8 / 4.57		
NCA30FA	8000	594 14.6 / 1.32	637 16.3 / 1.73	680 17.0 / 2.21	721 17.0 / 2.73	759 18.2 / 3.25	796 19.3 / 3.78	831 21 / 4.32	865 21 / 4.86			
NCA30FA	9000	669 17.4 / 1.88	707 18.9 / 2.33	745 20 / 2.86	782 19.0 / 3.42	818 22 / 4.00	852 23 / 4.59					
NCA30FA	10000	743 20 / 2.58	777 22 / 3.07	812 23 / 3.64	846 24 / 4.25	879 25 / 4.88						
NCA30FA	11000	817 26 / 3.44	848 26 / 3.97	880 27 / 4.57								
NCA30FA	12000	891 29 / 4.46										
NCA36FA	8000		351 9.5 / 0.88	403 11.7 / 1.39	452 14.1 / 1.94	496 16.4 / 2.53	539 18.7 / 3.18	581 21 / 3.87				
NCA36FA	10000	370 11.3 / 0.87	414 13.4 / 1.40	457 15.1 / 1.99	499 17.1 / 2.64	538 19.2 / 3.31	576 21 / 4.02	612 24 / 4.76	646 26 / 5.54	680 29 / 6.36	713 32 / 7.22	
NCA36FA	12000	444 15.7 / 1.50	481 17.7 / 2.12	517 19.4 / 2.81	553 21 / 3.54	588 23 / 4.30	621 25 / 5.10	654 27 / 5.93	685 30 / 6.78			
NCA36FA	14000	518 21 / 2.38	550 23 / 3.10	581 25 / 3.87	612 26 / 4.69	642 28 / 5.54	672 30 / 6.43	702 32 / 7.34				
NCA36FA	16000	592 27 / 3.55	620 29 / 4.37	647 31 / 5.23	674 33 / 6.13	701 34 / 7.07						
NCA36FA	18000	666 33 / 5.06	691 36 / 5.97	715 38 / 6.92								
NCA36FA	20000	740 41 / 6.94										

Performance shown is for installation Type A; Free Inlet, Free Outlet. Power Rating (BHP) does not include Drive Losses. Performance Ratings do not include the effects of appurtenances in the air stream. The Sound Ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standards 301. Values shown are for installation Type A; Free inlet fan sone levels. The AMCA Certified Ratings Sound Seal applies to Sone Ratings only.

NCA-HPFA Belt Drive-High Pressure

Centrifugal Upblast Fans





Features & Benefits

- Complete range of motors available to meet specific application needs
- Heavy duty construction, durable and weather resistant
- Non-overloading backward inclined wheels, blades and inlets fabricated from 3003-H14 aluminum
- Wall mount applications; units up to 24" nominal wheel can be wall mounted
- Forced fresh air through the motor compartment cools motor and ensures long motor life
- Quick release latches allow for easy access to motor compartment
- Variable pitch motor pulley allows for field adjustment and system balancing
- High efficiency combined with low tip speeds result in quiet operation
- External disconnect switch
- Fully welded, leak-proof grease drain
- Vibration isolation

Options

- Gravity Damper (UL 705 only)
- Motorized Damper (UL 705 only)
- Wall Mount Sleeve
- Bird Screen (UL 705 only)
- Grease Collection Box
- Roof Curb (vented & non vented)
- Base Hinging Kit or Hinged Sub Base (for NFPA96 compliance)

Certifications

CaptiveAire® certifies that Models NCA14HPFA thru NCA30HPFA shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests & procedures performed in accordance with AMCA Publication 211 and Publication 311, and comply with the requirements of the AMCA Certified Ratings Program.

Models NCA14HPFA thru NCA30HPFA are ETL Listed and comply with UL705 (electrical) and UL762 Standards and CSA Std. C22.2, No. 113.

Measurements

MODEL	HT	W	B	C	D	E	F	R	RO	Weight (lbs)	Damper (lbs)
NCA14HPFA	30 1/2	33 3/4	2	24 3/4	23	20	23	14 7/8	20	140	19
NCA16HPFA	33 3/4	39 3/8	2	28	26 1/2	20	23 1/2	16 1/2	24	190	23
NCA18HPFA	33 3/8	38 7/8	2	28	26 1/2	20	29 1/2	18	24	195	23
NCA24HPFA	37 1/2	43 3/8	2	33	31 1/2	20	30 5/8	23 7/8	28	270	27
NCA30HPFA	40	52 3/4	2	40	38 1/2	20	33 1/2	24	36	410	35
NCA36HPFA	45 9/16	63 7/16	2	44	42 1/2	20	43 7/16	25 1/4	40	470	

Motor Frame

Model	Largest Frame
NCA8HPFA	56
NCA10HPFA	56
NCA14HPFA	145T
NCA16HPFA	145T
NCA18HPFA	145T
NCA24HPFA	182T
NCA30HPFA	182T
NCA36HPFA	213T

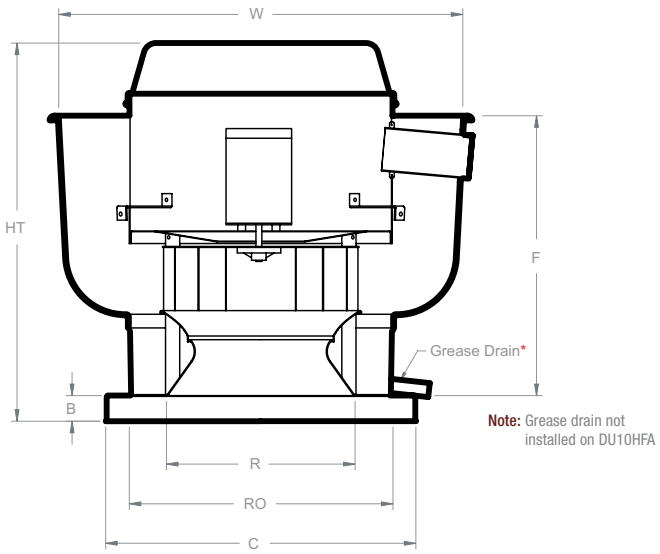
BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		0.00" sp	0.25" sp	0.50" sp	0.75" sp	1.00" sp	1.25" sp	1.50" sp	1.75" sp	2.00" sp	2.25" sp	2.50" sp	3.00" sp	3.50" sp	4.00" sp
MODEL	CFM	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
NCA14HPFA	1400	902 6.3 / 0.09		1132 9.6 / 0.24		1335 13.3 / 0.41		1523 12.7 / 0.60		1697 15.4 / 0.81					
NCA14HPFA	1600	1030 8.4 / 0.14		1236 12.0 / 0.30		1418 13.0 / 0.48		1590 13.5 / 0.69		1752 15.1 / 0.91					
NCA14HPFA	1800	1159 10.9 / 0.20		1345 14.7 / 0.37		1511 14.4 / 0.57		1670 14.4 / 0.79							
NCA14HPFA	2000	1288 13.9 / 0.27		1458 15.3 / 0.46		1610 15.5 / 0.68		1756 16.1 / 0.91							
NCA14HPFA	2200	1417 14.7 / 0.36		1574 16.2 / 0.57		1715 16.7 / 0.80									
NCA14HPFA	2400	1545 17.5 / 0.47		1688 18.0 / 0.69		1822 18.7 / 0.94									
NCA14HPFA	2600	1674 19.6 / 0.60		1809 20 / 0.84											
NCA14HPFA	2800	1802 22 / 0.75													
NCA14HPFA	3000	1932 24 / 0.92													
NCA16HPFA	2000	715 6.6 / 0.12	808 7.4 / 0.21	901 8.2 / 0.32	990 9.0 / 0.43	1074 9.9 / 0.55	1154 10.9 / 0.68	1231 12.0 / 0.81	1304 12.1 / 0.94	1375 12.6 / 1.09					
NCA16HPFA	2250	804 8.1 / 0.18	886 8.8 / 0.27	970 9.9 / 0.39	1051 10.5 / 0.51	1129 11.3 / 0.64	1203 12.2 / 0.77	1276 12.0 / 0.91	1344 12.4 / 1.06						
NCA16HPFA	2500	894 9.8 / 0.24	967 10.4 / 0.35	1043 11.6 / 0.47	1117 12.3 / 0.60	1189 13.0 / 0.74	1259 12.0 / 0.88	1326 12.3 / 1.03	1391 12.7 / 1.19						
NCA16HPFA	2750	983 11.6 / 0.32	1049 12.1 / 0.44	1118 13.3 / 0.57	1186 14.4 / 0.71	1253 15.0 / 0.86	1318 14.2 / 1.01	1381 13.7 / 1.17							
NCA16HPFA	3000	1073 13.7 / 0.42	1133 14.1 / 0.54	1196 15.1 / 0.68	1259 16.2 / 0.83	1321 14.8 / 0.99	1382 14.5 / 1.15								
NCA16HPFA	3250	1162 15.8 / 0.53	1217 16.2 / 0.66	1276 16.4 / 0.82	1334 16.4 / 0.97	1391 15.9 / 1.14									
NCA18HPFA	3000	834 11.4 / 0.32	915 12.9 / 0.48	985 14.0 / 0.65	1051 15.0 / 0.82	1113 16.1 / 1.00	1173 16.0 / 1.19	1232 16.4 / 1.39	1288 17.1 / 1.60	1343 16.6 / 1.82	1397 18.6 / 2.04				
NCA18HPFA	3500	973 15.3 / 0.51	1044 16.9 / 0.70	1107 18.3 / 0.89	1166 17.2 / 1.08	1221 17.7 / 1.29	1276 17.8 / 1.50	1328 17.8 / 1.72	1379 19.6 / 1.94						
NCA18HPFA	4000	1112 19.8 / 0.76	1175 19.8 / 0.97	1232 20 / 1.19	1285 19.8 / 1.41	1336 19.5 / 1.64	1385 22 / 1.87								
NCA18HPFA	4500	1251 20 / 1.09	1307 21 / 1.32	1359 22 / 1.56											
NCA18HPFA	5000	1390 24 / 1.49													
NCA24HPFA	4000	631 10.8 / 0.29		751 13.2 / 0.65		864 15.9 / 1.08		974 21 / 1.55		1080 20 / 2.07		1180 21 / 2.64	1275 22 / 3.24	1365 24 / 3.88	1451 27 / 4.55
NCA24HPFA	5000	789 16.3 / 0.56		886 17.7 / 1.01		978 21 / 1.50		1069 21 / 2.03		1158 21 / 2.61		1245 22 / 3.23	1329 23 / 3.88	1411 26 / 4.57	
NCA24HPFA	6000	947 19.8 / 0.97		1029 22 / 1.49		1107 24 / 2.06		1183 24 / 2.66		1259 25 / 3.30		1333 26 / 3.98	1407 25 / 4.68		
NCA24HPFA	7000	1104 24 / 1.53		1175 27 / 2.14		1243 27 / 2.78		1310 29 / 3.46		1375 28 / 4.17		1440 29 / 4.91			
NCA24HPFA	8000	1262 29 / 2.29		1325 31 / 2.98		1385 31 / 3.70		1444 33 / 4.45							
NCA24HPFA	9000	1420 34 / 3.26		1476 39 / 4.03		1530 38 / 4.83									
NCA24HPFA	10000	1578 44 / 4.47													
NCA30HPFA	6000	491 10.8 / 0.47		581 11.3 / 1.02		662 12.6 / 1.60		741 14.4 / 2.26		817 15.9 / 2.95		887 16.8 / 3.67		953 19.5 / 4.39	
NCA30HPFA	7000	573 12.9 / 0.74		652 14.8 / 1.38		722 15.5 / 2.04		792 15.4 / 2.75		859 16.4 / 3.52		925 18.4 / 4.32			
NCA30HPFA	8000	655 16.0 / 1.11		725 17.2 / 1.84		788 17.3 / 2.57		849 18.5 / 3.35		910 17.7 / 4.18					
NCA30HPFA	9000	737 19.0 / 1.58		800 19.6 / 2.40		857 21 / 3.22		912 20 / 4.06		966 21 / 4.95					
NCA30HPFA	10000	819 22 / 2.17		877 23 / 3.09		929 23 / 3.99		979 23 / 4.91							
NCA30HPFA	11000	901 24 / 2.88		954 27 / 3.90		1002 27 / 4.89									
NCA30HPFA	12000	983 29 / 3.74		1032 33 / 4.86											
NCA30HPFA	13000	1065 36 / 4.76													
NCA36HPFA	9000	431 11.9 / 0.66		506 14.0 / 1.48		578 16.2 / 2.42		648 17.3 / 3.44		717 19.0 / 4.53		783 21 / 5.71			
NCA36HPFA	11000	526 16.9 / 1.20		589 17.5 / 2.18		649 18.1 / 3.26		708 20 / 4.42		765 20 / 5.66		821 22 / 6.95			
NCA36HPFA	13000	622 21 / 1.97		675 23 / 3.13		727 23 / 4.36		777 23 / 5.66		827 25 / 7.03					
NCA36HPFA	15000	718 25 / 3.03		763 27 / 4.35		809 28 / 5.74		853 29 / 7.19							
NCA36HPFA	17000	813 32 / 4.41		854 32 / 5.90		894 33 / 7.44									

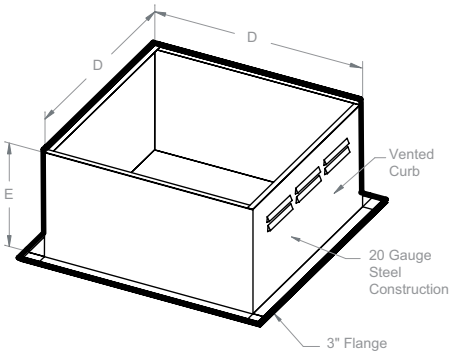
Performance shown is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field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

DU-HFA Direct Drive

Centrifugal Upblast Fans



Note: Grease drain not installed on DU10HFA



Features & Benefits

- Completely enclosed drive compartment protects motor from airborne contaminants
- Forced fresh air through the motor compartment cools motor and ensures long motor life
- Variable speed control
- Non-overloading backward inclined wheels, blades and inlets fabricated from 3003-H14 aluminum
- All sizes can be wall mounted
- Quick release latches allow for easy access to motor compartment
- External disconnect switch
- Fully welded leak proof grease drain

Options

- ECM Motor
- Gravity Damper (UL705 only)
- Motorized Damper (UL705 only)
- Wall Mount Sleeve
- Roof Curb (Vented and Non-vented)
- Grease Collection Box (size 12 and larger)
- Bird Screen (UL705 only)
- Base Hinging Kit or Hinged Sub Base (for NFPA96 compliance)

Certifications

CaptiveAire certifies that Model DU10HFA thru DU85HFA 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 DU10HFA thru DU85HFA are ETL Listed under file number 3049729-002 and comply with UL705 (electrical) Standards and CSA Std C22.2, No 113.

Models DU12HFA thru DU85HFA are ETL Listed under file number 3049729-001 and comply with UL762 Standards.

Measurements

MODEL	HT	W	B	C	D	E	F	R	RO	Weight (lbs)	Damper (lbs)
DU10HFA	14 1/2	17 3/4	2	19	17 1/2	12	9 1/2	8 1/8	13	30	12
DU12HFA	18	22	2	19	17 1/2	12	14 12	10 5/8	13	40	12
DU30HFA	25 1/4	25 1/2	2	21	19 1/2	12	18 1/2	12 1/8	16	50	15
DU33HFA	25 1/4	25 1/2	2	21	19 1/2	12	18 1/2	12 1/8	16	50	15
DU50HFA	27 1/4	28 7/8	2	21	19 1/2	12	21 1/2	13 1/4	16	55	15
DU85HFA	30 1/2	31 7/8	2	24 3/4	23	12	23	14 7/8	20	60	19

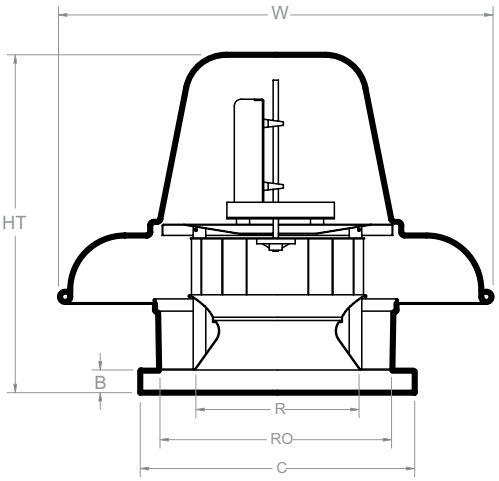
BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

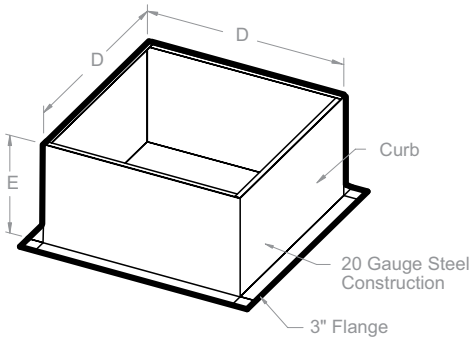
Performance				0.00"	0.125"	0.25"	0.375"	0.50"	0.625"	0.75"	0.825"	1.00"	1.25"	1.50"	1.75"	2.00"
MODEL	RPM	Tip Speed	Motor HP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP
DU10HFA	1100	2592	0.08	369 3.1 / 0.03	304 3.1 / 0.03	226 3.1 / 0.03	112 3.1 / 0.03									
DU10HFA	1200	2827	0.08	402 4.0 / 0.03	343 4.0 / 0.03	277 4.0 / 0.03	192 4.0 / 0.03	45 4.0 / 0.02								
DU10HFA	1300	3063	0.08	436 4.9 / 0.04	382 4.9 / 0.04	322 4.9 / 0.04	252 4.9 / 0.04	160 4.9 / 0.04								
DU10HFA	1400	3299	0.08	469 5.9 / 0.05	419 5.9 / 0.05	365 5.9 / 0.05	304 5.9 / 0.05	232 5.9 / 0.05	124 5.9 / 0.05							
DU10HFA	1500	3534	0.08	503 7.1 / 0.07	457 7.1 / 0.07	407 7.1 / 0.07	353 7.1 / 0.07	290 7.1 / 0.07	215 7.1 / 0.07	99 7.1 / 0.07						
DU10HFA	1600	3770	0.08	537 7.8 / 0.08	493 7.8 / 0.08	447 7.8 / 0.08	398 7.8 / 0.08	343 7.8 / 0.08	280 7.8 / 0.08	204 7.8 / 0.08	84 7.8 / 0.08					
DU12HFA	1125	3093	0.18	530 4.8 / 0.06	439 4.8 / 0.06	322 4.8 / 0.06	187 4.8 / 0.06									
DU12HFA	1225	3367	0.18	577 5.8 / 0.08	495 5.8 / 0.08	394 5.8 / 0.08	271 5.8 / 0.08	148 5.8 / 0.08								
DU12HFA	1325	3642	0.18	624 6.9 / 0.10	549 6.9 / 0.10	461 6.9 / 0.10	352 6.9 / 0.10	238 6.9 / 0.10	119 6.9 / 0.10							
DU12HFA	1425	3917	0.18	671 8.2 / 0.12	602 8.2 / 0.12	524 8.2 / 0.12	429 8.2 / 0.12	322 8.2 / 0.12	217 8.2 / 0.12	93 8.2 / 0.09						
DU12HFA	1525	4192	0.18	718 9.4 / 0.15	654 9.4 / 0.15	584 9.4 / 0.15	501 9.4 / 0.15	402 9.4 / 0.15	304 9.4 / 0.15	206 9.4 / 0.15	78 9.4 / 0.08					
DU30HFA	825	2538	0.25	640 3.9 / 0.03	520 3.9 / 0.03	355 3.9 / 0.03										
DU30HFA	925	2845	0.25	717 4.8 / 0.05	612 4.8 / 0.05	482 4.8 / 0.05	319 4.8 / 0.03									
DU30HFA	1025	3153	0.25	795 5.8 / 0.06	700 5.8 / 0.06	593 5.8 / 0.06	454 5.8 / 0.06	307 5.8 / 0.04								
DU30HFA	1125	3461	0.25	873 6.8 / 0.08	787 6.8 / 0.08	695 6.8 / 0.08	581 6.8 / 0.08	447 6.8 / 0.08	312 6.8 / 0.04							
DU30HFA	1225	3768	0.25	950 8.0 / 0.11	872 8.0 / 0.11	789 8.0 / 0.11	694 8.0 / 0.11	578 8.0 / 0.11	455 8.0 / 0.09	331 8.0 / 0.05						
DU30HFA	1325	4076	0.25	1028 9.2 / 0.14	955 9.2 / 0.14	880 9.2 / 0.14	798 9.2 / 0.14	703 9.2 / 0.14	589 9.2 / 0.14	475 9.2 / 0.11						
DU30HFA	1425	4384	0.25	1105 10.7 / 0.17	1038 10.7 / 0.17	969 10.7 / 0.17	897 10.7 / 0.17	812 10.7 / 0.17	716 10.7 / 0.17	610 10.7 / 0.17		398 10.7 / 0.08				
DU30HFA	1525	4691	0.25	1183 12.2 / 0.21	1120 12.2 / 0.21	1056 12.2 / 0.21	990 12.2 / 0.21	916 12.2 / 0.21	834 12.2 / 0.21	739 12.2 / 0.21		541 12.2 / 0.16	343 12.2 / 0.06			
DU50HFA	600			455 1.3 / 0.01		719 4.2 / 0.04		924 6.4 / 0.09		1101 8.7 / 0.15		1255 11.1 / 0.22	1392 13.5 / 0.30	1519 15.9 / 0.39	1635 17.5 / 0.48	
DU50HFA	900			682 3.7 / 0.04		875 5.8 / 0.07		1042 7.9 / 0.13		1189 10.0 / 0.19		1324 12.3 / 0.26	1449 14.6 / 0.34	1568 16.6 / 0.43		
DU50HFA	1200			908 6.2 / 0.08		1060 8.1 / 0.13		1198 10.2 / 0.19		1323 12.3 / 0.26		1439 14.4 / 0.33	1550 16.4 / 0.41	1655 17.8 / 0.50		
DU50HFA	1500			1136 9.2 / 0.16		1258 11.2 / 0.22		1375 13.2 / 0.29		1484 15.4 / 0.36		1586 16.9 / 0.44				
DU50HFA	1800			1363 13.0 / 0.28		1466 15.0 / 0.35		1565 16.6 / 0.43								
DU50HFA	2100			1590 16.9 / 0.45												
DU85HFA	800			362 1.0 / 0.01		576 3.6 / 0.04		780 6.4 / 0.09		940 8.8 / 0.16		1074 10.9 / 0.24				
DU85HFA	1000			452 2.0 / 0.02		651 4.6 / 0.05		813 7.0 / 0.10		959 9.0 / 0.17		1092 11.2 / 0.25	1211 13.3 / 0.34	1318 15.4 / 0.44		
DU85HFA	1200			542 3.1 / 0.03		716 5.5 / 0.07		860 7.6 / 0.12		991 9.5 / 0.19		1113 11.5 / 0.26	1228 13.6 / 0.36	1335 15.8 / 0.46	1434 17.9 / 0.56	1525 20 / 0.68
DU85HFA	1400			632 4.3 / 0.05		785 6.5 / 0.09		917 8.4 / 0.15		1036 10.2 / 0.21		1147 12.1 / 0.29	1253 14.1 / 0.38	1354 16.2 / 0.48	1451 18.3 / 0.59	1542 20 / 0.70
DU85HFA	1600			723 5.6 / 0.07		859 7.6 / 0.12		980 9.3 / 0.18		1089 11.1 / 0.25		1152 12.2 / 0.29	1289 14.8 / 0.41	1383 16.8 / 0.51	1475 18.8 / 0.61	1561 21 / 0.73
DU85HFA	1800			813 7.0 / 0.10		935 8.7 / 0.16		1048 10.5 / 0.22		1149 12.2 / 0.29		1244 13.9 / 0.37	1334 15.7 / 0.46	1422 17.7 / 0.55	1508 19.5 / 0.66	
DU85HFA	2000			903 8.2 / 0.14		1013 9.8 / 0.20		1118 11.6 / 0.27		1214 13.4 / 0.34		1303 15.0 / 0.42	1388 16.9 / 0.51	1470 18.7 / 0.61	1548 20 / 0.71	
DU85HFA	2200			993 9.5 / 0.19		1093 11.2 / 0.25		1191 12.9 / 0.32		1281 14.6 / 0.40		1366 16.5 / 0.49	1446 18.1 / 0.58	1522 19.9 / 0.68		
DU85HFA	2400			1084 11.0 / 0.24		1175 12.6 / 0.31		1266 14.3 / 0.39		1352 16.1 / 0.47		1432 17.8 / 0.56	1508 19.5 / 0.66			
DU85HFA	2600			1174 12.6 / 0.31		1258 14.2 / 0.38		1343 16.0 / 0.46		1424 17.7 / 0.55		1500 19.4 / 0.65	1573 21 / 0.75			
DU85HFA	2800			1264 14.3 / 0.39		1342 15.9 / 0.46		1421 17.6 / 0.55		1498 19.3 / 0.64		1570 21 / 0.74				
DU85HFA	3000			1354 16.2 / 0.48		1427 17.7 / 0.56		1493 19.2 / 0.64		1574 21 / 0.75						
DU85HFA	3200			1444 18.1 / 0.58		1512 19.7 / 0.66										
DU85HFA	3400			1534 20 / 0.69												

DU33HFA, DU50HFA and DU85HFA Performance Data include ECM Motor Option. ECM Motors have RPM range of 300 to 1800.

DD-FA Belt Drive

Centrifugal Downblast Exhaust Fans





Features & Benefits

- Complete range of motors available to meet specific application needs
- Heavy duty construction, durable and weather resistant
- Non-overloading backward inclined wheels, blades and inlets fabricated from 3003-H14 aluminum
- Wall mount applications; units up to 24" nominal wheel can be wall mounted
- Forced fresh air through the motor compartment cools motor and ensures long motor life
- Quick release latches allow for easy access to motor compartment
- Standard bird screen
- Variable pitch motor pulley allows for field adjustment and system balancing
- High efficiency combined with low tip speeds result in quiet operation
- Disconnect switch
- Vibration isolation

Options

- Gravity Damper
- Motorized Damper
- Wall Mount Sleeve
- Roof Curb
- ECM Motor

Certifications

CaptiveAire® certifies that Models DD7FA thru DD36FA shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests & procedures performed in accordance with AMCA Publication 211 and Publication 311, and comply with the requirements of the AMCA Certified Ratings Program.

Models DD7FA thru DD36FA are ETL Listed and comply with UL705 (electrical) Standards and CSA Std. C22.2, No. 113.

Measurements

MODEL	HT	W	B	C	D	E	R	RO	Weight (lbs)	Damper (lbs)
DD7FA	25 1/2	26 1/4	2	21	19 1/2	12	12 1/8	16	90	15
DD8FA	25 1/2	26 1/4	2	21	19 1/2	12	12 1/8	16	90	15
DD9FA	25 1/2	26 1/4	2	21	19 1/2	12	12 1/8	16	90	15
DD11FA	25 1/2	26 1/4	2	21	19 1/2	12	12 1/8	16	105	15
DD13FA	27 1/4	29 5/8	2	21	19 1/2	12	13 1/4	16	105	15
DD15FA	30 5/8	33 1/4	2	24 3/4	23	12	14 7/8	20	130	19
DD18FA	32 3/4	38 15/16	2	28	26 1/2	12	16 1/2	24	190	23
DD20FA	32 3/4	38 15/16	2	28	26 1/2	12	18	24	195	23
DD24FA	37 3/4	43 7/16	2	33	31 1/2	12	23 7/8	28	215	27
DD30FA	40	52 13/16	2	40	38 1/2	12	24	36	380	35
DD36FA	45 9/16	63 5/16	2	44	42 1/2	12	25 1/4	40	470	35 1/2

Motor Frame

Model	Largest Frame
DD7FA	56
DD8FA	56
DD9FA	56
DD11FA	56
DD13FA	56
DD15FA	145T
DD18FA	145T
DD20FA	145T
DD24FA	182T
DD30FA	182T
DD36FA	213T

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		0.00"sp	0.125"sp	0.25"sp	0.375"sp	0.50"sp	0.625" sp	0.75" sp	1.00" sp	1.25 sp	1.50" sp	1.75 sp
MODEL	CFM	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
DD7FA	350	693 1.9 / 0.02		975 4.4 / 0.05		1182 6 / 0.09		1362 6.6 / 0.13	1528 9.4 / 0.17	1683 11.1 / 0.22	1823 13.0 / 0.28	
DD7FA	450	891 4.1 / 0.03		1128 5.8 / 0.07		1316 6.5 / 0.12		1475 8.6 / 0.17	1619 10.9 / 0.22	1758 12.7 / 0.27	1891 14.4 / 0.33	
DD7FA	550	1089 6.2 / 0.06		1291 6.7 / 0.11		1463 9.4 / 0.16		1608 11.7 / 0.21	1735 13.3 / 0.27			
DD7FA	650	1287 6.7 / 0.10		1461 9.6 / 0.15		1617 12.2 / 0.21		1757 14.0 / 0.28				
DD7FA	750	1482 10.9 / 0.15		1638 12.6 / 0.22		1781 14.7 / 0.28						
DD7FA	850	1680 13.6 / 0.23		1816 15.5 / 0.29								
DD8FA	400	550 1.1 / 0.01		820 3.2 / 0.04		1028 5.7 / 0.07						
DD8FA	500	687 2.3 / 0.02		916 4.6 / 0.05		1101 6.4 / 0.09		1266 8.1 / 0.13	1425 9.8 / 0.18			
DD8FA	600	824 3.9 / 0.03		1022 6.2 / 0.07		1190 7.5 / 0.11		1339 8.7 / 0.15	1478 10.9 / 0.21	1609 12.7 / 0.27		
DD8FA	700	962 5.8 / 0.05		1133 7.4 / 0.09		1289 8.9 / 0.14		1426 9.8 / 0.19	1552 12.4 / 0.24	1671 13.8 / 0.30		
DD8FA	800	1097 7.3 / 0.07		1250 8.9 / 0.12		1394 10.2 / 0.17		1521 12.9 / 0.23	1639 14.1 / 0.28			
DD8FA	900	1235 9 / 0.10		1370 10.2 / 0.15		1503 12.9 / 0.21		1622 14.6 / 0.27	1734 16.1 / 0.33			
DD8FA	1000	1372 10.3 / 0.14		1495 12.8 / 0.19		1613 14.7 / 0.26		1727 16.3 / 0.32				
DD8FA	1100	1509 13.2 / 0.19		1620 14.8 / 0.24		1730 16.5 / 0.31						
DD8FA	1200	1646 15.3 / 0.24		1747 16.9 / 0.30								
DD9FA	600	793 4.5 / 0.04	910 5.8 / 0.07	1020 7.0 / 0.10	1111 8.4 / 0.13	1193 9.9 / 0.16	1271 11.4 / 0.19	1348 13.1 / 0.22				
DD9FA	700	925 5.9 / 0.06	1023 7.1 / 0.09	1127 8.7 / 0.13	1213 10.3 / 0.16	1292 11.9 / 0.20	1362 13.4 / 0.23					
DD9FA	800	1055 7.5 / 0.10	1141 9.0 / 0.13	1235 10.8 / 0.17	1320 12.5 / 0.21							
DD9FA	900	1187 9.8 / 0.14	1261 11.2 / 0.17	1345 13.1 / 0.2								
DD9FA	1000	1319 12.5 / 0.19										
DD11FA	700	762 2.4 / 0.03		994 3.5 / 0.08		1180 5.1 / 0.14		1349 5.4 / 0.20				
DD11FA	900	979 4.1 / 0.07		1166 5.6 / 0.13		1331 6.3 / 0.20		1475 11.4 / 0.27				
DD11FA	1100	1196 6.6 / 0.12		1350 7.4 / 0.20		1499 12.9 / 0.28						
DD11FA	1300	1413 9.4 / 0.20		1542 14.6 / 0.29								
DD11FA	1500	1630 17.1 / 0.31										
DD13FA	1100	680 4.3 / 0.04		847 5.5 / 0.10		994 7.4 / 0.16		1143 10.4 / 0.23				
DD13FA	1300	803 5.7 / 0.07		950 7.4 / 0.13		1075 9.4 / 0.20		1200 12.1 / 0.28	1327 11.2 / 0.36			
DD13FA	1500	926 7.7 / 0.10		1058 9.9 / 0.18		1170 11.9 / 0.25		1277 12.1 / 0.34	1385 12 / 0.43			
DD13FA	1700	1049 10.2 / 0.15		1169 12.8 / 0.23		1272 13.4 / 0.32		1367 13.2 / 0.41	1462 13.7 / 0.05			
DD13FA	1900	1173 13.3 / 0.21		1282 14 / 0.30		1377 14.3 / 0.40		1464 15.7 / 0.50				
DD13FA	2100	1296 13.9 / 0.28		1396 14.9 / 0.38		1484 15.9 / 0.49						
DD13FA	2300	1420 16.3 / 0.37		1512 16.8 / 0.48								
DD13FA	2500	1543 18.2 / 0.48										
DD15FA	1600	619 3.8 / 0.06		765 5.4 / 0.13		901 6.9 / 0.22		1028 7.1 / 0.32	1146 12 / 0.42	1257 12.4 / 0.54	1363 12.9 / 0.67	1465 13.7 / 0.80
DD15FA	2000	773 6.4 / 0.12		892 8 / 0.21		1006 9.2 / 0.31		1114 10.4 / 0.42	1217 11.7 / 0.53	1315 13.1 / 0.66	1409 13.4 / 0.79	1500 14 / 0.93
DD15FA	2400	928 9.5 / 0.20		1027 9.9 / 0.30		1124 12.3 / 0.42		1218 12.9 / 0.55	1308 15 / 0.67	1395 15.5 / 0.81	1480 15.2 / 0.95	
DD15FA	2800	1082 10.3 / 0.32		1168 13.5 / 0.44		1252 15.7 / 0.57		1334 16.5 / 0.71	1412 17.4 / 0.85	1492 17.9 / 1.00		
DD15FA	3200	1237 15.1 / 0.47		1312 17 / 0.61		1386 18 / 0.75		1459 18.8 / 0.91				
DD15FA	3600	1392 18.6 / 0.68		1458 19.5 / 0.82		1524 20 / 0.99						
DD15FA	4000	1546 21 / 0.93										

DD-FA Performance

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

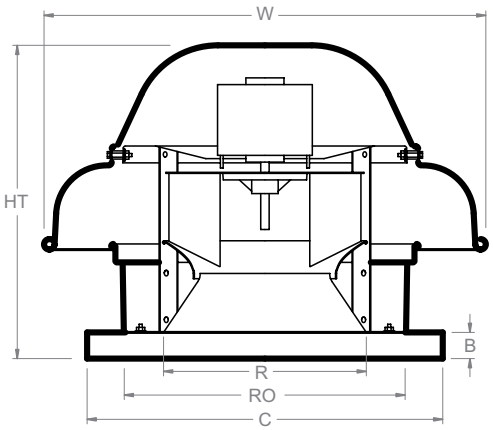
Performance		0.00"sp	0.25"sp	0.50"sp	0.75" sp	1.00" sp	1.25 sp	1.50" sp	1.75 sp	2.00" sp
MODEL	CFM	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
DD18FA	1600	408 2.5 / 0.05	543 3.7 / 0.13	670 5.9 / 0.23						
DD18FA	2000	510 4.1 / 0.09	622 5.6 / 0.19	722 7.4 / 0.29	825 9.3 / 0.42	930 11.1 / 0.58				
DD18FA	2400	612 6.2 / 0.15	709 8.1 / 0.27	793 9.3 / 0.39	877 10.4 / 0.52	962 11.7 / 0.68	1049 12 / 0.85	1137 13.8 / 1.06		
DD18FA	2800	714 9.3 / 0.24	800 10.6 / 0.37	874 11.2 / 0.51	945 12 / 0.66	1017 12 / 0.82	1089 12.8 / 0.99	1163 14.3 / 1.18	1238 15.6 / 1.40	1315 17 / 1.64
DD18FA	3200	816 11.9 / 0.36	893 12.7 / 0.51	960 13.4 / 0.67	1023 13.1 / 0.83	1085 12.7 / 1.00	1147 14 / 1.18	1211 15.8 / 1.37	1275 16.5 / 1.58	1340 17.5 / 1.80
DD18FA	3600	918 14.1 / 0.52	988 14.7 / 0.68	1049 14.6 / 0.86	1106 14.8 / 1.04	1162 16.2 / 1.22	1217 17.4 / 1.41	1273 17.8 / 1.61	1329 18.3 / 1.82	
DD18FA	4000	1020 15.1 / 0.71	1084 16.5 / 0.89	1140 17.1 / 1.08	1193 18.6 / 1.28	1244 19.2 / 1.48	1294 19.6 / 1.69	1344 20 / 1.90		
DD18FA	4400	1122 17.6 / 0.94	1181 19.5 / 1.14	1233 21 / 1.35	1282 21 / 1.57	1330 22 / 1.79				
DD18FA	4800	1224 21 / 1.22	1278 22 / 1.43	1328 23 / 1.66	1374 24 / 1.90					
DD18FA	5200	1326 24 / 1.55	1376 25 / 1.78							
DD18FA	5600	1428 26 / 1.94								
DD20FA	2500	436 3.8 / 0.08	546 5 / 0.20	654 6.4 / 0.33	758 8.3 / 0.49					
DD20FA	3000	523 5.6 / 0.14	614 6.8 / 0.27	707 8.4 / 0.43	796 8.8 / 0.59	883 10.9 / 0.78				
DD20FA	3500	610 7.8 / 0.23	687 9 / 0.38	768 10.4 / 0.55	846 10 / 0.73	922 11.9 / 0.92	997 13.7 / 1.14	1071 14.9 / 1.37		
DD20FA	4000	697 10.4 / 0.34	764 11.6 / 0.51	834 11.6 / 0.69	904 13.7 / 0.89	972 13.2 / 1.11	1039 15.2 / 1.33	1105 15.8 / 1.57	1170 17 / 1.82	
DD20FA	4500	784 12.4 / 0.49	843 13 / 0.67	905 14.8 / 0.87	968 15.8 / 1.09	1029 17 / 1.32	1090 17.1 / 1.56	1149 17.4 / 1.81		
DD20FA	5000	872 14.7 / 0.67	924 16.2 / 0.87	979 17.6 / 1.09	1036 18.2 / 1.33	1092 18.7 / 1.57	1147 19.3 / 1.83			
DD20FA	5500	959 17.4 / 0.89	1006 18.9 / 1.11	1056 19.3 / 1.35	1107 19.9 / 1.60	1158 21 / 1.86				
DD20FA	6000	1046 21 / 1.15	1089 21 / 1.39	1134 21 / 1.65	1181 23 / 1.92					
DD20FA	6500	1133 23 / 1.46	1172 24 / 1.72	1214 25 / 1.99						
DD20FA	7000	1220 27 / 1.82								
DD24FA	3000	317 3.6 / 0.07	434 5.8 / 0.22	542 7.8 / 0.41	641 10.8 / 0.64	734 14.1 / 0.89	819 16.1 / 1.16			
DD24FA	4000	422 6.5 / 0.17	511 8.3 / 0.36	598 9.4 / 0.58	679 12.1 / 0.83	756 14.9 / 1.10	831 16.3 / 1.40	903 17.6 / 1.73	972 19.7 / 2.08	1037 22 / 2.43
DD24FA	5000	527 9.5 / 0.34	597 11.1 / 0.56	670 13.2 / 0.82	739 15.4 / 1.10	805 15.9 / 1.40	868 16.9 / 1.72	930 18.2 / 2.06	990 20 / 2.43	1049 23 / 2.81
DD24FA	6000	633 13.3 / 0.59	690 14.7 / 0.85	751 17.1 / 1.14	811 17.6 / 1.46	869 18 / 1.79	924 18 / 2.14	978 19.9 / 2.51	1031 22 / 2.89	1083 24 / 3.29
DD24FA	7000	738 17.4 / 0.93	786 18.8 / 1.23	838 18.8 / 1.56	891 18.9 / 1.92	942 20 / 2.29	992 21 / 2.67	1040 23 / 3.07	1088 26 / 3.48	1134 27 / 3.91
DD24FA	8000	844 19.6 / 1.39	885 20 / 1.72	930 21 / 2.09	976 23 / 2.48	1022 24 / 2.90	1067 26 / 3.32	1111 28 / 3.76	1154 29 / 4.20	1196 30 / 4.66
DD24FA	9000	949 22 / 1.98	986 24 / 2.35	1025 25 / 2.75	1065 28 / 3.18	1106 30 / 3.63	1147 31 / 4.09	1187 32 / 4.57		
DD24FA	10000	1055 27 / 2.71	1087 30 / 3.12	1122 30 / 3.56	1158 31 / 4.02	1194 33 / 4.51				
DD24FA	11000	1160 33 / 3.61	1189 33 / 4.05	1220 34 / 4.53						
DD24FA	12000	1265 37 / 4.69								
DD30FA	6500	396 7.0 / 0.44	449 8.1 / 0.73	499 9.2 / 1.03	553 9.6 / 1.38	604 11.0 / 1.75	649 12.3 / 2.13	690 13.5 / 2.50	729 14.6 / 2.89	
DD30FA	7500	457 9.4 / 0.67	504 10.6 / 1.01	547 11.0 / 1.34	592 11.0 / 1.71	639 12.0 / 2.12	683 13.3 / 2.55	724 14.5 / 2.98	761 15.5 / 3.41	797 16.4 / 3.85
DD30FA	8500	518 12.2 / 0.97	561 12.8 / 1.37	598 12.5 / 1.73	636 12.6 / 2.12	677 14.1 / 2.55	718 14.3 / 3.02	758 15.4 / 3.50	795 16.3 / 3.99	830 17.6 / 4.48
DD30FA	9500	579 13.3 / 1.36	618 14.8 / 1.81	652 14.3 / 2.21	685 15.3 / 2.63	720 15.6 / 3.08	757 17.0 / 3.57	794 16.3 / 4.08	830 18.6 / 4.62	
DD30FA	10500	640 15.5 / 1.83	676 16.8 / 2.34	707 17.2 / 2.79	737 16.8 / 3.24	768 17.7 / 3.71	800 18.4 / 4.22	833 19.8 / 4.76		
DD30FA	11500	700 17.6 / 2.41	735 18.7 / 2.97	763 19.8 / 3.46	791 18.3 / 3.96	818 21 / 4.46	847 21 / 4.99			
DD30FA	12500	761 19.7 / 3.09	794 21 / 3.71	820 23 / 4.26	846 23 / 4.79					
DD30FA	13500	822 24 / 3.89	853 25 / 4.57							

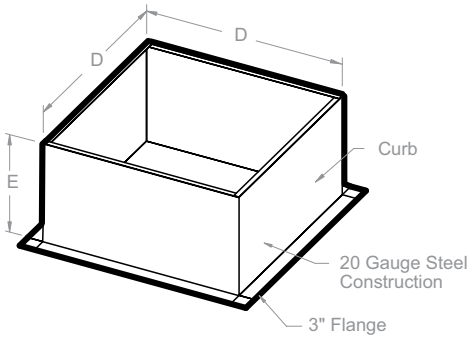
BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		0.00"sp	0.25"sp	0.50"sp	0.75" sp	1.00" sp	1.25 sp	1.50" sp	1.75 sp	2.00" sp
MODEL	CFM	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
DD36FA	9000	307 6.2 / 0.47	359 7.6 / 0.90	409 9.0 / 1.36	461 10.5 / 1.88	513 13.0 / 2.46	563 15.7 / 3.09			
DD36FA	11000	375 9.3 / 0.86	418 10.5 / 1.38	459 11.7 / 1.91	501 12.5 / 2.49	543 14.6 / 3.11	586 17.0 / 3.79	628 19.3 / 4.51	669 22 / 5.27	710 24 / 6.08
DD36FA	13000	443 12.9 / 1.41	480 13.3 / 2.03	515 14.5 / 2.65	550 16.1 / 3.29	585 17.1 / 3.97	621 18.9 / 4.70	657 21 / 5.46	693 23 / 6.26	729 25 / 7.11
DD36FA	15000	511 16.1 / 2.17	544 17.9 / 2.89	574 18.3 / 3.59	604 19.5 / 4.31	634 21 / 5.06	665 22 / 5.84	696 23 / 6.66		
DD36FA	17000	579 20 / 3.16	609 22 / 3.98	636 22 / 4.77	662 23 / 5.58	689 24 / 6.40	715 26 / 7.25			
DD36FA	19000	647 24 / 4.41	674 26 / 5.33	699 27 / 6.22	723 28 / 7.11					
DD36FA	21000	715 29 / 5.95	740 30 / 6.97							

DR-HFA Direct Drive

Centrifugal Downblast Exhaust Fans





Features & Benefits

- Spun aluminum housing for dust-free, weather resistant durability
- Standard bird screen
- Non-overloading backward inclined wheels, blades and inlets fabricated from 3003-H14 aluminum
- All sizes can be wall mounted
- Wire conduit to provide a clear channel for electrical connections
- Disconnect switch
- Variable speed control

Options

- Gravity Damper
- Motorized Damper
- Wall Mount Sleeve
- Roof Curbs
- ECM Motor Option for Models 35, 50 and 85

Certifications

CaptiveAire® certifies that Models DR10HFA thru DR85HFA shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests & procedures performed in accordance with AMCA Publication 211 and Publication 311, and comply with the requirements of the AMCA Certified Ratings Program.

Models DR10HFA thru DR85HFA are ETL Listed and comply with UL 705 (electrical) Standards and CSA Std. C22.2, No. 113.

Measurements

MODEL	HT	W	B	C	D	E	R	RO	Weight (lbs)	Damper (lbs)
DR10HFA	14 1/2	20 3/4	2	19	17 1/2	12	8 1/8	13	30	12
DR12HFA	16 1/4	23 3/4	2	19	17 1/2	12	10 5/8	13	35	12
DR30HFA	19 1/8	26 1/4	2	21	19 1/2	12	12 1/8	16	45	15
DR33HFA	19 1/8	26 1/4	2	21	19 1/2	12	12 1/8	16	45	15
DR50HFA	21 3/4	29 3/4	2	21	19 1/2	12	13 1/4	16	50	15
DR85HFA	23 3/8	33 1/4	2	24 3/4	23	12	14 7/8	20	60	19

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance				0.00"sp	0.125"sp	0.25"sp	0.375"sp	0.50"sp	0.625" sp	0.75" sp	0.875" sp	1.00" sp	1.125" sp	1.25" sp	1.375" sp	1.50" sp	1.625" sp
MODEL	RPM	Tip Speed	Motor HP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP
DR10HF	1000	2356	0.07	338 3.1 / 0.02	259 3.1 / 0.02	166 3.1 / 0.02											
DR10HFA	1100	2592	0.08	371 3.7 / 0.02	300 3.7 / 0.02	226 3.7 / 0.02	111 3.7 / 0.02										
DR10HFA	1200	2827	0.08	405 4.4 / 0.03	339 4.4 / 0.03	275 4.4 / 0.03	188 4.4 / 0.03										
DR10HFA	1300	3063	0.08	439 5.2 / 0.04	378 5.2 / 0.04	319 5.2 / 0.04	250 5.2 / 0.04	155 5.2 / 0.04									
DR10HFA	1400	3299	0.08	473 6 / 0.05	416 6 / 0.05	361 6 / 0.05	303 6 / 0.05	227 6 / 0.05	122 6 / 0.05								
DR10HFA	1500	3534	0.08	507 7.2 / 0.06	453 7.2 / 0.06	402 7.2 / 0.06	351 7.2 / 0.06	288 7.2 / 0.06	211 7.2 / 0.06	89 7.2 / 0.06							
DR10HFA	1600	3770	0.08	541 8 / 0.07	490 8 / 0.07	442 8 / 0.07	394 8 / 0.07	342 8 / 0.07	275 8 / 0.07	197 8 / 0.07	64 8 / 0.03						
DR12HFA	1125	3093	0.18	567 6.1 / 0.06	460 6.1 / 0.06	345 6.1 / 0.06	218 6.1 / 0.06	68 6.1 / 0.03									
DR12HFA	1225	3367	0.18	617 7.3 / 0.08	519 7.3 / 0.08	417 7.3 / 0.08	304 7.3 / 0.08	186 7.3 / 0.08									
DR12HFA	1325	3642	0.18	667 8.6 / 0.10	577 8.6 / 0.10	484 8.6 / 0.10	383 8.6 / 0.10	274 8.6 / 0.10	170 8.6 / 0.10								
DR12HFA	1425	3917	0.18	718 10.0 / 0.12	634 10.0 / 0.12	548 10.0 / 0.12	457 10.0 / 0.12	360 10.0 / 0.12	258 10.0 / 0.12	163 10.0 / 0.12							
DR12HFA	1525	4192	0.18	768 11.2 / 0.15	690 11.2 / 0.15	611 11.2 / 0.15	528 11.2 / 0.15	439 11.2 / 0.15	344 11.2 / 0.15	250 11.2 / 0.15	163 11.2 / 0.15						
DR30HFA	825	2538	0.25	715 3.6 / 0.03	618 3.6 / 0.03	494 3.6 / 0.03											
DR30HFA	925	2845	0.25	802 4.5 / 0.05	717 4.5 / 0.05	616 4.5 / 0.05	487 4.5 / 0.05										
DR30HFA	1025	3153	0.25	888 5.5 / 0.06	813 5.5 / 0.06	729 5.5 / 0.06	624 5.5 / 0.06	483 5.5 / 0.06									
DR30HFA	1125	3461	0.25	975 6.6 / 0.08	907 6.6 / 0.08	832 6.6 / 0.08	745 6.6 / 0.08	643 6.6 / 0.08	501 6.6 / 0.08								
DR30HFA	1225	3768	0.25	1062 7.7 / 0.11	999 7.7 / 0.11	932 7.7 / 0.11	861 7.7 / 0.11	771 7.7 / 0.11	673 7.7 / 0.11	535 7.7 / 0.11							
DR30HFA	1325	4076	0.25	1148 9.0 / 0.14	1091 9.0 / 0.14	1031 9.0 / 0.14	965 9.0 / 0.14	891 9.0 / 0.14	808 9.0 / 0.14	714 9.0 / 0.14							
DR30HFA	1425	4384	0.25	1235 10.4 / 0.17	1182 10.4 / 0.17	1127 10.4 / 0.17	1067 10.4 / 0.17	1005 10.4 / 0.17	930 10.4 / 0.17	851 10.4 / 0.17	638 10.4 / 0.17						
DR30HFA	1525	4691	0.25	1322 11.9 / 0.21	1272 11.9 / 0.21	1221 11.9 / 0.21	1167 11.9 / 0.21	1109 11.9 / 0.21	1048 11.9 / 0.21	975 11.9 / 0.21	818 11.9 / 0.21						
DR30HFA	1625	4999	0.25	1409 13.4 / 0.25	1362 13.4 / 0.25	1314 13.4 / 0.25	1265 13.4 / 0.25	1211 13.4 / 0.25	1157 13.4 / 0.25	1094 13.4 / 0.25	955 13.4 / 0.25	773 13.4 / 0.25					
DR33HFA	500			642 1.9 / 0.02	769 3.1 / 0.03	879 4.1 / 0.05	980 5.0 / 0.06	1073 6.0 / 0.08	1160 7.0 / 0.11								
DR33HFA	600			769 3.1 / 0.03	884 4.2 / 0.05	974 5.0 / 0.06	1066 5.9 / 0.08	1152 6.9 / 0.10	1230 7.9 / 0.13	1304 8.8 / 0.15	1379 9.8 / 0.18						
DR33HFA	700			896 4.3 / 0.05	1001 5.2 / 0.07	1080 6.1 / 0.09	1159 7.0 / 0.11	1237 7.9 / 0.13	1311 8.8 / 0.15	1381 9.8 / 0.18	1449 10.8 / 0.21	1512 11.8 / 0.23	1577 12.7 / 0.26	1639 13.8 / 0.30			
DR33HFA	800			1024 5.5 / 0.07	1122 6.6 / 0.10	1192 7.4 / 0.11	1262 8.2 / 0.14	1331 9.1 / 0.16	1399 10.1 / 0.18	1465 11.1 / 0.21	1530 12.0 / 0.24	1590 13.0 / 0.27	1646 13.9 / 0.30	1702 14.8 / 0.33			
DR33HFA	900			1152 6.9 / 0.10	1245 8.0 / 0.13	1310 8.8 / 0.15	1370 9.7 / 0.17	1431 10.6 / 0.20	1493 11.5 / 0.22	1554 12.4 / 0.25	1613 13.4 / 0.28	1673 14.4 / 0.32					
DR33HFA	1000			1279 8.5 / 0.14	1368 9.7 / 0.17	1429 10.5 / 0.20	1484 11.3 / 0.22	1538 12.1 / 0.25	1592 13.0 / 0.27	1647 13.9 / 0.30	1704 14.9 / 0.33						
DR33HFA	1100			1407 10.2 / 0.19	1493 11.5 / 0.22	1549 12.3 / 0.25	1601 13.2 / 0.28	1652 14.0 / 0.30	1700 14.8 / 0.33								
DR33HFA	1200			1535 12.1 / 0.24	1617 13.4 / 0.29	1671 14.3 / 0.32											
DR33HFA	1300			1662 14.2 / 0.31													
DR50HFA	600			387 0.9 / 0.01	562 2.6 / 0.02	697 4.2 / 0.04	809 5.6 / 0.06	908 6.8 / 0.08	1000 7.8 / 0.11	1089 8.9 / 0.14	1172 10.0 / 0.18	1274 11.7 / 0.23	1342 12.8 / 0.27	1408 14.0 / 0.31	1473 15.3 / 0.36	1536 16.5 / 0.40	
DR50HFA	800			515 2.1 / 0.02	653 3.6 / 0.03	774 5.2 / 0.05	877 6.5 / 0.07	969 7.5 / 0.10	1053 8.5 / 0.13	1130 9.4 / 0.16	1203 10.5 / 0.19	1326 12.6 / 0.26	1389 13.6 / 0.30	1449 14.8 / 0.34	1508 16.0 / 0.38	1565 17.0 / 0.43	1618 18.0 / 0.47
DR50HFA	1000			644 3.5 / 0.03	756 4.9 / 0.05	861 6.3 / 0.07	956 7.3 / 0.10	1043 8.3 / 0.13	1121 9.3 / 0.16	1193 10.4 / 0.19	1263 11.5 / 0.22	1394 13.7 / 0.30	1453 14.9 / 0.34	1509 16.0 / 0.38	1565 17.0 / 0.43	1617 18.0 / 0.47	
DR50HFA	1200			773 5.2 / 0.05	867 6.4 / 0.07	958 7.4 / 0.10	1043 8.3 / 0.13	1124 9.3 / 0.16	1198 10.5 / 0.19	1267 11.6 / 0.23	1332 12.7 / 0.26	1469 15.2 / 0.35	1525 16.3 / 0.39	1580 17.3 / 0.44	1632 18.3 / 0.48		
DR50HFA	1400			901 6.7 / 0.08	982 7.6 / 0.11	1062 8.6 / 0.13	1138 9.5 / 0.16	1211 10.6 / 0.20	1281 11.8 / 0.23	1346 12.9 / 0.27	1410 14.0 / 0.31	1549 16.7 / 0.41	1603 17.7 / 0.46	1655 18.8 / 0.50			
DR50HFA	1600			1030 8.2 / 0.12	1101 9.0 / 0.15	1171 10.0 / 0.18	1239 11.1 / 0.21	1306 12.2 / 0.25	1370 13.4 / 0.29	1432 14.4 / 0.33	1491 15.6 / 0.37	1633 18.3 / 0.48					
DR50HFA	1800			1158 9.8 / 0.17	1222 10.8 / 0.20	1285 11.9 / 0.24	1346 12.9 / 0.27	1407 13.9 / 0.31	1466 15.1 / 0.35	1523 16.2 / 0.39	1579 17.3 / 0.44						
DR50HFA	2000			1287 11.9 / 0.24	1344 12.9 / 0.27	1402 13.9 / 0.31	1457 14.9 / 0.34	1513 16.0 / 0.38	1566 17.1 / 0.43	1619 18.0 / 0.47							

DR-HFA Performance

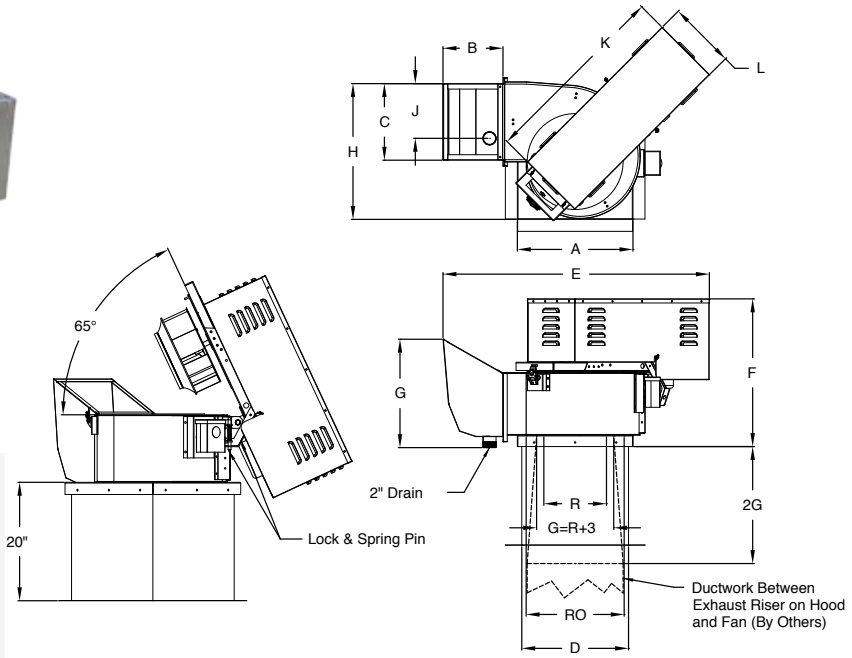
BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance				0.00"sp	0.125"sp	0.25"sp	0.375"sp	0.50"sp	0.625" sp	0.75" sp	0.875" sp	1.00" sp	1.25" sp	1.50" sp	1.75" sp	2.00" sp
MODEL	RPM	Tip Speed	HP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP	CFM Sone/BHP
DR50HFA	2200			1415 14.1 / 0.31	1468 15.2 / 0.35	1519 16.2 / 0.39	1571 17.1 / 0.43	1621 18.1 / 0.47								
DR50HFA	2400			1543 16.6 / 0.41	1592 17.5 / 0.45	1639 18.4 / 0.49										
DR85HFA	900			418 1.2 / 0.01		638 3.8 / 0.05		802 6.0 / 0.10		938 7.9 / 0.16		1059 9.6 / 0.23				
DR85HFA	1100			511 2.3 / 0.03		701 4.6 / 0.07		853 6.7 / 0.12		982 8.5 / 0.18		1096 10.2 / 0.25	1200 11.9 / 0.33	1296 13.7 / 0.42	1419 16.1 / 0.55	1503 17.9 / 0.65
DR85HFA	1300			603 3.4 / 0.04		769 5.6 / 0.09		911 7.5 / 0.14		1033 9.2 / 0.21		1141 10.9 / 0.29	1240 12.7 / 0.37	1332 14.4 / 0.45	1459 16.9 / 0.60	1538 18.6 / 0.70
DR85HFA	1500			696 4.6 / 0.06		843 6.6 / 0.11		973 8.4 / 0.18		1089 10.1 / 0.25		1192 11.8 / 0.32	1288 13.6 / 0.41	1376 15.2 / 0.50	1504 17.9 / 0.65	
DR85HFA	1700			788 5.8 / 0.09		920 7.6 / 0.15		1040 9.3 / 0.22		1149 11.0 / 0.29		1247 12.8 / 0.37	1340 14.5 / 0.46	1425 16.2 / 0.55	1555 18.9 / 0.72	
DR85HFA	1900			881 7.1 / 0.13		1000 8.8 / 0.19		1110 10.5 / 0.26		1213 12.2 / 0.34		1307 13.9 / 0.43	1395 15.6 / 0.52	1476 17.2 / 0.62		
DR85HFA	2100			974 8.4 / 0.18		1082 10.0 / 0.24		1184 11.6 / 0.32		1280 13.4 / 0.40		1369 15.1 / 0.49	1453 16.8 / 0.59	1533 18.5 / 0.69		
DR85HFA	2300			1066 9.7 / 0.23		1166 11.3 / 0.30		1260 13.0 / 0.38		1350 14.7 / 0.47		1435 16.4 / 0.57	1515 18.1 / 0.67			
DR85HFA	2500			1159 11.2 / 0.30		1251 12.8 / 0.38		1339 14.5 / 0.46		1423 16.2 / 0.55		1503 17.9 / 0.65				
DR85HFA	2700			1252 12.9 / 0.38		1337 14.5 / 0.46		1420 16.1 / 0.55		1498 17.7 / 0.64		1574 19.3 / 0.75				
DR85HFA	2900			1344 14.6 / 0.47		1424 16.2 / 0.55		1502 17.8 / 0.65		1576 19.4 / 0.75						
DR85HFA	3100			1437 16.5 / 0.57		1512 18.1 / 0.66										
DR85HFA	3300			1530 18.4 / 0.69												

Performance shown is for installation Type A; Free Inlet, Free Outlet. Power Rating (BHP) does not include Drive Losses. Performance Ratings do not include the effects of appurtenances in the air stream. The Sound Ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standards 301. Values shown are for installation Type A; Free inlet fan sone levels. The AMCA Certified Ratings Sound Seal applies to Sone Ratings only.

CASRE Belt and Direct Drive

Up-Blast Centrifugal Utility Set



Features & Benefits

- Ideal for high temperature, heavy grease applications
- Curb mounted design for easier installation
- Ventilated motor housing for motor, shaft and drive protection
- Adjustable motor plate assembly
- Tilt out wheel - easy access during maintenance, automatic safety lock with manual release
- Non-overloading, welded aluminum backward inclined wheel is statically and dynamically balanced and permits usage on high static pressure applications
- Heavy duty bearings in excess of 200,000 hours of operation
- Motor base and shaft seals provide a double layer of protection to eliminate water leaks into the building and grease build-up on motor
- 2" grease drain fully welded onto discharge elbow
- Lock and retaining pin - keep wheel centered over the inlet
- Belt and Direct Drive Options
- Optional Rain Cap Assembly

Certifications

CaptiveAire certifies that Models CASRE13 through CASRE24 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 CASRE13 through CASRE24 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 CASRE13 through CASRE24 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.

Measurements

MODEL	A	B	C	D	E	F	G	H	J
RE13BD	21	12 1/2	13 7/8	19 1/2	48 1/2	27	19 3/4	24 7/8	10
RE13DD	21	12 1/2	13 7/8	19 1/2	41	28 1/4	19 3/4	24 7/8	10
RE15BD	24 3/4	15 3/8	16	23	53 3/4	28	22 1/8	28 3/4	11
RE15BDHP	24 3/4	15 3/8	16	23	53 3/4	28	22 1/8	28 3/4	11
RE15DD	24 3/4	15 3/8	16	23	46 1/4	29 3/8	22 1/8	28 3/4	11
RE18BD	28	15 3/8	19 1/4	26 1/2	57 1/2	29 1/2	23 3/4	33 1/2	15 1/8
RE18BDHP	28	15 3/8	19 /14	26 1/2	57 1/2	29 1/2	23 3/4	33 1/2	15 1/8
RE18DD	28	15 3/8	19 1/4	26 1/2	50 1/8	30 7/8	23 3/4	33 1/2	15 1/8
RE20BD	28	17	21 1/4	26 1/2	63 7/8	32	25 5/8	35 5/8	16 3/4
RE20BDHP	28	17	21 1/4	26 1/2	63 7/8	32	25 5/8	35 5/8	16 3/4
RE20DD	28	17	21 1/4	26 1/2	55 1/2	32	25 5/8	35 5/8	16 3/4
RE24BD	33	19	25 1/2	31 1/2	73	36	28 7/8	42 3/8	20 1/4
RE24BDHP	33	19	25 1/2	31 1/2	73	36	28 7/8	42 3/8	20 1/4
RE24DD	33	19	25 1/2	31 1/2	64	36	28 7/8	42 3/8	20 1/4

Measurements

MODEL	K	L	R	RD	Shaft Diameter	Weight (lbs)
RE13BD	34 5/8	12 3/16	13 1/4	17 1/2	3/4	191
RE13DD	24 1/8	12 3/16	13 1/4	17 1/2	7/8	163
RE15BD	36 3/4	12 3/16	14 7/8	21	3/4	229
RE15BDHP	36 3/4	12 3/16	14 7/8	21	3/4	229
RE15DD	26	12 3/16	14 7/8	21	7/8	198
RE18BD	40	12 3/16	16 1/2	24	1	264
RE18BDHP	40	12 3/16	16 1/2	24	1	263
RE18DD	29 1/2	12 3/16	16 1/2	24	7/8	228
RE20BD	44 1/2	16 1/4	18	24	1	323
RE20BDHP	44 1/2	16 1/4	18	24	1	321
RE20DD	32 1/4	16 1/4	18	24	1 1/8	302
RE24BD	51 3/8	19	23 7/8	28	1	414
RE24BDHP	51 3/8	19	23 7/8	28	1	412
RE24DD	38 1/2	19	23 7/8	28	1 3/8	389

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance			0.00"sp	0.50"sp	1.00" sp	1.50" sp	2.00" sp	2.50" sp	3.00" sp	3.50" sp	4.00" sp	4.50" sp	5.00" sp	5.50" sp
MODEL	CFM		RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP
CASRE13BD	1200	1103	920 / 0.09	1194 / 0.22	1429 / 0.36	1637 / 0.53	1829 / 0.71							
CASRE13BD	1400	1286	1073 / 0.14	1313 / 0.29	1525 / 0.45	1718 / 0.63	1897 / 0.82							
CASRE13BD	1600	1470	1227 / 0.22	1440 / 0.38	1633 / 0.55	1810 / 0.75	1975 / 0.95							
CASRE13BD	1800	1654	1380 / 0.31	1571 / 0.49	1748 / 0.68	1913 / 0.89								
CASRE13BD	2000	1838	1533 / 0.42	1706 / 0.62	1869 / 0.83									
CASRE13BD	2200	2021	1686 / 0.56	1844 / 0.78	1996 / 1.01									
CASRE13BD	2400	2205	1839 / 0.73	1985 / 0.96										
CASRE13BD	2600	2389	1992 / 0.92											
CASRE13DD	1200	1103	631 / 0.09	819 / 0.22	980 / 0.36	1124 / 0.53	1255 / 0.71	1378 / 0.91	1493 / 1.12	1602 / 1.35	1705 / 1.58			
CASRE13DD	1400	1286	736 / 0.14	900 / 0.29	1046 / 0.45	1178 / 0.63	1301 / 0.82	1416 / 1.03	1523 / 1.25	1628 / 1.49	1726 / 1.74			
CASRE13DD	1600	1470	841 / 0.21	987 / 0.38	1120 / 0.56	1241 / 0.75	1356 / 0.95	1463 / 1.17	1566 / 1.41	1663 / 1.66	1756 / 1.91			
CASRE13DD	1800	1654	946 / 0.31	1077 / 0.49	1199 / 0.68	1312 / 0.89	1418 / 1.11	1519 / 1.34	1614 / 1.59	1708 / 1.85				
CASRE13DD	2000	1838	1051 / 0.42	1170 / 0.62	1282 / 0.83	1387 / 1.06	1487 / 1.29	1581 / 1.54	1672 / 1.80					
CASRE13DD	2200	2021	1156 / 0.56	1265 / 0.78	1368 / 1.01	1467 / 1.25	1560 / 1.50	1649 / 1.76						
CASRE13DD	2400	2205	1259 / 0.72	1361 / 0.96	1457 / 1.21	1549 / 1.47	1637 / 1.74							
CASRE13DD	2600	2389	1366 / 0.92	1459 / 1.18	1549 / 1.44	1635 / 1.72	1717 / 2.00							
CASRE13DD	2800	2573	1471 / 1.15	1557 / 1.43	1641 / 1.71	1722 / 2.00								
CASRE13DD	3000	2757	1576 / 1.42	1657 / 1.71										
CASRE13DD	3200	2940	1682 / 1.72											
CASRE15BD	1600	684	1025 / 0.20	1257 / 0.37	1436 / 0.55	1592 / 0.74	1733 / 0.94	1867 / 1.16	1990 / 1.38	2111 / 1.62	2225 / 1.87	2336 / 2.13	2443 / 2.40	2548 / 2.68
CASRE15BD	2000	855	1281 / 0.38	1478 / 0.61	1639 / 0.83	1779 / 1.05	1907 / 1.28	2026 / 1.52	2139 / 1.77	2247 / 2.03	2353 / 2.31	2454 / 2.60	2548 / 2.88	
CASRE15BD	2400	1026	1537 / 0.66	1707 / 0.94	1852 / 1.20	1982 / 1.46	2100 / 1.73	2210 / 2.00	2312 / 2.27	2412 / 2.57	2508 / 2.87			
CASRE15BD	2800	1197	1794 / 1.06	1942 / 1.37	2074 / 1.68	2193 / 1.98	2303 / 2.29	2405 / 2.60	2502 / 2.91					
CASRE15BD	3200	1368	2050 / 1.58	2181 / 1.94	2302 / 2.30	2411 / 2.64	2514 / 2.99							
CASRE15BD	3600	1539	2306 / 2.24	2424 / 2.66										
CASRE15BDHP	1600	684	1025 / 0.20	1257 / 0.37	1436 / 0.55	1592 / 0.74	1733 / 0.94	1867 / 1.16	1990 / 1.38	2111 / 1.62	2225 / 1.87	2336 / 2.13	2443 / 2.40	2548 / 2.68
CASRE15BDHP	2000	855	1281 / 0.38	1478 / 0.61	1639 / 0.83	1779 / 1.05	1907 / 1.28	2026 / 1.52	2139 / 1.77	2247 / 2.03	2353 / 2.31	2454 / 2.60	2548 / 2.88	
CASRE15BDHP	2400	1026	1537 / 0.66	1707 / 0.94	1852 / 1.20	1982 / 1.46	2100 / 1.73	2210 / 2.00	2312 / 2.27	2412 / 2.57	2508 / 2.87			
CASRE15BDHP	2800	1197	1794 / 1.06	1942 / 1.37	2074 / 1.68	2193 / 1.98	2303 / 2.29	2405 / 2.60	2502 / 2.91					
CASRE15BDHP	3200	1368	2050 / 1.58	2181 / 1.94	2302 / 2.30	2411 / 2.64	2514 / 2.99							
CASRE15BDHP	3600	1539	2306 / 2.24	2424 / 2.66										
CASRE15DD	1600	684	732 / 0.20	898 / 0.37	1026 / 0.55	1136 / 0.74	1238 / 0.94	1333 / 1.16	1422 / 1.38	1508 / 1.62	1590 / 1.87	1668 / 2.13	1745 / 2.40	
CASRE15DD	2000	855	915 / 0.38	1056 / 0.61	1170 / 0.83	1271 / 1.05	1362 / 1.28	1447 / 1.52	1528 / 1.77	1605 / 2.03	1679 / 2.31	1751 / 2.59		
CASRE15DD	2400	1026	1098 / 0.66	1220 / 0.94	1323 / 1.20	1415 / 1.46	1499 / 1.72	1578 / 2.00	1652 / 2.28	1723 / 2.57	1791 / 2.86			
CASRE15DD	2800	1197	1281 / 1.05	1388 / 1.38	1481 / 1.68	1567 / 1.99	1645 / 2.29	1718 / 2.60	1787 / 2.91					
CASRE15DD	3200	1368	1464 / 1.57	1559 / 1.94	1644 / 2.30	1723 / 2.65	1796 / 2.99							
CASRE15DD	3600	1539	1647 / 2.24	1732 / 2.66	1013 / 0.64	1145 / 0.91	1268 / 1.21	1386 / 1.54	1499 / 1.89					
CASRE18BD	2000	855	678 / 0.19	865 / 0.40	1136 / 0.90	1252 / 1.20	1360 / 1.53	1463 / 1.88						
CASRE18BD	2500	1069	847 / 0.37	1005 / 0.63	1270 / 1.27	1376 / 1.60	1473 / 1.96							
CASRE18BD	3000	1282	1017 / 0.64	1153 / 0.95	1411 / 1.74									
CASRE18BD	3500	1496	1186 / 1.01	1305 / 1.38										
CASRE18BD	4000	1710	1355 / 1.51	1460 / 1.93										
CASRE18BDHP	1500	641	693 / 0.12	895 / 0.29	1071 / 0.49	1227 / 0.72	1366 / 0.97	1493 / 1.23	1608 / 1.51	1716 / 1.80				
CASRE18BDHP	2000	855	924 / 0.28	1082 / 0.50	1224 / 0.74	1483 / 1.30	1483 / 1.30	1599 / 1.60	1708 / 1.92					
CASRE18BDHP	2500	1069	1154 / 0.55	1285 / 0.81	1402 / 1.09	1624 / 1.73	1624 / 1.73							
CASRE18BDHP	3000	1282	1385 / 0.95	1496 / 1.26	1598 / 1.59									
CASRE18BDHP	3500	1496	1616 / 1.50	1712 / 1.87										
CASRE18DD	1500	912	511 / 0.09	732 / 0.27	904 / 0.50	1058 / 0.77	1200 / 1.08	1333 / 1.41	1458 / 1.77	1574 / 2.15	1684 / 2.54			
CASRE18DD	2000	1216	680 / 0.22	860 / 0.45	1008 / 0.71	1138 / 1.01	1259 / 1.34	1374 / 1.70	1484 / 2.09	1589 / 2.50	1691 / 2.94			
CASRE18DD	2500	1520	850 / 0.44	999 / 0.71	1130 / 1.01	1246 / 1.34	1352 / 1.70	1453 / 2.09	1549 / 2.50	1643 / 2.94				
CASRE18DD	3000	1824	1020 / 0.75	1146 / 1.08	1263 / 1.43	1368 / 1.79	1465 / 2.19	1556 / 2.61						
CASRE18DD	3500	2128	1190 / 1.19	1299 / 1.57	1403 / 1.97	1500 / 2.38	1589 / 2.81							
CASRE18DD	4000	2432	1360 / 1.78	1456 / 2.21	1549 / 2.66									
CASRE18DD	4500	2736	1530 / 2.54											

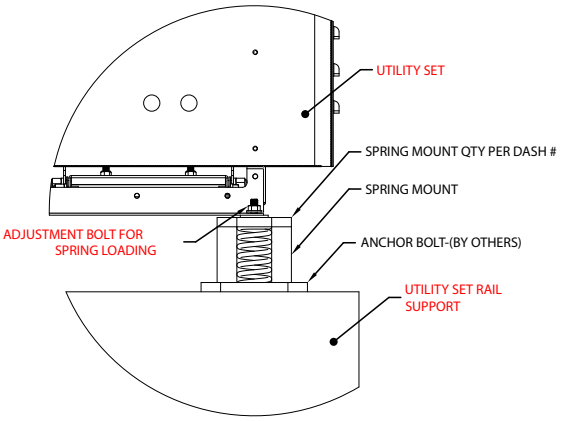
CASRE Performance

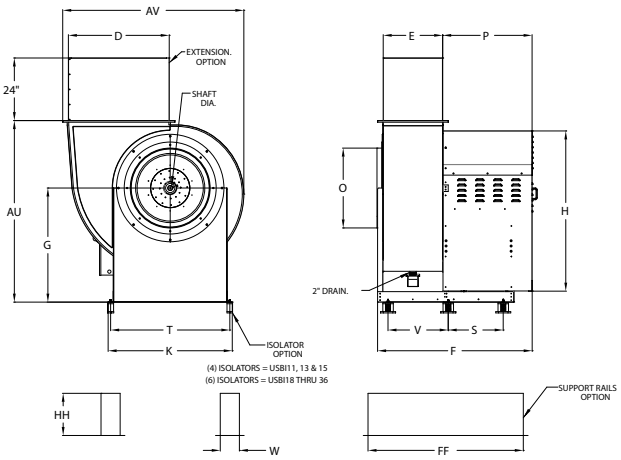
BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance			0.00"sp	0.50"sp	1.00" sp	1.50" sp	2.00" sp	2.50" sp	3.00" sp	3.50" sp	4.00" sp	4.50" sp	5.00" sp	5.50" sp
MODEL	CFM		RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP
CASRE20BD	5000	2137	695 / 0.59	830 / 1.10	948 / 1.66	1066 / 2.32	1168 / 2.98	1256 / 3.61	1333 / 4.21	1403 / 4.80	1468 / 5.38	1530 / 5.98	1591 / 6.59	
CASRE20BD	6000	2564	833 / 1.02	955 / 1.64	1050 / 2.25	1150 / 2.96	1249 / 3.76	1339 / 4.56	1420 / 5.34	1493 / 6.09	1559 / 6.82			
CASRE20BD	7000	2992	972 / 1.62	1084 / 2.38	1166 / 3.04	1248 / 3.78	1334 / 4.63	1420 / 5.55	1502 / 6.49	1577 / 7.42				
CASRE20BD	8000	3419	1111 / 2.41	1215 / 3.32	1289 / 4.06	1360 / 4.85	1433 / 5.72	1508 / 6.69						
CASRE20BD	9000	3847	1249 / 3.43	1349 / 4.51	1416 / 5.34	1479 / 6.19	1543 / 7.10							
CASRE20BD	10000	4274	1388 / 4.71	1483 / 5.95	1546 / 6.89									
CASRE20BD	11000	4701	1527 / 6.27											
CASRE20BDHP	3500	1496	803 / 0.40	952 / 0.76	1090 / 1.16	1209 / 1.57	1316 / 2.00	1418 / 2.46	1515 / 2.95	1608 / 3.46	1700 / 3.99	1788 / 4.54		
CASRE20BDHP	4000	1710	918 / 0.60	1048 / 1.01	1175 / 1.45	1287 / 1.91	1389 / 2.38	1484 / 2.88	1574 / 3.40	1660 / 3.93	1745 / 4.50			
CASRE20BDHP	4500	1923	1033 / 0.86	1147 / 1.31	1264 / 1.80	1371 / 2.30	1468 / 2.82	1557 / 3.36	1642 / 3.91	1723 / 4.49				
CASRE20BDHP	5000	2137	1147 / 1.17	1249 / 1.67	1356 / 2.21	1457 / 2.76	1550 / 3.33	1636 / 3.91	1716 / 4.50					
CASRE20BDHP	5500	2351	1262 / 1.56	1353 / 2.10	1451 / 2.69	1546 / 3.29	1635 / 3.91	1718 / 4.53						
CASRE20BDHP	6000	2564	1376 / 2.03	1459 / 2.61	1549 / 3.24	1614 / 3.71	1723 / 4.56							
CASRE20BDHP	6500	2778	1491 / 2.58	1567 / 3.21	1649 / 3.88	1732 / 4.58								
CASRE20BDHP	7000	2992	1606 / 3.22	1676 / 3.89	1751 / 4.61									
CASRE20BDHP	7500	3206	1721 / 3.96	1785 / 4.68										
CASRE20BDHP	8000	3419	1835 / 4.80											
CASRE20DD	3500	1496	803 / 0.40	952 / 0.76	1090 / 1.16	1209 / 1.57	1316 / 2.00	1418 / 2.46	1515 / 2.95	1608 / 3.46	1700 / 3.99	1788 / 4.54		
CASRE20DD	4000	1710	918 / 0.60	1048 / 1.01	1175 / 1.45	1287 / 1.91	1389 / 2.38	1484 / 2.88	1574 / 3.40	1660 / 3.93	1745 / 4.50			
CASRE20DD	4500	1923	1033 / 0.86	1147 / 1.31	1264 / 1.80	1371 / 2.30	1468 / 2.82	1557 / 3.36	1642 / 3.91	1723 / 4.49				
CASRE20DD	5000	2137	1147 / 1.17	1249 / 1.67	1356 / 2.21	1457 / 2.76	1550 / 3.33	1636 / 3.91	1716 / 4.50					
CASRE20DD	5500	2351	1262 / 1.56	1353 / 2.10	1451 / 2.69	1546 / 3.29	1635 / 3.91	1718 / 4.53						
CASRE20DD	6000	2564	1376 / 2.03	1459 / 2.61	1549 / 3.24	1614 / 3.71	1723 / 4.56							
CASRE20DD	6500	2778	1491 / 2.58	1567 / 3.21	1649 / 3.88	1732 / 4.58								
CASRE20DD	7000	2992	1606 / 3.22	1676 / 3.89	1751 / 4.61									
CASRE20DD	7500	3206	1721 / 3.96	1785 / 4.68										
CASRE24BD	5000	2137	695 / 0.59	830 / 1.10	948 / 1.66	1066 / 2.32	1168 / 2.98	1256 / 3.61	1333 / 4.21	1403 / 4.80	1468 / 5.38	1530 / 5.98	1591 / 6.59	
CASRE24BD	6000	2564	833 / 1.02	955 / 1.64	1050 / 2.25	1150 / 2.96	1249 / 3.76	1339 / 4.56	1420 / 5.34	1493 / 6.09	1559 / 6.82			
CASRE24BD	7000	2992	972 / 1.62	1084 / 2.38	1166 / 3.04	1248 / 3.78	1334 / 4.63	1420 / 5.55	1502 / 6.49	1577 / 7.42				
CASRE24BD	8000	3419	1111 / 2.41	1215 / 3.32	1289 / 4.06	1360 / 4.85	1433 / 5.72	1508 / 6.69						
CASRE24BD	9000	3847	1249 / 3.43	1349 / 4.51	1416 / 5.34	1479 / 6.19	1543 / 7.10							
CASRE24BD	10000	4274	1388 / 4.71	1483 / 5.95	1546 / 6.89									
CASRE24BD	11000	4701	1527 / 6.27											
CASRE24BDHP	5000	2137	695 / 0.59	830 / 1.10	948 / 1.66	1066 / 2.32	1168 / 2.98	1256 / 3.61	1333 / 4.21	1403 / 4.80	1468 / 5.38	1530 / 5.98	1591 / 6.59	
CASRE24BDHP	6000	2564	833 / 1.02	955 / 1.64	1050 / 2.25	1150 / 2.96	1249 / 3.76	1339 / 4.56	1420 / 5.34	1493 / 6.09	1559 / 6.82			
CASRE24BDHP	7000	2992	972 / 1.62	1084 / 2.38	1166 / 3.04	1248 / 3.78	1334 / 4.63	1420 / 5.55	1502 / 6.49	1577 / 7.42				
CASRE24BDHP	8000	3419	1111 / 2.41	1215 / 3.32	1289 / 4.06	1360 / 4.85	1433 / 5.72	1508 / 6.69						
CASRE24BDHP	9000	3847	1249 / 3.43	1349 / 4.51	1416 / 5.34	1479 / 6.19	1543 / 7.10							
CASRE24BDHP	10000	4274	1388 / 4.71	1483 / 5.95	1546 / 6.89									
CASRE24BDHP	11000	4701	1527 / 6.27											
CASRE24DD	4000	1710	632 / 0.30	814 / 0.72	981 / 1.23	1118 / 1.75	1228 / 2.23	1324 / 2.70	1412 / 3.18					
CASRE24DD	5000	2137	790 / 0.59	943 / 1.10	1077 / 1.66	1211 / 2.32	1327 / 2.98	1427 / 3.61	1514 / 4.21	1594 / 4.80	1668 / 5.39	1739 / 5.98		
CASRE24DD	6000	2564	947 / 1.02	1085 / 1.64	1193 / 2.25	1307 / 2.96	1419 / 3.76	1522 / 4.56	1614 / 5.34	1696 / 6.09	1771 / 6.81			
CASRE24DD	7000	2992	1105 / 1.62	1232 / 2.38	1325 / 3.04	1418 / 3.78	1516 / 4.63	1613 / 5.55	1706 / 6.49	1792 / 7.42				
CASRE24DD	8000	3419	1262 / 2.41	1381 / 3.32	1464 / 4.06	1545 / 4.85	1628 / 5.72	1713 / 6.69						
CASRE24DD	9000	3847	1420 / 3.44	1532 / 4.51	1609 / 5.34	1681 / 6.19	1753 / 7.10							
CASRE24DD	10000	4274	1578 / 4.71	1685 / 5.96	1757 / 6.89									
CASRE24DD	11000	4701	1735 / 6.27											

USBI-RM

General and Restaurant Duty Utility Set





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

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.

Measurements

	Fan Model							
Dim.	BI 11	BI 13	BI 15	BI 18	BI 20	BI 24	BI 30	BI 36
AU	27 1/8	31 3/8	35 3/4	42 1/8	47 7/8	56 3/8	61 7/8	69 1/4
AV	22 1/2	26	29 1/2	35	38 1/2	46 1/2	57 1/2	69
D	12	14	16 3/8	19 1/2	21 1/2	25 3/4	32	38 5/8
E	11 1/4	11 3/4	13 1/8	14 5/8	15 3/8	16 7/8	19 1/4	22 7/8
F	29 1/2	31	32 5/8	37 1/2	38 1/4	49 1/4	52 1/4	59
G	18	20 7/8	23 7/8	28 3/8	31 3/8	37 1/4	38 3/4	43 1/2
H	25 5/8	29 7/8	34 1/4	40 5/8	44 3/4	52 1/4	56 1/2	65 3/8
K	17 5/8	19 5/8	22	26 1/4	27 7/8	34 7/8	41 5/8	47 3/8
O	12 1/2	13 1/2	15 1/8	18 1/2	19 5/8	25 1/4	24 3/8	30 1/2
P	17 1/2	18 1/4	18 3/4	22	22	30 1/2	31 1/4	34
S	12 3/4	12 7/8	12 3/4	12 3/4	12 3/4	19 1/4	20 1/2	21
T	16 3/8	18 3/8	20 3/4	25	26 1/2	33	39 3/4	45 1/2
V	12 1/8	12 7/8	15	18 1/4	18 3/4	17 1/4	18 1/2	23
Shaft BD	1	1	1	1 3/16	1 7/16	1 7/16	1 15/16	1 15/16
BD Lbs	165	190	235	318	373	684	999	1280
Shaft DD	7/8	7/8	7/8	1 1/8	1 3/8	1 5/8	1 5/8	1 5/8
DD Lbs	155	180	225	308	363	634	949	1220
HH	10	10	10	10	10	10	10	10
W	4	4	4	4	4	4	4	4
FF	36	36	36	48	48	60	60	69

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

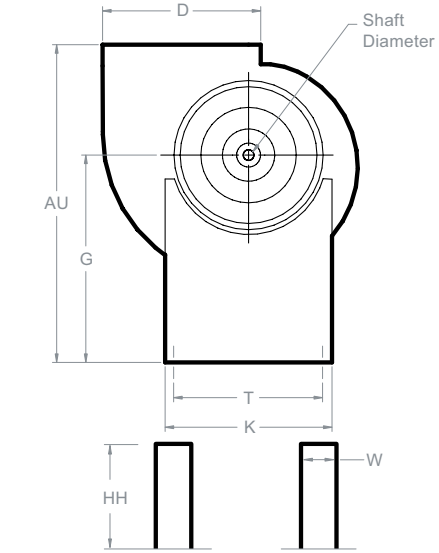
Performance			0.00"sp	0.50"sp	1.00" sp	1.50" sp	2.00" sp	2.50" sp	3.00" sp	3.50" sp	4.00" sp	4.50" sp	5.00" sp	5.50" sp	6.00" sp
MODEL	CFM	Dis Vel FPM	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BPH		
USBI11BD-RM	1000	1543	1159 / 0.11	1473 / 0.23	1706 / 0.36	1912 / 0.50	2101 / 0.66	2283 / 0.84							
USBI11BD-RM	1250	1929	1448 / 0.21	1715 / 0.36	1929 / 0.52	2111 / 0.68	2281 / 0.85								
USBI11BD-RM	1500	2314	1736 / 0.35	1966 / 0.54	2165 / 0.73	2333 / 0.92									
USBI11BD-RM	1750	2700	2025 / 0.56	2226 / 0.78											
USBI11BD-RM	2000	3086	3086 / 0.84												
USBI11DD-RM	1000	1543	1159 / 0.11	1473 / 0.23	1706 / 0.36	1912 / 0.50	2101 / 0.66	2283 / 0.84							
USBI11DD-RM	1250	1929	1448 / 0.21	1715 / 0.36	1929 / 0.52	2111 / 0.68	2281 / 0.85								
USBI11DD-RM	1500	2314	1736 / 0.35	1966 / 0.54	2165 / 0.73	2333 / 0.92									
USBI11DD-RM	1750	2700	2025 / 0.56	2226 / 0.78											
USBI11DD-RM	2000	3086	3086 / 0.84												
USBI13BD-RM	1500	1398	1003 / 0.15	1284 / 0.33	1482 / 0.50	1654 / 0.68	1812 / 0.87	1963 / 1.08	2107 / 1.32						
USBI13BD-RM	2000	1864	1336 / 0.35	1572 / 0.59	1750 / 0.82	1899 / 1.05	2037 / 1.28	2165 / 1.52							
USBI13BD-RM	2500	2330	1670 / 0.69	1871 / 0.99	2033 / 1.29	2170 / 1.57									
USBI13BD-RM	3000	2796	2004 / 1.19	2179 / 1.55											
USBI13DD-RM	1500	1565	1003 / 0.15	1284 / 0.33	1482 / 0.50	1654 / 0.68	1812 / 0.87	1963 / 1.08	2107 / 1.32						
USBI13DD-RM	2000	2087	1336 / 0.35	1572 / 0.59	1750 / 0.82	1899 / 1.05	2037 / 1.28	2165 / 1.52							
USBI13DD-RM	2500	2609	1670 / 0.69	1871 / 0.99	2033 / 1.29	2170 / 1.57									
USBI13DD-RM	3000	3130	2004 / 1.19	2179 / 1.55											
USBI15BD-RM	2000	1524	948 / 0.22	1202 / 0.45	1378 / 0.68	1531 / 0.91	1671 / 1.16	1802 / 1.43	1925 / 1.72	2041 / 2.02	2153 / 2.35				
USBI15BD-RM	2500	1905	1184 / 0.43	1409 / 0.72	1568 / 1.00	1706 / 1.29	1833 / 1.58	1950 / 1.88	2063 / 2.19	2168 / 2.52					
USBI15BD-RM	3000	2286	1421 / 0.75	1622 / 1.09	1770 / 1.43	1896 / 1.77	2012 / 2.11	2120 / 2.46							
USBI15BD-RM	3500	2667	1658 / 1.19	1840 / 1.58	1977 / 1.98	2096 / 2.38									
USBI15BD-RM	4000	3048	1895 / 1.77	2061 / 2.22	2191 / 2.68										
USBI15BD-RM	4500	3429	2131 / 2.52												
USBI15BDHP-RM	1400	1067	1059 / 0.16	1281 / 0.31	1478 / 0.48	1651 / 0.67	1806 / 0.87	1947 / 1.09	2077 / 1.31	2198 / 1.54					
USBI15BDHP-RM	1900	1448	1437 / 0.41	1603 / 0.61	1763 / 0.82	1911 / 1.05	2047 / 1.28	2176 / 1.54							
USBI15BDHP-RM	2400	1829	1814 / 0.82	1946 / 1.07	2078 / 1.33										
USBI15BDHP-RM	2900	2210	2194 / 1.45												
USBI15DD-RM	2000	1469	948 / 0.22	1202 / 0.45	1378 / 0.68	1531 / 0.91	1671 / 1.16	1802 / 1.43	1925 / 1.72	2041 / 2.02	2153 / 2.35				
USBI15DD-RM	2500	1837	1184 / 0.43	1409 / 0.72	1568 / 1.00	1706 / 1.29	1833 / 1.58	1950 / 1.88	2063 / 2.19	2168 / 2.52					
USBI15DD-RM	3000	2204	1421 / 0.75	1622 / 1.09	1770 / 1.43	1896 / 1.77	2012 / 2.11	2120 / 2.46							
USBI15DD-RM	3500	2571	1658 / 1.19	1840 / 1.58	1977 / 1.98	2096 / 2.38									
USBI15DD-RM	4000	2939	1895 / 1.77	2061 / 2.22	2191 / 2.68										
USBI15DD-RM	4500	3306	2131 / 2.52												
USBI18BD-RM	2500	1281	656 / 0.21	878 / 0.46	1037 / 0.72	1164 / 1.01	1279 / 1.33	1387 / 1.67	1491 / 2.03	1591 / 2.42	1690 / 2.83	1786 / 3.26			
USBI18BD-RM	3500	1794	918 / 0.57	1077 / 0.91	1234 / 1.28	1356 / 1.64	1460 / 2.02	1553 / 2.41	1640 / 2.83	1723 / 3.26					
USBI18BD-RM	4500	2307	1180 / 1.20	1294 / 1.63	1432 / 2.10	1554 / 2.57	1656 / 3.03	1747 / 3.50							
USBI18BD-RM	5500	2819	1443 / 2.20	1529 / 2.69	1639 / 3.26	1752 / 3.84									
USBI18BD-RM	6500	3332	1705 / 3.63	1775 / 4.20											
USBI18BDHP-RM	2500	1281	950 / 0.37	1090 / 0.60	1218 / 0.86	1339 / 1.12	1452 / 1.38	1559 / 1.66	1659 / 1.95	1756 / 2.26	1846 / 2.58	1935 / 2.93			
USBI18BDHP-RM	3000	1538	1139 / 0.63	1259 / 0.91	1369 / 1.21	1474 / 1.52	1575 / 1.83	1671 / 2.15	1765 / 2.47	1853 / 2.80	1938 / 3.15				
USBI18BDHP-RM	3500	1794	1329 / 1.01	1434 / 1.33	1530 / 1.67	1623 / 2.02	1712 / 2.38	1799 / 2.75	1884 / 3.11	1966 / 3.49					
USBI18BDHP-RM	4000	2050	1519 / 1.50	1612 / 1.87	1698 / 2.25	1781 / 2.65	1861 / 3.06	1940 / 3.47							
USBI18BDHP-RM	4500	2307	1709 / 2.14	1792 / 2.55	1870 / 2.98	1945 / 3.42									
USBI18BDHP-RM	5000	2563	1899 / 2.94	1974 / 3.39											
USBI18DD-RM	2500	1450	656 / 0.21	878 / 0.46	1037 / 0.72	1164 / 1.01	1279 / 1.33	1387 / 1.67	1491 / 2.03	1591 / 2.42	1690 / 2.83	1786 / 3.26			
USBI18DD-RM	3500	2030	918 / 0.57	1077 / 0.91	1234 / 1.28	1356 / 1.64	1460 / 2.02	1553 / 2.41	1640 / 2.83	1723 / 3.26					
USBI18DD-RM	4500	2610	1180 / 1.20	1294 / 1.63	1432 / 2.10	1554 / 2.57	1656 / 3.03	1747 / 3.50							
USBI18DD-RM	5500	3190	1443 / 2.20	1529 / 2.69	1639 / 3.26	1752 / 3.84									
USBI18DD-RM	6500	3770	1705 / 3.63	1775 / 4.20											
USBI20BD-RM	3500	1506	818 / 0.51	979 / 0.90	1110 / 1.30	1223 / 2.12	1323 / 2.12	1415 / 2.54	1499 / 2.97	1578 / 3.42	1653 / 3.89	1724 / 4.37	1792 / 4.87		
USBI20BD-RM	4500	1936	1051 / 1.08	1183 / 1.57	1296 / 2.09	1398 / 2.60	1490 / 3.12	1576 / 3.64	1655 / 4.17	1729 / 4.70					
USBI20BD-RM	5500	2366	1285 / 1.98	1396 / 2.57	1495 / 3.19	1585 / 3.82	1668 / 4.44	1748 / 5.08							
USBI20BD-RM	6500	2797	1518 / 3.26	1615 / 3.96	1702 / 4.68	1783 / 5.42									
USBI20BD-RM	7500	3227	1752 / 5.01												

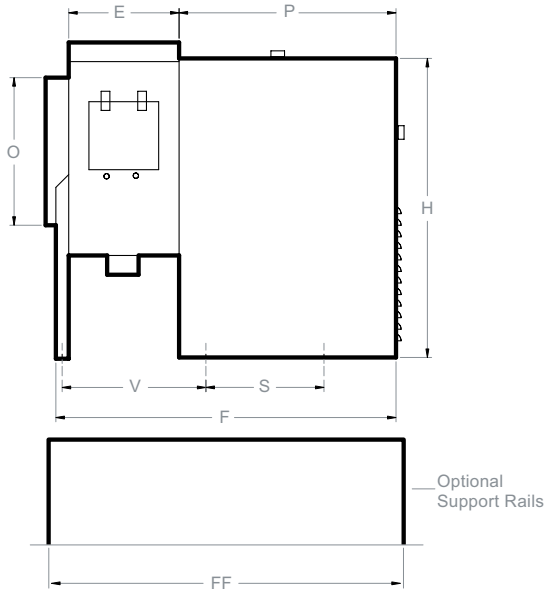
USBI-RM Performance

Performance			0.00"sp	0.50"sp	1.00" sp	1.50" sp	2.00" sp	2.50" sp	3.00" sp	3.50" sp	4.00" sp	4.50" sp	5.00" sp	5.50" sp	6.00" sp
MODEL	CFM	Dis Vel FPM	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BPH		
USBI20BDHP-RM	2000	861	676 / 0.17	863 / 0.40	1011 / 0.66	1138 / 0.92	1253 / 1.20	1359 / 1.50	1458 / 1.82	1550 /2.14	1638 / 2.49	1723 / 2.85	1803 / 3.22	1880 / 3.60	
USBI20BDHP-RM	3000	1291	1013 / 0.57	1148 / 0.91	1267 / 1.27	1373 / 1.64	1471 / 2.02	1561 / 2.41	1647 / 2.81	1728 / 3.22	1805 / 3.63	1880 / 4.06	1951 / 4.50		
USBI20BDHP-RM	4000	1721	1351 / 1.35	1455 / 1.79	1552 / 2.25	1641 / 2.73	1726 / 3.22	1805 / 3.72	1881 / 4.22	1952 / 4.73					
USBI20BDHP-RM	5000	2151	1688 / 2.64	1772 / 3.18	1853 / 3.74	1930 / 4.32									
USBI20DD-RM	3500	1626	818 / 0.51	979 / 0.90	1110 / 1.30	1223 / 1.71	1323 / 2.12	1415 / 2.54	1499 / 2.97	1578 / 3.42	1653 / 3.89	1724 / 4.37	1792 / 4.87		
USBI20DD-RM	4500	2090	1051 / 1.08	1183 / 1.57	1296 / 2.09	1398 / 2.60	1490 / 3.12	1576 / 3.64	1655 / 4.17	1729 / 4.70					
USBI20DD-RM	5500	2555	1285 / 1.98	1396 / 2.57	1495 / 3.19	1585 / 3.82	1668 / 4.44	1748 / 5.08							
USBI20DD-RM	6500	3019	1518 / 3.26	1615 / 3.96	1702 / 4.68	1783 / 5.42									
USBI20DD-RM	7500	3484	1752 / 5.01												
USBI24BD-RM	6000	1715	831 / 1.12	941 / 1.72	1034 / 2.34	1116 / 2.94	1190 / 3.56	1258 / 4.18	1322 / 4.83	1384 / 5.49	1443 / 6.18	1500 / 6.88	1555 / 7.61		
USBI24BD-RM	8000	2287	1108 / 2.64	1192 / 3.45	1271 / 4.27	1342 / 5.09	1408 / 5.90	1469 / 6.71	1526 / 7.52	1580 / 8.34					
USBI24BD-RM	10000	2859	1384/ 5.15	1453 / 6.16	1519 / 7.18	1581 / 8.21									
USBI24BDHP-RM	5000	1429	971 / 1.19	1074 / 1.71	1159 / 2.24	1237 / 2.78	1311 / 3.33	1380 / 3.89	1446 / 4.47	1510 / 5.07	1571 / 5.67	1630 / 6.29	1687 / 6.92	1742 / 7.57	1795 / 8.22
USBI24BDHP-RM	7000	2001	1359 / 3.25	1437 / 3.99	1506 / 4.73	1568 / 5.46	1628 / 6.20	1685 / 6.95	1739 / 7.71	1792 / 8.48					
USBI24BDHP-RM	9000	2573	1748 / 6.91												
USBI24DD-RM	6000	2037	831 / 1.12	941 / 1.72	1034 / 2.34	1116 / 2.94	1190 / 3.56	1258 / 4.18	1322 / 4.83	1384 / 5.49	1443 / 6.18	1500 / 6.88	1555 / 7.61		
USBI24DD-RM	8000	2716	1108 / 2.64	1192 / 3.45	1271 / 4.27	1342 / 5.09	1408 / 5.90	1469 / 6.71	1526 / 7.52	1580 / 8.34					
USBI24DD-RM	1000	3395	1384/ 5.15	1453 / 6.16	1519 / 7.18	1581 / 8.21									
USBI30BD-RM	9000	1728	650 / 1.79	738 / 2.70	806 / 3.61	868 / 4.53	927 / 6.41	983 / 6.41	1037 / 7.36	1088 / 8.34	1137 / 9.35	1185 / 10.38	1230 / 11.44	1274 / 12.53	1316 / 13.66
USBI30BD-RM	12000	2304	867 / 4.25	939 / 5.45	996 / 6.67	1048 / 7.88	1096 / 9.11	1143 / 10.33	1188 / 11.57	1231 / 12.31	1274 / 14.06	1315 / 15.32	1356 / 16.60	1395 / 17.88	
USBI30BD-RM	15000	2880	1083 / 8.29	1145 / 9.80	1195 / 11.31	1240 / 12.83	1282 / 14.35	1322 / 15.87	1361 / 17.40	1398 / 18.94					
USBI30BD-RM	18000	3456	1300 / 14.32	1353 / 16.14	1398 / 17.95										
USBI30BDHP-RM	7500	1440	757 / 1.91	823 / 2.67	880 / 3.40	934 / 4.15	985 / 4.91	1034 / 5.68	1081 / 6.48	1128 / 7.30	1173 / 8.13	1217 / 8.99	1259 / 9.86	1301 / 10.75	1341 / 11.66
USBI30BDHP-RM	9500	1824	958 / 3.89	1013 / 4.85	1061 / 5.79	1106 / 6.72	1149 / 7.65	1190 / 8.60	1231 / 9.56	1270 / 10.54	1308 / 11.53	1346 / 12.52	1383 / 13.55	1420 / 14.59	1455 / 15.61
USBI30BDHP-RM	11500	2208	1160 / 6.90	1207 / 8.07	1248 / 9.22	1287 / 10.34	1325 / 11.47	1361 / 12.60	1396 / 13.74	1430 / 14.88	1463 / 16.04	1496 / 17.21	1529 / 18.39	1561 / 19.58	
USBI30BDHP-RM	13500	2592	1362 / 11.16	1402 / 12.55	1439 / 13.90	1474 / 15.23	1507 / 16.56	1539 / 17.88	1570 / 19.20						
USBI30DD-RM	9000	1728	650 / 1.79	738 / 2.70	806 / 3.61	868 / 4.53	927 / 6.41	983 / 6.41	1037 / 7.36	1088 / 8.34	1137 / 9.35	1185 / 10.38	1230 / 11.44	1274 / 12.53	1316 / 13.66
USBI30DD-RM	12000	2304	867 / 4.25	939 / 5.45	996 / 6.67	1048 / 7.88	1096 / 9.11	1143 / 10.33	1188 / 11.57	1231 / 12.31	1274 / 14.06	1315 / 15.32	1356 / 16.60	1395 / 17.88	
USBI30DD-RM	15000	2880	1083 / 8.29	1145 / 9.80	1195 / 11.31	1240 / 12.83	1282 / 14.35	1322 / 15.87	1361 / 17.40	1398 / 18.94					
USBI30DD-RM	18000	3456	1300 / 14.32	1353 / 16.14	1398 / 17.95										
USBI36BD-RM	11800	1530	458 / 1.51	527 / 2.57	605 / 3.75	663 / 4.87	713 / 5.99	759 / 7.15	802 / 8.35	844 / 9.60	885 / 10.90	925 / 12.25	965 / 13.64		
USBI36BD-RM	14400	1876	559 / 2.75	609 / 3.96	679 / 5.43	739 / 6.85	789 / 8.21	832 / 9.57	872 / 10.95	910 / 12.35	946 / 13.80	981 / 15.28			
USBI36BD-RM	17000	2204	660 / 4.52	699 / 5.88	755 / 7.55	814 / 9.3	864 / 10.97	908 / 12.59	947 / 14.19	984 / 15.80					
USBI36BD-RM	19600	2542	761 / 6.92	793 / 8.45	837 / 10.26	888 / 12.27	939 / 14.27	983 / 16.21							
USBI36BD-RM	22200	2879	862 / 10.06	889 / 11.76	924 / 13.70	967 / 15.88									
USBI36BD-RM	24800	3216	963 / 14.03	987 / 15.89											
USBI36BDHP-RM	12000	1556	742 / 1.23	848 / 2.21	978 / 3.27	1086 / 4.56	1182 / 5.82	1276 / 7.17	1373 / 8.66						
USBI36BDHP-RM	16000	2075	989 / 2.91	1057 / 4.12	1153 / 5.57	1254 / 7.12	1343 / 8.68								
USBI36BDHP-RM	20000	2593	1236 / 5.68	1286 / 7.13	1352 / 8.79										
USBI36DD-RM	11800	1530	458 / 1.51	527 / 2.57	605 / 3.75	663 / 4.87	713 / 5.99	759 / 7.15	802 / 8.35	844 / 9.60	885 / 10.90	925 / 12.25	965 / 13.64		
USBI36DD-RM	14400	1867	559 / 2.75	609 / 3.96	679 / 5.43	739 / 6.85	789 / 8.21	832 / 9.57	872 / 10.95	910 / 12.35	946 / 13.80	981 / 15.28			
USBI36DD-RM	17000	2204	660 / 4.52	699 / 5.88	755 / 7.55	814 / 9.3	864 / 10.97	908 / 12.59	947 / 14.19	984 / 15.80					
USBI36DD-RM	19600	2542	761 / 6.92	793 / 8.45	837 / 10.26	888 / 12.27	939 / 14.27	983 / 16.21							
USBI36DD-RM	22200	2879	862 / 10.06	889 / 11.76	924 / 13.70	967 / 15.88									
USBI36DD-RM	24800	3216	963 / 14.03	987 / 15.89											

BI-CARM Belt Drive

Restaurant Duty Utility Set





Features & Benefits

- Full AMCA CLASS I operation
- Continuously welded housing
- UL762 Listed for restaurant duty
- 2” grease drain will not clog
- Cleanout door with latches provide easy access without tools
- Upblast discharge directs air away from floor
- Vented motor cover for weather protection

Options

- Heat Slinger
- Shaft Seal
- Vibration Isolators
- Emergency Disconnect Switch

Certifications

CaptiveAire® certifies that Models BI10CARM thru BI27CARM 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 comply with the requirements of the AMCA Certified Ratings Program.

Models BI10CARM thru BI24CARM are UL Listed compliance with UL762 Standards and NFPA96.

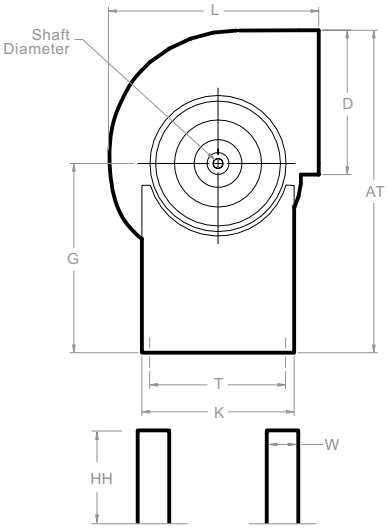
Performance

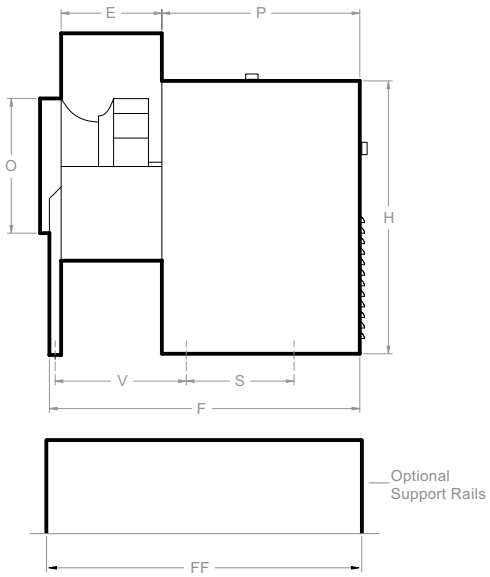
	Models												
Dim.	10	12	13	15	16	18	20	22	24	27	30	33	36
AU	23 5/8	30 1/16	30 13/16	31 13/16	34 11/16	35 13/16	42 15/16	44 3/8	49 13 /16	51 7/16	68 3/16	68 9/16	68 15/16
D	11 5/16	13	14 3/8	15 3/4	17 5/8	19 3/8	21 1/4	23 5/8	26	28 5/8	31 3/4	34 7/8	38 5/8
E	8 1/4	9 7/8	10 3/4	12	13 1/8	14 1/2	15 3/4	17 5/8	19 3/8	21 1/4	23 5/8	26	28 3/4
F	27 3/4	33 1/4	34 1/8	35 3/8	36 1/2	37 7/8	46 7/16	48 5/16	51 5/16	53 3/16	57 5/8	60	62 3/4
G	15 1/4	20 1/16	20 1/16	20 1/16	22	22	28	28	32	32	43 5/16	43 5/16	43 7/16
H	21 5/16	29 1/8	29 1/8	29 1/8	31	31	40 7/8	40 7/8	46 1/2	46 1/2	64 3/4	64 3/4	64 3/4
K	13 3/16	16 9/16	16 9/16	16 9/16	16 7/16	16 9/16	25 1/4	25 1/4	29 15/16	28 15/16	43 3/8		
O	11	12 7/16	14 3/8	15 7/8	17 3/8	19 3/8	21 1/4	23 5/8	26	28 5/8	31 3/4	35	38 3/4
P	17 1/4	21 18	21 1/8	21 1/8	21 1/8	21 1/8	27 11/16	27 11/16	28 15/16	28 15/16	32	32	32
S	11 3/4	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	14 5/8	14 5/8	18 9/16	18 5/16	17	17	17
T	11 7/16	14 11/16	14 11/16	14 11/16	14 11/16	14 11/16	22 3/4	22 3/4	25 1/2	25 1/2	41	41	41
V	n/a	13 1/8	14	15 1/4	16 3/8	17 3/4	19 3/4	21 5/8	23 3/8	23 3/8	28 9/16	30 15/16	33 11/16
HH	10	10	10	10	10	10	10	10	10	10	10	10	10
W	4	4	4	4	4	4	4	4	4	4	4	4	4
FF	36	36	36	48	48	48	60	60	60	60	69	69	69
Shaft Dia.	3/4	1	1	1	1 3/16	1 3/16	1 3/16	1 3/16	1 7/16	1 7/16	1 11/16	1 11/16	1 15/16
Weight	90	165	170	180	200	220	405	430	499	525	800	875	915

See performance data and charts on page 22, 24 & 25

BI-CA Belt Drive

General Duty Utility Set





Features & Benefits

- Standard top horizontal discharge
- Discharge position can be easily rotated in 45º increments in the field
- Available in CCW or CW rotation
- Corrosion resistant enamel finish

Options

- Heat Slinger
- Shaft Seal
- Emergency Disconnect Switch
- Vibration Isolators
- Back Draft Damper
- Inlet & Outlet Guards

Certifications

CaptiveAire® certifies that Models BI10CA thru BI27CA 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 comply with the requirements of the AMCA Certified Ratings Program.

Models BI10CA thru BI27CA are UL Listed and are in compliance with UL705 Standards.

Performance

	Models												
Dim.	10	12	13	15	16	18	20	22	24	27	30	33	36
AT	26 3/4	33 1/16	34 5/16	35 13/16	39 3/8	41 1/4	49 1/8	51 1/2	57 7/8	60 1/2	75 3/16	78 1/8	81 11/16
D	11 5/16	13	14 3/8	15 3/4	17 5/8	19 3/8	21 1/4	23 5/8	26	28 5/8	31 3/4	34 7/8	26
E	8 1/4	9 7/8	10 3/4	12	13 1/8	14 1/2	15 3/4	17 5/8	19 3/8	21 1/4	23 5/8	26	38 3/4
F	27 3/4	33 1/4	34 1/8	35 3/8	36 1/2	37 7/8	46 7/16	48 5/16	51 5/16	53 3/16	57 5/8	60	62 3/4
G	15 1/4	20 1/16	20 1/16	20 1/16	22	22	28	28	32	32	43 5/16	43 5/16	43 7/16
H	21 5/16	29 1/8	29 1/8	29 1/8	31	31	40 7/8	40 7/8	46 1/2	46 1/2	64 3/4	64 3/4	64 3/4
K	13 3/16	16 9/16	16 9/16	16 9/16	16 7/16	16 9/16	25 1/4	25 1/4	29 15/16	28 15/16	43 3/8		
L	17 3/8	20 1/2	22 1/2	24 11/16	26 7/8	29 5/8	32 1/4	35 5/8	39	42 3/4	50 3/4	50 3/4	57
O	11	12 7/16	14 3/8	15 7/8	17 3/8	19 3/8	21 1/4	23 5/8	26	28 5/8	31 3/4	35	38 3/4
P	17 1/4	21 18	21 1/8	21 1/8	21 1/8	21 1/8	27 11/16	27 11/16	28 15/16	28 15/16	32	32	32
S	11 3/4	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	14 5/8	14 5/8	18 9/16	18 5/16	17	17	17
T	11 7/16	14 11/16	14 11/16	14 11/16	14 11/16	14 11/16	22 3/4	22 3/4	25 1/2	25 1/2	41	41	41
V	n/a	13 1/8	14	15 1/4	16 3/8	17 3/4	19 3/4	21 5/8	23 3/8	23 3/8	28 9/16	30 15/16	33 11/16
HH	10	10	10	10	10	10	10	10	10	10	10	10	10
W	4	4	4	4	4	4	4	4	4	4	4	4	4
FF	36	36	36	48	48	48	60	60	60	60	69	69	69
Shaft Dia.	3/4	1	1	1	1 3/16	1 3/16	1 3/16	1 3/16	1 7/16	1 7/16	1 11/16	1 11/16	1 15/16
Weight	90	165	170	180	200	220	405	430	499	525	800	875	915

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance			0.00"sp	0.50"sp	1.00" sp	1.50" sp	2.00" sp	2.50" sp	3.00" sp	3.50" sp	4.00" sp
MODEL	CFM	Outlet Velocity FPM	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP
BI10CA / CARM	800	1234	1138 / 0.06	1481 / 0.15	1778 / 0.24	2036 / 0.35	2273 / 0.48	2492 / 0.62			
BI10CA / CARM	1200	1852	1705 / 0.21	1945 / 0.33	2166 / 0.46	2376 / 0.60	2575 / 0.75	2759 / 0.90	2934 / 1.07	3101 / 1.25	3252 / 1.43
BI10CA / CARM	1600	2469	2273 / 0.49	2462 / 0.65	2632 / 0.82	2797 / 1.00	2963 / 1.19	3119 / 1.37	3272 / 1.56	3419 / 1.76	3556 / 1.95
BI10CA / CARM	2000	3086	2841 / 0.95	2994 / 1.15	3135 / 1.36	3273 / 1.58	3407 / 1.80				
BI10CA / CARM	2400	3703	3409 / 1.64	3540 / 1.89							
BI12CA / CARM	1250	1402	1153 / 0.12	1414 / 0.25	1634 / 0.38	1836 / 0.52	2026 / 0.67	2205 / 0.84	2376 / 1.02	2541 / 1.21	2700 / 1.41
BI12CA / CARM	1500	1683	1384 / 0.21	1608 / 0.36	1803 / 0.51	1982 / 0.67	2152 / 0.84	2311 / 1.01	2467 / 1.21	2618 / 1.41	2762 / 1.62
BI12CA / CARM	1750	1963	1614 / 0.33	1812 / 0.51	1986 / 0.68	2147 / 0.86	2300 / 1.04	2448 / 1.24	2589 / 1.44	2726 / 1.66	2859 / 1.88
BI12CA / CARM	2000	2243	1845 / 0.49	2020 / 0.70	2179 / 0.90	2326 / 1.10	2466 / 1.30	2601 / 1.51	2729 / 1.73	2853 / 1.95	2976 / 2.19
BI12CA / CARM	2250	2524	2076 / 0.70	2232 / 0.93	2378 / 1.16	2514 / 1.38	2641 / 1.60	2764 / 1.83	2885 / 2.07	3004 / 2.32	3116 / 2.57
BI12CA / CARM	2500	2804	2306 / 0.96	2449 / 1.22	2567 / 1.44	2709 / 1.72	2828 / 1.97	2941 / 2.22	3056 / 2.48	3165 / 2.74	3268 / 3.00
BI12CA / CARM	2750	3085	2537 / 1.28	2667 / 1.57	2789 / 1.84	2907 / 2.12	3019 / 2.39	3129 / 2.67	3231 / 2.94		
BI12CA / CARM	3000	3365	2768 / 1.66	2887 / 1.98	3003 / 2.28	3112 / 2.58	3215 / 2.88				
BI12CA / CARM	3250	3646	2998 / 2.12	3110 / 2.46	3215 / 2.78						
BI13CA / CARM	1500	1398	1043 / 0.13	1262 / 0.27	1453 / 0.42	1639 / 0.58	1814 / 0.75	1974 / 0.93	2122 / 1.13	2259 / 1.35	2389 / 1.59
BI13CA / CARM	2000	1864	1390 / 0.31	1565 / 0.49	1715 / 0.69	1860 / 0.89	2002 / 1.09	2141 / 1.31	2275 / 1.52	2404 / 1.75	2528 / 1.99
BI13CA / CARM	2500	2330	1737 / 0.61	1884 / 0.83	2010 / 1.06	2129 / 1.31	2246 / 1.56	2361 / 1.81	2475 / 2.07	2585 / 2.33	2697 / 2.60
BI13CA / CARM	3000	2796	2085 / 1.06	2211 / 1.31	2322 / 1.59	2423 / 1.87	2523 / 2.16	2620 / 2.46	2717 / 2.76	2814 / 3.07	2907 / 3.37
BI13CA / CARM	3500	3261	2432 / 1.68	2544 / 1.98	2642 / 2.29	2732 / 2.61	2820 / 2.94	2907 / 3.28	2991 / 3.63		
BI13CA / CARM	4000	3727	2780 / 2.51	2880 / 2.85	2967 / 3.20						
BI15CA / CARM	2750	2095	1393 / 0.54	1537 / 0.78	1662 / 1.04	1780 / 1.31	1897 / 1.59	2012 / 1.88	2124 / 2.17	2232 / 2.46	2338 / 2.77
BI15CA / CARM	3250	2476	1646 / 0.88	1772 / 1.16	1882 / 1.47	1984 / 1.78	2085 / 2.10	2184 / 2.43	2282 / 2.76	2379 / 3.10	2473 / 3.44
BI15CA / CARM	3750	2857	1900 / 1.36	2012 / 1.67	2110 / 2.02	2202 / 2.37	2291 / 2.74	2378 / 3.11	2464 / 3.48	2549 / 3.86	2633 / 4.24
BI15CA / CARM	4250	3238	2153 / 1.98	2253 / 2.33	2343 / 2.71	2427 / 3.11	2507 / 3.51	2585 / 3.92	2663 / 4.34		
BI15CA / CARM	4750	3619	2406 / 2.76	2499 / 3.16	2580 / 3.57	2657 / 4.00					
BI15CA / CARM	5250	4000	2660 / 3.73								
BI16CA / CARM	2500	1556	952 / 0.28	1116 / 0.49	1259 / 0.73	1397 / 0.99	1531 / 1.27	1658 / 1.57	1777 / 1.87	1888 / 2.19	1992 / 2.51
BI16CA / CARM	3000	1867	1142 / 0.48	1285 / 0.74	1407 / 1.01	1525 / 1.30	1641 / 1.61	1754 / 1.94	1863 / 2.28	1969 / 2.64	2069 / 3.00
BI16CA / CARM	3500	2179	1332 / 0.75	1458 / 1.06	1567 / 1.37	1670 / 1.69	1770 / 2.03	1871 / 2.40	1969 / 2.77	2065 / 3.16	2159 / 3.56
BI16CA / CARM	4000	2490	1522 / 1.13	1636 / 1.48	1734 / 1.83	1826 / 2.19	1916 / 2.56	2004 / 2.95	2091 / 3.35	2177 / 3.77	2264 / 4.21
BI16CA / CARM	4500	2801	1712 / 1.60	1812 / 1.98	1905 / 2.39	1989 / 2.79	2070 / 3.19	2150 / 3.62	2229 / 4.05	2307 / 4.50	2385 / 4.97
BI16CA / CARM	5000	3112	1903 / 2.20	1998 / 2.64	2081 / 3.08	2158 / 3.52	2232 / 3.96	2305 / 4.42	2376 / 4.88		
BI16CA / CARM	5500	3424	2093 / 2.93	2181 / 3.42	2258 / 3.90	2330 / 4.37	2399 / 4.86				
BI16CA / CARM	6000	3735	2283 / 3.80	2365 / 4.34							
BI18CA / CARM	2000	1025	563 / 0.09	773 / 0.29	955 / 0.50	1122 / 0.75	1275 / 1.04	1415 / 1.36	1544 / 1.69		
BI18CA / CARM	2500	1281	703 / 0.18	879 / 0.42	1031 / 0.67	1175 / 0.94	1312 / 1.25	1442 / 1.58	1564 / 1.94	1680 / 2.33	1790 / 2.73
BI18CA / CARM	3000	1538	844 / 0.32	995 / 0.59	1127 / 0.89	1253 / 1.20	1373 / 1.52	1490 / 1.87	1602 / 2.25	1709 / 2.65	1813 / 3.07
BI18CA / CARM	3500	1794	985 / 0.50	1118 / 0.82	1235 / 1.16	1346 / 1.51	1452 / 1.87	1556 / 2.25	1658 / 2.64	1756 / 3.05	1853 / 3.49

Performance shown is for installation Type A; Free Inlet, Free Outlet. Power Rating (BHP) does not include Drive Losses. Performance Ratings do not include the effects of appurtenances in the air stream. The Sound Ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standards 301. Values shown are for installation Type A; Free inlet fan sone levels. The AMCA Certified Ratings Sound Seal applies to Sone Ratings only.

BI-CA Performance

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance			0.00"sp	0.50"sp	1.00" sp	1.50" sp	2.00" sp	2.50" sp	3.00" sp	3.50" sp	4.00" sp
MODEL	CFM	Outlet Velocity FPM	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP
BI18CA / CARM	4000	2050	1125 / 0.75	1245 / 1.10	1350 / 1.49	1449 / 1.88	1546 / 2.29	1639 / 2.70	1731 / 3.12	1821 / 3.56	1909 / 4.02
BI18CA / CARM	4500	2307	1266 / 1.07	1374 / 1.46	1470 / 1.88	1561 / 2.33	1648 / 2.77	1733 / 3.23	1817 / 3.69	1899 / 4.16	1980 / 4.64
BI18CA / CARM	5000	2563	1406 / 1.47	1505 / 1.89	1594 / 2.36	1677 / 2.84	1757 / 3.33	1836 / 3.84	1913 / 4.34	1988 / 4.85	2063 / 5.37
BI18CA / CARM	5500	2819	1547 / 1.96	1638 / 2.41	1720 / 2.92	1798 / 3.45	1873 / 3.99	1945 / 4.53	2016 / 5.08	2086 / 5.63	2155 / 6.19
BI18CA / CARM	6000	3075	1688 / 2.54	1771 / 3.03	1848 / 3.58	1921 / 4.15	1991 / 4.72	2058 / 5.31	2125 / 5.90	2191 / 6.51	
BI18CA / CARM	6500	3332	1828 / 3.23	1906 / 3.76	1979 / 4.34	2047 / 4.95	2112 / 5.57	2176 / 6.20			
BI18CA / CARM	7000	3588	1969 / 4.03	2042 / 4.60	2110 / 5.22	2174 / 5.86					
BI18CA / CARM	7500	3844	2110 / 4.96	2178 / 5.56							
BI20CA / CARM	3750	1613	791 / 0.39	924 / 0.71	1042 / 1.05	1153 / 1.43	1261 / 1.83	1369 / 2.26	1475 / 2.70	1580 / 3.16	1684 / 3.62
BI20CA / CARM	4250	1829	897 / 0.57	1015 / 0.92	1123 / 1.30	1224 / 1.71	1322 / 2.15	1417 / 2.60	1512 / 3.08	1606 / 3.58	1699 / 4.08
BI20CA / CARM	4750	2044	1002 / 0.80	1110 / 1.19	1208 / 1.61	1301 / 2.05	1391 / 2.51	1477 / 3.00	1563 / 3.51	1648 / 4.04	1732 / 4.58
BI20CA / CARM	5250	2259	1108 / 1.08	1206 / 1.51	1297 / 1.96	1383 / 2.43	1465 / 2.93	1545 / 3.45	1624 / 3.99	1702 / 4.55	1779 / 5.12
BI20CA / CARM	5750	2474	1213 / 1.42	1303 / 1.89	1388 / 2.38	1468 / 2.88	1545 / 3.41	1620 / 3.96	1693 / 4.54	1765 / 5.12	1836 / 5.73
BI20CA / CARM	6250	2689	1319 / 1.82	1402 / 2.33	1481 / 2.85	1556 / 3.40	1628 / 3.96	1698 / 4.55	1767 / 5.15	1834 / 5.77	1901 / 6.41
BI20CA / CARM	6750	2904	1424 / 2.30	1502 / 2.84	1575 / 3.40	1646 / 3.98	1714 / 4.58	1780 / 5.20	1845 / 5.84	1908 / 6.49	
BI20CA / CARM	7250	3119	1530 / 2.84	1602 / 3.43	1671 / 4.03	1738 / 4.65	1803 / 5.28	1865 / 5.93	1927 / 6.60		
BI20CA / CARM	7750	3334	1635 / 3.47	1703 / 4.10	1769 / 4.74	1831 / 5.39	1893 / 6.06				
BI20CA / CARM	8250	3550	1741 / 4.19	1804 / 4.85	1867 / 5.53	1926 / 6.22					
BI20CA / CARM	8750	3765	1846 / 5.00	1906 / 5.70							
BI22CA / CARM	5500	1902	843 / 0.81	945 / 1.27	1039 / 1.75	1127 / 2.27	1211 / 2.82	1294 / 3.40	1375 / 4.01	1456 / 4.64	1537 / 5.29
BI22CA / CARM	6500	2248	996 / 1.34	1084 / 1.87	1166 / 2.43	1243 / 3.02	1318 / 3.63	1390 / 4.27	1460 / 4.94	1530 / 5.63	1599 / 6.34
BI22CA / CARM	7500	2594	1149 / 2.05	1226 / 2.67	1299 / 3.30	1368 / 3.96	1435 / 4.64	1500 / 5.35	1562 / 6.07	1625 / 6.83	1686 / 7.60
BI22CA / CARM	8500	2940	1302 / 2.99	1371 / 3.68	1437 / 4.40	1499 / 5.12	1560 / 5.87	1618 / 6.65	1676 / 7.44	1732 / 8.25	
BI22CA / CARM	9500	3285	1455 / 4.17	1517 / 4.94	1577 / 5.73	1634 / 6.54	1689 / 7.36	1743 / 8.21			
BI22CA / CARM	10500	3631	1608 / 5.63	1665 / 6.48	1719 / 7.35						
BI24CA / CARM	5000	1429	574 / 0.41	694 / 0.84	799 / 1.32	900 / 1.84	998 / 2.41	1095 / 3.00	1191 / 3.62	1286 / 4.24	
BI24CA / CARM	6000	1715	689 / 0.72	791 / 1.22	883 / 1.76	969 / 2.35	1053 / 2.97	1136 / 3.64	1217 / 4.33	1298 / 5.04	1378 / 5.77
BI24CA / CARM	7000	2001	803 / 1.14	893 / 1.71	974 / 2.33	1051 / 2.98	1125 / 3.67	1197 / 4.39	1268 / 5.15	1338 / 5.93	1408 / 6.74
BI24CA / CARM	8000	2287	918 / 1.69	997 / 2.35	1071 / 3.04	1140 / 3.75	1206 / 4.51	1271 / 5.29	1335 / 6.11	1397 / 6.95	1459 / 7.83
BI24CA / CARM	9000	2573	1033 / 2.41	1104 / 3.15	1170 / 3.91	1234 / 4.70	1295 / 5.52	1354 / 6.36	1411 / 7.24	1468 / 8.15	1524 / 9.08
BI24CA / CARM	10000	2859	1147 / 3.31	1212 / 4.12	1273 / 4.96	1331 / 5.82	1387 / 6.71	1442 / 7.62	1495 / 8.57	1547 / 9.53	1598 / 10.52
BI24CA / CARM	11000	3144	1262 / 4.40	1321 / 5.30	1377 / 6.21	1431 / 7.15	1483 / 8.10	1534 / 9.09	1583 / 10.10		
BI24CA / CARM	12000	3430	1377 / 5.72	1431 / 6.69	1483 / 7.69	1533 / 8.70	1582 / 9.73				
BI24CA / CARM	13000	3716	1492 / 7.27	1542 / 8.32	1590 / 9.39						
BI27CA / CARM	6000	1420	515 / 0.55	624 / 1.10	721 / 1.74	813 / 2.45	903 / 3.22	992 / 4.04	1080 / 4.90	1167 / 5.79	1252 / 6.69
BI27CA / CARM	7000	1657	600 / 0.87	696 / 1.51	782 / 2.21	864 / 2.98	942 / 3.81	1020 / 4.70	1096 / 5.63	1173 / 6.60	1248 / 7.61
BI27CA / CARM	8000	1894	686 / 1.29	772 / 2.02	849 / 2.79	922 / 3.63	993 / 4.52	1062 / 5.47	1130 / 6.47	1197 / 7.51	1264 / 8.58
BI27CA / CARM	9000	2131	772 / 1.84	849 / 2.65	919 / 3.50	986 / 4.41	1050 / 5.37	1113 / 6.38	1174 / 7.43	1235 / 8.53	1295 / 9.67
BI27CA / CARM	10000	2367	857 / 2.53	927 / 3.42	992 / 4.35	1054 / 5.33	1113 / 6.36	1171 / 7.43	1227 / 8.55	1282 / 9.71	1337 / 10.91
BI27CA / CARM	11000	2604	943 / 3.36	1007 / 4.34	1067 / 5.36	1124 / 6.41	1179 / 7.51	1233 / 8.65	1285 / 9.83	1336 / 11.05	1387 / 12.32
BI27CA / CARM	12000	2841	1029 / 4.36	1088 / 5.43	1144 / 6.53	1197 / 7.66	1249 / 8.83	1298 / 10.04	1347 / 11.29	1395 / 12.58	1442 / 13.91
BI27CA / CARM	13000	3078	1114 / 5.55	1169 / 6.70	1221 / 7.88	1271 / 9.10	1320 / 10.34	1367 / 11.63	1413 / 12.95		

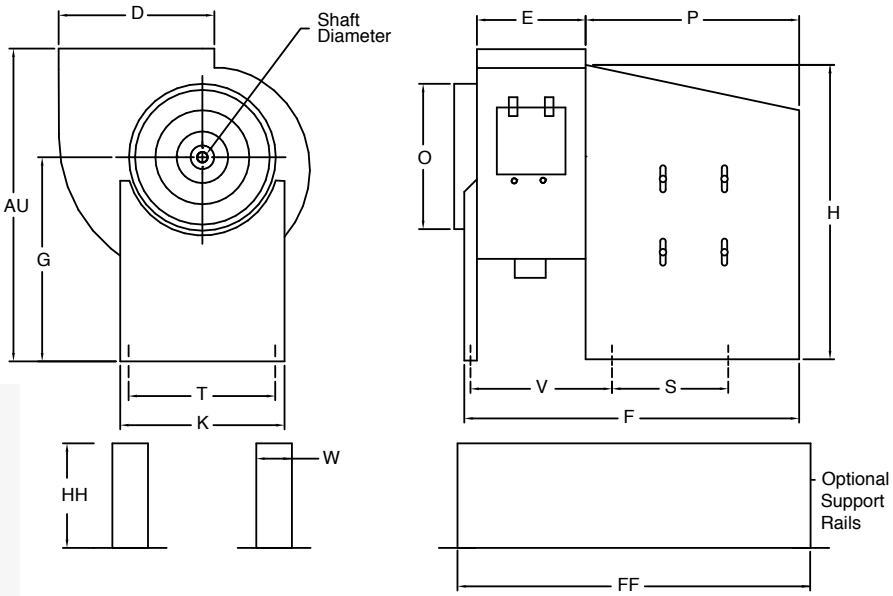
BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance			0.00"sp	0.50"sp	1.00" sp	1.50" sp	2.00" sp	2.50" sp	3.00" sp	3.50" sp	4.00" sp
MODEL	CFM	Outlet Vel. FPM	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP	RPM/BHP
BI27CA / CARM	14000	3314	1200 / 6.93	1251 / 8.17	1300 / 9.43	1347 / 10.73	1393 / 12.06	1437 / 13.41			
BI27CA / CARM	15000	3551	1286 / 8.52	1334 / 9.85	1380 / 11.20	1424 / 12.58					
BI27CA / CARM	16000	3788	1372 / 10.34	1416 / 11.76							
BI30CA / CARM	8000	1536	521 / 0.80	609 / 1.48	688 / 2.21	764 / 3.01	839 / 3.88	911 / 4.82	979 / 5.83	1045 / 6.91	1107 / 8.06
BI30CA / CARM	9000	1728	586 / 1.14	665 / 1.89	737 / 2.70	806 / 3.56	873 / 4.48	940 / 5.46	1004 / 6.50	1066 / 7.60	1126 / 8.77
BI30CA / CARM	10000	1920	651 / 1.57	724 / 2.39	789 / 3.27	852 / 4.20	913 / 5.18	974 / 6.21	1034 / 7.30	1092 / 8.44	1149 / 9.63
BI30CA / CARM	11000	2112	716 / 2.09	783 / 2.99	843 / 3.94	901 / 4.94	958 / 5.99	1014 / 7.07	1069 / 8.21	1122 / 9.37	1176 / 10.63
BI30CA / CARM	12000	2304	781 / 2.71	843 / 3.69	899 / 4.72	953 / 5.79	1005 / 6.90	1057 / 8.05	1108 / 9.25	1159 / 10.48	1208 / 11.75
BI30CA / CARM	13000	2496	846 / 3.44	904 / 4.50	957 / 5.61	1007 / 6.75	1056 / 7.93	1104 / 9.15	1151 / 10.40	1199 / 11.70	1245 / 13.03
BI30CA / CARM	14000	2688	911 / 4.30	966 / 5.44	1015 / 6.62	1062 / 7.84	1108 / 9.09	1153 / 10.37	1198 / 11.70	1242 / 13.05	1286 / 14.45
BI30CA / CARM	15000	2880	976 / 5.29	1027 / 6.51	1074 / 7.76	1119 / 9.05	1162 / 10.38	1205 / 11.74	1246 / 13.12	1288 / 14.5	
BI30CA / CARM	16000	3072	1041 / 6.42	1090 / 7.71	1134 / 9.04	1176 / 10.41	1217 / 11.81	1257 / 13.24	1297 / 14.70		
BI30CA / CARM	17000	3264	1106 / 7.70	1152 / 9.07	1194 / 10.48	1235 / 11.93	1274 / 13.40				
BI30CA / CARM	18000	3456	1171 / 9.14	1215 / 10.59	1255 / 12.08	1294 / 13.59					
BI33CA / CARM	10000	1588	489 / 1.07	567 / 1.92	637 / 2.83	705 / 3.82	770 / 4.89	834 / 6.03	895 / 7.24	954 / 8.54	1011 / 9.91
BI33CA / CARM	12000	1906	587 / 1.84	654 / 2.85	714 / 3.91	772 / 5.03	828 / 6.21	883 / 7.45	937 / 8.76	990 / 10.13	1042 / 11.56
BI33CA / CARM	14000	2223	684 / 2.92	743 / 4.09	796 / 5.31	847 / 6.57	896 / 7.88	945 / 9.24	992 / 10.66	1039 / 12.13	1086 / 13.65
BI33CA / CARM	16000	2541	782 / 4.36	835 / 5.69	882 / 7.06	928 / 8.47	972 / 9.93	1015 / 11.42	1057 / 12.96	1099 / 14.55	1141 / 16.18
BI33CA / CARM	18000	2859	880 / 6.21	927 / 7.70	970 / 9.23	1012 / 10.79	1052 / 12.39	1090 / 14.00	1129 / 15.70	1167 / 17.42	
BI33CA / CARM	20000	3176	977 / 8.51	1020 / 10.17	1060 / 11.86	1098 / 13.58	1135 / 15.33	1171 / 17.11			
BI33CA / CARM	22000	3494	1075 / 11.33	1115 / 13.15	1151 / 15.00	1186 / 16.88					
BI36CA / CARM	10000	1297	361 / 0.71	442 / 1.57	523 / 2.55	590 / 3.61	657 / 4.80				
BI36CA / CARM	12000	1556	433 / 1.23	495 / 2.21	572 / 3.37	634 / 4.56	691 / 5.82	746 / 7.18	802 / 8.66	864 / 10.31	
BI36CA / CARM	14000	1815	505 / 1.95	554 / 3.04	622 / 4.37	683 / 5.73	736 / 7.12	785 / 8.57	832 / 10.10	879 / 11.72	928 / 13.46
BI36CA / CARM	16000	2075	578 / 2.91	617 / 4.11	674 / 5.57	733 / 7.12	784 / 8.68	831 / 10.27	874 / 11.90	916 / 13.60	957 / 15.37
BI36CA / CARM	18000	2334	650 / 4.14	683 / 5.47	730 / 7.03	783 / 8.75	834 / 10.50	880 / 12.25	922 / 14.03	961 / 15.85	999 / 17.71
BI36CA / CARM	20000	2593	722 / 5.68	751 / 7.13	790 / 8.79	836 / 10.64	884 / 12.57	929 / 14.52	971 / 16.47	1009 / 18.44	1045 / 20.43
BI36CA / CARM	22000	2853	794 / 7.56	820 / 9.14	853 / 10.90	892 / 12.86	936 / 14.94	980 / 17.08	1020 / 19.22	1058 / 21.36	1094 / 23.52
BI36CA / CARM	24000	3112	866 / 9.82	890 / 11.52	918 / 13.39	952 / 15.45	991 / 17.66	1031 / 19.96	1070 / 22.2		
BI36CA / CARM	26000	939 / 12.48	960 / 14.32	985 / 16.30	1014 / 18.45	1048 / 20.76	1084 / 23.19				

Performance shown on both pages is for installation Type A; Free Inlet, Free Outlet. Power Rating (BHP) does not include Drive Losses. Performance Ratings do not include the effects of appurtenances in the air stream. The Sound Ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standards 301. Values shown are for installation Type A; Free inlet fan sone levels. The AMCA Certified Ratings Sound Seal applies to Sone Ratings only.

USI

Utility Set, Restaurant Duty



Features & Benefits

- Full AMCA CLASS 1 operation
- Vented motor cover for weather protection
- UL762 Listed for restaurant duty
- Upblast discharge directs air away from floor
- Steel sides and scroll bands are lock formed
- Easily accessible clean out door
- 1-1/2" grease drain will not clog
- Fan is moisture resistant for high humidity applications
- Shaft Seal

Options

- Heat Slinger
- Emergency Disconnect Switch
- Vibration Isolators
- VAV Package - Manual Control
- VAV Package - Static Pressure Control
- VAV Package - Pre-Set Speeds

Certifications

Models USI100 thru USI365 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.

CaptiveAire certifies that Models USI100 thru USI365 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 USI100 thru USI365 are ETL Listed under report number 3100959CRT and comply with UL705 (electrical) and UL762 Standards and CSA Std C22.2, No 113.

Dimensions

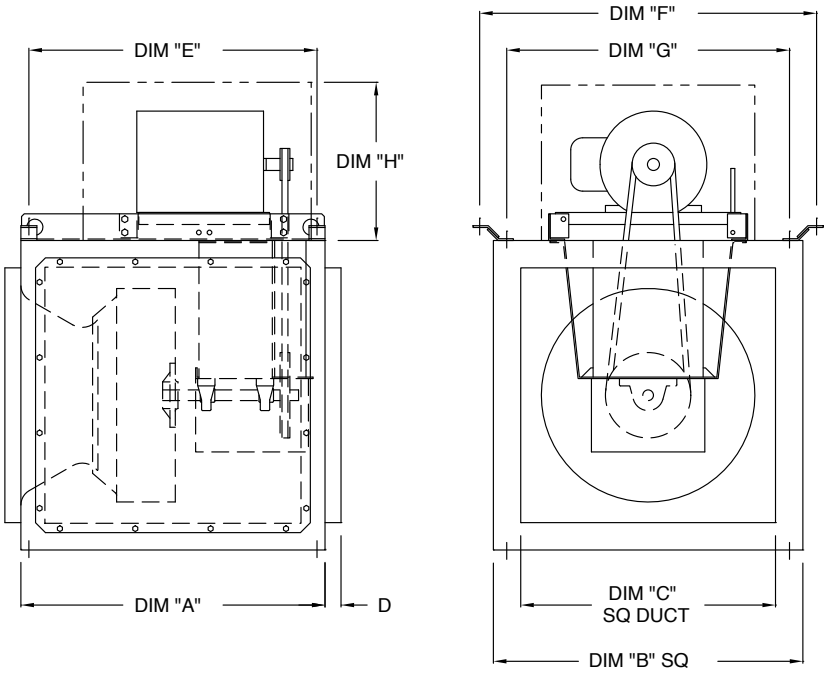
	Models								
Dim.	USI100	USI137	USI161	USI200	USI245	USI270	USI300	USI330	USI365
AU	20 11/16	27 3/8	32 1/4	38 3/4	48 9/16	46 3/8	56 5/8	58 1/2	62 3/4
D	10 9/16	14 9/16	17 3/16	21 1/4	26	28 11/16	31 13/16	35	38 3/4
E	7	10 7/8	12 3/4	15 3/4	19 1/4	21 3/18	23 1/2	25 7/8	29 5/8
F	18 15/16	25 15/16	30 1/2	37 5/8	46	50 5/8	56 1/4	61 7/8	68 3/4
G	12 1/4	16 5/8	19 5/8	23	29 3/8	25 1/2	33 1/2	33 1/2	35 1/2
H	17 7/8	23 1/2	27 1/2	33 1/2	40 15/16	43 5/8	51 5/8	51 5/8	57
K	9 1/16	12 7/8	15 1/8	15 1/2	18 1/2	18 1/2	21 3/4	21 3/4	22 3/8
O	10 1/8	15 1/8	16 7/8	21 5/16	26 3/8	30 3/16	31 11/16	36 3/16	40 3/16
P	11 7/8	14 5/8	16 5/8	19 3/16	22 3/16	22 3/16	23 15/16	23 15/16	23 15/16
S	8 15/16	12 11/16	15	17 7/8	23 11/16	24 15/16	26	28 1/2	32 1/4
T	10 1/8	14	16 5/8	19	20	20 1/16	23 1/8	23 1/8	24 1/8
V	10 3/16	12 7/8	14 1/2	16 9/16	17	18 11/16	20 3/4	20 3/4	20 3/4
HH	10	10	10	10	10	10	10	10	10
W	4	4	4	4	4	4	4	4	4
FF	36	36	36	48	48	60	60	60	60
Shaft Dia.	5/8	1	1	1	1 3/16	1 3/16	1 3/16	1 3/16	1 3/16
Weight	99	161	203	237	375	383	585	592	714

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance			Static Pressure in Inches W.G.												
MODEL	CFM	Dis. Veloc. FPM	0.000 RPM/BHP	0..250 RPM/BHP	0.500 RPM/BHP	0.750 RPM/BHP	1.000 RPM/BHP	1.250 RPM/BHP	1.500 RPM/BHP	1.750 RPM/BHP	2.000 RPM/BHP	2.250 RPM/BHP	2.500 RPM/BHP	2.750 RPM/BHP	3.000 RPM/BHP
USI100	800	1463	1739 / 0.07	1970 / 0.11	2162 / 0.15	2346 / 0.19	2532 / 0.24	2694 / 0.28	2847 / 0.32	2985 / 0.37					
USI100	1000	1829	2174 / 0.13	2375 / 0.18	2532 / 0.23	2681 / 0.29	2833 / 0.34	2976 / 0.39							
USI100	1200	2194	2609 / 0.23	2784 / 0.28	2920 / 0.34										
USI137	2000	1722	1329 / 0.22		1537 / 0.39		1730 / 0.58		1905 / 0.78		2068 / 1.00		2222 / 1.26		
USI137	2500	2153	1661 / 0.44		1827 / 0.63		1992 / 0.87		2144 / 1.10		2287 / 1.35				
USI137	3000	2584	1993 / 0.75		2132 / 0.97		2271 / 1.24								
USI137	3500	3014	2326 / 1.20												
USI161	2000	1246	776 / 0.10		1012 / 0.28		1224 / 0.49		1451 / 0.78		1672 / 1.14		1859 / 1.48		2014 / 1.80
USI161	2500	1558	970 / 0.20		1170 / 0.41		1338 / 0.64		1508 / 0.92		1688 / 1.26		1873 / 1.66		2049 / 2.11
USI161	3000	1869	1164 / 0.34		1339 / 0.60		1483 / 0.86		1622 / 1.15		1763 / 1.47		1911 / 1.85		2062 / 2.28
USI161	3500	2181	1358 / 0.54		1515 / 0.84		1643 / 1.14		1763 / 1.46		1882 / 1.80		2002 / 2.16		
USI161	4000	2492	1552 / 0.81		1693 / 1.15		1811 / 1.49		1919 / 1.84		2023 / 2.21				
USI161	4500	2804	1746 / 1.15		1875 / 1.53		1984 / 1.92		2083 / 2.31						
USI161	5000	3116	1939 / 1.58		2058 / 2.00										
USI200	3200	1308	699 / 0.22	792 / 0.35	876 / 0.50	950 / 0.66	1020 / 0.82	1091 / 1.00	1163 / 1.19	1238 / 1.41	1316 / 1.66	1395 / 1.92			
USI200	3700	1512	808 / 0.34	889 / 0.49	966 / 0.66	1034 / 0.83	1097 / 1.01	1158 / 1.20	1219 / 1.40	1280 / 1.61	1344 / 1.84				
USI200	4200	1716	917 / 0.49	988 / 0.66	1059 / 0.85	1123 / 1.05	1181 / 1.25	1237 / 1.45	1291 / 1.66	1344 / 1.87	1398 / 2.10				
USI200	4700	1921	1026 / 0.69	1089 / 0.87	1154 / 1.08	1214 / 1.30	1270 / 1.52	1322 / 1.74	1371 / 1.97						
USI200	5200	2125	1135 / 0.93	1192 / 1.13	1251 / 1.36	1308 / 1.60	1360 / 1.84								
USI200	5700	2329	1244 / 1.23	1295 / 1.44	1350 / 1.68										
USI200	6200	2533	1353 / 1.58	1400 / 1.81											
USI245	6500	1776	701 / 0.65		819 / 1.22		917 / 1.81		1010 / 2.43		1091 / 3.05		1167 / 3.68		1243 / 4.37
USI245	7500	2049	809 / 1.00		917 / 1.68		1002 / 2.32		1086 / 3.02		1165 / 3.74		1237 / 4.45		
USI245	8500	2323	917 / 1.45		1018 / 2.24		1093 / 2.95		1168 / 3.71		1242 / 4.51				
USI245	9500	2596	1025 / 2.02		1120 / 2.94		1188 / 3.72		1255 / 4.53						
USI245	10500	2869	1132 / 2.73		1224 / 3.78		1287 / 4.63								
USI245	11500	3143	1240 / 3.59												
USI270	6500	1466	572 / 0.55	626 / 0.79	683 / 1.10	738 / 1.43	791 / 1.78	846 / 2.17							
USI270	7500	1692	661 / 0.85	705 / 1.11	755 / 1.45	804 / 1.82	852 / 2.20	898 / 2.60							
USI270	8500	1918	749 / 1.23	787 / 1.52	831 / 1.88	875 / 2.29									
USI270	9500	2143	837 / 1.72	870 / 2.03											
USI300	7500	1374	468 / 0.50		595 / 1.19		689 / 1.93		791 / 2.84						
USI300	8500	1558	531 / 0.73		650 / 1.51		734 / 2.31		818 / 3.22						
USI300	9500	1741	593 / 1.02		706 / 1.90		784 / 2.76		857 / 3.71						
USI300	10500	1924	656 / 1.37		763 / 2.35		836 / 3.30								
USI300	11500	2107	718 / 1.80		821 / 2.88		891 / 3.92								
USI300	12500	2291	780 / 2.31		879 / 3.49										
USI300	13500	2474	843 / 2.91												
USI330	8000	1211	371 / 0.39	439 / 0.78	495 / 1.18	553 / 1.66	611 / 2.19	666 / 2.75							
USI330	10000	1514	464 / 0.75	523 / 1.27	568 / 1.73	613 / 2.25	659 / 2.82								
USI330	12000	1817	556 / 1.30	610 / 1.95	649 / 2.49	686 / 3.06									
USI330	14000	2120	649 / 2.06	698 / 2.86											
USI365	13000	1555	470 / 1.32	518 / 1.89	557 / 2.49	591 / 3.08	624 / 3.68	655 / 4.31	686 / 4.99						
USI365	15000	1795	542 / 2.03	585 / 2.68	621 / 3.37	653 / 4.05	683 / 4.73								
USI365	17000	2034	614 / 2.95	654 / 3.68	687 / 4.46										
USI365	19000	2273	687 / 4.12												

SIBD Belt Drive

Inline Exhaust Fan



Features & Benefits

- Two full size access doors provide easy access to the wheel, shaft, and bearings
- Wheels are backward inclined, non-overloading
- Variable pitch motor pulley allows for field adjustment and system balancing
- Thermal overload protection (single phase)
- Motor cover
- Aluminum wheels
- Housing is galvanized steel construction
- Disconnect Switch Standard
- Side discharge option as standard - simply re-locate the side panel to the discharge
- Units can be installed at a 90 degree rotation

Options

- Floor Vibration Isolators
- Ceiling Vibration Isolators
- Back Draft Dampers
- Motorized Back Draft Dampers

Certifications

Models SIBD080A thru SIBD402A and Models SIBD120AHP thru SIBD402AHP 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.

CaptiveAire certifies that Models SIBD080A thru SIBD402A and Models SIBD120AHP thru SIBD402AHP 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 SIBD080A thru SIBD402A and Models SIBD120AHP thru SIBD402AHP are ETL Listed under report number 3100959CRT and comply with UL705 and CSA C22.2, No. 113 Standards.

Measurements

MODEL	A	B	C	D	E	F	G	H	Weight (lbs)
SIBD080A	19	15 5/6	11 7/8	1	16 1/2	19 1/2	13 9/16	12	93
SIBD090A	19	15 5/6	11 7/8	1	16 1/2	19 1/2	13 9/16	12	96
SIBD100A	20 1/2	17 13/16	13 7/8	1	19	21 1/16	16	12	106
SIBD120A/HP	21 1/2	19 3/8	15 7/8	1	20	22 1/16	17	12	127
SIBD135A/HP	23	21 9/16	17 7/8	1	21 1/2	24 1/4	19 3/16	12 3/4	132
SIBD150A/HP	24	23 13/16	19 7/8	1	22 1/2	26 3/8	21 5/16	12 3/4	157
SIBD165A/HP	26	26 1/2	22 7/8	1	24 1/2	29 1/16	24	14 9/16	167
SIBD180A/HP	28 1/2	29	23 7/8	1 1/2	27	31 9/16	26 1/2	16 1/4	193
SIBD210A/HP	32	32 5/16	27 7/8	1 1/2	30 1/2	35 1/16	30	16 1/4	223
SIBD225A/HP	34	34	29 7/8	1 1/2	32 1/2	36 7/8	21 13/16	18 1/2	287
SIBD245A/HP	36 1/2	37 1/2	32 7/8	1 1/2	35	40 3/8	35 5/16	18 1/2	352
SIBD270A/HP	39	40 1/8	35 7/8	1 1/2	37 1/2	43	37 7/8	18 1/2	394
SIBD300A/HP	41 1/2	40 1/8	39 7/8	1 1/2	39 1/2	46 15/16	41 7/8	20	442
SIBD330A/HP	45 1/2	48 13/16	43 7/8	1 1/2	43 1/2	51 5/8	46 9/16	20	554
SIBD365A/HP	48 1/2	50 1/8	45 7/8	1 1/2	46 1/2	52 3/4	47 7/8	20	665
SIBD402A/HP	52	55 1/4	51 7/8	1 1/2	50	58 3/16	53 1/8	20	743

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance	**Static Pressue in Inches W.G.**														
Model	CFM	0.000 RPM/BHP	0.250 RPM/BHP	0.500 RPM/BHP	0.750 RPM/BHP	1.000 RPM/BHP	1.250 RPM/BHP	1.500 RPM/BHP	1.750 RPM/BHP	2.000 RPM/BHP	2.250 RPM/BHP	2.500 RPM/BHP	2.750 RPM/BHP	3.000 RPM/BHP	3.250 RPM/BHP
SIBD080A	400	1058 / 0.02	1333 / 0.05	1544 / 0.08	1732 / 0.11	1914 / 0.15	2083 / 0.19	2235 / 0.23	2381 / 0.28	2532 / 0.33	2667 / 0.38	2797 / 0.43			
SIBD080A	500	1319 / 0.05	1558 / 0.08	1742 / 0.12	1908 / 0.15	2066 / 0.19	2212 / 0.24	2347 / 0.28	2488 / 0.33	2618 / 0.38	2747 / 0.43				
SIBD080A	600	1583 / 0.08	1791 / 0.12	1961 / 0.16	2105 / 0.21	2247 / 0.25	2381 / 0.30	2510 / 0.35	2632 / 0.40	2752 / 0.45					
SIBD080A	700	1847 / 0.13	2029 / 0.17	2188 / 0.23	2326 / 0.28	2448 / 0.32	2574 / 0.38	2692 / 0.43	2800 / 0.49						
SIBD080A	800	2111 / 0.19	2279 / 0.25	2417 / 0.30	2508 / 0.34	2667 / 0.42	2778 / 0.47								
SIBD080A	900	2375 / 0.27	2528 / 0.33	2655 / 0.39	2778 / 0.46										
SIBD080A	1000	2639 / 0.37	2778 / 0.44												
SIBD090A	800	1447 / 0.08	1616 / 0.12	1770 / 0.17	1918 / 0.22	2057 / 0.27	2192 / 0.33	2319 / 0.39	2446 / 0.46						
SIBD090A	900	1627 / 0.12	1779 / 0.16	1923 / 0.21	2055 / 0.27	2184 / 0.32	2308 / 0.38	2426 / 0.45							
SIBD090A	1000	1808 / 0.16	1946 / 0.21	2075 / 0.26	2198 / 0.32	2320 / 0.38	2433 / 0.45								
SIBD090A	1100	1989 / 0.21	2115 / 0.27	2236 / 0.33	2350 / 0.39	2461 / 0.45									
SIBD090A	1200	2170 / 0.28	2286 / 0.34	2390 / 0.40											
SIBD090A	1300	2351 / 0.35	2457 / 0.42												
SIBD100A	1000	1138 / 0.09	1295 / 0.14	1437 / 0.20	1570 / 0.26	1698 / 0.34	1818 / 0.41	1938 / 0.49	2049 / 0.57	2160 / 0.66	2268 / 0.76	2375 / 0.86	2475 / 0.95		
SIBD100A	1200	1365 / 0.15	1500 / 0.21	1624 / 0.28	1739 / 0.35	1849 / 0.43	1958 / 0.51	2062 / 0.60	2162 / 0.69	2260 / 0.78	2358 / 0.88	2454 / 0.99			
SIBD100A	1400	1593 / 0.23	1709 / 0.31	1818 / 0.39	1923 / 0.47	2020 / 0.55	2118 / 0.64	2208 / 0.73	2299 / 0.83	2389 / 0.93					
SIBD100A	1600	1820 / 0.35	1923 / 0.43	2020 / 0.52	2114 / 0.61	2204 / 0.71	2289 / 0.80	2374 / 0.90							
SIBD100A	1800	2048 / 0.50	2140 / 0.59	2228 / 0.69	2314 / 0.79	2394 / 0.89	2473 / 1.00								
SIBD100A	2000	2275 / 0.68	2358 / 0.79	2439 / 0.89											
SIBD120A	1400	1154 / 0.16	1273 / 0.24	1377 / 0.31	1481 / 0.40	1589 / 0.49	1693 / 0.58	1795 / 0.69	1889 / 0.80	1983 / 0.92	2074 / 1.05				
SIBD120A	1700	1401 / 0.29	1504 / 0.38	1590 / 0.47	1675 / 0.57	1762 / 0.67	1850 / 0.77	1938 / 0.89	2026 / 1.00	2109 / 1.13	2191 / 1.26	2270 / 1.40			
SIBD120A	2000	1647 / 0.47	1741 / 0.58	1817 / 0.68	1889 / 0.79	1961 / 0.91	2033 / 1.02	2107 / 1.14	2183 / 1.27	2257 / 1.40					
SIBD120A	2300	1895 / 0.71	1979 / 0.84	2046 / 0.96	2110 / 1.08	2174 / 1.21	2235 / 1.34	2298 / 1.47							
SIBD120A	2600	2142 / 1.03	2218 / 1.17	2281 / 1.31											
SIBD120HP	1200	1354 / 0.18	1467 / 0.24	1575 / 0.32	1678 / 0.39	1778 / 0.47	1875 / 0.56	1970 / 0.64	2065 / 0.73	2154 / 0.82	2243 / 0.92	2330 / 1.01	2410 / 1.10	2495 / 1.20	2570 / 1.29
SIBD120HP	1400	1580 / 0.29	1679 / 0.36	1772 / 0.44	1862 / 0.53	1950 / 0.62	2038 / 0.71	2121 / 0.81	2205 / 0.90	2288 / 1.01	2369 / 1.11	2443 / 1.21	2523 / 1.32	2597 / 1.43	
SIBD120HP	1600	1806 / 0.43	1891 / 0.51	1975 / 0.60	2057 / 0.70	2133 / 0.79	2213 / 0.90	2289 / 1.00	2363 / 1.11	2435 / 1.22	2512 / 1.34	2581 / 1.45			
SIBD120HP	1800	2032 / 0.61	2108 / 0.70	2182 / 0.80	2256 / 0.90	2326 / 1.01	2397 / 1.12	2466 / 1.24	2535 / 1.36						
SIBD120HP	2000	2257 / 0.84	2326 / 0.94	2395 / 1.05	2460 / 1.16	2525 / 1.27	2587 / 1.39								
SIBD120HP	2200	2483 / 1.12	2546 / 1.23												
SIBD135A	1500	903 / 0.13	1022 / 0.21	1130 / 0.30	1238 / 0.39	1345 / 0.50	1449 / 0.61	1553 / 0.74	1652 / 0.88	1746 / 1.02	1840 / 1.17				
SIBD135A	1800	1083 / 0.23	1185 / 0.32	1278 / 0.42	1368 / 0.53	1456 / 0.64	1546 / 0.76	1635 / 0.89	1722 / 1.03	1809 / 1.18	1893 / 1.34				
SIBD135A	2100	1264 / 0.36	1353 / 0.47	1433 / 0.58	1512 / 0.70	1589 / 0.82	1665 / 0.95	1743 / 1.09	1818 / 1.24	1895 / 1.39					
SIBD135A	2400	1444 / 0.54	1524 / 0.66	1596 / 0.79	1666 / 0.92	1733 / 1.06	1800 / 1.20	1868 / 1.34							
SIBD135A	2700	1624 / 0.76	1696 / 0.91	1762 / 1.05	1824 / 1.19	1885 / 1.34									
SIBD135A	3000	1804 / 1.04	1870 / 1.21												
SIBD150A	2150	972 / 0.26	1065 / 0.38	1150 / 0.50	1234 / 0.62	1316 / 0.76	1398 / 0.91	1479 / 1.07	1559 / 1.24	1637 / 1.41	1715 / 1.60				
SIBD150A	2500	1130 / 0.41	1212 / 0.55	1287 / 0.68	1359 / 0.82	1430 / 0.97	1501 / 1.13	1571 / 1.29	1641 / 1.47	1711 / 1.66	1781 / 1.85				
SIBD150A	2850	1288 / 0.61	1361 / 0.77	1428 / 0.92	1492 / 1.07	1556 / 1.24	1617 / 1.40	1680 / 1.58	1742 / 1.77	1804 / 1.96					
SIBD150A	3200	1445 / 0.87	1512 / 1.04	1572 / 1.21	1631 / 1.38	1688 / 1.56	1744 / 1.74	1800 / 1.93							
SIBD150A	3550	1604 / 1.18	1664 / 1.37	1720 / 1.56	1773 / 1.75	1825 / 1.95									
SIBD150A	3900	1762 / 1.57	1817 / 1.78												
SIBD150AHP	1600	989 / 0.19	1092 / 0.28	1190 / 0.38	1282 / 0.48	1372 / 0.60	1459 / 0.72	1541 / 0.84	1623 / 0.96	1702 / 1.09	1778 / 1.21	1852 / 1.34	1925 / 1.46	1995 / 1.59	2062 / 1.72
SIBD150AHP	1800	1113 / 0.28	1205 / 0.38	1291 / 0.48	1377 / 0.59	1459 / 0.71	1538 / 0.84	1616 / 0.98	1690 / 1.11	1765 / 1.25	1837 / 1.39	1907 / 1.53	1974 / 1.67	2041 / 1.81	
SIBD150AHP	2000	1237 / 0.38	1319 / 0.49	1400 / 0.60	1477 / 0.72	1553 / 0.85	1626 / 0.98	1698 / 1.13	1767 / 1.28	1835 / 1.43	1903 / 1.58	1969 / 1.74	2033 / 1.89		
SIBD150AHP	2200	1360 / 0.50	1436 / 0.63	1510 / 0.75	1580 / 0.87	1650 / 1.01	1719 / 1.15	1786 / 1.30	1850 / 1.46	1915 / 1.62	1977 / 1.79	2039 / 1.96			
SIBD150AHP	2400	1483 / 0.65	1553 / 0.79	1622 / 0.92	1688 / 1.05	1752 / 1.19	1815 / 1.34	1878 / 1.50	1939 / 1.67	1998 / 1.83					
SIBD150AHP	2600	1607 / 0.83	1672 / 0.98	1734 / 1.12	1797 / 1.26	1857 / 1.41	1916 / 1.57	1974 / 1.73	2031 / 1.90						
SIBD150AHP	2800	1731 / 1.04	1790 / 1.19	1849 / 1.35	1907 / 1.50	1964 / 1.66	2020 / 1.83	2074 / 1.99							
SIBD150AHP	3000	1854 / 1.27	1911 / 1.45	1966 / 1.61	2020 / 1.78	2073 / 1.94									
SIBD150AHP	3200	1978 / 1.55	2030 / 1.73	2082 / 1.91											
SIBD165A	2550	836 / 0.26	913 / 0.38	989 / 0.50	1073 / 0.64	1158 / 0.81	1237 / 0.98	1309 / 1.15	1377 / 1.32	1442 / 1.50					
SIBD165A	2975	976 / 0.41	1042 / 0.55	1106 / 0.69	1174 / 0.84	1246 / 1.01	1319 / 1.19	1390 / 1.39	1455 / 1.59	1517 / 1.79	1576 / 1.99				
SIBD165A	3400	1115 / 0.61	1174 / 0.77	1229 / 0.93	1286 / 1.09	1346 / 1.27	1409 / 1.46	1474 / 1.67	1537 / 1.89	1598 / 2.11	1655 / 2.34				
SIBD165A	3825	1255 / 0.87	1307 / 1.05	1356 / 1.23	1406 / 1.40	1457 / 1.59	1511 / 1.79	1567 / 2.00	1624 / 2.23	1681 / 2.47	1737 / 2.72				
SIBD165A	4250	1393 / 1.19	1442 / 1.40	1487 / 1.59	1530 / 1.78	1576 / 1.99	1622 / 2.19	1670 / 2.41	1720 / 2.65	1771 / 2.90					
SIBD165A	4675	1533 / 1.59	1577 / 1.82	1618 / 2.03	1658 / 2.24	1699 / 2.46	1740 / 2.68	1782 / 2.91							
SIBD165A	5100	1672 / 2.06	1713 / 2.31	1751 / 2.55	1788 / 2.78										

SIBD Performance

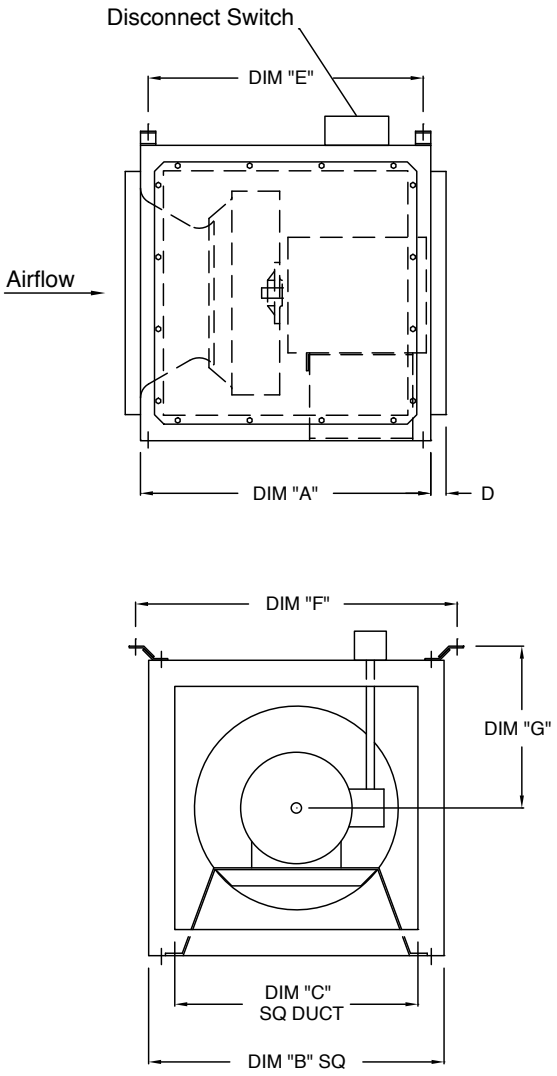
Performance		Static Pressue in Inches W.G.														
Model	CFM	0.000 RPM/BHP	0.250 RPM/BHP	0.500 RPM/BHP	0.750 RPM/BHP	1.000 RPM/BHP	1.250 RPM/BHP	1.500 RPM/BHP	1.750 RPM/BHP	2.000 RPM/BHP	2.250 RPM/BHP	2.500 RPM/BHP	2.750 RPM/BHP	3.000 RPM/BHP	3.250 RPM/BHP	3.500 RPM/BHP
SIBD165AHP	2600	1081 / 0.38	1155 / 0.52	1230 / 0.66	1303 / 0.80	1372 / 0.94	1437 / 1.09	1500 / 1.25	1562 / 1.41	1621 / 1.58	1679 / 1.75	1736 / 1.93	1792 / 2.11	1847 / 2.30	1901 / 2.49	1955 / 2.69
SIBD165AHP	3000	1247 / 0.59	1311 / 0.74	1377 / 0.90	1441 / 1.06	1504 / 1.23	1563 / 1.39	1622 / 1.57	1678 / 1.74	1731 / 1.92	1785 / 2.11	1837 / 2.30	1888 / 2.49	1937 / 2.69	1988 / 2.90	
SIBD165AHP	3400	1413 / 0.86	1469 / 1.03	1527 / 1.21	1585 / 1.39	1642 / 1.57	1697 / 1.76	1750 / 1.95	1802 / 2.14	1853 / 2.34	1902 / 2.54	1950 / 2.74	1996 / 2.95			
SIBD165AHP	3800	1579 / 1.20	1630 / 1.39	1681 / 1.59	1733 / 1.79	1785 / 2.00	1835 / 2.20	1884 / 2.40	1933 / 2.62	1979 / 2.83						
SIBD165AHP	4200	1746 / 1.62	1791 / 1.84	1837 / 2.05	1884 / 2.27	1931 / 2.49	1977 / 2.72									
SIBD165AHP	4600	1912 / 2.13	1953 / 2.36	1996 / 2.60												
SIBD180A	2800	698 / 0.24	773 / 0.37	852 / 0.51	937 / 0.68	1019 / 0.86	1091 / 1.05	1158 / 1.24								
SIBD180A	3400	847 / 0.42	910 / 0.58	972 / 0.74	1038 / 0.92	1108 / 1.12	1178 / 1.34	1243 / 1.57	1304 / 1.80	1361 / 2.03	1415 / 2.26					
SIBD180A	4000	997 / 0.69	1051 / 0.88	1103 / 1.06	1156 / 1.25	1208 / 1.45	1272 / 1.70	1332 / 1.95	1390 / 2.20	1446 / 2.47	1499 / 2.74					
SIBD180A	4600	1146 / 1.05	1194 / 1.27	1239 / 1.48	1284 / 1.69	1331 / 1.91	1380 / 2.15	1431 / 2.41	1483 / 2.69	1535 / 2.98						
SIBD180A	5200	1296 / 1.51	1339 / 1.76	1379 / 2.00	1418 / 2.24	1459 / 2.48	1500 / 2.74	1543 / 3.00								
SIBD180A	5800	1445 / 2.10	1484 / 2.38	1521 / 2.65												
SIBD180AHP	3200	1011 / 0.50	1077 / 0.66	1144 / 0.83	1209 / 1.00	1270 / 1.18	1329 / 1.36	1386 / 1.56	1441 / 1.75	1495 / 1.96	1547 / 2.17	1598 / 2.38	1649 / 2.61	1698 / 2.83		
SIBD180AHP	3700	1169 / 0.77	1225 / 0.96	1284 / 1.15	1342 / 1.35	1397 / 1.55	1451 / 1.75	1502 / 1.96	1553 / 2.18	1602 / 2.40	1650 / 2.63	1696 / 2.86				
SIBD180AHP	4200	1326 / 1.12	1377 / 1.34	1428 / 1.56	1479 / 1.78	1529 / 2.00	1578 / 2.23	1626 / 2.46	1673 / 2.70	1718 / 2.94						
SIBD180AHP	4700	1484 / 1.58	1528 / 1.81	1575 / 2.06	1621 / 2.31	1666 / 2.55	1711 / 2.80									
SIBD180AHP	5200	1642 / 2.13	1682 / 2.40	1724 / 2.67												
SIBD210A	3300	597 / 0.25	668 / 0.41	746 / 0.58	822 / 0.78	895 / 1.00	964 / 1.23	1032 / 1.47	1099 / 1.72	1164 / 1.99	1228 / 2.26					
SIBD210A	3950	715 / 0.43	773 / 0.61	837 / 0.81	902 / 1.03	966 / 1.26	1027 / 1.52	1087 / 1.78	1145 / 2.06	1202 / 2.35	1258 / 2.64					
SIBD210A	4600	832 / 0.69	881 / 0.89	935 / 1.11	991 / 1.35	1047 / 1.60	1102 / 1.88	1155 / 2.16	1207 / 2.46	1259 / 2.77						
SIBD210A	5250	950 / 1.02	992 / 1.25	1038 / 1.50	1086 / 1.76	1135 / 2.03	1184 / 2.32	1233 / 2.63	1280 / 2.95							
SIBD210A	5900	1067 / 1.44	1104 / 1.71	1145 / 1.98	1187 / 2.26	1230 / 2.56	1274 / 2.87									
SIBD210A	6550	1185 / 1.98	1218 / 2.27	1253 / 2.56	1291 / 2.87											
SIBD210AHP	3150	723 / 0.31	798 / 0.47	871 / 0.64	939 / 0.82	1003 / 1.00	1063 / 1.20	1122 / 1.41	1180 / 1.63	1235 / 1.85	1290 / 2.09	1344 / 2.33	1395 / 2.58	1448 / 2.85		
SIBD210AHP	3650	837 / 0.48	902 / 0.67	967 / 0.86	1028 / 1.06	1086 / 1.26	1142 / 1.48	1195 / 1.70	1247 / 1.93	1298 / 2.18	1347 / 2.43	1396 / 2.68	1444 / 2.95			
SIBD210AHP	4150	952 / 0.71	1009 / 0.92	1067 / 1.14	1122 / 1.36	1175 / 1.59	1226 / 1.82	1276 / 2.06	1323 / 2.31	1370 / 2.57	1415 / 2.83					
SIBD210AHP	4650	1067 / 1.00	1117 / 1.24	1169 / 1.48	1220 / 1.72	1268 / 1.97	1316 / 2.23	1362 / 2.49	1406 / 2.75							
SIBD210AHP	5150	1181 / 1.35	1227 / 1.62	1273 / 1.89	1320 / 2.16	1365 / 2.43	1409 / 2.71									
SIBD210AHP	5650	1296 / 1.79	1338 / 2.08	1380 / 2.37	1422 / 2.67											
SIBD210AHP	6150	1410 / 2.31	1449 / 2.62													
SIBD225A	4700	558 / 0.36	631 / 0.59	702 / 0.85	770 / 1.12	834 / 1.42	895 / 1.73	955 / 2.06								
SIBD225A	5700	677 / 0.64	737 / 0.91	797 / 1.21	855 / 1.53	911 / 1.86	965 / 2.21	1017 / 2.57	1068 / 2.95	1118 / 3.33	1167 / 3.74					
SIBD225A	6700	795 / 1.04	847 / 1.36	898 / 1.70	948 / 2.05	998 / 2.42	1046 / 2.81	1093 / 3.21	1138 / 3.63	1183 / 4.05	1227 / 4.49					
SIBD225A	7700	914 / 1.58	959 / 1.94	1004 /	1048 /	1092 / 3.13	1135 / 3.56	1177 / 4.00	1218 / 4.45	1259 / 4.92						
SIBD225A	8700	1032 / 2.27	1073 /	1113 /	1152 /	1191 / 3.99	1229 / 4.46	1267 / 4.94								
SIBD225A	9700	1151 / 3.15	1187 /	1223 /	1259 /											
SIBD225A		1270 / 4.23														
SIBD225AHP	4500	763 / 0.63	819 / 0.82	874 / 1.05	929 / 1.29	984 / 1.56	1037 / 1.84	1089 / 2.13	1140 / 2.42	1188 / 2.73	1235 / 3.04	1281 / 3.36	1324 / 3.69	1367 / 4.02	1408 / 4.37	1449 / 4.71
SIBD225AHP	5400	916 / 1.08	963 / 1.31	1009 /	1055 /	1100 / 2.14	1146 / 2.45	1191 / 2.77	1236 / 3.11	1280 / 3.45	1323 / 3.80	1364 / 4.16	1405 / 4.53	1445 / 4.90		
SIBD225AHP	6300	1068 / 1.72	1109 /	1149 /	1188 /	1227 / 2.90	1266 / 3.24	1305 / 3.59	1344 / 3.96	1383 / 4.34	1421 / 4.72					
SIBD225AHP	7200	1221 / 2.56	1257 /	1291 /	1326 /	1360 / 3.87	1395 / 4.24	1429 / 4.62								
SIBD225AHP	8100	1374 / 3.65	1405 / 3.98	1436 / 4.33	1467 / 4.70											
SIBD245A	5200	483 / 0.38	544 / 0.64	603 / 0.90	669 / 1.24	729 / 1.58	782 / 1.91	831 / 2.23								
SIBD245A	6800	631 / 0.86	682 / 1.22	724 / 1.52	769 / 1.85	818 / 2.26	868 / 2.71	916 / 3.16	960 / 3.61	1001 / 4.04	1039 / 4.45					
SIBD245A	8400	779 / 1.62	824 / 2.10	859 / 2.47	893 / 2.84	928 / 3.24	966 / 3.69	1006 / 4.20	1047 / 4.74	1087 / 5.31	1126 / 5.88					
SIBD245A	10000	927 / 2.73	968 / 3.34	998 / 3.80	1027 / 4.24	1055 / 4.67	1084 / 5.14	1115 / 5.64	1147 / 6.18	1180 / 6.77	1215 / 7.40					
SIBD245A	11600	1076 / 4.25	1113 / 5.02	1140 / 5.58	1166 / 6.09	1190 / 6.59	1215 / 7.10									
SIBD245A	13200	1224 / 6.26														
SIBD245AHP	5300	689 / 0.70	743 / 0.98	793 / 1.26	840 / 1.54	884 / 1.84	926 / 2.14	968 / 2.46	1009 / 2.79	1050 / 3.14	1091 / 3.50	1131 / 3.87	1170 / 4.26	1209 / 4.65		
SIBD245AHP	6300	819 / 1.18	865 / 1.50	909 / 1.84	950 / 2.17	989 / 2.51	1027 / 2.85	1063 / 3.21	1099 / 3.57	1134 / 3.94	1169 / 4.33	1203 / 4.73	1238 / 5.14	1272 / 5.56	1306 / 6.00	1340 / 6.44
SIBD245AHP	7300	949 / 1.83	989 / 2.21	1028 / 2.59	1065 / 2.98	1100 / 3.37	1134 / 3.76	1167 / 4.15	1199 / 4.55	1230 / 4.96	1261 / 5.38	1292 / 5.81	1322 / 6.25	1352 / 6.69	1382 / 7.16	
SIBD245AHP	8300	1079 / 2.69	1114 / 3.12	1149 / 3.56	1182 / 3.99	1214 / 4.43	1245 / 4.87	1276 / 5.32	1305 / 5.76	1334 / 6.21	1362 / 6.67	1389 / 7.13				
SIBD245AHP	9300	1209 / 3.78	1240 / 4.26	1271 / 4.75	1302 / 5.24	1331 / 5.73	1360 / 6.23	1388 / 6.72	1415 / 7.22							
SIBD245AHP	10300	1338 / 5.13	1367 / 5.67	1395 / 6.21	1423 / 6.75											
SIBD270A	6200	409 / 0.42	470 / 0.72	532 / 1.08	589 / 1.45	642 / 1.85	694 / 2.28	746 / 2.75	798 / 3.24							
SIBD270A	8050	531 / 0.92	576 / 1.28	626 / 1.72	674 / 2.18	719 / 2.66	762 / 3.15	803 / 3.66	844 / 4.19	884 / 4.75	924 / 5.33					
SIBD270A	9900	653 / 1.70	688 / 2.13	728 / 2.64	769 / 3.19	808 / 3.75	846 / 4.33	883 / 4.91	918 / 5.51	952 / 6.12	986 / 6.75					

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

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) includes drive 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. Values shown are for Installation Type B: free inlet fan sone levels. Ratings do not include the effect of duct end correction.

SIDD Direct Drive Inline

Inline Exhaust Fan



Features & Benefits

- Two full size access doors provide easy access to the wheel and motor
- Wheels are backward inclined, non-overloading
- Speed Control allows for field adjustment and system balancing
- Thermal overload protection (single phase)
- Aluminum wheels
- Housing is galvanized steel construction
- Disconnect Switch Standard
- Side discharge option as standard - simply re-locate the side panel to the discharge

Options

- Floor Vibration Isolators
- Ceiling Vibration Isolators
- Back Draft Dampers
- Motorized Back Draft Dampers

Certifications

Models SIDD080A thru SIDD165A 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.

CaptiveAire certifies that Models SIDD080A thru SIDD165A 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 SIDD080A thru SIDD165A are ETL Listed under report number 3100959CRT and comply with UL705 and CSA C22.2, No. 113 Standards.

Measurements

MODEL	A	B	C	D	E	F	G	Weight (lbs)
SIDD080A	19	15 5/16	11 7/8	1	16 1/2	19 1/2	8 5/8	93
SIDD090A	19	15 5/16	11 7/8	1	16 1/2	19 1/2	8 5/8	96
SIDD100A	20 1/2	17 13/16	13 7/8	1	19	21 1/16	10 3/8	106
SIDD120A	21 1/2	19 3/8	15 7/8	1	20	22 1/16	11 1/8	127
SIDD135AN	23	21 9/16	17 7/8	1	21 1/2	24 1/4	12 3/16	132
SIDD150A	24	23 13/16	19 7/8	1	22 1/2	26 3/8	13 1/4	157
SIDD165A	26	26 1/2	22 7/8	1	24 1/2	29 1/16	14 5/8	167

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

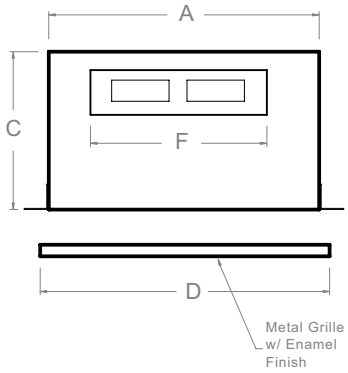
Performance	Static Pressue in Inches W.G.									
Model	CFM	0.000 RPM/BHP	0.125 RPM/BHP	0.250 RPM/BHP	0.375 RPM/BHP	0.500 RPM/BHP	0.625 RPM/BHP	.0750 RPM/BHP	0.875 RPM/BHP	1.00 RPM/BHP	1.250 RPM/BHP
SIDD080A	426	1136 / 0.04	1264 / 0.06	1379 / 0.07	1490 / 0.09	1590 / 0.11					
SIDD080A	476	1269 / 0.06	1384 / 0.07	1492 / 0.09	1592 / 0.11						
SIDD080A	526	1399 / 0.08	1507 / 0.10	1609 / 0.12							
SIDD080A	576	1532 / 0.10	1632 / 0.12								
SIDD090A	650	1132 / 0.04	1252 / 0.06	1360 / 0.07	1457 / 0.09	1551 / 0.10	1637 / 0.12				
SIDD090A	700	1220 / 0.05	1331 / 0.07	1431 / 0.08	1525 / 0.10	1613 / 0.12					
SIDD090A	750	1304 / 0.06	1412 / 0.08	1506 / 0.10	1596 / 0.11						
SIDD090A	800	1391 / 0.08	1493 / 0.09	1584 / 0.11							
SIDD090A	850	1478 / 0.09	1574 / 0.11								
SIDD090A	900	1565 / 0.11									
SIDD100A	1200	1316 / 0.15	1392 / 0.18	1465 / 0.21	1533 / 0.24	1598 / 0.27	1660 / 0.31	1719 / 0.34			
SIDD100A	1400	1533 / 0.24	1602 / 0.28	1665 / 0.31	1726 / 0.34						
SIDD120A	1600	1314 / 0.32		1408 / 0.39		1501 / 0.47		1592 / 0.56		1684 / 0.66	
SIDD120A	1800	1478 / 0.45		1562 / 0.53		1645 / 0.62		1726 / 0.71			
SIDD120A	2000	1642 / 0.62		1720 / 0.71							
SIDD135AN	1550	1281 / 0.29		1384 / 0.37		1482 / 0.46		1574 / 0.55		1661 / 0.64	1747 / 0.75
SIDD135AN	1750	1446 / 0.42		1538 / 0.51		1626 / 0.60		1709 / 0.70			
SIDD135AN	1950	1612 / 0.59		1694 / 0.68							
SIDD150A	1800	810 / 0.17	861 / 0.21	911 / 0.24	961 / 0.28	1011 / 0.33	1061 / 0.38	1112 / 0.44			
SIDD150A	2000	900 / 0.23	946 / 0.27	992 / 0.31	1036 / 0.36	1081 / 0.41	1126 / 0.46				
SIDD150A	2200	990 / 0.31	1032 / 0.35	1074 / 0.40	1114 / 0.44	1155 / 0.49					
SIDD150A	2400	1080 / 0.40	1118 / 0.45	1157 / 0.50							
SIDD165A	2600	773 / 0.30	838 / 0.38	886 / 0.45	931 / 0.52	975 / 0.59	1019 / 0.68	1063 / 0.77	1107 / 0.87	1150 / 0.97	

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) includes drive 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. Values shown are for Installation Type B: free inlet fan sone levels. Ratings do not include the effect of duct end correction.

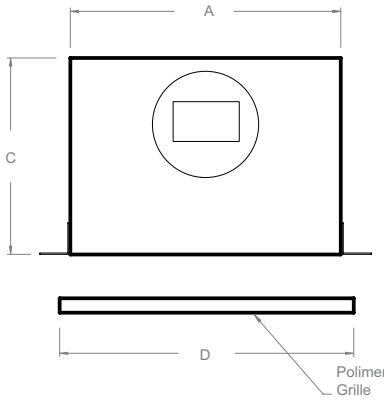
CFA-CA Ceiling and Inline

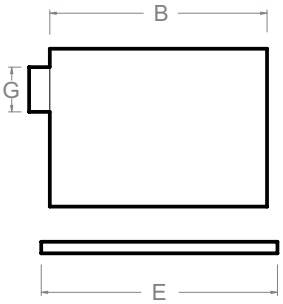
Centrifugal Ceiling Fan

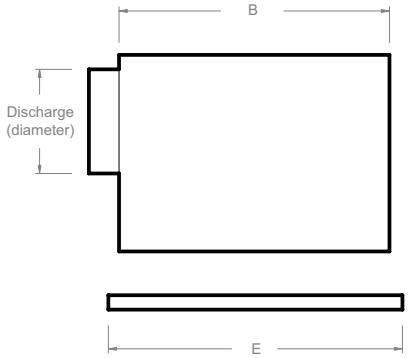
CFA400CA to CFA1500CA



CFA100CA to CFA300CA







Features & Benefits

- Extremely quiet operation
- Acoustically insulated housing
- Integral back draft damper
- Easily removable blower damper
- Resilient anti-vibration mounts isolate motor for smooth operation
- Thermally protected fan motor
- 120v, 240v, and 277v available
- Integral plug type disconnect
- Can be ceiling or wall mounted

Options

- Variable speed control
- Time delay switch
- Inline kit
- UL rated radiation damper
- Square to round discharge transition (see models 400 and larger)
- Metal grille (standard on size 400 and larger)
- Brick vents
- Roof and wall caps

Certifications

CaptiveAire certifies that Models CFA100CA thru CFA1500CA shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests & procedures preformed in accordance with AMCA Publication 211 and Publication 311, and comply with the requirements of the AMCA Certified Ratings Program.

UL Listed for use over bathtubs and showers when connected to a GFCI – protected branch circuit.

Measurements

MODEL	A	B	C	D	E	F	G	Discharge (dia.)	Weight (lbs)
CFA100CA	12 1/4	12 1/4	11 3/4	14	14	-	-	6	23
CFA150CA	12 1/4	12 1/4	11 3/4	14	14	-	-	6	23
CFA200CA	12 1/4	12 1/4	11 3/4	14	14	-	-	8	23
CFA250CA	12 1/4	12 1/4	11 3/4	14	14	-	-	8	23
CFA300CA	12 1/4	12 1/4	11 3/4	14	14	-	-	8	24
CFA400CA	21 1/2	12 1/4	11 3/4	23 1/4	14	18 1/2	4 1/2	-	34
CFA500CA	21 1/2	12 1/4	11 3/4	23 1/4	14	18 1/2	4 1/2	-	34
CFA700CA	21 1/2	12 1/4	11 3/4	23 1/4	14	18 1/2	4 1/2	-	34
CFA900CA	22	18	18	23 7/8	19 7/8	12	8	-	65
CFA1500CA	22	18	18	23 7/8	19 7/8	12	8	-	65

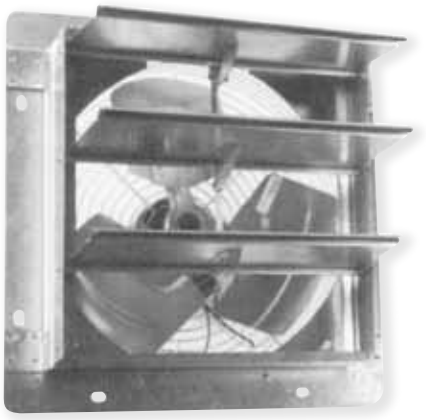
BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

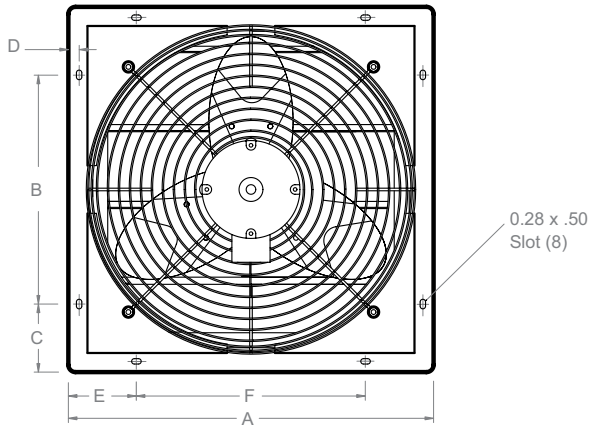
Performance				CFM/SONES – Static Pressure (Ps – inches of H_2O)											
MODEL	Nominal Voltage	Max AMPs @60 Hz	Watts	Hor Vert	0.0" Ps	0.10" Ps	0.125" Ps	0.250" Ps	0.375" Ps	0.50" Ps	0.625"" Ps	0.750" Ps	0.875" Ps	1.0" Ps	RPM @.125"
CFA100CA	120 VAC	1.0	88	CFM Hor	136	115	109	93	80	65	44	12			640
				SONES Hor	0.5	0.8	0.9	1.3	1.8	2.3	3.0	3.2			
				CFM Vert	138	117	112	98	80	67	46	13			650
				SONES Vert	0.7	0.9	1.0	1.3	1.8	2.2	2.8	3.0			
CFA150CA	120 VAC	1.2	96	CFM Hor	181	161	157	141	132	124	114	94	62		710
				SONES Hor	1.3	1.4	1.5	2.2	2.6	3.1	3.6	4.1	4.6		
				CFM Vert	179	163	160	149	142	133	122	105	73	23	750
				SONES Vert	1.4	1.6	1.6	2.0	2.5	3.0	3.3	3.6	3.9	4.2	
CFA200CA	120 VAC	1.6	124	CFM Hor	231	214	210	196	186	177	165	144	113	51	740
				SONES Hor	1.6	1.8	1.7	2.3	2.9	3.5	4.1	4.9	5.3	5.3	
				CFM Vert	224	210	207	197	187	179	167	144	99	41	760
				SONES Vert	1.5	1.8	2.0	2.3	2.7	3.4	4.0	4.5	5.1	5.2	
CFA250CA	120 VAC	2.0	160	CFM Hor	272	261	259	250	242	233	218	201	165	99	830
				SONES Hor	2.1	2.3	2.2	2.9	3.3	3.9	4.4	4.8	5.5	5.8	
				CFM Vert	269	261	259	253	248	239	224	203	171	101	860
				SONES Vert	2.3	2.6	2.7	3.0	3.3	3.7	4.2	4.7	5.4	5.6	
CFA300CA	120 VAC	2.6	204	CFM Hor	312	309	308	303	296	287	273	254	219	125	935
				SONES Hor	2.3	2.6	2.7	3.0	3.3	3.7	4.2	4.7	5.4	5.6	
				CFM Vert	319	314	313	306	299	288	274	251	219	120	950
				SONES Vert	2.6	2.9	3.0	3.4	3.6	3.9	4.4	4.7	5.0	5.5	
CFA400CA	120 VAC	1.3	137	CFM Hor	480	442	434	388	344	299	229	182	114	33	735
				SONES Hor	2.0	2.4	2.3	2.8	3.3	3.8	4.5	4.8	5.4	5.6	
				CFM Vert	467	428	416	378	335	291	237	170	85	8	755
				SONES Vert	2.3	2.6	2.6	3.0	3.5	4.0	5.1	5.5	5.7	5.9	
CFA500CA	120 VAC	2.0	207	CFM Hor	538	520	514	491	463	434	389	339	282	186	810
				SONES Hor	3.0	3.1	3.3	3.6	4.0	4.4	5.0	5.7	6.2	6.7	
				CFM Vert	539	517	512	481	451	418	367	319	247	137	865
				SONES Vert	2.9	3.1	3.2	3.4	3.8	4.2	4.8	5.9	6.3	6.4	
CFA700CA	120 VAC	2.7	298	CFM Hor	722	704	701	667	640	607	571	534	453	333	960
				SONES Hor	4.5	4.6	4.7	4.8	5.0	5.2	5.6	6.2	7.1	7.2	
				CFM Vert	708	691	687	658	628	597	560	515	444	312	985
				SONES Vert	5.2	5.0	5.0	5.7	5.8	6.1	6.4	7.4	7.1	7.6	
CFA900CA	120 VAC	2.5	261	CFM Hor	918	905	901	877	842	793	725	636	536	390	650
				SONES Hor	3.8	4.0	4.1	4.0	4.2	4.3	4.4	4.9	4.5	5.3	
				CFM Vert	909	892	885	850	807	756	695	568	440	282	675
				SONES Vert	3.8	3.4	3.4	3.5	3.6	3.7	3.9	4.2	4.3	4.4	
CFA1500CA	120 VAC	4.4	436	CFM Hor	1578	1526	1513	1438	1371	1285	1198	1103	1000	816	955
				SONES Hor	8.6	8.4	8.4	8.1	7.5	7.0	6.7	6.2	5.8	5.8	
				CFM Vert	1590	1519	1502	1423	1340	1259	1176	1069	954	689	955
				SONES Vert	8.5	8.4	8.4	8.1	7.9	7.5	7.2	7.1	6.9	6.5	

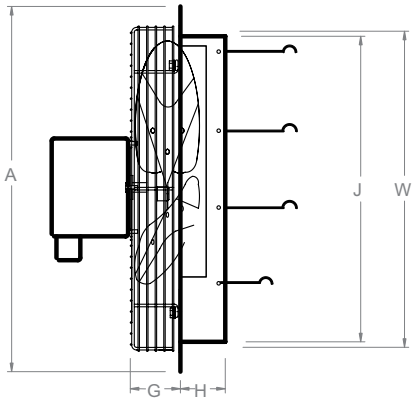
Performance shown is for installation Type A; Free Inlet, Free Outlet. Power Rating (BHP) does not include Drive Losses. Performance Ratings do not include the effects of appurtenances in the air stream. The Sound Ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standards 301. Values shown are for installation Type A; Free inlet fan sone levels. The AMCA Certified Ratings Sound Seal applies to Sone Ratings only.

CEPRSM Integral Shutter-Direct Drive

Axial Wall Mount Exhaust Fans







Features & Benefits

- OSHA rear guard standard
- Totally enclosed 115 volt motor
- Built in shutter
- Completely assembled for easy installation

Certifications

Models CEPRSM7 thru CEPRSM24 are UL Listed and are in compliance with UL 705 (Electrical) Standards.

Measurements

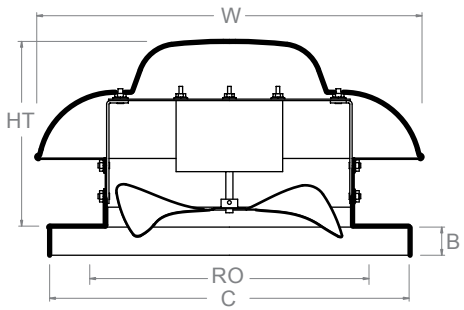
MODEL	A	B	C	D	E	F	G	H	J	Wall Opening	Weight (lbs)
CEPRSM7	11 1/8	4	3 9/16	9/16	3 9/16	4	8	2 3/8	8	8 1/2	9
CEPRSM10	13 1/8	6	3 9/16	9/16	3 9/16	6	8	2 3/8	10	10 1/2	10
CEPRSM12	15 1/8	8	3 9/16	9/16	3 9/16	8	8	2 3/8	12	13	12
CEPRSM16	19 1/8	12	3 9/16	9/16	3 9/16	12	9	2 3/8	16	17	15
CEPRSM18	21 1/8	14	3 9/16	9/16	3 9/16	14	11 7/8	3	18	18 1/2	19
CEPRSM24	27 1/8	20	3 9/16	9/16	3 9/16	20	12 5/8	3	24	25	60

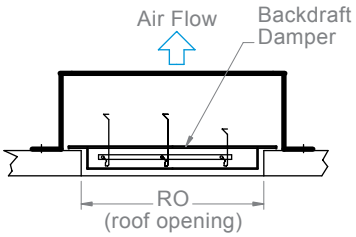
BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

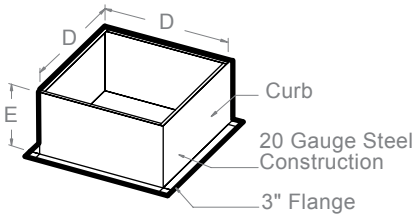
Performance				Static Pressure in Inches W.G.										
MODEL	RPM	Tip Speed	Motor HP	0.000 CFM	0.025 CFM	0.050 CFM	0.075 CFM	0.100 CFM	0.125 CFM	0.150 CFM	0.175 CFM	0.200 CFM	0.225 CFM	0.250 CFM
CEPRSM7	1730	3170	1/30	121	111	98	90	84	62					
CEPRSM10	1550	4058	1/30	610	533	421	390	357	318	247	266			
CEPRSM12	1550	4869	1/30	815	763	708	653	587	501	419	317			
CEPRSM16	1525	6388	1/20	1216	1120	1033	953	881	765					
CEPRSM18	1075	5066	1/15	1876	1684	1554	1323	949	751	636	509			
CEPRSM24	1075	6754	1/4	3212	2876	2675	2444	2198	2015	1832	1649	1444	1233	1027

DDAR-FA Downblast Direct Drive

Propeller Roof Mount Exhaust Fans







Propeller Direct Drive Fans are the perfect low cost exhaust choice in the areas that have little or no ductwork, and thus, relatively low to moderate resistance.

Features & Benefits

- Spun aluminum housing for rust-free weather resistant durability
- Propellers constructed with die formed blades riveted to a steel hub
- Can be roof or wall mounted
- Standard bird screen
- Wire conduit to provide a clear channel for electrical connections
- Emergency disconnect switch

Options

- Gravity damper
- Motorized damper
- Wall mount sleeve
- Roof curb

Certifications

CaptiveAire certifies that Models DDAR10TH thru DDAR18TH are licensed to bear the AMCA seal. The ratings shown are based on tests & procedures preformed in accordance with AMCA Publication 210 and comply with the requirements of the AMCA Certified Ratings Program.

Models DDAR-FA are ETL Listed and are in compliance with UL705 (Electrical) Standards and CSA Std. C22.2, No. 113.

Measurements

MODEL	HT	W	B	C	D	E	RO	Shipping (lbs)
DDAR10FA	9 3/4	18 5/16	2	19	17 1/2	12	13	24
DDAR12FA	10 1/4	20 5/16	2	19	17 1/2	12	13	32
DDAR14FA	12 5/8	27 5/16	2	21	19 1/2	12	16	45
DDAR18FA	14 3/8	33 9/16	2	26	24 1/2	12	20	67

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance				Static Pressure in Inches W.G.									
MODEL	RPM	Tip Speed	Motor HP	0.000 CFM	0.125 CFM	0.250 CFM	0.375 CFM	0.500 CFM	0.625" CFM	0.750 CFM	0.875 CFM	1.000 CFM	1.125 CFM
DDAR10FA	1500	3927	1/30	524	333	226	120						
DDAR12FA	1500	4712	1/10	830	710	620	522	436	357	270	175	78	
DDAR14FA	1100	4032	1/6	1160	899	786	646	521	384	236			
DDAR18FA	1100	5184	1/3	2400	2034	1628	1491	1293	1084	881	662	433	176

Speed (RPM) shown is nominal and performance is based on actual speed of test. Performance shown is for installation Type A; Free Inlet, Free Outlet.
Performance rating includes effect of bird screen in the air stream.

Accessories For Power Ventilators & Curbs

Shutters & Dampers
- Available as gravity dampers, motorized dampers and wall shutters
- Gravity and motorized dampers are all aluminum construction
- Wall shutters are painted steel frames with aluminum shutter blades

ACCESSORIES FOR POWER VENTILATORS & CURBS

Curb Adaptors
- Designed to ease the installation of new fans onto existing roof curbs where the base of the fan differs from the existing roof curb
- Constructed of durable, maintenance-free aluminum
- Sizes to fit the most popular combinations. For unique applications, consult a CaptiveAire Representative

Square Roof Curbs
- Made from 20 gauge, aluminized steel
- Continuously welded construction
- Available in 8", 12" or 18" high
- Pitched curbs available

Vented Roof Curbs
- Designed to meet the NFPA96 requirement for a 40" discharge height with our upblast restaurant exhaust fans.

Dampers
- These all-aluminum, self-acting Back Draft Dampers open only when fans are in operation, and automatically close when fans are turned off. Aluminum, multi-leaf, interconnected blades with stainless steel sleeve bearings are set into square frames designed to be mounted inside of curb or framed in opening between the exhaust fan and the ductwork.
- For use in conjunction with Make-Up Air Units, Motorized Intake Dampers are used for positive control of the air-intake opening, to control back-draft, and to keep out wind, rain and snow. *(Please note, dampers are not designed for use with up-blast units that exhaust grease-laden vapors).*

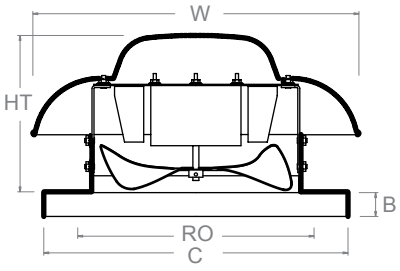
Hinge Kits
- Provides easy access to fan wheel and ductwork for cleaning and service

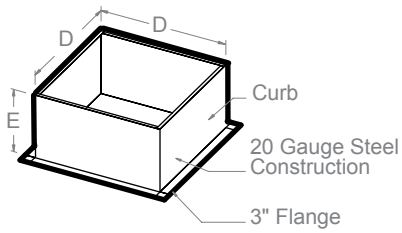
Grease Collection Box
- Single point grease collection system
- Protects roof surface

Supply Fan Unit Extension
- Provides a 10ft separation between the Exhaust and Supply for compliance with NFPA-96.

DMUA-FA Roof or Wall Mount

Axial Radial Make-Up Air Fan





Used when fresh air is needed to replace exhaust air, commercial kitchens, office buildings, bakeries, laundries, factories, warehouses, foundries, locker rooms, etc.

Features & Benefits

- Spun aluminum housing for rust free weather resistant durability
- Propellers constructed with die formed blades riveted to a steel hub
- Can be roof or wall mounted
- Standard bird screen
- Wire conduit to provide a clear channel for electrical connections
- Emergency disconnect switch

Options

- Motorized damper
- Wall mount sleeve
- Roof curb

Certifications

Models DMUA14FA thru DMUA18FA are ETL Listed and are in compliance with UL 705 (Electrical) Standards and CSA Std. C22.2, No. 113.

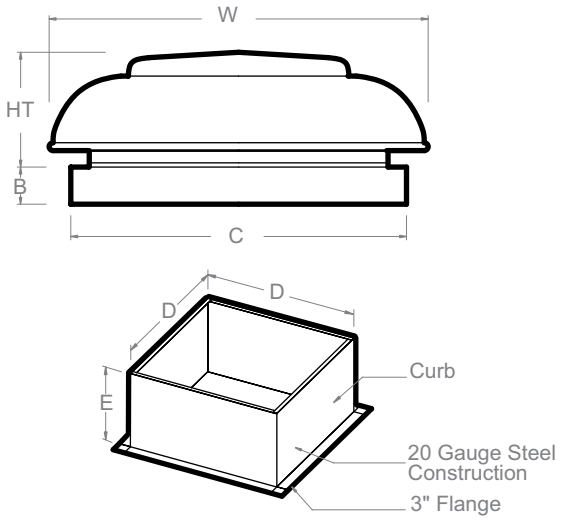
Measurements

MODEL	HT	W	B	C	D	E	RO	Shipping (lbs)	Damper (sq)
DMUA14FA	12 5/8	27 5/16	2	21	19 1/2	12	16	45	15
DMUA18FA	14 3/8	33 9/16	2	26	24 1/2	12	20	67	19

Measurements				Static Pressure in Inches W.G.				
MODEL	RPM	Tip Speed	Motor HP	0.00 CFM	0.125 CFM	0.250 CFM	0.375 CFM	0.500 CFM
DMUA14FA	1100	4030	1/6	1450	1174	904	670	439
DMUA18FA	1100	5180	1/3	2460	2220	1980	1639	1300

EMUA-FA Economy Make-Up Air

Gravity Intake Hood and Relief



The CaptiveAire EMUA-FA is a non-motorized gravity vent. It is an economical choice when fresh air intake or pressure relief are needed.

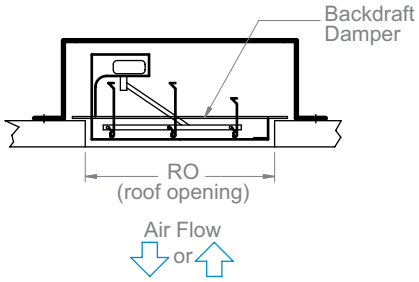
Features & Benefits

- Roof mounted fans
- Standard bird screen

Options

- Motorized backdraft damper
- Hinged fan
- Pitched curb
- Insulated curb

Backdraft Damper Installation



Measurements

MODEL	HT	W	B	C	RO	D	E	Weight (lbs)
EMUA12FA	9 3/4	20 5/16	2	19	13	17 1/2	12	21
EMUA14FA	12 5/8	27 5/16	2	21	16	19 1/2	12	33
EMUA18FA	14 3/8	33 9/16	2	26	20	24 1/2	12	51

Static Pressure in Inches W.G.

MODEL	*	CFM Against Static Resistance
EMUA12FA	1000	* Approximate CFM against static
EMUA14FA	1475	Resistance is based on throat area
EMUA18FA	2400	Velocity of approximately 1200 FPM

Modular Make-Up Air Systems

Standard Features
- G90 Galvanized Construction
- Easy Access Doors
- Rigid Common Base
- Pre-wired, Pre-piped Controls

Available Modules
- Air Handler
- Direct Fired Heat
- Indirect Fired Heat
- Electric Heater
- Evaporative Cooler
- Heating and Cooling Coils
- Filtration

Basic Units

A Series Air Handler

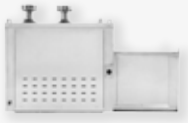
- Blower performance up to 22,000 CFM
- Vibration isolation
- Horizontal or down discharge
- High efficiency motors
- Adjustable drive sheaves
- Removable doors for easy access
- Optional intake damper
- ETL Listed

Optional
- *Motorized Intake Damper*
- *Gravity Intake Damper*

A-D Series Direct Fired

- 19,000 to 2,500,000 BTUs
- 1,000 to 21,000 CFM
- Service doors on both sides
- Improved profile plate configuration
- Stainless steel burner
- 30 to 1 turn down modulation
- Electronic flame modulation
- Airflow switch
- Natural gas applications
- Economizer inlet thermostat
- Redundant gas valves
- 120 volt control transformer with single point electrical connection
- Intermittent spark pilot with timed safety lockout
- High temperature limit switch
- ETL Listed

Optional
- *LP gas application*
- *Freeze protection*
- *High / Low gas pressure switches*
- *Room temperature controls*
- *Remote Panel*
- *Motorized Intake Damper*



A-IBT Series Indirect Fired

- 150 to 1,600 BTU output
- 800 to 18,000 CFM
- Bent Tube In-Shot Style Furnace with Type 409 Stainless Steel Heat Exchanger
- 80% Constant Efficiency over Entire Gas Firing Range
- 6:1 Turndown per Furnace, 28:1 Max
- Full Electronic Vernier-type Modulation
- Variable Speed Power-vent Motor
- Forced High Fire Start
- Isolated and Insulated Electrical Controls Vestibule
- ETL Listed

Optional
- *LP gas application*
- *Freeze protection*
- *Variable Air Volume (VAV) controls*
- *Single point electrical connection*
- *Mixing Box*
- *Motorized Intake Damper*

A-E Series Electric Heater

- Rated up to 257KW
- 800 to 22,000 CFM
- SCR Technology with Modulating Control
- Access doors on both sides of the unit
- Coil observation port
- High temperature limit switch
- Disconnect switch
- Airflow proving switch
- Galvanized, fully insulated casing
- 120 volt control transformer

Optional
- *Freeze protection*
- *Filtered Intakes*
- *Room temperature control*
- *Motorized Intake Damper*
- *Mixing Box with Damper control*

Modules

Coils

DX
- 3-50 ton cooling
- 1000-14,200 CFM
- 1 or 2 circuit coils
- Stainless steel drain pan
- Coil access doors
- Insulated casing

Steam
- Up to 1,322,830 BTU/Hr
- 15,700 CFM Max
- Rated for 5 psi supply
- Coil Access Doors
- Insulated casing

Hot Water
- Up to 1,186,920 BTU/Hr
- 15,700 CFM Max
- Coil Access Doors
- Insulated casing

Electric
- 10-257KW
- Staged heating control
- Airflow switch
- Blower interlock relay
- 400–22,000 CFM
- Coil access doors
- Insulated casing
- Power transformer

Mixing Box

- Up to 22,000 CFM
- Return and fresh air damper common linkage
- Single damper actuator
- Building static pressure control
- Electric 2-position control
- Manual potentiometer control

Screen Intake

- Intake screen keeps debris out of airstream
- Used where fan faces high velocity air
- Used on V-bank or evaporative coolers

V-Bank

- Up to 22,000 CFM
- 2" industrial metal mesh filters
- Large filtration area – low air velocity

Downturn Plenum

- Fully insulated
- Curb mountable

Sloped Intake

- 2" Industrial metal mesh filters
- Intake screen
- Rain gutters

Evaporative Cooler Intakes

- Media is Removable
- Up to 22,000 CFM
- No moving parts
- Utilizes standard line water pressure
- Access door for media and controls
- Built-in water, filter, moisture control, and temperature switch
- No standing water reduces bacteria growth

Optional
- *Freeze protection fill and drain kit*

NSAU Standard Rooftop Filtered

Untempered Make-Up Air

This economical blower is designed to deliver fresh outside make-up air for installations requiring frequent air changes. Units are designed for outdoor applications, and are available in down or horizontal discharge configurations.

Units are available in sizes up to 6,000 CFM, and external static pressure up to 2" W.G. Units have a removable lid to provide ample access to all internal components. Standard features include vibration isolation, high efficiency motors, and adjustable drive sheaves. Units consist of a galvanized enclosure with a blower, motor, pulleys and belt(s). This unit has a standard horizontal inlet designed to accommodate an outside air inlet hood with standard 2" filters.

Features & Benefits

- Disconnect switch
- Spring loaded lid latches
- G90 galvanized steel housing
- Blower mounted on vibration isolators
- High efficiency motors
- Variable pitch motor pulley allows for field adjustments and system balancing
- Down or straight through discharge
- 2" washable filters

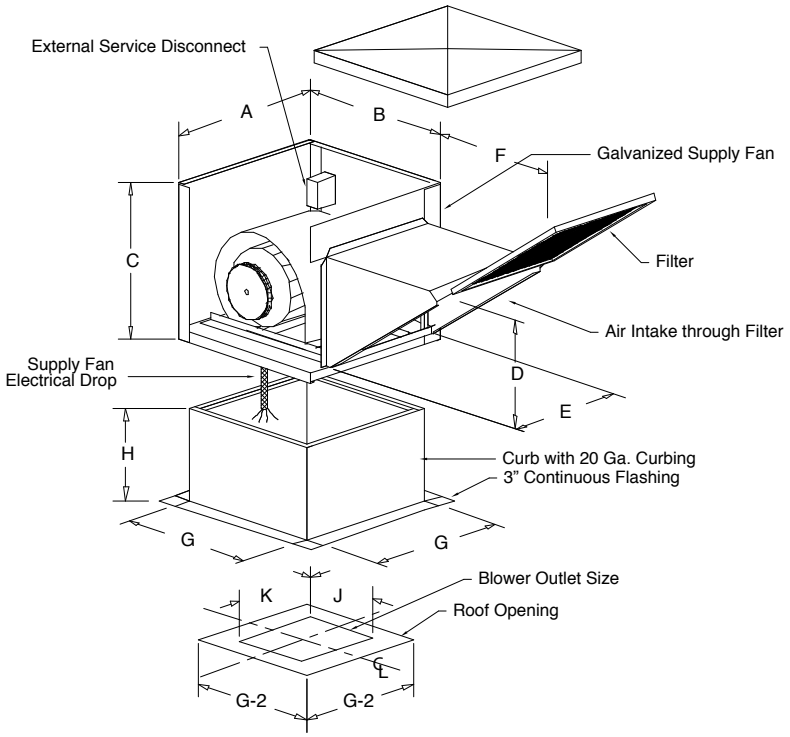
Options

- Gravity intake or Motorized intake damper
- Roof curbs
- Wall mount kit
- VAV packages
- Direct Option

Certifications

The NSAU Model has 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.

Model NSAU is ETL Listed under file number J20029811-001 and complies with UL705 and CSA C22.2, No. 113 Standards.



Measurements

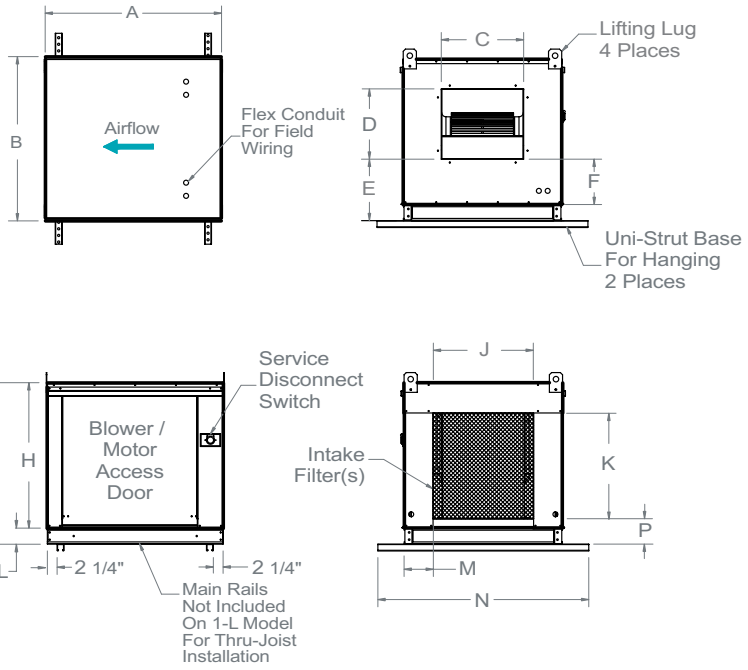
MODEL	A	B	C	D	E	F	G	H	J	K	Filter Size	Weight
NSAU1-G10	26	32	28	20 1/8	19 7/8	23 1/2	23	14	11 1/2	13 1/4	(2) 16"x 20"	210
NSAU2-G12	36	40	35	28 1/4	28 7/8	26 7/8	32 1/2	14	13 9/16	15 1/4	(2) 20"x 25"	290
NSAU2-G15	36	40	35	28 1/4	28 7/8	53 5/8	32 1/2	14	16	18 3/4	(3) 20"x 25"	395

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.												
MODEL	CFM	0.00" RPM/BHP	0.125" RPM/BHP	0.25" RPM/BHP	0.375" RPM/BHP	0.50" RPM/BHP	0.625" RPM/BHP	0.75" RPM/BHP	0.875" RPM/BHP	1.00" RPM/BHP	1.25" RPM/BHP	1.50" RPM/BHP	1.75" RPM/BHP	2.00" RPM/BHP
NSAU1-G10	1500	371 / 0.11		548 / 0.19		703 / 0.28		837 / 0.38		956 / 0.51	1064 / 0.65	1163 / 0.80	1253 / 0.96	1338 / 1.12
NSAU1-G10	2000	494 / 0.25		628 / 0.37		759 / 0.48		876 / 0.60		984 / 0.72	1084 / 0.86	1178 / 1.02	1266 / 1.19	1349 / 1.37
NSAU1-G10	2500	618 / 0.49		723 / 0.63		833 / 0.78		936 / 0.93		1033 / 1.07	1124 / 1.21	1209 / 1.37	1291 / 1.53	1370 / 1.72
NSAU1-G10D	1000	309 / 0.02	441 / 0.07	577 / 0.15	691 / 0.26	786 / 0.39	871 / 0.53	948 / 0.68	1020 / 0.85					
NSAU1-G10D	1500	462 / 0.08	552 / 0.13	639 / 0.21	731 / 0.31	822 / 0.44	906 / 0.59	983 / 0.76	1053 / 0.93					
NSAU1-G10D	2000	615 / 0.19	687 / 0.26	750 / 0.34	815 / 0.43	883 / 0.55	952 / 0.69	1021 / 0.85						
NSAU1-G10D	2500	769 / 0.36	829 / 0.45	881 / 0.54	931 / 0.64	983 / 0.76	1035 / 0.88							
NSAU2-G12	2000	328 / 0.14		458 / 0.22		601 / 0.32		723 / 0.44		830 / 0.56	927 / 0.69	1015 / 0.82	1098 / 0.95	1174 / 1.09
NSAU2-G12	2500	410 / 0.27		503 / 0.37		626 / 0.49		739 / 0.62		839 / 0.76	931 / 0.91	1017 / 1.06	1097 / 1.22	1172 / 1.37
NSAU2-G12	3000	492 / 0.47		563 / 0.59		661 / 0.72		763 / 0.86		858 / 1.02	945 / 1.18	1026 / 1.35	1103 / 1.53	1176 / 1.71
NSAU2-G12	3500	574 / 0.75		631 / 0.88		708 / 1.03		796 / 1.18		883 / 1.35	966 / 1.53	1043 / 1.72	1116 / 1.91	
NSAU2-G12	4000	656 / 1.12		704 / 1.27		765 / 1.43		838 / 1.60		916 / 1.78	992 / 1.97			
NSAU2-G12	4500	738 / 1.60		778 / 1.76		830 / 1.94								
NSAU2-G15	3500	345 / 0.40		438 / 0.60		541 / 0.78		628 / 0.97		707 / 1.18	781 / 1.41	850 / 1.66	916 / 1.92	979 / 2.20
NSAU2-G15	4000	394 / 0.60		471 / 0.83		566 / 1.04		649 / 1.24		724 / 1.46	793 / 1.70	859 / 1.96	921 / 2.23	981 / 2.52
NSAU2-G15	4500	444 / 0.85		508 / 1.12		593 / 1.36		672 / 1.59		744 / 1.82	810 / 2.06	872 / 2.33	932 / 2.61	989 / 2.91
NSAU2-G15	5000	493 / 1.17		548 / 1.47		622 / 1.75		698 / 2.00		767 / 2.25	831 / 2.51	890 / 2.78	947 / 3.07	1001 / 3.38
NSAU2-G15	5500	542 / 1.56		590 / 1.88		655 / 2.20		725 / 2.49		792 / 2.76	853 / 3.04	911 / 3.32	965 / 3.62	1018 / 3.93
NSAU2-G15	6000	592 / 2.02		634 / 2.38		691 / 2.73		755 / 3.06		818 / 3.36	878 / 3.66	934 / 3.96	987 / 4.27	1037 / 4.59

Inline Series Filtered

Untempered Make-Up Air



The Air Handler Unit is the heart of the modular fan system. It is designed to deliver fresh outside make-up air for installations requiring frequent air changes. Units are designed for indoor applications, and are available in side discharge only.

Packages are available in sizes up to 7,000 CFM, and external static pressures up to 2" W.G. Units have large doors on both sides to provide ample access to all internal components. Standard features include vibration isolation, high efficiency motors, and adjustable drive sheaves. Units consist of a galvanized enclosure with a blower, motor, pulleys and belt(s). The blower module has a standard horizontal inlet with 2" filters in fan inlet.

Features & Benefits

- Insulated housing
- Hanging cradle
- Disconnect switch
- Lifting points
- Vibration isolation
- High efficiency motors
- Compact weatherproof design
- Adjustable drive sheaves
- 2" washable filters
- G90 galvanized steel
- Easy accessibility to all components for inspection, maintenance & cleaning
- Access doors located on both sides of unit
- Insulated construction

Options

- VAV packages
- Direct Drive Motor

Certifications

The Inline models 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 standards, 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.

ETL Listed and Certified to UL705 (electrical) Standards.

Measurements

MODEL	A	B	C	D	E	F	G	H	J	K
INLINE1-G10L*	32 1/8	27 3/8	13 1/4	11 1/2	NA	8 1/8	NA	22 1/16	16	18
INLINE1-G10	32 1/8	27 3/8	13 1/4	11 1/2	11 13/16	8 1/8	29 3/4	26 1/16	16	18
INLINE2-G12	40 1/8	37 3/8	15 3/4	13 7/16	13 1/16	9 3/8	36 3/4	33 1/16	22 3/4	24
INLINE2-G15	40 1/8	37 3/8	18 3/4	16	14	10 5/16	36 3/4	33 1/16	22 3/4	24
INLINE3-G18	45 1/8	41 3/8	22	19	17 15/16	12 5/8	43 3/8	38 1/16	30	30

MODEL	L	M	N	P	Filter Size	Blower Size	Weight (lbs)
INLINE1-G10L*	NA	5 1/16	36	2 1/8	(1) 16"x20"	10"	195
INLINE1-G10	3 3/4	5 1/16	36	5 3/4	(1) 16"x20"	10"	220
INLINE2-G12	3 3/4	6 11/16	48	5 3/4	(1) 20"x25"	12"	350
INLINE2-G15	3 3/4	6 11/16	48	5 3/4	(1) 20"x25"	15"	375
INLINE3-G18	5 1/16	5 1/16	60	7 1/2	(2) 20"x25"	18"	470

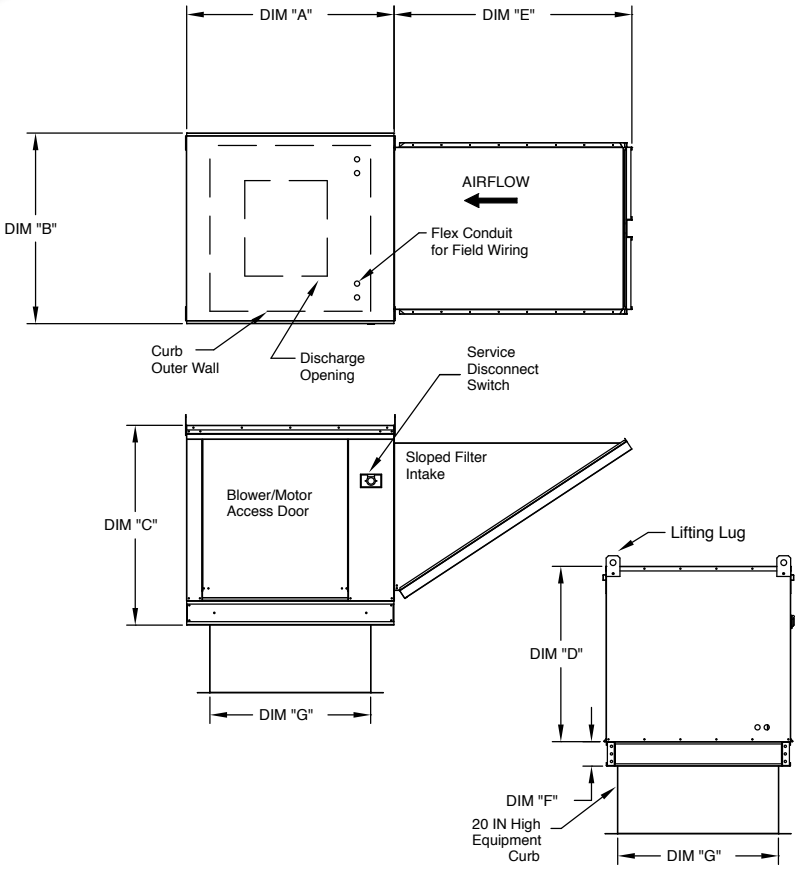
* Inline 1-G10L: This model to be used for ceiling applications. The low profile model allows for installation between 24" ceiling rafters.

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		**Static Pressure in Inches W.G.**												
MODEL	CFM	0.00" RPM/BHP	0.125" RPM/BHP	0.25" RPM/BHP	0.375" RPM/BHP	0.50" RPM/BHP	0.625" RPM/BHP	0.75" RPM/BHP	0.875" RPM/BHP	1.00" RPM/BHP	1.25" RPM/BHP	1.50" RPM/BHP	1.75" RPM/BHP	2.00" RPM/BHP
INLINE1-G10	1000	358 / 0.06		572 / 0.12		741 / 0.20		894 / 0.30		1029 / 0.41	1147 / 0.52	1250 / 0.63	1340 / 0.72	
INLINE1-G10	1200	429 / 0.10		618 / 0.17		768 / 0.25		902 / 0.35		1034 / 0.47	1152 / 0.60	1261 / 0.74	1357 / 0.87	1448 / 1.00
INLINE1-G10	1400	501 / 0.15		669 / 0.24		806 / 0.33		930 / 0.43		1034 / 0.54	1158 / 0.68	1264 / 0.83	1363 / 0.99	1455 / 1.15
INLINE1-G10	1600	572 / 0.23		721 / 0.32		851 / 0.43		964 / 0.54		1071 / 0.65	1173 / 0.79	1272 / 0.94	1368 / 1.10	1459 / 1.27
INLINE1-G10	1800	644 / 0.32		777 / 0.43		900 / 0.55		1006 / 0.67		1104 / 0.79	1198 / 0.92	1290 / 1.07	1379 / 1.23	1466 / 1.41
INLINE1-G10	2000	715 / 0.44		834 / 0.56		951 / 0.69		1052 / 0.82		1145 / 0.95	1232 / 1.09	1318 / 1.24	1401 / 1.40	1481 / 1.57
INLINE1-G10	2200	786 / 0.59		893 / 0.71		1003 / 0.86		1101 / 1.00		1189 / 1.14	1272 / 1.29	1351 / 1.44	1429 / 1.61	1505 / 1.78
INLINE1-G10	2400	858 / 0.77		954 / 0.89		1058 / 1.05		1151 / 1.21		1236 / 1.37	1316 / 1.52	1391 / 1.68	1464 / 1.85	
INLINE1-G10D	800	320 / 0.03	479 / 0.09	591 / 0.16	696 / 0.27	796 / 0.40	889 / 0.56	971 / 0.73	1044 / 0.91					
INLINE1-G10D	1000	399 / 0.05	539 / 0.12	640 / 0.21	728 / 0.31	812 / 0.43	895 / 0.57	976 / 0.74	1053 / 0.93					
INLINE1-G10D	1200	479 / 0.09	601 / 0.17	697 / 0.27	777 / 0.37	850 / 0.49	922 / 0.62	992 / 0.78	1061 / 0.95					
INLINE1-G10D	1400	558 / 0.14	663 / 0.23	758 / 0.35	833 / 0.46	901 / 0.58	965 / 0.72	1026 / 0.86						
INLINE1-G10D	1600	638 / 0.21	728 / 0.31	819 / 0.44	893 / 0.57	958 / 0.70	1017 / 0.84	1073 / 0.98						
INLINE1-G10D	1800	717 / 0.29	794 / 0.40	881 / 0.55	954 / 0.69	1017 / 0.84	1074 / 0.99							
INLINE1-G10D	2000	797 / 0.40	864 / 0.51	944 / 0.67	1016 / 0.84									
INLINE1-G10D	2200	876 / 0.54	935 / 0.65	1009 / 0.82										
INLINE1-G10D	2400	956 / 0.70	1009 / 0.82	1074 / 0.99										
INLINE1L-G10	1000	358 / 0.06		572 / 0.12		741 / 0.20		894 / 0.30		1029 / 0.41	1147 / 0.52	1250 / 0.63	1340 / 0.72	
INLINE1L-G10	1200	429 / 0.10		618 / 0.17		768 / 0.25		902 / 0.35		1034 / 0.47	1152 / 0.60	1261 / 0.74	1357 / 0.87	1448 / 1.00
INLINE1L-G10	1400	501 / 0.15		669 / 0.24		806 / 0.33		930 / 0.43		1034 / 0.54	1158 / 0.68	1264 / 0.83	1363 / 0.99	1455 / 1.15
INLINE1L-G10	1600	572 / 0.23		721 / 0.32		851 / 0.43		964 / 0.54		1071 / 0.65	1173 / 0.79	1272 / 0.94	1368 / 1.10	1459 / 1.27
INLINE1L-G10	1800	644 / 0.32		777 / 0.43		900 / 0.55		1006 / 0.67		1104 / 0.79	1198 / 0.92	1290 / 1.07	1379 / 1.23	1466 / 1.41
INLINE1L-G10	2000	715 / 0.44		834 / 0.56		951 / 0.69		1052 / 0.82		1145 / 0.95	1232 / 1.09	1318 / 1.24	1401 / 1.40	1481 / 1.57
INLINE1L-G10	2200	786 / 0.59		893 / 0.71		1003 / 0.86		1101 / 1.00		1189 / 1.14	1272 / 1.29	1351 / 1.44	1429 / 1.61	1505 / 1.78
INLINE1L-G10	2400	858 / 0.77		954 / 0.89		1058 / 1.05		1151 / 1.21		1236 / 1.37	1316 / 1.52	1391 / 1.68	1464 / 1.85	
INLINE1L-G10D	800	320 / 0.03	479 / 0.09	591 / 0.16	696 / 0.27	796 / 0.40	889 / 0.56	971 / 0.73	1044 / 0.91					
INLINE1L-G10D	1000	399 / 0.05	539 / 0.12	640 / 0.21	728 / 0.31	812 / 0.43	895 / 0.57	976 / 0.74	1053 / 0.93					
INLINE1L-G10D	1200	479 / 0.09	601 / 0.17	697 / 0.27	777 / 0.37	850 / 0.49	922 / 0.62	992 / 0.78	1061 / 0.95					
INLINE1L-G10D	1400	558 / 0.14	663 / 0.23	758 / 0.35	833 / 0.46	901 / 0.58	965 / 0.72	1026 / 0.86						
INLINE1L-G10D	1600	638 / 0.21	728 / 0.31	819 / 0.44	893 / 0.57	958 / 0.70	1017 / 0.84	1073 / 0.98						
INLINE1L-G10D	1800	717 / 0.29	794 / 0.40	881 / 0.55	954 / 0.69	1017 / 0.84	1074 / 0.99							
INLINE1L-G10D	2000	797 / 0.40	864 / 0.51	944 / 0.67	1016 / 0.84									
INLINE1L-G10D	2200	876 / 0.54	935 / 0.65	1009 / 0.82										
INLINE1L-G10D	2400	956 / 0.70	1009 / 0.82	1074 / 0.99										
INLINE2-G12	2000	400 / 0.21		519 / 0.26		652 / 0.37		768 / 0.49		873 / 0.61				
INLINE2-G12	2250	420 / 0.25		549 / 0.34		673 / 0.46		783 / 0.59		884 / 0.72	977 / 0.86			
INLINE2-G12	2500	467 / 0.34		582 / 0.44		698 / 0.57		803 / 0.71		898 / 0.85	987 / 1.00	1071 / 1.15		
INLINE2-G12	2750	513 / 0.45		617 / 0.56		725 / 0.70		824 / 0.85		916 / 1.00	1001 / 1.16	1082 / 1.32	1159 / 1.49	1232 / 1.66
INLINE2-G12	3000	560 / 0.59		654 / 0.70		754 / 0.85		849 / 1.01		936 / 1.17	1018 / 1.34	1096 / 1.51	1170 / 1.69	1241 / 1.87
INLINE2-G12	3250	607 / 0.75		692 / 0.86		785 / 1.02		875 / 1.19		959 / 1.37	1038 / 1.55	1113 / 1.73	1184 / 1.91	1253 / 2.10
INLINE2-G12	3500	653 / 0.93		732 / 1.05		818 / 1.22		903 / 1.40		984 / 1.59	1060 / 1.78	1132 / 1.97	1202 / 2.17	1268 / 2.36
INLINE2-G12	3750	700 / 1.15		773 / 1.27		853 / 1.44		933 / 1.63		1010 / 1.83	1084 / 2.04	1153 / 2.24	1220 / 2.45	1285 / 2.66
INLINE2-G12	4000	746 / 1.39		814 / 1.53		889 / 1.70		964 / 1.90		1038 / 2.11	1109 / 2.32	1176 / 2.54	1241 / 2.76	1304 / 2.98
INLINE2-G15	2500	400 / 0.37		457 / 0.42		569 / 0.57		670 / 0.74		750 / 0.94				
INLINE2-G15	2750	407 / 0.39		484 / 0.53		582 / 0.69		683 / 0.86		765 / 1.06	836 / 1.28			
INLINE2-G15	3000	444 / 0.51		513 / 0.65		598 / 0.83		694 / 1.01		779 / 1.21	851 / 1.43	915 / 1.68		
INLINE2-G15	3250	481 / 0.65		545 / 0.80		618 / 0.98		707 / 1.18		792 / 1.38	862 / 1.60	930 / 1.85	989 / 2.12	1044 / 2.41
INLINE2-G15	3500	518 / 0.81		577 / 0.97		642 / 1.16		721 / 1.37		803 / 1.59	879 / 1.81	945 / 2.06	1004 / 2.33	1058 / 2.61
INLINE2-G15	3750	555 / 0.99		610 / 1.16		669 / 1.37		738 / 1.59		816 / 1.82	891 / 2.05	958 / 2.30	1019 / 2.56	1074 / 2.85
INLINE2-G15	4000	592 / 1.21		643 / 1.38		697 / 1.59		759 / 1.83		830 / 2.07	903 / 2.31	971 / 2.57	1033 / 2.84	1088 / 3.12
INLINE3-G18	5000	344 / 0.62		426 / 0.94		536 / 1.26		624 / 1.61		695 / 1.99	757 / 2.39	813 / 2.79	864 / 3.20	912 / 3.62
INLINE3-G18	6000	412 / 1.07		474 / 1.47		564 / 1.83		653 / 2.22		727 / 2.64	791 / 3.09	847 / 3.56	899 / 4.03	946 / 4.51
INLINE3-G18	7000	481 / 1.70		530 / 2.17		600 / 2.60		681 / 3.03		756 / 3.48	822 / 3.97	880 / 4.49		

A Series Modular Rooftop

Untempered Make-Up Air



The Air Handler Unit is the heart of the modular fan system. It is designed to deliver fresh outside make-up air for installations requiring frequent air changes. Units are designed for indoor or outdoor applications, and are available in down or horizontal configurations.

Packages are available in sizes up to 22,000 CFM and external static pressures up to 4" W.G. Units have large doors on both sides to provide ample access to all internal components. Standard features include vibration isolation, high efficiency motors and adjustable drive sheaves. Units consist of a galvanized enclosure with a blower, motor, pulleys and belt(s). The blower module has a standard horizontal inlet designed to accommodate an outside air inlet hood with a standard 2" filters and screen.

Features & Benefits

- Disconnect switch
- Vibration isolation
- Lifting points
- High efficiency motors
- Compact weatherproof design
- Adjustable drive sheaves
- Horizontal or down discharge
- 2" washable filters
- Inlet screen
- G90 galvanized steel
- Easy accessibility to all components for inspections, maintenance and cleaning

Options

- Gravity intake damper
- Motorized intake damper
- Roof curb
- Wall mount kit
- Mixing box with damper control
- DX cooling coils
- Hot water/steam coils
- Indoor hanging cradle
- Insulated housing
- Evaporative cooling intake
- VAV packages
- Direct Drive

Measurements

MODEL	A	B	C	D	E	F	G	Filter Size	Weight (lbs)
A10	32 1/8	27 3/8	29 3/4	26 1/16	44 3/8	3 3/4	21	(3) 16"x20"x2"	250
A12	40 1/8	37 3/8	36 3/4	33 1/16	53 5/8	3 3/4	31	(3) 20"x25"x2"	415
A15	40 1/8	37 3/8	36 3/4	33 1/16	53 5/8	3 3/4	31	(3) 20"x25"x2"	425
A18	45 1/8	41 3/8	43 3/8	38 1/16	51 5/8	5 1/4	35	(6) 16"x20"x2"	525
A920	64 3/16	48 7/16	51 3/8	46 1/8	76 3/8	5 1/4	42	(10) 16"x20"x2"	945
A925	74 3/16	59 3/16	58 3/8	53 1/8	71 3/8	5 1/4	52 3/4	(8) 20"x25"x2"	1330

Certifications

The A Series Models 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 had been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance.

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.												
MODEL	CFM	0.00" RPM/BHP	0.125" RPM/BHP	0.25" RPM/BHP	0.375" RPM/BHP	0.50" RPM/BHP	0.625" RPM/BHP	0.75" RPM/BHP	0.875" RPM/BHP	1.00" RPM/BHP	1.25" RPM/BHP	1.50" RPM/BHP	1.75" RPM/BHP	2.00" RPM/BHP
A10	1500	371 / 0.11		548 / 0.19		703 / 0.28		837 / 0.38		956 / 0.51	1064 / 0.65	1163 / 0.80	1253 / 0.96	1338 / 1.12
A10	2000	494 / 0.25		628 / 0.37		759 / 0.48		876 / 0.60		984 / 0.72	1084 / 0.86	1178 / 1.02	1266 / 1.19	1349 / 1.37
A10	2500	618 / 0.49		723 / 0.63		833 / 0.78		936 / 0.93		1033 / 1.07	1124 / 1.21	1209 / 1.37	1291 / 1.53	1370 / 1.72
A10	3000	741 / 0.85		827 / 1.01		919 / 1.19		1009 / 1.37		1096 / 1.55	1179 / 1.72	1258 / 1.89		
A10	3500	865 / 1.36		937 / 1.53		1015 / 1.74		1094 / 1.96						
A10D	1000	309 / 0.02	441 / 0.07	577 / 0.15	691 / 0.26	786 / 0.39	871 / 0.53	948 / 0.68	1020 / 0.85					
A10D	1500	462 / 0.08	552 / 0.13	639 / 0.21	731 / 0.31	822 / 0.44	906 / 0.59	983 / 0.76	1053 / 0.93					
A10D	2000	615 / 0.19	687 / 0.26	750 / 0.34	815 / 0.43	883 / 0.55	952 / 0.69	1021 / 0.85						
A10D	2500	769 / 0.36	829 / 0.45	881 / 0.54	931 / 0.64	983 / 0.76	1035 / 0.88							
A10D	3000	922 / 0.63	974 / 0.74	1019 / 0.84	1061 / 0.95									
A12	2000	328 / 0.14		458 / 0.22		601 / 0.32		723 / 0.44		830 / 0.56	927 / 0.69	1015 / 0.82	1098 / 0.95	1174 / 1.09
A12	2500	410 / 0.27		503 / 0.37		626 / 0.49		739 / 0.62		839 / 0.76	931 / 0.91	1017 / 1.06	1097 / 1.22	1172 / 1.37
A12	3000	492 / 0.47		563 / 0.59		661 / 0.72		763 / 0.86		858 / 1.02	945 / 1.18	1026 / 1.35	1103 / 1.53	1176 / 1.71
A12	3500	574 / 0.75		631 / 0.88		708 / 1.03		796 / 1.18		883 / 1.35	966 / 1.53	1043 / 1.72	1116 / 1.91	1186 / 2.11
A12	4000	656 / 1.12		704 / 1.27		765 / 1.43		838 / 1.60		916 / 1.78	992 / 1.97	1066 / 2.17	1136 / 2.39	1203 / 2.60
A12	4500	738 / 1.60		778 / 1.76		830 / 1.94		890 / 2.13		957 / 2.32	1026 / 2.52	1094 / 2.74	1161 / 2.96	
A12	5000	820 / 2.19		856 / 2.38		899 / 2.57		950 / 2.77		1007 / 2.98				
A15	3500	345 / 0.40		438 / 0.60		541 / 0.78		628 / 0.97		707 / 1.18	781 / 1.41	850 / 1.66	916 / 1.92	979 / 2.20
A15	4000	394 / 0.60		471 / 0.83		566 / 1.04		649 / 1.24		724 / 1.46	793 / 1.70	859 / 1.96	921 / 2.23	981 / 2.52
A15	4500	444 / 0.85		508 / 1.12		593 / 1.36		672 / 1.59		744 / 1.82	810 / 2.06	872 / 2.33	932 / 2.61	989 / 2.91
A15	5000	493 / 1.17		548 / 1.47		622 / 1.75		698 / 2.00		767 / 2.25	831 / 2.51	890 / 2.78	947 / 3.07	1001 / 3.38
A15	5500	542 / 1.56		590 / 1.88		655 / 2.20		725 / 2.49		792 / 2.76	853 / 3.04	911 / 3.32	965 / 3.62	1018 / 3.93
A15	6000	592 / 2.02		634 / 2.38		691 / 2.73		755 / 3.06		818 / 3.36	878 / 3.66	934 / 3.96	987 / 4.27	1037 / 4.59
A18	6500	343 / 1.05		415 / 1.31		477 / 1.66		539 / 2.00		602 / 2.32	663 / 2.62	719 / 2.93	773 / 3.26	822 / 3.60
A18	7000	369 / 1.31		438 / 1.59		495 / 1.95		553 / 2.32		611 / 2.67	669 / 3.01	724 / 3.34	777 / 3.68	826 / 4.03
A18	7500	395 / 1.61		461 / 1.90		514 / 2.28		568 / 2.68		623 / 3.07	677 / 3.44	730 / 3.80	782 / 4.15	830 / 4.51
A18	8000	422 / 1.95		484 / 2.25		535 / 2.65		585 / 3.08		636 / 3.50	687 / 3.90	738 / 4.29	788 / 4.67	
A920	10000	382 / 2.18		435 / 2.65		486 / 3.07		532 / 3.49		576 / 3.92	618 / 4.37	658 / 4.85	699 / 5.36	738 / 5.91
A920	11000	420 / 2.90		469 / 3.42		516 / 3.89		559 / 4.35		600 / 4.81	639 / 5.29	677 / 5.79	715 / 6.32	751 / 6.87
A920	12000	458 / 3.77		503 / 4.34		547 / 4.86		588 / 5.37		627 / 5.87	664 / 6.37	699 / 6.90	734 / 7.44	768 / 8.01
A920	13000	496 / 4.79		537 / 5.41		579 / 5.99		618 / 6.54		654 / 7.08	689 / 7.62	723 / 8.17	756 / 8.74	789 / 9.33
A920	14000	534 / 5.98		573 / 6.65		611 / 7.29		648 / 7.89		683 / 8.47	717 / 9.05	749 / 9.64		
A920	15000	572 / 7.36		608 / 8.08		644 / 8.76		679 / 9.42						
A925	11000	208 / 1.01		273 / 1.52		332 / 2.03		383 / 2.58		430 / 3.17	473 / 3.77	514 / 4.39	553 / 5.03	590 / 5.68
A925	12000	227 / 1.30		287 / 1.87		343 / 2.42		392 / 3.01		437 / 3.62	479 / 4.27	518 / 4.93	556 / 5.60	592 / 6.29
A925	13000	246 / 1.66		301 / 2.28		354 / 2.87		402 / 3.48		445 / 4.14	485 / 4.82	524 / 5.52	560 / 6.23	595 / 6.96
A925	14000	265 / 2.07		316 / 2.75		366 / 3.37		412 / 4.03		454 / 4.71	493 / 5.43	530 / 6.17	565 / 6.92	599 / 7.69
A925	15000	284 / 2.55		331 / 3.28		379 / 3.95		423 / 4.64		464 / 5.36	502 / 6.11	538 / 6.88	572 / 7.68	605 / 8.48
A925	16000	303 / 3.09		347 / 3.88		392 / 4.59		435 / 5.32		474 / 6.07	511 / 6.86	546 / 7.67	579 / 8.50	611 / 9.35
A925	17000	322 / 3.70		363 / 4.55		406 / 5.32		447 / 6.08		485 / 6.87	521 / 7.69	555 / 8.53	587 / 9.39	618 / 10.28
A925	18000	340 / 4.40		380 / 5.30		420 / 6.12		459 / 6.92		496 / 7.74	531 / 8.59	564 / 9.47	596 / 10.37	626 / 11.29
A925	19000	359 / 5.17		396 / 6.13		435 / 7.00		473 / 7.85		508 / 8.71	542 / 9.59	574 / 10.50	605 / 11.44	635 / 12.39
A925	20000	378 / 6.03		413 / 7.04		450 / 7.97		486 / 8.86		521 / 9.76	554 / 10.68	585 / 11.62	615 / 12.59	644 / 13.58
A925	21000	397 / 6.98		430 / 8.05		465 / 9.03		500 / 9.97		533 / 10.91	565 / 11.86	596 / 12.84	625 / 13.84	654 / 14.87
A925	22000	416 / 8.03		448 / 9.15		481 / 10.19		514 / 11.18		546 / 12.16	578 / 13.15	607 / 14.16	636 / 15.20	664 / 16.26

D-76

Compact Direct Fired Heated Make-Up Air

The Direct Gas Fired Make-Up Air package is designed to deliver tempered make-up air for installations requiring frequent air changes. Units are designed for natural and propane gas applications, and for indoor and outdoor installation.

Direct Gas-Fired Heater, for use in tempering make-up air. The D-76 is certified to ANSI/CSA combined safety standard. A unique feature is the self-adjusting burner profile plates allowing variable-air-volume applications. The plates ensure proper air velocity and pressure drop across the burner for clean combustion. Spring-loaded profile plates react to the momentum of the fresh air stream; therefore, no motors or actuators are needed to drive them, nor do they need to be manually set to a specific position.

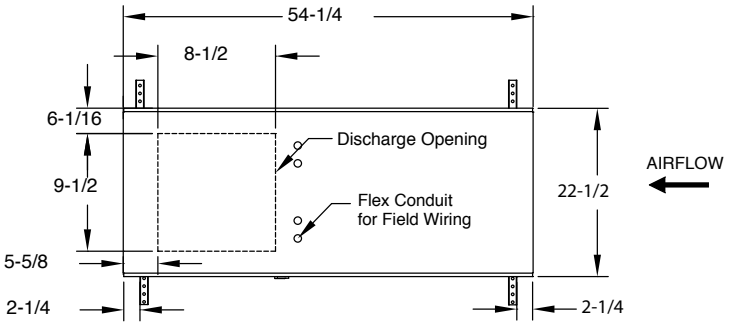
To satisfy a variety of installation requirements, packages are available in a number of configurations which include additions of filtered intake with easy access door and a trunk line that is used to move the air intake away from the grease laden exhaust air. Screened intakes are used to stop debris from being pulled into the heater; the screened intake attaches directly to the filtered intake or the trunk line.

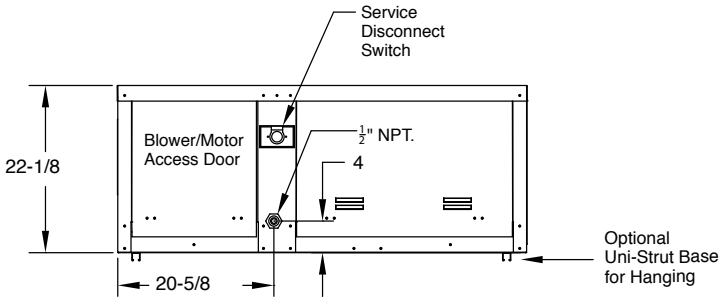
Features & Benefits

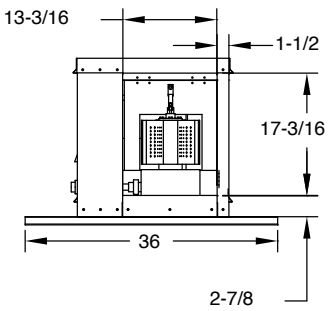
- G90 galvanized construction
- Easy access doors
- Pre-wired, pre-piped controls
- Horizontal and down discharge
- Adjustable drive sheaves
- Fully insulated casing
- Stainless steel burner with aluminum casting
- 120 volt control transformer with single point electrical connection
- Redundant gas valves
- Electronic flame modulation
- Intermittent spark pilot with timed safety lockout
- High temperature limit switch
- Airflow proving switch
- Economizer inlet thermostat
- Motor starter
- Disconnect switch
- Burner observation port

Options

- Propane fuel application • Room override thermostat
- Remote control panel including summer/winter switch and operating lights
- Motorized intake damper • Freeze stat with bypass timer
- Room modulating thermostat • High gas pressure regulator
- Convenience outlet • Screen intake
- Auxiliary starters • Inlet gas pressure gauge
- Indoor hanging cradle • VAV packages
- Roof curbs • Extra set of V-belts • Direct Drive







Certifications

The D76 Model has 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. and Canadian 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.

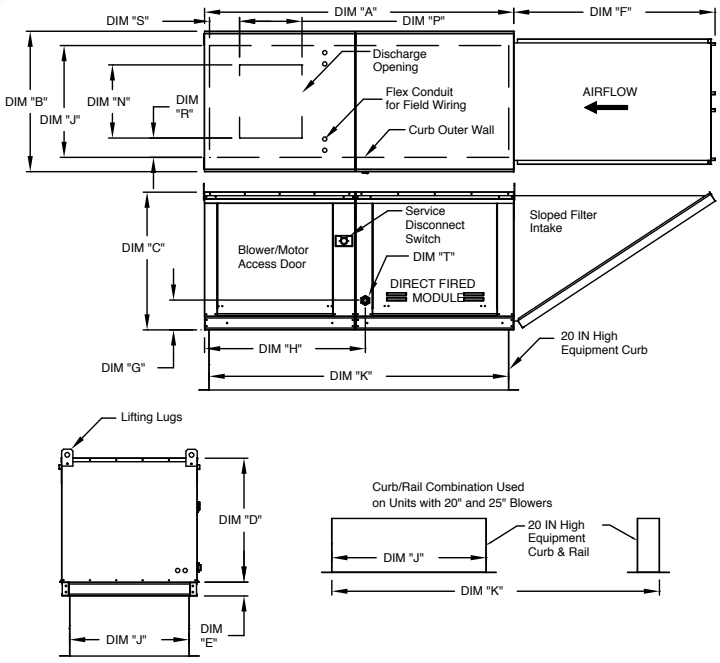
ETL Listed and Certified to ANSI/CSI Standards.

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.											
MODEL	CFM	0.00" RPM/BHP	0.125" RPM/BHP	0.25" RPM/BHP	0.375" RPM/BHP	0.50" RPM/BHP	0.625" RPM/BHP	0.75" RPM/BHP	1.00" RPM/BHP	1.25" RPM/BHP	1.50" RPM/BHP	1.75" RPM/BHP	2.00" RPM/BHP
D76	600	769 / 0.07		971 / 0.13		1215 / 0.24		1442 / 0.39	1626 / 0.55	1775 / 0.71	1905 / 0.87	2020 / 1.02	2128 / 1.18
D76	700	896 / 0.11		1065 / 0.17		1261 / 0.27		1477 / 0.43	1671 / 0.61	1832 / 0.80	1972 / 0.98	2096 / 1.17	2201 / 1.34
D76	800	1024 / 0.17		1171 / 0.23		1331 / 0.32		1515 / 0.47	1702 / 0.66	1874 / 0.87	2020 / 1.08	2156 / 1.30	2273 / 1.50
D76	900	1152 / 0.24		1282 / 0.31		1420 / 0.40		1573 / 0.53	1737 / 0.71	1903 / 0.92	2059 / 1.15	2200 / 1.40	2326 / 1.64
D76	1000	1280 / 0.33		1397 / 0.40		1517 / 0.49		1647 / 0.62	1792 / 0.78	1942 / 0.99	2092 / 1.22	2227 / 1.46	2364 / 1.74
D76	1100	1408 / 0.44		1515 / 0.51		1622 / 0.61		1735 / 0.73	1858 / 0.88	1993 / 1.07	2128 / 1.30	2263 / 1.55	2397 / 1.83
D76	1200	1536 / 0.57		1635 / 0.65		1732 / 0.75		1832 / 0.86	1942 / 1.01	2058 / 1.19	2178 / 1.40	2303 / 1.65	
D76	1300	1665 / 0.73		1754 / 0.81		1844 / 0.91		1937 / 1.03	2031 / 1.17	2135 / 1.34	2241 / 1.54	2355 / 1.77	
D76	1400	1793 / 0.91		1877 / 1.00		1961 / 1.10		2044 / 1.22	2131 / 1.36	2222 / 1.53	2318 / 1.71		
D76	1500	1921 / 1.12		2000 / 1.21		2078 / 1.32		2155 / 1.44	2235 / 1.59	2318 / 1.75	2404 / 1.93		
D76	1600	2049 / 1.36		2122 / 1.46		2195 / 1.57		2266 / 1.69	2343 / 1.84				
D76	1700	2177 / 1.63		2246 / 1.73		2313 / 1.85		2384 / 1.98					
D76	1800	2305 / 1.93											
D76D	650	1290 / 0.32	1377 / 0.39	1471 / 0.48	1566 / 0.57	1671 / 0.70	1786 / 0.85						
D76D	700	1389 / 0.40	1471 / 0.48	1556 / 0.56	1643 / 0.66	1737 / 0.78	1837 / 0.93						
D76D	750	1488 / 0.49	1556 / 0.56	1641 / 0.66	1724 / 0.77	1812 / 0.89							
D76D	800	1587 / 0.60	1656 / 0.68	1732 / 0.78	1806 / 0.88								
D76D	850	1687 / 0.72	1753 / 0.80	1820 / 0.90									
D76D	900	1786 / 0.85	1848 / 0.94										

AD Series Modular Roof Mount and Inline

Direct Fired Heated Make-Up Air



The AD Series Direct Gas-Fired Heater is ETL listed for use in tempering make-up air. Unit meets ANSI/CSA safety standards and is designed for natural or propane gas applications. The heaters are rated for indoor/outdoor installations in commercial occupancies. A unique feature is the self-adjusting burner profile plates allowing variable-air-volume applications. The plates ensure proper air velocity and pressure drop across the burner for clean combustion. Spring-loaded profile plates react to the momentum of the fresh air stream, therefore, no motors or actuators are needed to drive them, nor do they need to be manually set to a specific position.

Features & Benefits

- G90 galvanized construction • Easy access doors
- Lifting points • Redundant gas valves • Disconnect switch
- Pre-wired, pre-piped controls • Horizontal or down discharge
- Vibration isolation • Fully insulated casing w/ aluminum casting
- Adjustable drive sheaves • Stainless steel burner
- Electronic flame modulation • Burner obsevation port
- 120 volt control transformer with single point electrical connection
- Intermittent spark pilot with timed safety lockout
- High temperature limit switch • Airflow proving switch
- Economizer inlet thermostat • Motor starter

Options

- Propane fuel application • Room override thermostat
- Clogged filter switch • Motorized intake damper
- Remote control panel including summer/winter switch & operating lights
- Freeze stat with bypass timer • Hi/Low gas pressure switches
- Room modulating thermostat • Convenience outlet
- High gas pressure regulator • Cooling Interlock
- DX cooling coils • V-Bank filter intake
- Evaporative cooler intake • Auxiliary starters
- Sloped filter intake • Indoor hanging cradle
- Inlet gas pressure gauge • VAV packages
- Roof curbs

Certifications

ETL Listed and Certified to ANSI/CSA Standards.

Measurements

	Unit Dimensions							
MODEL	A	B	C	D	E	F	G	H
A1-D	74 3/8	27 3/8	29 3/4	26 1/16	3 3/4	44 3/8	7 13/16	34 13/16
A2-D	82 3/8	37 3/8	36 3/4	33 1/16	3 3/4	53 5/8	7 13/16	42 13/16
A3-D	87 3/8	41 3/8	43 3/8	38 1/16	5 1/4	51 5/8	9 1/2	47 13/16
A4-D	118 1/2	48 7/16	51 3/8	46 1/8	5 1/4	76 3/8	13 9/16	66 5/16
A5-D	128 1/2	59 3/16	58 3/8	53 1/8	5 1/4	71 3/8	13 3/4	76 7/16

Measurements

	Discharge Opening				Curb	
MODEL	N	P	R	S	J	K
A1-D	13 1/4	11 1/2	3 7/8	5 9/16	21	71
A2-D	18 3/4	16	6 1/8	8 5/16	31	79
A3-D	22	19	6 1/2	10 5/16	35	84
A4-D	24 7/8	24 7/8	8 9/16	10 5/8	42	115 3/16
A5-D	31 3/8	31 3/8	10 11/16	12 7/8	52 3/4	125 3/16

	Unit Information			
MODEL	Filter Size	Burner Size	Pipe Size	Weight (lbs)
A1-D	(3) 16 x 20 x 2	250 or 500	3/4"	600
A2-D	(3) 20 x 25 x 2	250, 500 or 750	1"	815
A3-D	(6) 16 x 20 x 2	500, 750 or 1000	1"	980
A4-D	(10) 16 x 20 x 2	1000 or 1500	1 1/4"	1650
A5-D	(8) 20 x 25 x 2	2000 or 2500	1 1/2"	2175

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

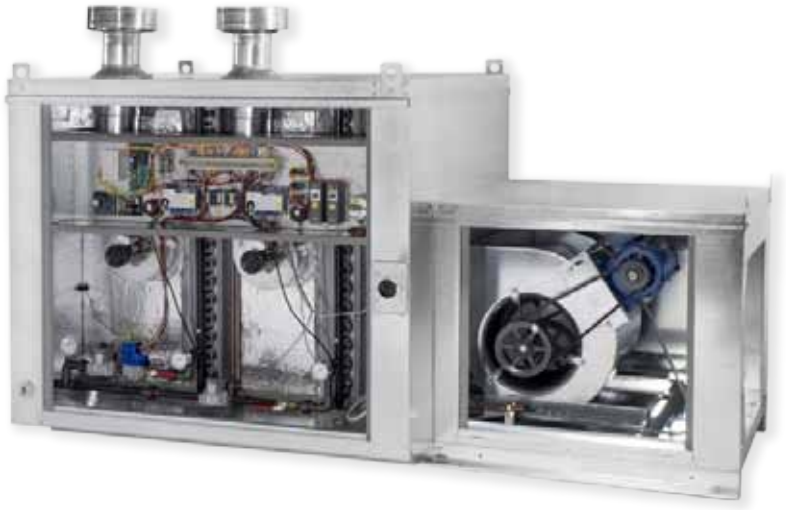
Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.00" RPM/BHP	0.25" RPM/BHP	0.50" RPM/BHP	0.75" RPM/BHP	1.00" RPM/BHP	1.25" RPM/BHP	1.50" RPM/BHP	1.75" RPM/BHP	2.00" RPM/BHP
A1-D	1750	639 / 0.31	821 / 0.45	965 / 0.60	1091 / 0.76	1209 / 0.93	1323 / 1.12	1432 / 1.32	1536 / 1.54	1636 / 1.77
A1-D	2000	730 / 0.46	892 / 0.62	1030 / 0.79	1147 / 0.97	1255 / 1.15	1359 / 1.34	1459 / 1.55	1558 / 1.78	1652 / 2.01
A1-D	2250	821 / 0.65	966 / 0.83	1098 / 1.03	1210 / 1.22	1310 / 1.42	1406 / 1.62	1499 / 1.84	1589 / 2.07	1678 / 2.31
A1-D	2500	913 / 0.90	1042 / 1.08	1168 / 1.31	1275 / 1.52	1371 / 1.74	1462 / 1.96	1548 / 2.19	1632 / 2.42	1714 / 2.67
A1-D	2750	1004 / 1.20	1120 / 1.39	1239 / 1.64	1343 / 1.88	1436 / 2.12	1522 / 2.35	1604 / 2.60	1683 / 2.85	
A1-D	3000	1095 / 1.55	1200 / 1.76	1312 / 2.02	1413 / 2.29	1503 / 2.55	1586 / 2.81			
A2-D	2000	324 / 0.16	520 / 0.35	659 / 0.59	769 / 0.83	862 / 1.07	943 / 1.32	1016 / 1.57	1082 / 1.83	1142 / 2.08
A2-D	2500	405 / 0.31	571 / 0.53	704 / 0.81	811 / 1.11	903 / 1.41	985 / 1.71	1060 / 2.02	1128 / 2.33	1190 / 2.64
A2-D	3000	486 / 0.54	624 / 0.76	753 / 1.10	856 / 1.44	946 / 1.80	1027 / 2.15	1101 / 2.52	1170 / 2.88	1233 / 3.25
A2-D	3500	566 / 0.85	682 / 1.09	804 / 1.46	905 / 1.85	992 / 2.26	1071 / 2.67	1144 / 3.08	1211 / 3.50	1275 / 3.93
A2-D	4000	647 / 1.27	744 / 1.51	856 / 1.91	955 / 2.35	1040 / 2.80	1118 / 3.27	1188 / 3.73	1255 / 4.20	1317 / 4.68
A2-D	4500	728 / 1.81	811 / 2.06	912 / 2.46	1006 / 2.95	1090 / 3.45	1166 / 3.96	1236 / 4.48	1300 / 5.00	
A2-D	5000	809 / 2.48	881 / 2.74	970 / 3.15	1060 / 3.66	1142 / 4.20	1216 / 4.77			
A2-D	5500	890 / 3.30	954 / 3.57	1032 / 3.98	1116 / 4.50					
A2-D	6000	971 / 4.28	1028 / 4.56	1098 / 4.98						
A3-D	3500	320 / 0.40	440 / 0.56	550 / 0.87	645 / 1.21	729 / 1.58	806 / 1.97	874 / 2.37	937 / 2.77	994 / 3.18
A3-D	4000	345 / 0.50	470 / 0.74	572 / 1.07	662 / 1.44	743 / 1.85	818 / 2.27	886 / 2.71	950 / 3.15	1008 / 3.61
A3-D	4500	388 / 0.71	502 / 0.96	598 / 1.32	682 / 1.72	760 / 2.15	832 / 2.60	898 / 3.06	962 / 3.56	1021 / 4.06
A3-D	5000	431 / 0.98	535 / 1.24	626 / 1.62	706 / 2.04	779 / 2.49	848 / 2.97	913 / 3.47	975 / 4.00	1033 / 4.53
A3-D	5500	474 / 1.30	569 / 1.57	656 / 1.97	732 / 2.42	802 / 2.90	868 / 3.40	930 / 3.93	989 / 4.48	
A3-D	6000	517 / 1.69	605 / 1.97	686 / 2.39	759 / 2.86	826 / 3.36	889 / 3.89	949 / 4.45		
A3-D	6500	560 / 2.15	641 / 2.43	719 / 2.87	789 / 3.36	853 / 3.89	913 / 4.45			
A3-D	7000	604 / 2.68	678 / 2.97	752 / 3.42	819 / 3.94	881 / 4.49				
A3-D	7500	647 / 3.30	716 / 3.59	786 / 4.05	850 / 4.59					
A3-D	8000	690 / 4.00	755 / 4.30	820 / 4.77						
A4-D	7000	350 / 1.05	408 / 1.32	473 / 1.75	539 / 2.22	602 / 2.71	663 / 3.22	719 / 3.75	772 / 4.30	821 / 4.85
A4-D	8000	376 / 1.31	448 / 1.83	506 / 2.31	563 / 2.81	620 / 3.35	676 / 3.92	730 / 4.50	781 / 5.10	830 / 5.70
A4-D	9000	423 / 1.87	490 / 2.46	542 / 2.99	593 / 3.55	644 / 4.13	695 / 4.73	745 / 5.36	793 / 6.01	840 / 6.68
A4-D	10000	470 / 2.56	533 / 3.23	581 / 3.83	627 / 4.43	673 / 5.05	718 / 5.70	764 / 6.38	809 / 7.07	854 / 7.78
A4-D	11000	517 / 3.40	576 / 4.16	621 / 4.82	663 / 5.48	705 / 6.15	747 / 6.84	788 / 7.55	830 / 8.29	871 / 9.05
A4-D	12000	564 / 4.42	620 / 5.26	663 / 5.99	702 / 6.70	740 / 7.42	778 / 8.16	816 / 8.92	854 / 9.70	
A4-D	13000	611 / 5.62	664 / 6.55	705 / 7.34	742 / 8.12	777 / 8.89	813 / 9.68			
A5-D	10000	260 / 1.21	375 / 2.25	456 / 3.16	524 / 4.10	587 / 5.09	644 / 6.12	696 / 7.18	744 / 8.25	788 / 9.32
A5-D	11000	286 / 1.61	395 / 2.78	473 / 3.79	538 / 4.79	598 / 5.85	654 / 6.95	706 / 8.09	754 / 9.26	799 / 10.43
A5-D	12000	312 / 2.09	414 / 3.39	490 / 4.50	554 / 5.59	612 / 6.71	665 / 7.88	716 / 9.09	764 / 10.33	808 / 11.60
A5-D	13000	338 / 2.66	434 / 4.08	509 / 5.32	571 / 6.49	626 / 7.68	678 / 8.91	727 / 10.19	774 / 11.50	818 / 12.85
A5-D	14000	364 / 3.32	454 / 4.85	528 / 6.23	588 / 7.50	642 / 8.77	692 / 10.06	740 / 11.40	785 / 12.78	828 / 14.19
A5-D	15000	389 / 4.09	474 / 5.72	547 / 7.25	606 / 8.63	659 / 9.98	707 / 11.34	753 / 12.74	797 / 14.18	840 / 15.66
A5-D	16000	415 / 4.96	494 / 6.70	567 / 8.38	625 / 9.88	676 / 11.32	723 / 12.75	768 / 14.23	811 / 15.73	852 / 17.27
A5-D	17000	441 / 5.95	515 / 7.78	586 / 9.62	644 / 11.24	694 / 12.79	740 / 14.31	784 / 15.86	825 / 17.43	865 / 19.03
A5-D	18000	467 / 7.06	536 / 8.98	606 / 10.98	663 / 12.74	713 / 14.39	758 / 16.01	800 / 17.63	841 / 19.27	
A5-D	19000	493 / 8.30	557 / 10.30	626 / 12.45	682 / 14.36	731 / 16.14	776 / 17.86	818 / 19.56		
A5-D	20000	519 / 9.69	579 / 11.76	646 / 14.06	702 / 16.12	751 / 18.03	794 / 19.85			
A5-D	21000	545 / 11.21	602 / 13.36	666 / 15.80	722 / 18.02					

Direct Drive

Performance		Static Pressure in Inches W.G.				
MODEL	CFM	0.00" RPM/BHP	0.25" RPM/BHP	0.50" RPM/BHP	0.75" RPM/BHP	1.00" RPM/BHP
A1-D	1000	754 / 0.06	954 / 0.13	1215 / 0.27	1468 / 0.47	1689 / 0.72
A1-D	1250	943 / 0.13	1090 / 0.19	1281 / 0.31	1492 / 0.50	1701 / 0.74
A1-D	1500	1130 / 0.22	1248 / 0.29	1391 / 0.40	1558 / 0.57	1734 / 0.78
A1-D	1750	1319 / 0.34	1417 / 0.43	1531 / 0.54	1660 / 0.68	1804 / 0.88
A1-D	2000	1507 / 0.51	1591 / 0.60	1686 / 0.72	1792 / 0.86	
A1-D	2250	1696 / 0.73	1769 / 0.83	1844 / 0.94	1210 / 1.22	

A-IBT Series Modular Rooftop

Indirect Fired Heated Make-Up Air



The Modular Indirect Fired Bent Tube Heater (Model IBT) is designed to deliver clean air into an indoor environment. The push-through design of the unit ensures that combustion fumes will not enter the fresh air stream being delivered into the space.

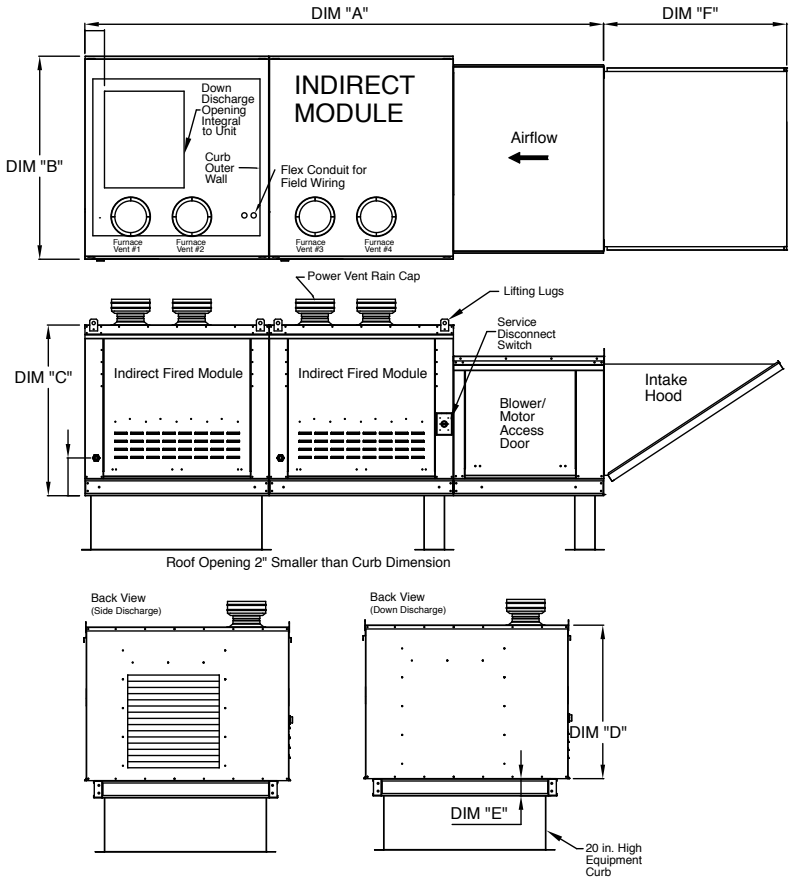
The standard unit includes a blower module and the indirect heater module with multiple options for discharge and intake. Five housing sizes are available in our modular design with up to four furnaces available in one unit. The air volume range is from 800 to 15,000 CFM and up to a maximum of 3 inches wg. for static pressure.

Features & Benefits

- Bent Tube In-Shot Style Furnace with Type 409 Stainless-Steel Heat Exchanger
- High Turndown Ratio Ranging from 6:1 per furnace, Maximum 28:1
- Fully Modulating Gas Output Control Standard
- Constant 80% Efficiency Over Entire Gas Firing Range — Variable Power-Vent Blower Speed Control
- Standard High Fire Start to Ensure Optimum Light-Off
- Standard Inlet & Manifold Pressure Gauges
- Isolated & Insulated Electrical Controls Vestibule
- Fully Insulated Cabinet and Power-Venter Post Purge for Condensation Prevention
- End Discharge or Integral Down Discharge
- Discharge, Space or Building Automation System (BAS) Temperature Control

Options

- 5:1 Turndown for Propane (LP) per Furnace, Maximum 23:1
- Blower on Delay for Heat Exchanger Reheat
- Motorized Intake Damper
- Single Point Electrical Connection
- Freeze-stat Option
- Roof Curbs or Indoor Hanging Cradle
- Variable Air Volume (VAV) Controls
- Option for Dedicated Combustion



Certifications

The unit is listed to the ANSI Z83.8- 2006 and CSA 2.6-2006 standards. The furnace is certified by the American Gas Association and approved by the Canadian Gas Association.

Measurements

	Unit Dimensions (all dimensions nominal & given in inches)						BTU Range (MBH)			Turndown Ratio	Gas Pressure		Weight (lbs)
MODEL	A	B	C	D	E	F (NPT)	Burner Input	BTU Low	BTU High		Min	Max	
A1-IBT-150-G10	92-1/4	49-1/2	39-9/16	44-3/8	71	3/4	150	20.8	124.5	6	7" WC	14" WC	817
A1-IBT-200-G10	92-1/4	49-1/2	39-9/16	44-3/8	71	3/4	200	27.7	166	6	7" WC	14" WC	847
A1-IBT-300-150-150-G10	92-1/4	49-1/2	39-9/16	44-3/8	71	3/4	300	20.8	249	12	7" WC	14" WC	902
A1-IBT-400-200-200-G10	92-1/4	49-1/2	39-9/16	44-3/8	71	3/4	400	27.7	332	12	7" WC	14" WC	976
A2-IBT-200-G15	100-1/4	49-1/2	39-9/16	44-3/8	79	1	200	27.7	166	6	7" WC	14" WC	1020
A2-IBT-300-G15	100-1/4	49-1/2	53-7/8	53-5/8	79	1	300	41.5	249	6	7" WC	14" WC	1112
A2-IBT-400-G15	100-1/4	49-1/2	53-7/8	53-5/8	79	1	400	55.3	332	6	7" WC	14" WC	1191
A2-IBT-400-200-200-G15	100-1/4	49-1/2	39-9/16	53-5/8	79	1	400	27.7	332	12	7" WC	14" WC	1079
A2-IBT-600-300-300-G15	100-1/4	49-1/2	53-7/8	53-5/8	79	1	600	41.5	498	12	7" WC	14" WC	1233
A2-IBT-800-400-400-G15	100-1/4	49-1/2	53-7/8	53-5/8	79	1	800	55.3	664	12	7" WC	14" WC	1346
A3-IBT-400-G18	105-1/4	57-3/4	57-1/16	51-5/8	84	1	400	55.3	332	6	7" WC	14" WC	1472
A3-IBT-600-300-300-G18	105-1/4	57-3/4	57-1/16	51-5/8	84	1	600	41.5	498	12	7" WC	14" WC	1590
A3-IBT-800-400-400-G18	105-1/4	57-3/4	57-1/16	51-5/8	84	1	800	55.3	664	12	7" WC	14" WC	1728
A3-IBT-1000-300-300-400-G18	165-3/8	57-3/4	57-1/16	51-5/8	84	1	1000	41.5	830	20	7" WC	14" WC	2467
A3-IBT-1200-400-400-400-G18	165-3/8	57-3/4	57-1/16	51-5/8	84	1	1200	55.3	996	18	7" WC	14" WC	2579
A4-IBT-400-920	124-5/16	57-3/4	57-1/16	76-3/8	42	1	400	55.3	332	6	7" WC	14" WC	1882
A4-IBT-800-400-400-920	124-5/16	57-3/4	57-1/16	76-3/8	42	1	800	55.3	664	12	7" WC	14" WC	2099
A4-IBT-1000-300-300-400-920	184-7/16	57-3/4	57-1/16	76-3/8	42	1	1000	41.5	830	20	7" WC	14" WC	2982
A4-IBT-1200-400-400-400-920	184-7/16	57-3/4	57-1/16	76-3/8	42	1	1200	55.3	996	18	7" WC	14" WC	3094
A4-IBT-1400-300-300-400-400-920	184-7/16	57-3/4	57-1/16	76-3/8	42	1	1400	41.5	1162	28	7" WC	14" WC	3206
A4-IBT-1600-400-400-400-400-920	184-7/16	57-3/4	57-1/16	76-3/8	42	1	1600	55.3	1328	24	7" WC	14" WC	3318
A5-IBT-800-400-400-925	134-5/16	66-3/8	59-15/16	71-3/8	52-3/4	1	800	55.3	664	12	7" WC	14" WC	2587
A5-IBT-1000-300-300-400-925	194-7/16	66-3/8	59-15/16	71-3/8	52-3/4	1	1000	41.5	830	20	7" WC	14" WC	3359
A5-IBT-1200-400-400-400-925	194-7/16	66-3/8	59-15/16	71-3/8	52-3/4	1	1200	55.3	996	18	7" WC	14" WC	3471
A5-IBT-1400-300-300-400-400-925	194-7/16	66-3/8	59-15/16	71-3/8	52-3/4	1	1400	41.5	1162	28	7" WC	14" WC	3583
A5-IBT-1600-400-400-400-400-925	194-7/16	66-3/8	59-15/16	71-3/8	52-3/4	1	1600	55.3	1328	24	7" WC	14" WC	3695

A-IBT Performance

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.000" RPM/BHP	0.250" RPM/BHP	0.500 RPM/BHP	0.750 RPM/BHP	1.000 RPM/BHP	1.250 RPM/BHP	1.500 RPM/BHP	1.750 RPM/BHP	2.000 RPM/BHP
A1-IBT-150-G10	800		530 / 0.08	734 / 0.16	893 / 0.23	1018 / 0.32				
A1-IBT-150-G10	1000		560 / 0.12	739 / 0.20	899 / 0.29	1035 / 0.39	1151 / 0.49	1250 / 0.60	1337 / 0.72	
A1-IBT-150-G10	1200	409 / 0.09	601 / 0.16	758 / 0.25	904 / 0.36	1039 / 0.47	1159 / 0.58	1267 / 0.70	1362 / 0.82	1449 / 0.95
A1-IBT-150-G10	1400	477 / 0.14	648 / 0.22	790 / 0.32	920 / 0.44	1045 / 0.56	1162 / 0.69	1272 / 0.82	1371 / 0.95	1463 / 1.08
A1-IBT-150-G10	1600	545 / 0.21	697 / 0.30	829 / 0.41	947 / 0.53	1060 / 0.67	1170 / 0.81	1275 / 0.96	1375 / 1.10	1468 / 1.25
A1-IBT-150-G10	1800	613 / 0.30	750 / 0.41	873 / 0.51	983 / 0.64	1087 / 0.79	1187 / 0.94	1285 / 1.10	1379 / 1.26	1471 / 1.43
A1-IBT-150-G10	2000	681 / 0.41	804 / 0.53	921 / 0.65	1024 / 0.78	1120 / 0.93	1213 / 1.09	1304 / 1.26	1392 / 1.43	1478 / 1.61
A1-IBT-150-G10	2200	749 / 0.54	860 / 0.68	970 / 0.81	1068 / 0.94	1159 / 1.09	1246 / 1.26	1330 / 1.44	1412 / 1.62	1494 / 1.82
A1-IBT-150-G10	2400	817 / 0.70	918 / 0.86	1022 / 0.99	1116 / 1.13	1202 / 1.29	1284 / 1.46	1363 / 1.64	1441 / 1.84	
A1-IBT-150-G10	2600	885 / 0.89	978 / 1.06	1074 / 1.21	1165 / 1.36	1248 / 1.52	1326 / 1.70	1401 / 1.88		
A1-IBT-150-G10	2800	953 / 1.11	1038 / 1.30	1129 / 1.46	1215 / 1.62	1295 / 1.79	1371 / 1.97			
A1-IBT-150-G10	3000	1021 / 1.37	1100 / 1.57	1185 / 1.75	1267 / 1.92					
A1-IBT-150-G10	3200	1089 / 1.66	1162 / 1.88							
A1-IBT-150-G10D	800	754 / 0.06	971 / 0.14	1221 / 0.27	1473 / 0.48	1695 / 0.73				
A1-IBT-150-G10D	1000	943 / 0.13	1112 / 0.21	1297 / 0.33	1502 / 0.51	1706 / 0.74				
A1-IBT-150-G10D	1200	1131 / 0.22	1273 / 0.31	1418 / 0.43	1577 / 0.59	1744 / 0.79				
A1-IBT-150-G10D	1400	1318 / 0.34	1440 / 0.45	1562 / 0.57	1687 / 0.72	1828 / 0.91				
A1-IBT-150-G10D	1600	1505 / 0.51	1615 / 0.63	1720 / 0.76	1829 / 0.91					
A1-IBT-150-G10D	1800	1695 / 0.73	1791 / 0.86							
A1-IBT-200-G10	1200	409 / 0.09	601 / 0.16	758 / 0.25	904 / 0.36	1039 / 0.47	1159 / 0.58	1267 / 0.70	1362 / 0.82	1449 / 0.95
A1-IBT-200-G10	1400	477 / 0.14	648 / 0.22	790 / 0.32	920 / 0.44	1045 / 0.56	1162 / 0.69	1272 / 0.82	1371 / 0.95	1463 / 1.08
A1-IBT-200-G10	1600	545 / 0.21	697 / 0.30	829 / 0.41	947 / 0.53	1060 / 0.67	1170 / 0.81	1275 / 0.96	1375 / 1.10	1468 / 1.25
A1-IBT-200-G10	1800	613 / 0.30	750 / 0.41	873 / 0.51	983 / 0.64	1087 / 0.79	1187 / 0.94	1285 / 1.10	1379 / 1.26	1471 / 1.43
A1-IBT-200-G10	2000	681 / 0.41	804 / 0.53	921 / 0.65	1024 / 0.78	1120 / 0.93	1213 / 1.09	1304 / 1.26	1392 / 1.43	1478 / 1.61
A1-IBT-200-G10	2200	749 / 0.54	860 / 0.68	970 / 0.81	1068 / 0.94	1159 / 1.09	1246 / 1.26	1330 / 1.44	1412 / 1.62	1494 / 1.82
A1-IBT-200-G10	2400	817 / 0.70	918 / 0.86	1022 / 0.99	1116 / 1.13	1202 / 1.29	1284 / 1.46	1363 / 1.64	1441 / 1.84	
A1-IBT-200-G10	2600	885 / 0.89	978 / 1.06	1074 / 1.21	1165 / 1.36	1248 / 1.52	1326 / 1.70	1401 / 1.88		
A1-IBT-200-G10	2800	953 / 1.11	1038 / 1.30	1129 / 1.46	1215 / 1.62	1295 / 1.79	1371 / 1.97			
A1-IBT-200-G10	3000	1021 / 1.37	1100 / 1.57	1185 / 1.75	1267 / 1.92					
A1-IBT-200-G10	3200	1089 / 1.66	1162 / 1.88							
A1-IBT-200-G10D	1200	1131 / 0.22	1273 / 0.31	1418 / 0.43	1577 / 0.59	1744 / 0.79				
A1-IBT-200-G10D	1400	1318 / 0.34	1440 / 0.45	1562 / 0.57	1687 / 0.72	1828 / 0.91				
A1-IBT-200-G10D	1600	1505 / 0.51	1615 / 0.63	1720 / 0.76	1829 / 0.91					
A1-IBT-200-G10D	1800	1695 / 0.73	1791 / 0.86							
A1-IBT-300-150-150-G10	2200	837 / 0.62	941 / 0.77	1035 / 0.90	1115 / 1.02	1199 / 1.17				
A1-IBT-300-150-150-G10	2400	913 / 0.81	1008 / 0.97	1099 / 1.12	1175 / 1.25	1249 / 1.39	1329 / 1.56			
A1-IBT-300-150-150-G10	2600	989 / 1.03	1075 / 1.20	1163 / 1.37	1238 / 1.51	1305 / 1.66	1374 / 1.82			
A1-IBT-300-150-150-G10	2800	1065 / 1.28	1143 / 1.47	1229 / 1.66	1301 / 1.82	1366 / 1.97				
A1-IBT-300-150-150-G10	3000	1142 / 1.58	1213 / 1.78	1294 / 1.98						
A1-IBT-300-150-150-G10D	800	839 / 0.09	1047 / 0.17	1262 / 0.30	1476 / 0.48	1681 / 0.71	1874 / 0.98			
A1-IBT-300-150-150-G10D	1000	1048 / 0.17	1215 / 0.27	1383 / 0.40	1555 / 0.56	1727 / 0.77				
A1-IBT-300-150-150-G10D	1200	1257 / 0.30	1395 / 0.41	1536 / 0.54	1678 / 0.71	1821 / 0.90				
A1-IBT-300-150-150-G10D	1400	1466 / 0.47	1586 / 0.60	1705 / 0.74	1825 / 0.91					
A1-IBT-300-150-150-G10D	1600	1675 / 0.70	1780 / 0.84							
A1-IBT-400-200-200-G10	2200	837 / 0.62	940 / 0.77	1031 / 0.89	1122 / 1.02	1213 / 1.19	1306 / 1.39	1397 / 1.62	1485 / 1.88	
A1-IBT-400-200-200-G10	2400	913 / 0.81	1009 / 0.98	1093 / 1.11	1176 / 1.24	1260 / 1.40	1345 / 1.60	1429 / 1.82		
A1-IBT-400-200-200-G10	2600	989 / 1.03	1079 / 1.22	1158 / 1.36	1235 / 1.50	1311 / 1.66	1389 / 1.84			
A1-IBT-400-200-200-G10	2800	1065 / 1.28	1150 / 1.49	1224 / 1.65	1295 / 1.80	1367 / 1.96				
A1-IBT-400-200-200-G10	3000	1141 / 1.58	1221 / 1.81	1291 / 1.98						
A1-IBT-400-200-200-G10D	800	839 / 0.09	1047 / 0.17	1262 / 0.30	1476 / 0.48	1681 / 0.71	1874 / 0.98			
A1-IBT-400-200-200-G10D	1000	1048 / 0.17	1215 / 0.27	1383 / 0.40	1555 / 0.56	1727 / 0.77				
A1-IBT-400-200-200-G10D	1200	1257 / 0.30	1395 / 0.41	1536 / 0.54	1678 / 0.71	1821 / 0.90				
A1-IBT-400-200-200-G10D	1400	1466 / 0.47	1586 / 0.60	1705 / 0.74	1825 / 0.91					
A1-IBT-400-200-200-G10D	1600	1675 / 0.70	1780 / 0.84							
A2-IBT-200-G15	1700	402 / 0.19	494 / 0.27	626 / 0.48	719 / 0.62	786 / 0.72	841 / 0.79	890 / 0.86	935 / 0.91	978 / 0.97
A2-IBT-200-G15	2100	497 / 0.35	565 / 0.44	660 / 0.62	768 / 0.88	850 / 1.09	913 / 1.23	966 / 1.35	1013 / 1.45	1055 / 1.53
A2-IBT-200-G15	2500	591 / 0.59	646 / 0.68	713 / 0.84	801 / 1.10	894 / 1.42	970 / 1.69	1031 / 1.90	1083 / 2.07	1129 / 2.21
A2-IBT-200-G15	2900	686 / 0.92	733 / 1.02	785 / 1.17	849 / 1.38	927 / 1.70	1008 / 2.07	1080 / 2.42	1141 / 2.71	1192 / 2.95
A2-IBT-200-G15	3300	780 / 1.35	821 / 1.47	865 / 1.61	914 / 1.80	973 / 2.07	1041 / 2.43	1114 / 2.85	1182 / 3.27	1242 / 3.64
A2-IBT-200-G15	3700	875 / 1.91	911 / 2.04	949 / 2.19	990 / 2.37	1036 / 2.60	1089 / 2.91	1149 / 3.30	1214 / 3.76	1278 / 4.24

Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.000" RPM/BHP	0.250" RPM/BHP	0.500 RPM/BHP	0.750 RPM/BHP	1.000 RPM/BHP	1.250 RPM/BHP	1.500 RPM/BHP	1.750 RPM/BHP	2.000 RPM/BHP
A2-IBT-200-G15	4100	969 / 2.59	1002 / 2.74	1036 / 2.90	1071 / 3.08	1110 / 3.29	1152 / 3.57	1200 / 3.90	1253 / 4.32	1310 / 4.80
A2-IBT-200-G15	4500	1064 / 3.43	1094 / 3.59	1124 / 3.75	1156 / 3.94	1189 / 4.15	1225 / 4.41	1264 / 4.70		
A2-IBT-200-G15	4900	1158 / 4.43	1186 / 4.60	1214 / 4.78	1242 / 4.97					
A2-IBT-300-G15	2400	370 / 0.26	462 / 0.34	577 / 0.51	675 / 0.71	762 / 0.94	842 / 1.17	917 / 1.40	987 / 1.63	1052 / 1.86
A2-IBT-300-G15	2900	448 / 0.45	514 / 0.54	612 / 0.70	704 / 0.92	786 / 1.16	861 / 1.43	931 / 1.70	998 / 1.98	1061 / 2.26
A2-IBT-300-G15	3400	525 / 0.73	576 / 0.83	653 / 0.97	738 / 1.18	817 / 1.44	888 / 1.72	954 / 2.03	1017 / 2.34	1077 / 2.66
A2-IBT-300-G15	3900	602 / 1.10	644 / 1.21	704 / 1.35	777 / 1.55	851 / 1.80	919 / 2.09	983 / 2.41	1043 / 2.75	1100 / 3.09
A2-IBT-300-G15	4400	679 / 1.58	715 / 1.70	762 / 1.84	823 / 2.03	889 / 2.27	954 / 2.56	1016 / 2.88	1074 / 3.23	1129 / 3.60
A2-IBT-300-G15	4900	756 / 2.18	787 / 2.32	827 / 2.47	876 / 2.65	933 / 2.87	992 / 3.15	1051 / 3.47	1107 / 3.82	1161 / 4.19
A2-IBT-300-G15	5400	833 / 2.92	861 / 3.06	894 / 3.23	935 / 3.41	983 / 3.62	1035 / 3.88	1090 / 4.19	1143 / 4.53	1195 / 4.91
A2-IBT-300-G15	5900	910 / 3.81	935 / 3.97	965 / 4.14	999 / 4.32	1039 / 4.54	1084 / 4.78			
A2-IBT-400-200-200-G15	2500	630 / 0.66	708 / 0.82	811 / 1.09	901 / 1.38	971 / 1.64	1029 / 1.85	1079 / 2.04	1124 / 2.22	1166 / 2.38
A2-IBT-400-200-200-G15	2750	693 / 0.88	761 / 1.05	852 / 1.31	943 / 1.64	1017 / 1.95	1078 / 2.22	1129 / 2.45	1176 / 2.67	1218 / 2.86
A2-IBT-400-200-200-G15	3000	756 / 1.14	817 / 1.32	897 / 1.58	984 / 1.93	1060 / 2.28	1124 / 2.61	1178 / 2.89	1226 / 3.15	1269 / 3.39
A2-IBT-400-200-200-G15	3250	819 / 1.46	874 / 1.64	944 / 1.89	1024 / 2.25	1101 / 2.64	1167 / 3.01	1224 / 3.35	1274 / 3.67	1319 / 3.95
A2-IBT-400-200-200-G15	3500	882 / 1.82	932 / 2.01	994 / 2.26	1067 / 2.61	1142 / 3.02	1209 / 3.45	1269 / 3.84	1321 / 4.21	1367 / 4.54
A2-IBT-400-200-200-G15	3750	945 / 2.24	991 / 2.44	1046 / 2.69	1112 / 3.03	1182 / 3.45	1250 / 3.91	1311 / 4.35	1365 / 4.77	
A2-IBT-400-200-200-G15	4000	1008 / 2.71	1050 / 2.93	1101 / 3.19	1160 / 3.52	1225 / 3.93	1290 / 4.41	1352 / 4.89		
A2-IBT-400-200-200-G15	4250	1071 / 3.25	1111 / 3.48	1156 / 3.74	1210 / 4.07	1269 / 4.48	1331 / 4.96			
A2-IBT-400-200-200-G15	4500	1134 / 3.86	1171 / 4.10	1214 / 4.37	1262 / 4.70					
A2-IBT-400-200-200-G15	4750	1197 / 4.54	1232 / 4.79							
A2-IBT-400-G15	2500	386 / 0.29	471 / 0.38	584 / 0.54	680 / 0.75	766 / 0.98	845 / 1.22	919 / 1.46	989 / 1.70	1054 / 1.94
A2-IBT-400-G15	3000	463 / 0.50	526 / 0.59	620 / 0.75	711 / 0.96	792 / 1.21	866 / 1.48	935 / 1.76	1001 / 2.05	1064 / 2.34
A2-IBT-400-G15	3500	540 / 0.80	589 / 0.90	663 / 1.04	746 / 1.25	823 / 1.51	894 / 1.79	960 / 2.10	1022 / 2.41	1082 / 2.74
A2-IBT-400-G15	4000	617 / 1.19	658 / 1.30	715 / 1.44	786 / 1.63	858 / 1.89	926 / 2.18	989 / 2.50	1049 / 2.84	1106 / 3.19
A2-IBT-400-G15	4500	694 / 1.69	729 / 1.81	775 / 1.96	833 / 2.14	897 / 2.38	961 / 2.67	1022 / 2.99	1080 / 3.34	1135 / 3.71
A2-IBT-400-G15	5000	771 / 2.32	802 / 2.45	840 / 2.61	887 / 2.79	942 / 3.01	1000 / 3.28	1058 / 3.60	1112 / 3.93	1167 / 4.33
A2-IBT-400-G15	5500	849 / 3.08	876 / 3.23	908 / 3.40	947 / 3.58	994 / 3.79	1045 / 4.05	1098 / 4.35	1151 / 4.69	
A2-IBT-400-G15	6000	926 / 4.00	950 / 4.17	979 / 4.34	1012 / 4.53	1051 / 4.74	1095 / 4.99			
A2-IBT-600-300-300-G15	2500	432 / 0.32	537 / 0.49	629 / 0.65	712 / 0.83	795 / 1.03	877 / 1.26	953 / 1.51	1020 / 1.76	1079 / 2.02
A2-IBT-600-300-300-G15	3000	518 / 0.55	605 / 0.75	690 / 0.95	763 / 1.14	832 / 1.36	901 / 1.59	970 / 1.85	1038 / 2.12	1104 / 2.41
A2-IBT-600-300-300-G15	3500	604 / 0.88	676 / 1.11	755 / 1.34	823 / 1.57	885 / 1.80	944 / 2.04	1003 / 2.30	1063 / 2.58	1122 / 2.88
A2-IBT-600-300-300-G15	4000	690 / 1.31	751 / 1.57	822 / 1.84	887 / 2.10	945 / 2.36	1000 / 2.62	1052 / 2.89	1104 / 3.18	1155 / 3.48
A2-IBT-600-300-300-G15	4500	777 / 1.87	828 / 2.15	892 / 2.46	953 / 2.76	1009 / 3.05	1061 / 3.34	1109 / 3.63	1156 / 3.93	1202 / 4.25
A2-IBT-600-300-300-G15	5000	863 / 2.57	908 / 2.88	963 / 3.21	1021 / 3.55	1075 / 3.88	1124 / 4.20	1171 / 4.52	1215 / 4.85	
A2-IBT-600-300-300-G15	5500	949 / 3.42	989 / 3.75	1038 / 4.12	1090 / 4.49	1142 / 4.86				
A2-IBT-600-300-300-G15	6000	1036 / 4.44	1071 / 4.80							
A2-IBT-800-400-400-G15	5000	863 / 2.57	908 / 2.88	963 / 3.21	1021 / 3.55	1075 / 3.88	1124 / 4.20	1171 / 4.52	1215 / 4.85	
A2-IBT-800-400-400-G15	5200	897 / 2.89	940 / 3.21	993 / 3.56	1049 / 3.91	1101 / 4.25	1150 / 4.59	1196 / 4.92		
A2-IBT-800-400-400-G15	5400	932 / 3.23	972 / 3.56	1023 / 3.93	1077 / 4.30	1128 / 4.65	1176 / 5.00			
A2-IBT-800-400-400-G15	5600	967 / 3.61	1005 / 3.95	1053 / 4.32	1105 / 4.70					
A2-IBT-800-400-400-G15	5800	1001 / 4.01	1038 / 4.36	1083 / 4.74						
A2-IBT-800-400-400-G15	6000	1036 / 4.44	1071 / 4.80							
A3-IBT-1000-300-300-400-G18	5500	482 / 1.27	553 / 1.35	607 / 1.59	663 / 1.92	722 / 2.33	785 / 2.79	848 / 3.29	910 / 3.81	968 / 4.33
A3-IBT-1000-300-300-400-G18	6000	526 / 1.65	594 / 1.72	644 / 1.95	694 / 2.28	746 / 2.67	801 / 3.14	859 / 3.65	917 / 4.20	974 / 4.76
A3-IBT-1000-300-300-400-G18	6500	569 / 2.10	635 / 2.15	682 / 2.38	727 / 2.70	774 / 3.09	824 / 3.55	875 / 4.06	928 / 4.62	
A3-IBT-1000-300-300-400-G18	7000	613 / 2.63	676 / 2.65	721 / 2.88	763 / 3.20	806 / 3.58	850 / 4.03	897 / 4.54		
A3-IBT-1000-300-300-400-G18	7500	656 / 3.23	717 / 3.24	760 / 3.46	800 / 3.77	840 / 4.15	880 / 4.59			
A3-IBT-1000-300-300-400-G18	8000	700 / 3.92	759 / 3.91	800 / 4.12	838 / 4.43	875 / 4.80				
A3-IBT-1000-300-300-400-G18	8500	744 / 4.70	801 / 4.67	841 / 4.87						
A3-IBT-1200-400-400-400-G18	5500	482 / 1.27	553 / 1.35	607 / 1.59	663 / 1.92	722 / 2.33	785 / 2.79	848 / 3.29	910 / 3.81	968 / 4.33
A3-IBT-1200-400-400-400-G18	6000	526 / 1.65	594 / 1.72	644 / 1.95	694 / 2.28	746 / 2.67	801 / 3.14	859 / 3.65	917 / 4.20	974 / 4.76
A3-IBT-1200-400-400-400-G18	6500	569 / 2.10	635 / 2.15	682 / 2.38	727 / 2.70	774 / 3.09	824 / 3.55	875 / 4.06	928 / 4.62	
A3-IBT-1200-400-400-400-G18	7000	613 / 2.63	676 / 2.65	721 / 2.88	763 / 3.20	806 / 3.58	850 / 4.03	897 / 4.54		
A3-IBT-1200-400-400-400-G18	7500	656 / 3.23	717 / 3.24	760 / 3.46	800 / 3.77	840 / 4.15	880 / 4.59			
A3-IBT-1200-400-400-400-G18	8000	700 / 3.92	759 / 3.91	800 / 4.12	838 / 4.43	875 / 4.80				
A3-IBT-1200-400-400-400-G18	8500	744 / 4.70	801 / 4.67	841 / 4.87						
A3-IBT-400-G18	4500	329 / 0.55	406 / 0.71	487 / 0.91	565 / 1.18	637 / 1.49	702 / 1.82	762 / 2.16	818 / 2.51	869 / 2.87
A3-IBT-400-G18	5000	366 / 0.76	434 / 0.92	507 / 1.13	579 / 1.40	647 / 1.71	711 / 2.06	771 / 2.43	826 / 2.81	877 / 3.20
A3-IBT-400-G18	5500	402 / 1.01	464 / 1.19	530 / 1.40	596 / 1.66	660 / 1.98	722 / 2.34	780 / 2.72	834 / 3.13	885 / 3.54
A3-IBT-400-G18	6000	439 / 1.31	495 / 1.51	555 / 1.72	615 / 1.99	676 / 2.30	734 / 2.66	790 / 3.06	843 / 3.48	894 / 3.91

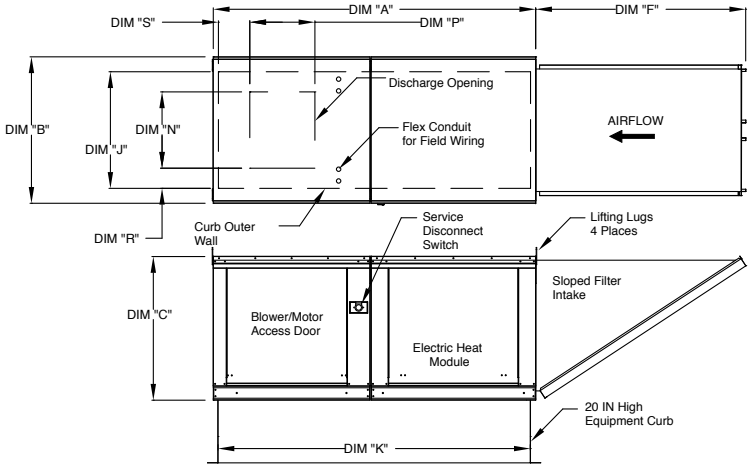
A-IBT Performance

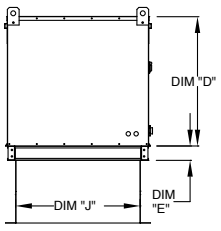
Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.000" RPM/BHP	0.250" RPM/BHP	0.500 RPM/BHP	0.750 RPM/BHP	1.000 RPM/BHP	1.250 RPM/BHP	1.500 RPM/BHP	1.750 RPM/BHP	2.000 RPM/BHP
A3-IBT-400-G18	6500	475 / 1.66	527 / 1.88	582 / 2.10	638 / 2.37	694 / 2.68	749 / 3.04	802 / 3.44	854 / 3.87	903 / 4.32
A3-IBT-400-G18	7000	512 / 2.08	560 / 2.31	610 / 2.55	662 / 2.82	714 / 3.13	766 / 3.48	817 / 3.88	866 / 4.31	914 / 4.77
A3-IBT-400-G18	7500	549 / 2.56	593 / 2.80	640 / 3.05	687 / 3.33	736 / 3.64	785 / 4.00	833 / 4.39	880 / 4.83	
A3-IBT-400-G18	8000	585 / 3.10	627 / 3.37	670 / 3.63	714 / 3.91	760 / 4.23	805 / 4.58	851 / 4.98		
A3-IBT-400-G18	8500	622 / 3.72	661 / 4.00	701 / 4.28	743 / 4.57	785 / 4.90				
A3-IBT-400-G18	9000	658 / 4.42	695 / 4.72							
A3-IBT-600-300-300-G18	4000	348 / 0.43	433 / 0.59	501 / 0.81	572 / 1.08	644 / 1.38	714 / 1.71	780 / 2.06	840 / 2.41	896 / 2.77
A3-IBT-600-300-300-G18	4500	392 / 0.62	471 / 0.78	531 / 1.01	593 / 1.28	656 / 1.60	720 / 1.95	783 / 2.31	843 / 2.70	899 / 3.09
A3-IBT-600-300-300-G18	5000	435 / 0.84	510 / 1.02	565 / 1.25	619 / 1.54	675 / 1.86	732 / 2.22	790 / 2.60	847 / 3.00	902 / 3.42
A3-IBT-600-300-300-G18	5500	479 / 1.12	550 / 1.30	601 / 1.55	650 / 1.84	700 / 2.17	751 / 2.54	803 / 2.93	856 / 3.35	908 / 3.78
A3-IBT-600-300-300-G18	6000	522 / 1.46	590 / 1.65	638 / 1.91	683 / 2.21	729 / 2.54	775 / 2.91	822 / 3.31	869 / 3.74	918 / 4.19
A3-IBT-600-300-300-G18	6500	565 / 1.85	631 / 2.05	677 / 2.32	719 / 2.63	760 / 2.97	802 / 3.35	845 / 3.76	888 / 4.19	932 / 4.65
A3-IBT-600-300-300-G18	7000	609 / 2.32	672 / 2.52	716 / 2.80	755 / 3.12	794 / 3.47	833 / 3.86	872 / 4.27	911 / 4.71	
A3-IBT-600-300-300-G18	7500	652 / 2.85	714 / 3.06	755 / 3.35	793 / 3.68	830 / 4.04	866 / 4.44	902 / 4.86		
A3-IBT-600-300-300-G18	8000	696 / 3.46	755 / 3.67	796 / 3.98	832 / 4.32	866 / 4.69				
A3-IBT-600-300-300-G18	8500	739 / 4.15	797 / 4.37	836 / 4.68						
A3-IBT-600-300-300-G18	9000	782 / 4.92								
A3-IBT-800-400-400-G18	4000	348 / 0.43	433 / 0.59	501 / 0.81	572 / 1.08	644 / 1.38	714 / 1.71	780 / 2.06	840 / 2.41	896 / 2.77
A3-IBT-800-400-400-G18	4500	392 / 0.62	471 / 0.78	531 / 1.01	593 / 1.28	656 / 1.60	720 / 1.95	783 / 2.31	843 / 2.70	899 / 3.09
A3-IBT-800-400-400-G18	5000	435 / 0.84	510 / 1.02	565 / 1.25	619 / 1.54	675 / 1.86	732 / 2.22	790 / 2.60	847 / 3.00	902 / 3.42
A3-IBT-800-400-400-G18	5500	479 / 1.12	550 / 1.30	601 / 1.55	650 / 1.84	700 / 2.17	751 / 2.54	803 / 2.93	856 / 3.35	908 / 3.78
A3-IBT-800-400-400-G18	6000	522 / 1.46	590 / 1.65	638 / 1.91	683 / 2.21	729 / 2.54	775 / 2.91	822 / 3.31	869 / 3.74	918 / 4.19
A3-IBT-800-400-400-G18	6500	565 / 1.85	631 / 2.05	677 / 2.32	719 / 2.63	760 / 2.97	802 / 3.35	845 / 3.76	888 / 4.19	932 / 4.65
A3-IBT-800-400-400-G18	7000	609 / 2.32	672 / 2.52	716 / 2.80	755 / 3.12	794 / 3.47	833 / 3.86	872 / 4.27	911 / 4.71	
A3-IBT-800-400-400-G18	7500	652 / 2.85	714 / 3.06	755 / 3.35	793 / 3.68	830 / 4.04	866 / 4.44	902 / 4.86		
A3-IBT-800-400-400-G18	8000	696 / 3.46	755 / 3.67	796 / 3.98	832 / 4.32	866 / 4.69				
A3-IBT-800-400-400-G18	8500	739 / 4.15	797 / 4.37	836 / 4.68						
A3-IBT-800-400-400-G18	9000	782 / 4.92								
A4-IBT-1000-300-300-400-920	6000	363 / 0.93	413 / 1.13	478 / 1.47	545 / 1.88	609 / 2.31	667 / 2.74	721 / 3.17	770 / 3.61	815 / 4.04
A4-IBT-1000-300-300-400-920	7000	424 / 1.47	464 / 1.69	516 / 2.02	573 / 2.46	631 / 2.94	686 / 3.44	739 / 3.95	788 / 4.45	834 / 4.96
A4-IBT-1000-300-300-400-920	8000	484 / 2.20	518 / 2.43	561 / 2.76	609 / 3.20	659 / 3.71	710 / 4.26	759 / 4.83	806 / 5.41	851 / 5.98
A4-IBT-1000-300-300-400-920	9000	545 / 3.13	574 / 3.37	610 / 3.71	650 / 4.15	694 / 4.67	739 / 5.25	784 / 5.86	828 / 6.50	871 / 7.14
A4-IBT-1000-300-300-400-920	10000	606 / 4.29	632 / 4.56	662 / 4.90	696 / 5.33	734 / 5.85	774 / 6.44	814 / 7.08	855 / 7.76	895 / 8.46
A4-IBT-1000-300-300-400-920	11000	666 / 5.71	689 / 6.00	716 / 6.35	746 / 6.78	778 / 7.30	813 / 7.88	849 / 8.54	886 / 9.24	923 / 9.97
A4-IBT-1000-300-300-400-920	12000	727 / 7.42	748 / 7.72	771 / 8.09	797 / 8.52	826 / 9.03	856 / 9.62			
A4-IBT-1000-300-300-400-920	13000	787 / 9.43	806 / 9.75							
A4-IBT-1200-400-400-400-920	8000	484 / 2.20	518 / 2.43	561 / 2.76	609 / 3.20	659 / 3.71	710 / 4.26	759 / 4.83	806 / 5.41	851 / 5.98
A4-IBT-1200-400-400-400-920	9000	545 / 3.13	574 / 3.37	610 / 3.71	650 / 4.15	694 / 4.67	739 / 5.25	784 / 5.86	828 / 6.50	871 / 7.14
A4-IBT-1200-400-400-400-920	10000	606 / 4.29	632 / 4.56	662 / 4.90	696 / 5.33	734 / 5.85	774 / 6.44	814 / 7.08	855 / 7.76	895 / 8.46
A4-IBT-1200-400-400-400-920	11000	666 / 5.71	689 / 6.00	716 / 6.35	746 / 6.78	778 / 7.30	813 / 7.88	849 / 8.54	886 / 9.24	923 / 9.97
A4-IBT-1200-400-400-400-920	12000	727 / 7.42	748 / 7.72	771 / 8.09	797 / 8.52	826 / 9.03	856 / 9.62			
A4-IBT-1200-400-400-400-920	13000	787 / 9.43	806 / 9.75							
A4-IBT-1400-300-300-400-400-920	9000	555 / 3.23	596 / 3.58	637 / 4.01	685 / 4.53	738 / 5.15	785 / 5.76	824 / 6.33	857 / 6.87	886 / 7.37
A4-IBT-1400-300-300-400-400-920	10000	617 / 4.42	654 / 4.82	690 / 5.26	730 / 5.79	775 / 6.41	822 / 7.10	865 / 7.79	902 / 8.43	934 / 9.04
A4-IBT-1400-300-300-400-400-920	11000	679 / 5.89	713 / 6.31	745 / 6.78	779 / 7.32	818 / 7.94	860 / 8.66	903 / 9.42		
A4-IBT-1400-300-300-400-400-920	12000	740 / 7.65	772 / 8.11	801 / 8.61	832 / 9.15	865 / 9.78				
A4-IBT-1400-300-300-400-400-920	13000	802 / 9.72								
A4-IBT-1600-400-400-400-400-920	10000	617 / 4.42	654 / 4.82	690 / 5.26	730 / 5.79	775 / 6.41	822 / 7.10	865 / 7.79	902 / 8.43	934 / 9.04
A4-IBT-1600-400-400-400-400-920	10500	648 / 5.12	683 / 5.53	717 / 5.99	754 / 6.52	796 / 7.14	841 / 7.85	884 / 8.58	923 / 9.28	956 / 9.95
A4-IBT-1600-400-400-400-400-920	11000	679 / 5.89	713 / 6.31	745 / 6.78	779 / 7.32	818 / 7.94	860 / 8.66	903 / 9.42		
A4-IBT-1600-400-400-400-400-920	11500	709 / 6.73	742 / 7.17	773 / 7.66	805 / 8.20	841 / 8.82	880 / 9.53			
A4-IBT-1600-400-400-400-400-920	12000	740 / 7.65	772 / 8.11	801 / 8.61	832 / 9.15	865 / 9.78				
A4-IBT-1600-400-400-400-400-920	12500	771 / 8.64	801 / 9.12	830 / 9.63						
A4-IBT-1600-400-400-400-400-920	13000	802 / 9.72								
A4-IBT-400-920	8000	398 / 1.49	455 / 1.73	506 / 2.16	555 / 2.64	601 / 3.13	647 / 3.62	693 / 4.13	738 / 4.64	782 / 5.17
A4-IBT-400-920	9000	447 / 2.12	500 / 2.36	546 / 2.81	590 / 3.33	632 / 3.87	674 / 4.42	715 / 4.97	756 / 5.54	796 / 6.11
A4-IBT-400-920	10000	497 / 2.91	545 / 3.14	588 / 3.61	628 / 4.16	667 / 4.74	705 / 5.34	742 / 5.95	779 / 6.57	816 / 7.19
A4-IBT-400-920	11000	546 / 3.87	590 / 4.09	630 / 4.57	668 / 5.14	704 / 5.77	739 / 6.42	774 / 7.08	808 / 7.75	841 / 8.42
A4-IBT-400-920	12000	596 / 5.02	637 / 5.24	674 / 5.71	709 / 6.31	743 / 6.96	776 / 7.66	808 / 8.37	840 / 9.09	870 / 9.80
A4-IBT-400-920	13000	646 / 6.38	684 / 6.59	719 / 7.06	752 / 7.67	784 / 8.35	814 / 9.08	845 / 9.84		

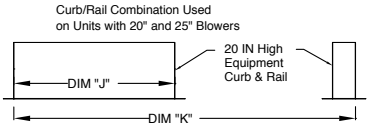
Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.000" RPM/BHP	0.250" RPM/BHP	0.500 RPM/BHP	0.750 RPM/BHP	1.000 RPM/BHP	1.250 RPM/BHP	1.500 RPM/BHP	1.750 RPM/BHP	2.000 RPM/BHP
A4-IBT-800-400-400-920	5000		351 / 0.67	427 / 0.96	500 / 1.31	566 / 1.68	625 / 2.05	678 / 2.43	727 / 2.80	772 / 3.19
A4-IBT-800-400-400-920	6000		393 / 1.03	457 / 1.34	520 / 1.71	582 / 2.13	639 / 2.56	692 / 3.01	740 / 3.46	786 / 3.90
A4-IBT-800-400-400-920	7000	376 / 1.19	438 / 1.52	493 / 1.85	548 / 2.24	603 / 2.68	656 / 3.15	706 / 3.66	754 / 4.17	800 / 4.69
A4-IBT-800-400-400-920	8000	429 / 1.78	486 / 2.17	534 / 2.53	582 / 2.93	630 / 3.38	678 / 3.88	725 / 4.41	771 / 4.98	814 / 5.55
A4-IBT-800-400-400-920	9000	483 / 2.53	535 / 2.98	578 / 3.38	621 / 3.80	663 / 4.26	706 / 4.78	749 / 5.33	791 / 5.92	832 / 6.54
A4-IBT-800-400-400-920	10000	537 / 3.47	584 / 3.98	625 / 4.42	663 / 4.88	701 / 5.36	740 / 5.88	778 / 6.45	816 / 7.05	855 / 7.69
A4-IBT-800-400-400-920	11000	590 / 4.62	635 / 5.19	672 / 5.68	707 / 6.17	742 / 6.68	777 / 7.22	812 / 7.80	847 / 8.42	882 / 9.07
A4-IBT-800-400-400-920	12000	644 / 6.00	685 / 6.63	720 / 7.18	753 / 7.70	786 / 8.25	817 / 8.81	849 / 9.41		
A4-IBT-800-400-400-920	13000	697 / 7.63	736 / 8.32	770 / 8.92	800 / 9.50					
A5-IBT-1000-300-300-400-925	6000	306 / 0.54	398 / 0.96	472 / 1.38	531 / 1.83	585 / 2.31	635 / 2.79	683 / 3.27	728 / 3.76	770 / 4.24
A5-IBT-1000-300-300-400-925	8000	408 / 1.29	473 / 1.86	545 / 2.41	601 / 2.96	650 / 3.54	694 / 4.14	736 / 4.77	776 / 5.40	814 / 6.04
A5-IBT-1000-300-300-400-925	10000	510 / 2.51	557 / 3.24	619 / 3.94	675 / 4.62	722 / 5.30	764 / 6.00	803 / 6.73	840 / 7.48	874 / 8.24
A5-IBT-1000-300-300-400-925	12000	612 / 4.33	648 / 5.20	697 / 6.08	749 / 6.91	796 / 7.72	838 / 8.53	875 / 9.36	910 / 10.20	943 / 11.07
A5-IBT-1000-300-300-400-925	14000	714 / 6.88	743 / 7.89	782 / 8.92	826 / 9.92	870 / 10.89	911 / 11.84	949 / 12.78		
A5-IBT-1000-300-300-400-925	16000	815 / 10.27	841 / 11.42	872 / 12.59	908 / 13.76	947 / 14.91				
A5-IBT-1000-300-300-400-925	18000	917 / 14.62	939 / 15.91							
A5-IBT-1200-400-400-400-925	8000	408 / 1.29	473 / 1.86	545 / 2.41	601 / 2.96	650 / 3.54	694 / 4.14	736 / 4.77	776 / 5.40	814 / 6.04
A5-IBT-1200-400-400-400-925	10000	510 / 2.51	557 / 3.24	619 / 3.94	675 / 4.62	722 / 5.30	764 / 6.00	803 / 6.73	840 / 7.48	874 / 8.24
A5-IBT-1200-400-400-400-925	12000	612 / 4.33	648 / 5.20	697 / 6.08	749 / 6.91	796 / 7.72	838 / 8.53	875 / 9.36	910 / 10.20	943 / 11.07
A5-IBT-1200-400-400-400-925	14000	714 / 6.88	743 / 7.89	782 / 8.92	826 / 9.92	870 / 10.89	911 / 11.84	949 / 12.78		
A5-IBT-1200-400-400-400-925	16000	815 / 10.27	841 / 11.42	872 / 12.59	908 / 13.76	947 / 14.91				
A5-IBT-1200-400-400-400-925	18000	917 / 14.62	939 / 15.91							
A5-IBT-1400-300-300-400-400-925	9000	498 / 2.34	561 / 2.91	625 / 3.57	676 / 4.19	720 / 4.78	759 / 5.37	797 / 5.95	832 / 6.55	867 / 7.16
A5-IBT-1400-300-300-400-400-925	10000	554 / 3.21	609 / 3.82	669 / 4.56	720 / 5.27	763 / 5.95	802 / 6.60	838 / 7.25	872 / 7.90	905 / 8.56
A5-IBT-1400-300-300-400-400-925	11000	609 / 4.28	658 / 4.91	714 / 5.73	764 / 6.53	807 / 7.30	845 / 8.03	880 / 8.75	913 / 9.46	945 / 10.18
A5-IBT-1400-300-300-400-400-925	12000	664 / 5.55	708 / 6.22	760 / 7.09	809 / 7.99	851 / 8.85	889 / 9.67	924 / 10.46		
A5-IBT-1400-300-300-400-400-925	13000	720 / 7.06	759 / 7.77	807 / 8.68	854 / 9.66	896 / 10.61	933 / 11.52			
A5-IBT-1400-300-300-400-400-925	14000	775 / 8.82	811 / 9.56	854 / 10.51	899 / 11.56	940 / 12.60				
A5-IBT-1400-300-300-400-400-925	15000	830 / 10.85	863 / 11.62	903 / 12.61	945 / 13.71					
A5-IBT-1400-300-300-400-400-925	16000	886 / 13.16	916 / 13.98							
A5-IBT-1600-400-400-400-400-925	10000	554 / 3.21	609 / 3.82	669 / 4.56	720 / 5.27	763 / 5.95	802 / 6.60	838 / 7.25	872 / 7.90	905 / 8.56
A5-IBT-1600-400-400-400-400-925	10500	581 / 3.72	633 / 4.34	692 / 5.12	742 / 5.88	785 / 6.60	824 / 7.29	859 / 7.97	892 / 8.65	924 / 9.34
A5-IBT-1600-400-400-400-400-925	11000	609 / 4.28	658 / 4.91	714 / 5.73	764 / 6.53	807 / 7.30	845 / 8.03	880 / 8.75	913 / 9.46	945 / 10.18
A5-IBT-1600-400-400-400-400-925	11500	637 / 4.89	683 / 5.54	737 / 6.38	786 / 7.24	829 / 8.05	867 / 8.82	902 / 9.58	935 / 10.33	
A5-IBT-1600-400-400-400-400-925	12000	664 / 5.55	708 / 6.22	760 / 7.09	809 / 7.99	851 / 8.85	889 / 9.67	924 / 10.46		
A5-IBT-1600-400-400-400-400-925	12500	692 / 6.28	733 / 6.97	783 / 7.86	831 / 8.80	874 / 9.70	911 / 10.57	946 / 11.41		
A5-IBT-1600-400-400-400-400-925	13000	720 / 7.06	759 / 7.77	807 / 8.68	854 / 9.66	896 / 10.61	933 / 11.52			
A5-IBT-1600-400-400-400-400-925	13500	747 / 7.91	785 / 8.63	830 / 9.56	876 / 10.58	918 / 11.58				
A5-IBT-1600-400-400-400-400-925	14000	775 / 8.82	811 / 9.56	854 / 10.51	899 / 11.56	940 / 12.60				
A5-IBT-1600-400-400-400-400-925	14500	803 / 9.80	837 / 10.56	878 / 11.52	922 / 12.60					
A5-IBT-1600-400-400-400-400-925	15000	830 / 10.85	863 / 11.62	903 / 12.61	945 / 13.71					
A5-IBT-1600-400-400-400-400-925	15500	858 / 11.97	889 / 12.76	927 / 13.76						
A5-IBT-1600-400-400-400-400-925	16000	886 / 13.16	916 / 13.98							
A5-IBT-800-400-400-925	5000	229 / 0.28	335 / 0.59	424 / 0.93	497 / 1.28	558 / 1.66	612 / 2.05	659 / 2.46	703 / 2.88	743 / 3.32
A5-IBT-800-400-400-925	6000	274 / 0.49	365 / 0.84	446 / 1.24	516 / 1.66	578 / 2.08	632 / 2.52	681 / 2.98	725 / 3.45	766 / 3.93
A5-IBT-800-400-400-925	7000	320 / 0.78	399 / 1.16	471 / 1.63	538 / 2.11	598 / 2.59	652 / 3.08	701 / 3.59	746 / 4.10	788 / 4.64
A5-IBT-800-400-400-925	8000	365 / 1.16	435 / 1.57	500 / 2.10	562 / 2.65	619 / 3.19	672 / 3.74	721 / 4.30	766 / 4.87	808 / 5.45
A5-IBT-800-400-400-925	9000	411 / 1.65	474 / 2.09	533 / 2.67	589 / 3.28	643 / 3.89	693 / 4.51	741 / 5.13	785 / 5.75	827 / 6.38
A5-IBT-800-400-400-925	10000	457 / 2.27	514 / 2.73	567 / 3.35	619 / 4.02	669 / 4.70	717 / 5.38	763 / 6.07	806 / 6.75	847 / 7.44
A5-IBT-800-400-400-925	11000	502 / 3.02	554 / 3.51	604 / 4.16	652 / 4.88	698 / 5.62	743 / 6.37	787 / 7.12	828 / 7.88	868 / 8.63
A5-IBT-800-400-400-925	12000	548 / 3.92	596 / 4.44	642 / 5.12	686 / 5.88	729 / 6.68	772 / 7.49	813 / 8.31	853 / 9.14	891 / 9.96
A5-IBT-800-400-400-925	13000	593 / 4.98	638 / 5.53	681 / 6.24	722 / 7.04	762 / 7.89	802 / 8.76	841 / 9.65	879 / 10.53	916 / 11.42
A5-IBT-800-400-400-925	14000	639 / 6.22	681 / 6.79	721 / 7.54	759 / 8.37	797 / 9.27	834 / 10.19	871 / 11.13	907 / 12.09	942 / 13.04
A5-IBT-800-400-400-925	15000	685 / 7.65	724 / 8.25	761 / 9.02	798 / 9.89	833 / 10.82	868 / 11.80	903 / 12.80	937 / 13.81	
A5-IBT-800-400-400-925	16000	730 / 9.28	767 / 9.91	802 / 10.71	837 / 11.61	870 / 12.58	904 / 13.60	936 / 14.65		
A5-IBT-800-400-400-925	17000	776 / 11.14	811 / 11.79	844 / 12.61	877 / 13.54	909 / 14.55	940 / 15.61			
A5-IBT-800-400-400-925	18000	821 / 13.22	854 / 13.90	886 / 14.75	917 / 15.71	947 / 16.74				
A5-IBT-800-400-400-925	19000	867 / 15.54	898 / 16.25	929 / 17.13						
A5-IBT-800-400-400-925	20000	913 / 18.13	942 / 18.87							

AE Series Modular Roof Mount & Inline

Electric Heated Make-Up Air







The Electric Heater is used for tempering make-up air for installations requiring frequent air changes. The units are rated up to 257KW and 22,000 CFMs, depending on heating requirements. The heaters are intended for indoor or outdoor installations in commercial kitchens, factories, foundries and similar commercial and industrial occupancies.

Features & Benefits

- Silicone Controlled Rectifier (SCR) with Modulating Control
- 120 volt control transformer with single point electrical connection
- Galvanized, fully insulated casing
- Access doors on both sides of unit
- Lifting points
- Blower interlock
- Airflow proving switch
- Temperature control system
- Coil observation port
- High temperature limit
- Motor starter
- Vibration isolation
- High efficiency motors
- Adjustable drive sheaves
- Horizontal or down discharge
- Disconnect switch

Options

- Motorized intake damper • Remote control panel
- Freeze stat with bypass timer • Room temperature control
- Convenience outlet • Mixing box with damper control
- DX cooling coils • Evaporative Cooler Intake
- V-Bank filter intake • Sloped filter intake
- Auxiliary starters • Indoor hanging cradle
- VAV packages • Roof Curbs
- Cooling thermostat and interlock
- Clogged filter switch

Measurements

	Unit Dimensions					
MODEL	A	B	C	D	E	F
A1-E-G10	74 3/8	27 3/8	29 3/4	26 1/16	3 3/4	44 3/8
A2-E-G15	82 3/8	37 3/8	36 3/4	33 1/16	3 3/4	53 5/8
A3-E-G18	87 3/8	41 3/8	43 3/8	38 1/16	5 1/4	51 5/8
A4-E-920	118 1/2	48 7/16	51 3/8	46 1/8	5 1/4	76 3/8
A5-E-925	128 1/2	59 3/16	58 3/8	53 1/8	5 1/4	71 3/8

Measurements

	Discharge Opening				Curb		Filter
MODEL	N	P	R	S	J	K	Size & Qty
A1-E-G10	13 1/4	11 1/2	3 7/8	5 9/16	21	71	(3) 16"x20"x2"
A2-E-G15	18 3/4	16	6 1/8	8 5/16	31	79	(3) 20"x25"x2"
A3-E-G18	22	19	6 1/2	10 5/16	35	84	(6) 16"x20"x2"
A4-E-920	24 7/8	24 7/8	8 9/16	10 5/8	42	115 3/16	(10) 16"x20"x2"
A5-E-925	31 3/8	31 3/8	10 11/16	12 7/8	52 3/4	125 3/8	(8) 20"x25"x2"

Note: Additional configurations and options are available. Refer to website for specific details – *www.captiveaire.com*

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.																
MODEL	CFM	0.00" RPM/BHP	0.20" RPM/BHP	0.25" RPM/BHP	0.40" RPM/BHP	0.50" RPM/BHP	0.60" RPM/BHP	0.75" RPM/BHP	0.80" RPM/BHP	1.00" RPM/BHP	1.20" RPM/BHP	1.25" RPM/BHP	1.40" RPM/BHP	1.50" RPM/BHP	1.60" RPM/BHP	1.75" RPM/BHP	1.80" RPM/BHP	2.00 RPM/BHP
A1-E	1200	365 / 0.07		568 / 0.15		740 / 0.24		886 / 0.38		1014 / 0.54								
A1-E	1600	487 / 0.18		643 / 0.27		789 / 0.37		920 / 0.50		1038 / 0.65		1146 / 0.83		1247 / 1.04		1341 / 1.25		1430 / 1.48
A1-E	2000	608 / 0.34		733 / 0.46		856 / 0.58		972 / 0.71		1079 / 0.85		1180 / 1.03		1275 / 1.22		1363 / 1.44		1448 / 1.68
A1-E	2400	730 / 0.60		833 / 0.73		938 / 0.88		1039 / 1.02		1136 / 1.17		1228 / 1.34		1316 / 1.52		1399 / 1.73		1480 / 1.96
A1-E	2800	851 / 0.95		940 / 1.11		1029 / 1.27		1119 / 1.44		1206 / 1.60		1289 / 1.78		1370 / 1.96				
A1-E	3200	972 / 1.41		1050 / 1.60		1127 / 1.78		1208 / 1.97										
A1-ED	800	604 / 0.03		879 / 0.10		1198 / 0.26												
A1-ED	1200	905 / 0.11		1061 / 0.18		1263 / 0.30												
A1-ED	1600	1206 / 0.26		1315 / 0.34														
A2-E	3000	339 / 0.31		457 / 0.46		555 / 0.63		650 / 0.83		739 / 1.06		821 / 1.30		897 / 1.55		966 / 1.82		1031 / 2.10
A2-E	3500	395 / 0.49		501 / 0.66		587 / 0.85		671 / 1.06		752 / 1.30		829 / 1.56		902 / 1.83		971 / 2.12		1036 / 2.42
A2-E	4000	451 / 0.74		548 / 0.93		626 / 1.13		700 / 1.36		773 / 1.61		844 / 1.88		912 / 2.16		978 / 2.47		1041 / 2.78
A2-E	4500	507 / 1.05		597 / 1.26		668 / 1.49		735 / 1.73		801 / 1.99		865 / 2.27		929 / 2.57		990 / 2.89		1050 / 3.22
A2-E	5000	563 / 1.43		647 / 1.67		713 / 1.92		775 / 2.18		834 / 2.46		893 / 2.75		951 / 3.06		1009 / 3.39		1065 / 3.73
A2-E	5500	620 / 1.91		698 / 2.17		760 / 2.44		817 / 2.72		872 / 3.01		927 / 3.32		980 / 3.65		1033 / 3.99		1085 / 4.34
A2-E	6000	676 / 2.48		750 / 2.77		809 / 3.06		862 / 3.35		914 / 3.67		964 / 3.99		1013 / 4.33		1062 / 4.69		
A2-E	6500	732 / 3.15		802 / 3.46		858 / 3.77		909 / 4.09		957 / 4.43		1004 / 4.77						
A3-E	4500	325 / 0.55	417 / 0.72		501 / 0.94		562 / 1.16		616 / 1.40	666 / 1.65	713 / 1.90							
A3-E	5000	361 / 0.75	440 / 0.93		525 / 1.17		587 / 1.42		640 / 1.67	688 / 1.94	732 / 2.21		776 / 2.49		817 / 2.76			
A3-E	5500	398 / 0.99	464 / 1.18		549 / 1.45		612 / 1.71		665 / 1.99	711 / 2.27	754 / 2.57		795 / 2.86		835 / 3.17		873 / 3.47	911 / 3.78
A3-E	6000	434 / 1.29	490 / 1.48		573 / 1.77		637 / 2.06		690 / 2.35	736 / 2.65	778 / 2.96		817 / 3.28		855 / 3.61		892 / 3.94	928 / 4.27
A3-E	6500	470 / 1.64	519 / 1.83		596 / 2.14		662 / 2.45		715 / 2.77	761 / 3.09	802 / 3.42		841 / 3.75		878 / 4.10		913 / 4.45	948 / 4.81
A3-E	7000	506 / 2.05	549 / 2.25		619 / 2.56		685 / 2.90		739 / 3.24	786 / 3.58	827 / 3.93		865 / 4.28		901 / 4.65			
A3-E	7500	542 / 2.52	581 / 2.73		642 / 3.04		708 / 3.41		764 / 3.77	811 / 4.14	852 / 4.50		890 / 4.87					
A3-E	8000	578 / 3.06	613 / 3.27		668 / 3.58		731 / 3.97		787 / 4.36	835 / 4.75								
A4-E	9000	388 / 1.52		441 / 2.08		492 / 2.65		540 / 3.13		586 / 3.55		630 / 3.95		674 / 4.37		717 / 4.82		759 / 5.34
A4-E	10000	431 / 2.08		479 / 2.69		526 / 3.35		570 / 3.93		613 / 4.43		654 / 4.89		693 / 5.33		733 / 5.79		772 / 6.28
A4-E	11000	474 / 2.77		518 / 3.43		561 / 4.17		602 / 4.84		642 / 5.44		680 / 5.98		717 / 6.49		754 / 6.98		789 / 7.47
A4-E	12000	517 / 3.60		557 / 4.30		597 / 5.11		636 / 5.88		673 / 6.58		709 / 7.21		743 / 7.79		778 / 8.34		811 / 8.88
A4-E	13000	560 / 4.57		597 / 5.32		634 / 6.19		670 / 7.05		705 / 7.85		739 / 8.58		772 / 9.25		804 / 9.88		
A4-E	14000	603 / 5.71		637 / 6.51		672 / 7.43		706 / 8.37		739 / 9.26								
A4-E	15000	646 / 7.02		678 / 7.86		710 / 8.84		742 / 9.85										
A5-E	10000	207 / 0.88		281 / 1.36		350 / 1.96		408 / 2.57		455 / 3.14		498 / 3.69		538 / 4.26				
A5-E	12000	248 / 1.52		312 / 2.11		370 / 2.73		427 / 3.47		475 / 4.21		517 / 4.90		555 / 5.58		591 / 6.25		624 / 6.92
A5-E	14000	289 / 2.40		347 / 3.13		396 / 3.77		446 / 4.57		494 / 5.44		537 / 6.30		575 / 7.14		610 / 7.94		643 / 8.73
A5-E	16000	330 / 3.59		384 / 4.47		426 / 5.15		469 / 5.96		513 / 6.89		555 / 7.89		594 / 8.89		630 / 9.86		662 / 10.81
A5-E	18000	371 / 5.10		422 / 6.17		459 / 6.91		497 / 7.74		536 / 8.69		575 / 9.75		613 / 10.86		649 / 11.99		682 / 13.11
A5-E	20000	412 / 7.00		461 / 8.26		494 / 9.10		528 / 9.95		562 / 10.91		597 / 11.99		633 / 13.16		667 / 14.39		700 / 15.65
A5-E	22000	453 / 9.31		500 / 10.79		531 / 11.73		561 / 12.64		592 / 13.62		623 / 14.70		656 / 15.89		688 / 17.17		720 / 18.52

MPU Series Modular Packaged Unit

Packaged AC & Heating Unit for 100% Outdoor Air

The Modular Packaged Unit (MPU) is designed to be a factory packaged air conditioning and heating unit for 100% Outdoor Air (OA) applications. Units are sized to operate between 360 to 600 cfm/ton of cooling, depending on climate.

The Modular Packaged Unit (MPU) is ideal for tempering MUA when used in conjunction with highly efficient make-up air delivery methods, such as perimeter supply plenums. The condensers are top mounted on the make-up air unit to minimize roof space requirements and are situated for optimal airflow and serviceability.

Features & Benefits

- High Efficiency Nominal 14 SEER Rating Condensers
- Integral Cooling Staged Thermostat
- Multiple Stage cooling for lower energy usage
- Pre-Piped and Charged Refrigeration Circuits
- Cooling requires no additional roof footprint
- Coils and Condensers sized to comfort cool make-up air
- R-410A Environmentally Friendly Refrigerant
- Thermal Expansion Valves and Filter/Dryer Kits
- Condenser Disconnect Switch
- Vacuum Tested and Leak Checked Lineset/Coils
- Condenser Transformer Prewired
- Thermostat Prewired and Interlocked with Heater
- Integral Weather/Hail Guards

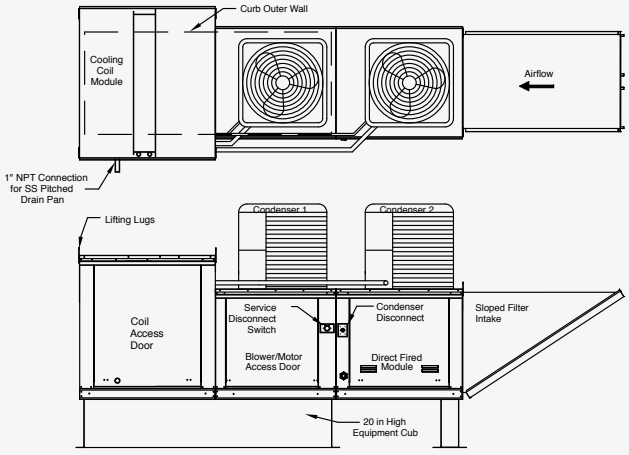
Certifications

This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. and Canadian 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.

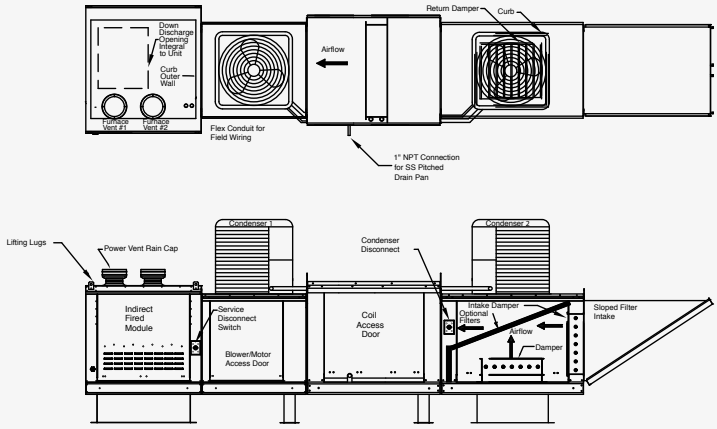
Units Available

- Direct Fired Heat with Cooling Package
- Indirect Fired Heat with Cooling Package
- Electric Heat with Cooling Package
- Cooling Only Configurations
- Heat Pump Option - Ideal for small heating needs and where gas is not available
- AC Option - Sized for 150-300 cfm/ton of Cooling

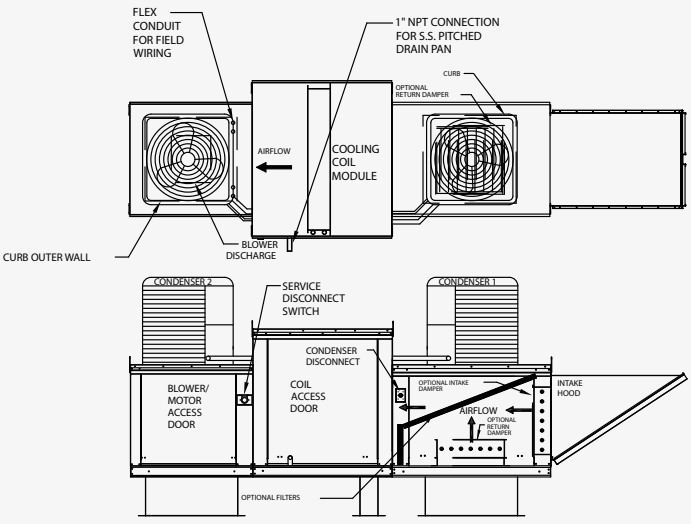
Direct Fired MPU



Indirect Fired MPU

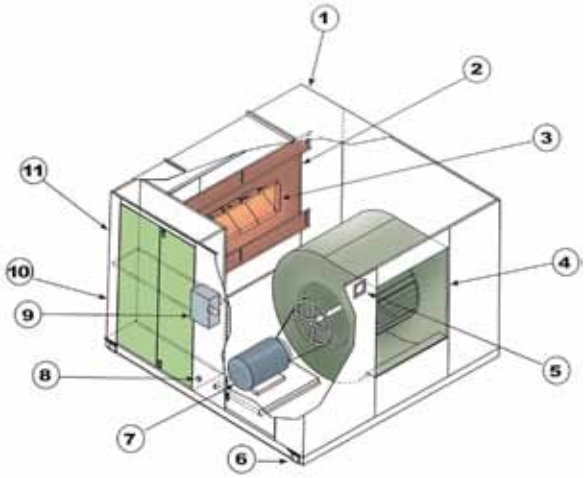


Untempered MPU



CAH Horizontal Non-Recirculating Unit

Direct Fired Industrial Heated Make-Up Air



1. Casing 2. Burner Profile 3. Burner 4. Blower 5. Burner Observation Port
6. Base & Lifting Lugs 7. Motor 8. Gas Connection 9. Main Fused Disconnect
10. Manifold Controls Vestibule 11. Electrical Controls Vestibule

Factory assembled, wired, and flame-tested

FEATURES & BENEFITS

Casing
- G-90 galvanized steel
- Interlocked wall seam and roof panels
- Weatherproof construction
- Standing roof seams (models 18 and larger)
- Single casing construction (models 10-230)
- Hinged service doors with flush-mount latches
- Six discharge options
- Double wall doors

Burner Profile
- Adjustable profile plates
- Optional two-speed arrangement
- Optional Variable Air Volume arrangement

Burner
- Wide-range, high capacity line burner
- Up to 30:1 turndown ratio
- Electric-pilot spark ignition

Blower
- FC-DWDI centrifugal blower assembly
- V-belt drive
- 100,000-hour greasable bearings (models 18-230)
- Permanently lubricated bearings (models 10-15)
- Solid steel shaft
- Split shaft with couplings on twin units

Controls
- Electric flame safety controls
- Ignition transformer
- Airflow proving control
- High-temperature safety controls
- Burner and blower service switches

Burner Observation Port
- Easy view of burner and pilot for start-up

Base and Lifting Lugs
- Formed G-90 galvanized-steel base
- Direct floor or curb mount
- Standard heavy-duty lifting lugs
- Optional hanging-mount lifting lugs *(models 10-230)*

Motor
- Standard, high E, open-drip proof with adjustable motor mounts
- V-belt drive
- Starter with burner interlock
- Adjustable drive up to and including 25HP

Gas Connection
- Allows no water leakage into casing

Manifold Controls Vestibule
- Weatherproof enclosure
- Easy access to manifold and controls
- Manifold built to required codes *(FM/IRI/FIA)*

Electrical Controls Vestibule
- Weatherproof enclosure
- Easy access to manifold and controls
- Exhaust-interlock terminals
- Terminal strip for quick service check
- Blower and burner service switches

Remote Control Panel
- Summer-Off-Winter switch
- “Blower On” light
- “Burner On” light
- Other lights available

ACCESSORIES

Discharge Damper, Two-Position Motor and Interlock
Motor-operated parallel blade damper that prevents warm air from escaping the building through the unit. The motor-damper end switch energizes the starter circuit when the damper is in the full-open position, and returns to a closed position during shutdown. Down discharge arrangement units available with our exclusive “Hassle Free Damper” internally mounted in unit.

Discharge Air Diffuser
Discharges air in four directions with vertical and horizontal blades, and is field-installed. The blades can be manually adjusted to set direction of airflow.

Filter Section
Removable, hinged access door, with a 2” washable, aluminum-mesh filter, or a 2” pleated filter. Also available with 1”, 1.5 lb density insulation.

Fresh-Air Intake Hood with Birdscreen
Prevents rain or snow from entering the unit with a 1” mesh screen on hood face; sized to fit unit’s fresh-air intake. Shipped loose to be field installed.

Full-Downturn Inlet Hood
Prevents rain and snow from entering the unit by bringing air in to the bottom of the hood with a 1” wire-mesh screen, and is field installed. Large hoods are shipped separately, and must be field assembled.

High Efficiency Inlet Hood
A separate section with high efficiency filters mounted on the unit's inlet side. Available with 65%, 85%, or 95% cartridge filters and inlet-air hood.

Inlet-Hood Filters, 2"
Cleanable, aluminum-mesh filters mounted on the inlet-hood face in lieu of a separate filter section. Not available on CAH-227 and larger models.

Inlet Screen
Prevents material from entering unit. A 1" mesh screen fastens to unit's fresh-air intake.

Inlet Damper, Two-Position Motor and Interlock
Motor-operated parallel blade damper that prevents outside air from entering the building through the unit. The motor damper end switch energizes the starter circuit when the damper is in the full-open position, and returns to a closed position during shutdown.

Standard Curb
24" roof curb formed of 12-gauge steel; 14" curb is also available. Shipped separately, and must be field assembled. Insulation, cant, and wood nailer by others.

OPTIONS

Adjustable Drives
Fixed-pitched sheaves are standard on motors 30HP and larger. An adjustable-pitch motor sheave is provided in lieu of the standard fixed-pitch sheave.

Casing Liners with Insulation
Prevents insulation fibers from being drawn into air stream and discharged into conditioned space, and prevents physical abuse and moisture damage to insulation. Made of galvanized steel.

Extended Grease Lines
Lubrication lines from blower bearings to a common point on the unit's exterior. Units with permanently lubricated bearings to be changed to pillow block-type.

Floor-Mounted Spring Isolators
Box-type lifting points replace standard lifting eyes; 1" deflection spring mounts shipped loose for field installation.

Hanging Spring Isolators, 1"
Shipped loose for field installation.

Painted Casings
One coat of beige air-dried enamel over a vinyl wash primer.

Pillow-Block Bearings, 100,000 hr
Standard on 18" blowers and larger, and are rated at 100,000 to 200,000 hours.

Spring-Isolated Blower and Motor
Mounted on a 1" deflection spring isolated base. A flexible duct connects the fan outlet to the unit's casing.

Two-Speed Damper Package
Provides burner-profile damper that automatically maintains the correct burner velocity. Also dual airflow switches and rate-limiting control are included to prevent over-firing on low speed.

VAV Damper Package
Provides burner profile damper that automatically maintains the correct burner velocity with varying CFM loads. Also dual airflow switches and rate-limiting controls are included to prevent over-firing.

CONTROL OPTIONS

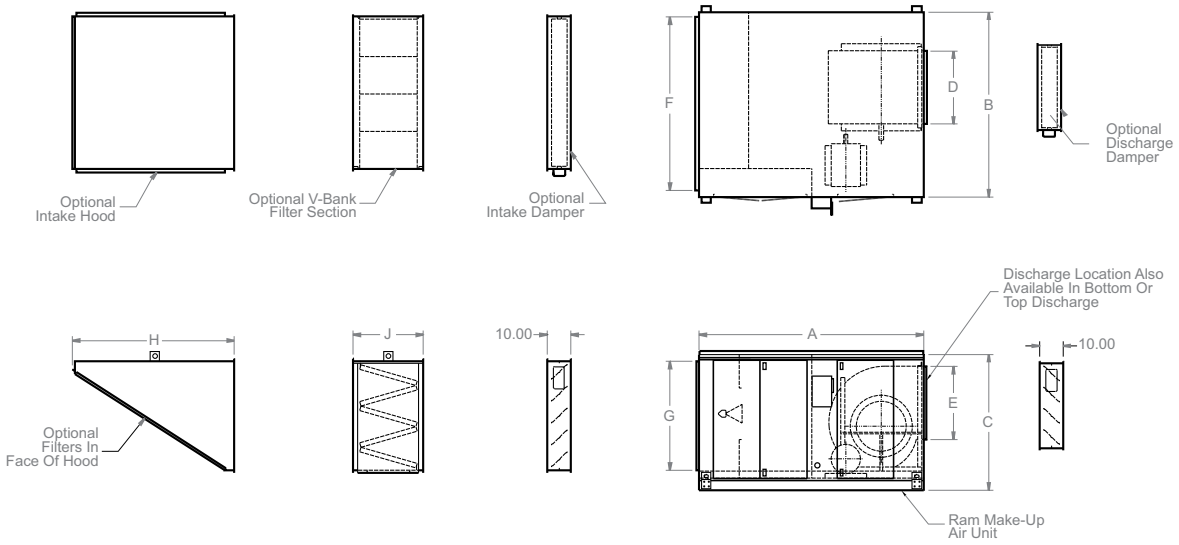
- Discharge temperature control
- Space temperature control

CERTIFICATIONS

CaptiveAire® Certifies that Models CAH10 thru CAH236 shown herein are ETL Listed to the ANSI/CSA Combined Standards.

CAH

Models 10-36



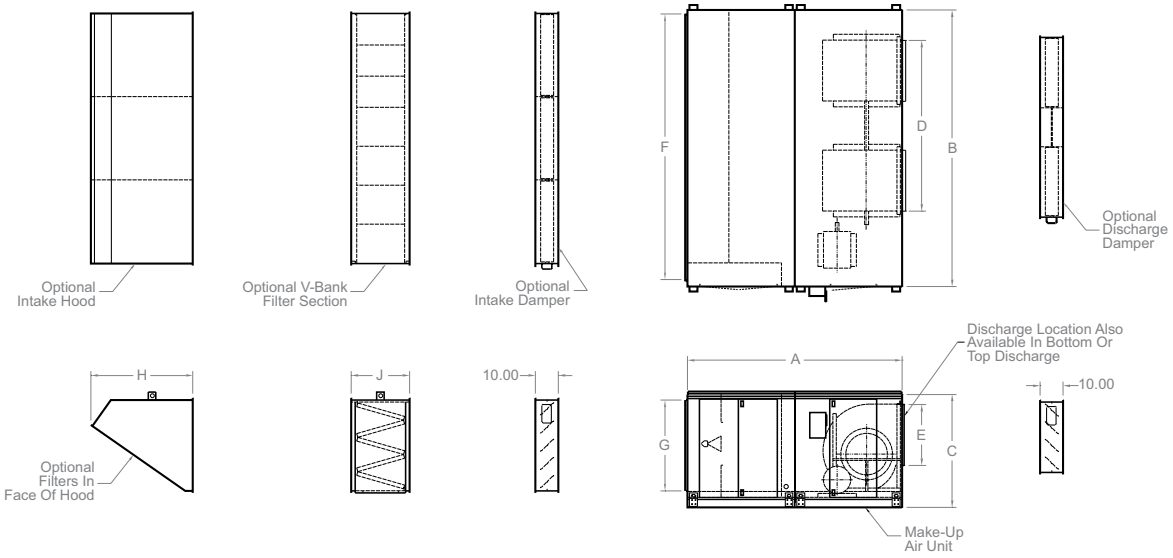
Measurements

	Unit Dimensions								
MODEL	A	B	C	D	E	F	G	H	J
10	70	46	38	18.75	18.75	39.25	30	48	28
12	70	46	38	18.75	18.75	39.25	30	48	28
15	70	46	38	18.75	18.75	39.25	30	48	28
18	82	60	54	22.13	19.13	56	40.5	69.5	28
20	82	60	54	23	25	56	40.5	69.5	28
22	100	79	58	27.5	27.5	76	46.5	69.5	28
25	100	79	58	31.5	31.5	76	46.5	69.5	28
27	100	88	66	34.5	34.5	80	52.5	95.25	28
30	100	88	66	37	37	80	52.5	95.25	28
33	112	98	76	40	43.19	92	59.5	91.25	28
36	112	98	76	43	43.19	92	59.5	91.25	28

Notes: All external accessories are oversized 1/4" for R.A. and S.A. openings / All dimensions are specified in inches / All dimensions are subject to change

CAH

Models 222-236



Measurements

	Unit Dimensions								
MODEL	A	B	C	D	E	F	G	H	J
222	100	146	58	77	27.5	140	46.5	69.5	28
225	100	146	58	88	31.5	140	46.5	69.5	28
227	100	156	66	96	34.5	152	52.5	64	28
230	100	156	66	104	37	152	52.5	64	28
233	126	184	76	116	43.19	180	59.5	64.75	28
236	126	184	76	122	43.19	180	59.5	64.75	28

Notes: All external accessories are oversized 1/4" for R.A. and S.A. openings / All dimensions are specified in inches / All dimensions are subject to change

CAH

Models 222-236

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.00" RPM/BHP	0.25" RPM/BHP	0.50 RPM/BHP	0.75 RPM/BHP	1.00 RPM/BHP	1.25 RPM/BHP	1.50 RPM/BHP	1.75 RPM/BHP	2.00 RPM/BHP
CAH222 / CAV222	22000	367 / 4.68	423 / 5.70	479 / 6.88	529 / 8.09	576 / 9.31	620 / 10.55	662 / 11.81	702 / 13.10	741 / 14.43
CAH222 / CAV222	24000	401 / 6.07	451 / 7.16	503 / 8.44	552 / 9.75	596 / 11.07	638 / 12.41	678 / 13.76	717 / 15.14	754 / 16.54
CAH222 / CAV222	26000	434 / 7.72	480 / 8.88	529 / 10.24	575 / 11.66	618 / 13.08	658 / 14.52	696 / 15.97	733 / 17.44	769 / 18.92
CAH222 / CAV222	28000	467 / 9.64	510 / 10.87	555 / 12.31	599 / 13.83	640 / 15.36	679 / 16.90	716 / 18.44	751 / 20.01	786 / 21.59
CAH222 / CAV222	30000	501 / 11.85	540 / 13.15	582 / 14.67	624 / 16.28	664 / 17.92	701 / 19.56	737 / 21.21	771 / 22.88	804 / 24.55
CAH222 / CAV222	32000	534 / 14.38	571 / 15.75	610 / 17.34	650 / 19.04	688 / 20.78	724 / 22.53	758 / 24.29	792 / 26.05	823 / 27.83
CAH222 / CAV222	34000	567 / 17.25	602 / 18.69	638 / 20.34	676 / 22.14	713 / 23.97	747 / 25.83	781 / 27.69	813 / 29.56	844 / 31.43
CAH222 / CAV222	36000	601 / 20.48	633 / 21.99	668 / 23.72	703 / 25.58	738 / 27.51	772 / 29.47	804 / 31.44	835 / 33.41	865 / 35.39
CAH222 / CAV222	38000	634 / 24.08	664 / 25.67	697 / 27.46	731 / 29.40	764 / 31.42	797 / 33.47	828 / 35.55	858 / 37.63	887 / 39.71
CAH222 / CAV222	40000	668 / 28.09	696 / 29.74	727 / 31.61	759 / 33.62	791 / 35.72	822 / 37.87			
CAH222 / CAV222	42000	701 / 32.51	728 / 34.24	757 / 36.17	787 / 38.26					
CAH222 / CAV222	44000	734 / 37.38	760 / 39.18							
CAH225 / CAV225	30000	347 / 7.01	400 / 8.52	453 / 10.33	499 / 12.14	542 / 13.95	581 / 15.78	619 / 17.65	655 / 19.57	690 / 21.55
CAH225 / CAV225	32000	370 / 8.51	419 / 10.08	470 / 12.01	515 / 13.94	556 / 15.86	594 / 17.79	631 / 19.76	666 / 21.77	700 / 23.82
CAH225 / CAV225	34000	393 / 10.21	439 / 11.84	487 / 13.87	532 / 15.93	572 / 17.98	609 / 20.02	644 / 22.08	678 / 24.18	711 / 26.32
CAH225 / CAV225	36000	416 / 12.11	459 / 13.81	505 / 15.93	548 / 18.12	587 / 20.29	624 / 22.45	658 / 24.62	691 / 26.82	723 / 29.05
CAH225 / CAV225	38000	439 / 14.25	479 / 16.01	524 / 18.21	565 / 20.52	603 / 22.82	639 / 25.11	673 / 27.39	705 / 29.69	735 / 32.01
CAH225 / CAV225	40000	462 / 16.62	500 / 18.44	542 / 20.72	583 / 23.15	620 / 25.57	655 / 27.99	688 / 30.39	719 / 32.79	749 / 35.22
CAH225 / CAV225	42000	486 / 19.23	521 / 21.12	561 / 23.48	600 / 26.01	637 / 28.56	671 / 31.10	703 / 33.63	734 / 36.15	763 / 38.68
CAH225 / CAV225	44000	509 / 22.11	542 / 24.06	580 / 26.49	618 / 29.12	654 / 31.80	687 / 34.47	719 / 37.12	749 / 39.76	777 / 42.40
CAH225 / CAV225	46000	532 / 25.27	564 / 27.28	600 / 29.77	636 / 32.50	671 / 35.29	704 / 38.09	735 / 40.87	764 / 43.63	792 / 46.39
CAH225 / CAV225	48000	555 / 28.71	585 / 30.79	620 / 33.34	655 / 36.15	689 / 39.06	721 / 41.98	751 / 44.89	780 / 47.78	
CAH225 / CAV225	50000	578 / 32.45	607 / 34.59	640 / 37.20	674 / 40.10	706 / 43.11	738 / 46.16	768 / 49.19		
CAH225 / CAV225	52000	601 / 36.50	629 / 38.71	660 / 41.38	693 / 44.35	725 / 47.47				
CAH225 / CAV225	54000	624 / 40.87	651 / 43.15	681 / 45.88	712 / 48.92					
CAH225 / CAV225	56000	647 / 45.59	673 / 47.93							
CAH227 / CAV227	34000	251 / 5.95	304 / 7.82	349 / 9.72	387 / 11.61	423 / 13.57	461 / 15.61	500 / 17.71	541 / 19.86	584 / 22.02
CAH227 / CAV227	36000	265 / 7.06	316 / 9.04	360 / 11.05	397 / 13.05	432 / 15.10	466 / 17.21	502 / 19.40	539 / 21.64	579 / 23.92
CAH227 / CAV227	38000	280 / 8.30	328 / 10.38	371 / 12.52	407 / 14.62	440 / 16.76	473 / 18.96	507 / 21.22	541 / 23.55	577 / 25.93
CAH227 / CAV227	40000	295 / 9.68	341 / 11.85	383 / 14.12	418 / 16.33	450 / 18.57	481 / 20.85	513 / 23.20	545 / 25.61	578 / 28.08
CAH227 / CAV227	42000	310 / 11.21	353 / 13.47	394 / 15.87	429 / 18.19	460 / 20.53	490 / 22.90	520 / 25.32	550 / 27.82	581 / 30.37
CAH227 / CAV227	44000	324 / 12.88	365 / 15.24	406 / 17.76	440 / 20.21	471 / 22.64	500 / 25.11	528 / 27.62	556 / 30.19	585 / 32.83
CAH227 / CAV227	46000	339 / 14.72	378 / 17.17	418 / 19.81	451 / 22.38	481 / 24.92	510 / 27.49	537 / 30.09	564 / 32.74	591 / 35.46
CAH227 / CAV227	48000	354 / 16.73	391 / 19.27	430 / 22.03	463 / 24.72	492 / 27.38	520 / 30.04	546 / 32.73	572 / 35.47	598 / 38.26
CAH227 / CAV227	50000	368 / 18.90	404 / 21.53	442 / 24.41	474 / 27.23	504 / 30.00	531 / 32.77	556 / 35.56	581 / 38.39	606 / 41.26
CAH227 / CAV227	52000	383 / 21.26	417 / 23.98	454 / 26.97	486 / 29.92	515 / 32.81	541 / 35.68	567 / 38.57	591 / 41.50	615 / 44.46
CAH227 / CAV227	54000	398 / 23.81	430 / 26.61	466 / 29.72	498 / 32.80	526 / 35.80	552 / 38.79	577 / 41.78	601 / 44.80	624 / 47.85
RAN227 / CAV227	56000	413 / 26.56	444 / 29.44	478 / 32.66	510 / 35.86	538 / 38.99	564 / 42.10	588 / 45.19	611 / 48.31	
CAH227 / CAV227	58000	427 / 29.50	457 / 32.48	490 / 35.80	521 / 39.13	549 / 42.39	575 / 45.60	599 / 48.81		
CAH227 / CAV227	60000	442 / 32.66	471 / 35.72	503 / 39.14	533 / 42.60	561 / 45.98	586 / 49.32			
CAH227 / CAV227	62000	457 / 36.04	484 / 39.18	515 / 42.70	545 / 46.28	573 / 49.79				
CAH227 / CAV227	64000	472 / 39.64	498 / 42.86	528 / 46.49						
CAH227 / CAV227	66000	486 / 43.47	512 / 46.79							
CAH230 / CAV230	40000	250 / 8.86	279 / 9.19	319 / 11.44	354 / 13.63	387 / 15.88	419 / 18.26	451 / 20.81	482 / 23.55	514 / 26.48
CAH230 / CAV230	43000	250 / 8.86	293 / 11.02	332 / 13.47	366 / 15.83	397 / 18.20	427 / 20.67	457 / 23.28	487 / 26.05	516 / 28.99
CAH230 / CAV230	46000	265 / 10.52	308 / 13.10	346 / 15.75	378 / 18.29	408 / 20.81	437 / 23.39	465 / 26.07	493 / 28.88	520 / 31.85
CAH230 / CAV230	49000	282 / 12.72	322 / 15.44	359 / 18.30	391 / 21.02	420 / 23.70	447 / 26.40	474 / 29.18	500 / 32.07	526 / 35.09
CAH230 / CAV230	52000	299 / 15.20	337 / 18.06	373 / 21.12	404 / 24.04	432 / 26.89	459 / 29.74	484 / 32.63	509 / 35.61	534 / 38.70
CAH230 / CAV230	55000	316 / 17.98	352 / 20.97	387 / 24.23	417 / 27.36	445 / 30.39	470 / 33.39	495 / 36.42	519 / 39.51	542 / 42.68
CAH230 / CAV230	58000	334 / 21.08	368 / 24.21	401 / 27.66	431 / 30.99	458 / 34.21	483 / 37.38	506 / 40.56	529 / 43.77	552 / 47.05
CAH230 / CAV230	61000	351 / 24.53	383 / 27.79	415 / 31.42	444 / 34.96	471 / 38.38	495 / 41.73	518 / 45.06	541 / 48.40	562 / 51.80
CAH230 / CAV230	64000	368 / 28.32	399 / 31.71	430 / 35.52	458 / 39.26	484 / 42.89	508 / 46.42	530 / 49.91	552 / 53.42	573 / 56.95
CAH230 / CAV230	67000	385 / 32.50	414 / 36.01	444 / 39.98	472 / 43.93	497 / 47.76	521 / 51.50	543 / 55.17	564 / 58.83	
CAH230 / CAV230	70000	403 / 37.06	430 / 40.70	459 / 44.83	486 / 48.98	511 / 53.02	534 / 56.95			
CAH230 / CAV230	73000	420 / 42.03	446 / 45.80	474 / 50.08	500 / 54.43	525 / 58.67				
CAH230 / CAV230	76000	437 / 47.42	462 / 51.32	489 / 55.75						
CAH230 / CAV230	79000	454 / 53.26	479 / 57.29							

CAH

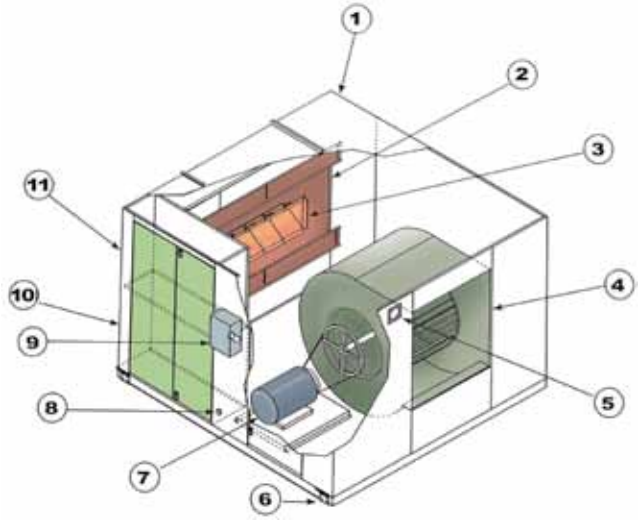
Models 222-236

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.00" RPM/BHP	0.25" RPM/BHP	0.50 RPM/BHP	0.75 RPM/BHP	1.00 RPM/BHP	1.25 RPM/BHP	1.50 RPM/BHP	1.75 RPM/BHP	2.00 RPM/BHP
CAH233 / CAV233	54000	253 / 14.30	291 / 17.56	325 / 20.90	351 / 23.76	378 / 26.88	419 / 31.82			
CAH233 / CAV233	57000	267 / 16.82	302 / 20.17	336 / 23.87	362 / 26.91	387 / 30.02	416 / 33.86			
CAH233 / CAV233	60000	281 / 19.62	314 / 23.02	348 / 27.09	374 / 30.37	397 / 33.55	422 / 37.12	456 / 42.20		
CAH233 / CAV233	63000	295 / 22.71	325 / 26.14	360 / 30.59	385 / 34.13	408 / 37.45	430 / 40.95	456 / 45.18		
CAH233 / CAV233	66000	309 / 26.11	337 / 29.57	372 / 34.37	397 / 38.21	419 / 41.70	440 / 45.24	463 / 49.19	491 / 54.32	
CAH233 / CAV233	69000	324 / 29.83	349 / 33.31	383 / 38.43	409 / 42.60	430 / 46.31	451 / 49.95	471 / 53.81	495 / 58.32	527 / 64.75
CAH233 / CAV233	72000	338 / 33.89	361 / 37.39	395 / 42.79	421 / 47.32	442 / 51.26	462 / 55.05	481 / 58.94	502 / 63.21	526 / 68.38
CAH233 / CAV233	75000	352 / 38.31	374 / 41.82	406 / 47.45	432 / 52.36	454 / 56.58	473 / 60.54	491 / 64.52	510 / 68.71	531 / 73.45
CAH233 / CAV233	78000	366 / 43.09	386 / 46.64	418 / 52.43	444 / 57.74	466 / 62.26	484 / 66.43	502 / 70.53	520 / 74.75	
CAH233 / CAV233	81000	380 / 48.26	399 / 51.83	429 / 57.75	456 / 63.47	477 / 68.31	496 / 72.72			
CAH233 / CAV233	84000	394 / 53.82	412 / 57.44	441 / 63.43	467 / 69.54	489 / 74.73				
CAH233 / CAV233	87000	408 / 59.79	425 / 63.46	452 / 69.48						
CAH233 / CAV233	90000	422 / 66.19	438 / 69.91							
CAH236 / CAV236	63000	256 / 18.90	293 / 22.80	320 / 26.34	342 / 29.57	364 / 33.07	393 / 37.63			
CAH236 / CAV236	66000	268 / 21.72	303 / 25.79	331 / 29.61	352 / 33.00	373 / 36.52	396 / 40.66			
CAH236 / CAV236	69000	281 / 24.82	314 / 29.03	342 / 33.16	363 / 36.72	382 / 40.31	403 / 44.30	430 / 49.45		
CAH236 / CAV236	72000	293 / 28.20	324 / 32.53	353 / 36.98	373 / 40.74	392 / 44.44	411 / 48.40	434 / 53.05	467 / 59.99	
CAH236 / CAV236	75000	305 / 31.88	335 / 36.31	363 / 41.09	384 / 45.07	402 / 48.90	420 / 52.89	440 / 57.34	465 / 62.90	
CAH236 / CAV236	78000	317 / 35.86	345 / 40.38	374 / 45.49	395 / 49.72	413 / 53.71	430 / 57.76	448 / 62.14	469 / 67.21	497 / 74.11
CAH236 / CAV236	81000	329 / 40.15	356 / 44.75	385 / 50.20	406 / 54.69	423 / 58.85	440 / 63.01	457 / 67.39	475 / 72.24	498 / 78.09
CAH236 / CAV236	84000	342 / 44.78	367 / 49.44	396 / 55.22	417 / 59.98	434 / 64.34	450 / 68.63	466 / 73.06	483 / 77.82	502 / 83.24
CAH236 / CAV236	87000	354 / 49.75	378 / 54.48	406 / 60.56	427 / 65.62	445 / 70.19	461 / 74.63	476 / 79.13	492 / 83.88	509 / 89.09
CAH236 / CAV236	90000	366 / 55.08	389 / 59.86	417 / 66.23	438 / 71.61	456 / 76.41	471 / 81.01	486 / 85.62	501 / 90.40	517 / 95.52
CAH236 / CAV236	93000	378 / 60.77	400 / 65.61	428 / 72.25	449 / 77.95	467 / 82.99	482 / 87.78	497 / 92.52	511 / 97.37	
CAH236 / CAV236	96000	390 / 66.84	411 / 71.74	438 / 78.61	460 / 84.65	477 / 89.96	493 / 94.94	507 / 99.84		
CAH236 / CAV236	99000	403 / 73.30	422 / 78.27	449 / 85.34	471 / 91.73	488 / 97.31				
CAH236 / CAV236	102000	415 / 80.17	433 / 85.20	459 / 92.44	482 / 99.19					

CAH-M Horizontal Recirculating Unit

Direct Fired Industrial Heated Make-Up Air



1. Casing 2. Burner Profile 3. Burner 4. Blower 5. Burner Observation Port
6. Base & Lifting Lugs 7. Motor 8. Gas Connection 9. Main Fused Disconnect
10. Manifold Controls Vestibule 11. Electrical Controls Vestibule

Factory assembled, wired, and flame-tested

FEATURES & BENEFITS

Casing
- G-90 galvanized steel
- Interlocked wall seam and roof panels
- Weatherproof construction
- Standing roof seams (models 18 and larger)
- Single casing construction (models 10-230)
- Hinged service doors with flush-mount latches
- Six discharge options
- Double wall doors

Burner Profile
- Adjustable profile plates
- Recirculating damper arrangement

Burner
- Wide-range, high capacity line burner
- Up to 30:1 turndown ratio
- Electric-pilot spark ignition

Blower
- FC-DWDI centrifugal blower assembly
- V-belt drive
- 100,000-hour greasable bearings (models 18-236)
- Permanently lubricated bearings (models 10-15)
- Solid steel shaft
- Split shaft with couplings on twin units

Controls
- Electric flame safety controls
- Ignition transformer
- Airflow proving control
- High-temperature safety controls
- Burner and blower service switches

Burner Observation Port
- Easy view of burner and pilot for start-up

Base and Lifting Lugs
- Formed G-90 galvanized-steel base
- Direct floor or curb mount
- Standard heavy-duty lifting lugs
- Optional hanging-mount lifting lugs (models 10-230)

Motor
- Standard, high E, open-drip proof with adjustable motor mounts
- V-belt drive
- Starter with burner interlock
- Adjustable drive up to and including 25HP

Gas Connection
- Allows no water leakage into casing

Manifold Controls Vestibule
- Weatherproof enclosure
- Easy access to manifold and controls
- Manifold built to required codes (FM/IRI/FIA)

Electrical Controls Vestibule
- Weatherproof enclosure
- Easy access to manifold and controls
- Exhaust-interlock terminals
- Terminal strip for quick service check
- Blower and burner service switches

Remote Control Panel
- Summer-Off-Winter switch
- “Blower On” light
- “Burner On” light
- Other lights available

ACCESSORIES

Discharge Damper, Two-Position Motor and Interlock
Motor-operated parallel blade damper that prevents warm air from escaping the building through the unit. The motor-damper end switch energizes the starter circuit when the damper is in the full-open position, and returns to a closed position during shutdown. Down discharge arrangement units available with our exclusive “Hassle Free Damper” internally mounted in unit.

Discharge Air Louvers with Air Diffuser
Discharges air in three directions with vertical and horizontal blades, and is field-installed. The blades can be manually adjusted to set direction of airflow.

Filter Section
Removable, hinged access door, with a 2” washable, aluminum-mesh filter, or a 2” pleated filter. Also available with 1”, 1.5 lb density insulation.

Fresh-Air Intake Hood with Birdscreen
Prevents rain or snow from entering the unit with a 1” mesh screen on hood face; sized to fit unit’s fresh-air intake. Shipped loose to be field installed.

Full-Downturn Inlet Hood
Prevents rain and snow from entering the unit by bringing air in to the bottom of the hood with a 1” wire-mesh screen, and is field installed. Large hoods are shipped separately, and must be field assembled.

High Efficiency Inlet Filter
A separate section with high efficiency filters mounted on the unit's inlet side. Available with 65%, 85%, or 95% cartridge filters and inlet-air hood.

Inlet-Hood Filters, 2”
Cleanable, aluminum-mesh filters mounted on the inlet-hood face in lieu of a separate filter section. Not available on CAH-M 227 and larger models.

Inlet Screen
Prevents material from entering unit. A 1” mesh screen fastens to unit's fresh-air intake.

Inlet Damper, Two-Position Motor and Interlock
Motor-operated parallel blade damper that prevents outside air from entering the building through the unit. The motor damper end switch energizes the starter circuit when the damper is in the full-open position, and returns to a closed position during shutdown.

Return-Air Filter,
2” deep, aluminum mesh, or 2” deep, 30% efficient, pleated type; v-bank, filter section shipped loose for field mounting to the return-air connection.

Standard Curb
24” roof curb formed of 12-gauge steel; 14” curb is also available. Shipped separately, and must be field assembled. Insulation, cant, and wood nailer by others.

OPTIONS

Adjustable Drives
Fixed-pitched sheaves are standard on motors 30HP and larger. An adjustable-pitch motor sheave is provided in lieu of the standard fixed-pitch sheave.

Casing Liners with Insulation
Prevents insulation fibers from being drawn into air stream and discharged into conditioned space, and prevents physical abuse and moisture damage to insulation. Made of galvanized steel.

Extended Grease Lines
Lubrication lines from blower bearings to a common point on the unit's exterior. Units with permanently lubricated bearings to be changed to pillow block-type.

Floor-Mounted Spring Isolators
Box-type lifting points replace standard lifting eyes; 1” deflection spring mounts shipped loose for field installation.

Hanging Spring Isolators, 1”
Shipped loose for field installation.

Painted Casings
One coat of beige air-dried enamel over a vinyl wash primer.

Pillow-Block Bearings, 100,000 hr
Standard on 18” blowers and larger, and are rated at 100,000 to 200,000 hours.

Spring-Isolated Blower and Motor
Mounted on a 1” deflection spring isolated base. A flexible duct connects the fan outlet to the unit's casing.

CONTROL OPTIONS

- Discharge temperature control
- Space temperature control

RECIRCULATING CONTROL OPTIONS

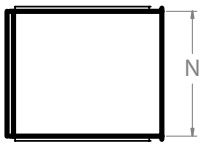
- Two position control
- Manual positioning control
- Building pressure control

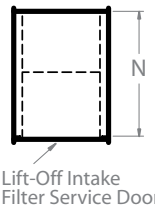
CERTIFICATIONS

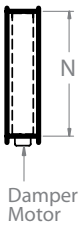
CaptiveAire® Certifies that Models CAH-M12 thru CAH-M236 shown herein are ETL Listed to the ANSI Z83.18a-2001Standards.

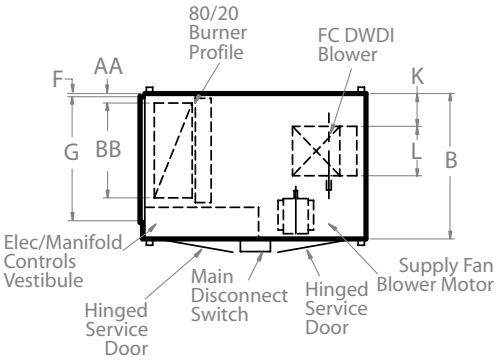
CAH-M Belt Drive

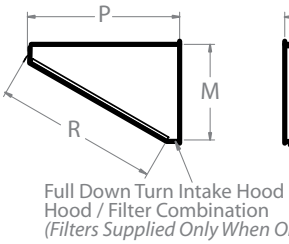
Models 12-15 M Down Discharge

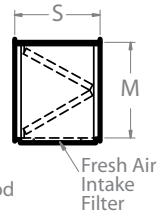


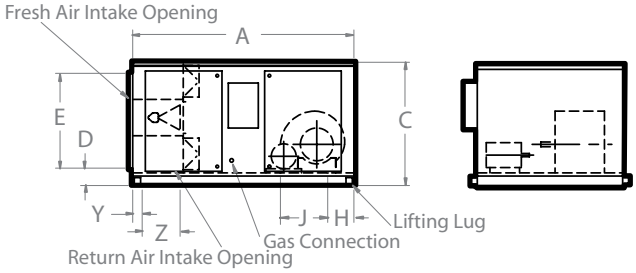


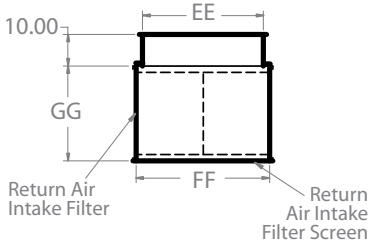


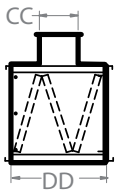


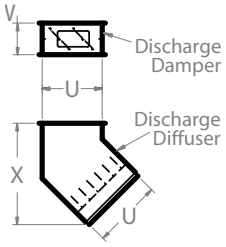


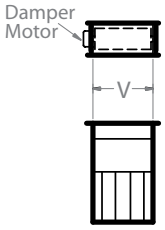










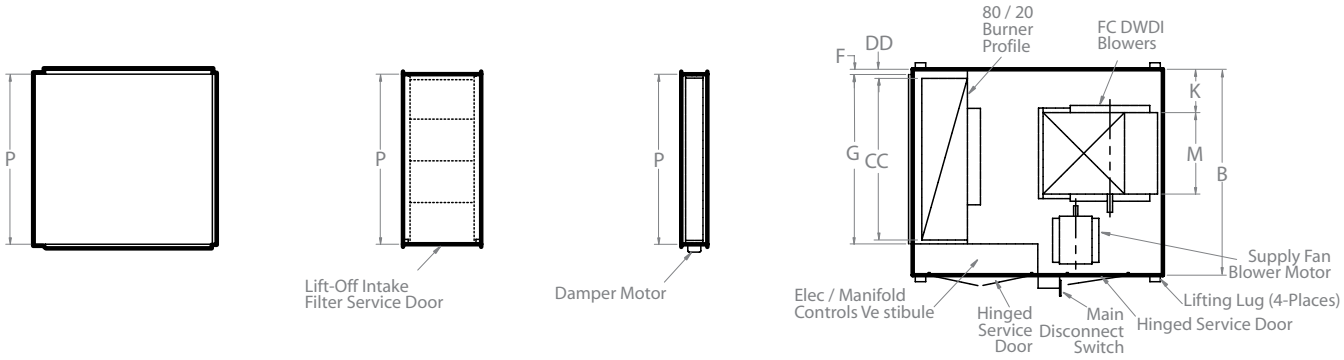


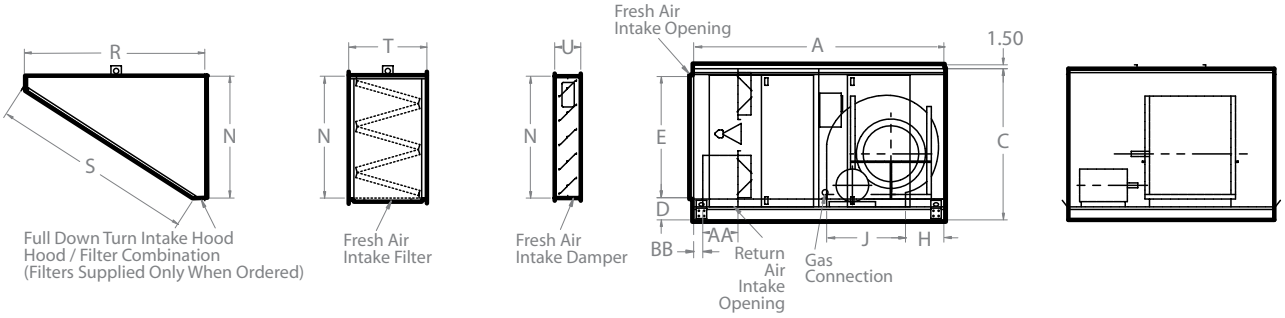
Measurements

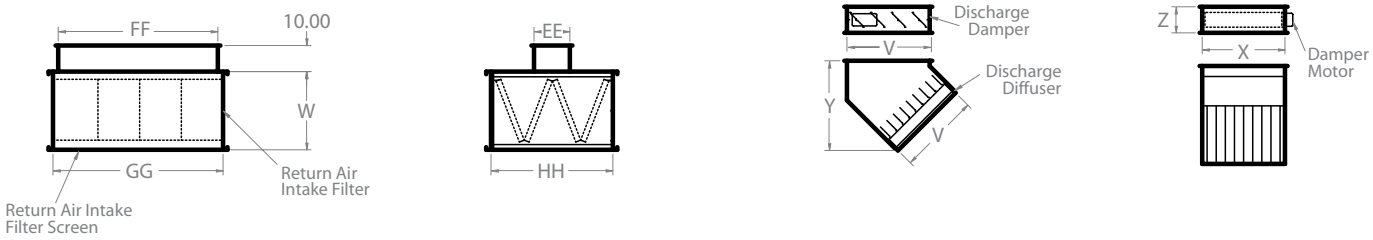
	Unit Dimensions																
MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T
12M	70	46	38	5.5	30	1	39.25	8.5	18.75	8.5	18.75	30.25	39.5	48	51.66	27	10
15M	70	46	38	5.5	30	1	39.25	8.5	18.75	8.5	18.75	30.25	39.5	48	51.66	27	10

MODEL	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG
12M	19	19	10	24	4.5	11.5	4.5	29.5	11.75	24.25	29.75	39.5	30
15M	19	19	10	24	4.5	11.5	4.5	29.5	11.75	24.25	29.75	39.5	30

	Filters		
MODEL	FA Filter	FA Filter / Hood	RA Filter
12M	(4) 20 x 25	(4) 20 x 25	(4) 20 X 25
15M	(4) 20 x 25	(4) 20 x 25	(4) 20 X 25







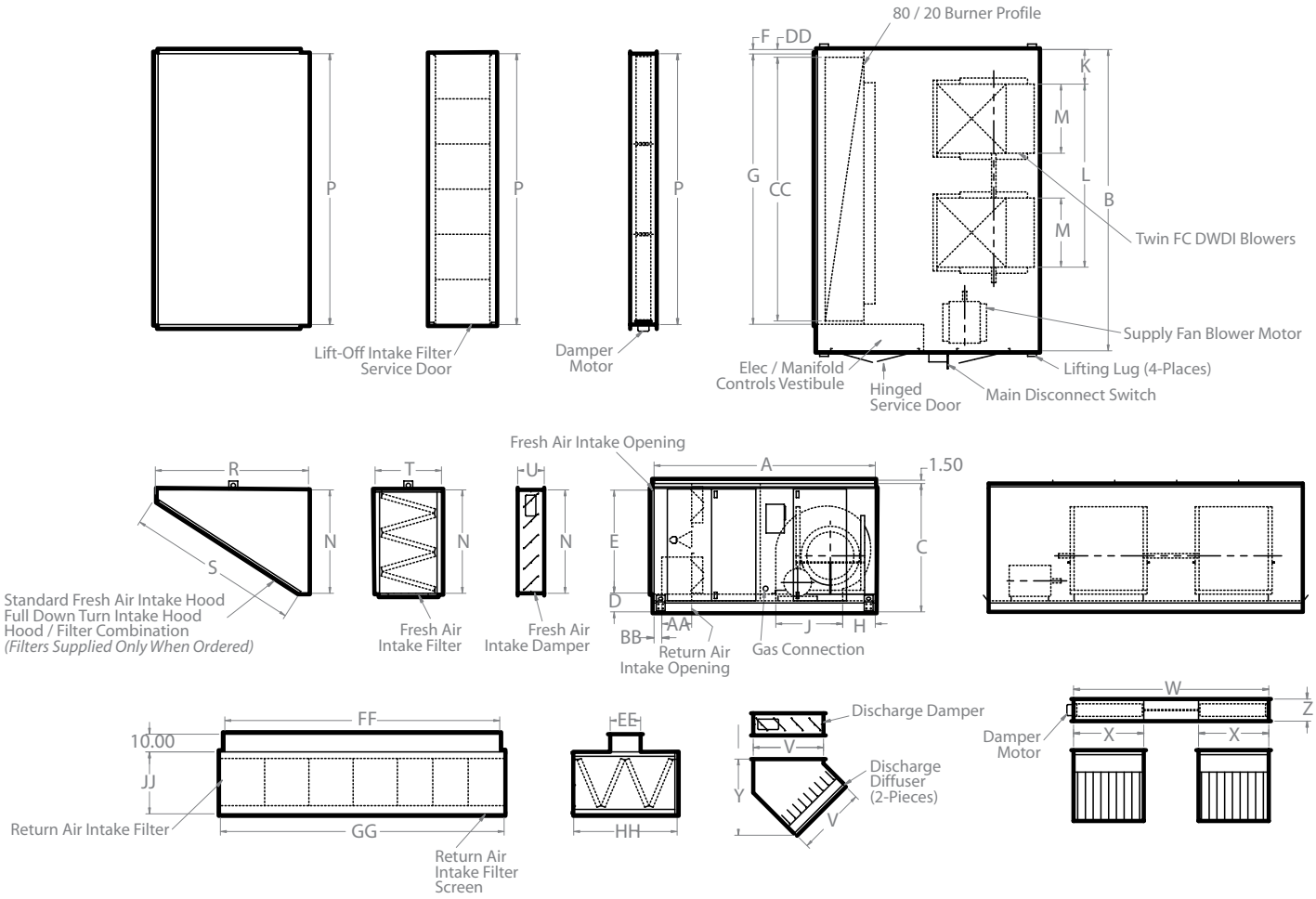
Measurements

	Unit Dimensions																			
MODEL	A	B	C	D	E	F	G	H	J	K	M	N	P	R	S	T	U	V	W	X
18M	82	60	54	8.5	40.5	2	56	13	25	12.5	23	40.75	56.25	69.5	76	27	10	25.25	30	23.25
20M	82	60	54	8.5	40.5	2	56	13	25	12.5	23	40.75	56.25	69.5	76	27	10	25.25	30	23.25
22M	100	79	58	8.5	46.5	2	76	14.13	27.5	15.5	27.5	46.75	76.25	69.5	76	26	10	27.75	30	27.75
25M	100	79	58	8.5	46.5	2	76	15.38	31.5	15.5	31.5	46.75	76.25	69.5	76	26	10	31.75	30	31.75
27M	100	88	66	10.5	52.5	2	80	17	34.5	15.5	34.5	52.75	80.25	95.25	101	27	10	34.75	30	34.25
30M	100	88	66	10.5	52.5	2	80	18.5	37	15.5	37	52.75	80.25	95.25	101	27	10	37.25	30	37.25
33M	112	98	76	11.5	59.5	2	92	16.5	43.19	18.5	40	59.75	92.25	91.25	101	27.5	10	43.25	30	40.25
36M	112	98	76	11.5	59.5	2	92	16.5	43.19	15.5	43	59.75	92.25	91.25	101	27.5	10	43.25	30	43.25

	Unit Dimensions										Filters		
MODEL	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	FA	FA/Hood	RA
18M	25.25	10	12.5	5.75	41.75	5.75	12.75	42	56.25	32.75	(6) 20 x 25 & (3) 16 x 25	(6) 20 x 25 & (3) 16 x 25	(6) 20 x 25 & (3) 16 x 25
20M	31 5	10	12.5	5.75	41.75	5.75	12.75	42	56.25	32.75	(6) 20 x 25 & (3) 16 x 25	(6) 20 x 25 & (3) 16 x 25	(6) 20 x 25 & (3) 16 x 25
22M	33.75	10	13.5	5.75	60.75	5.75	13.75	61	76.25	38.75	(9) 20 x 25 & (3) 16 x 25	(9) 20 x 25 & (3) 16 x 25	(9) 20 x 25 & (3) 16 x 25
25M	37.75	10	13.5	5.75	60.75	5.75	13.75	61	76.25	38.75	(9) 20 x 25 & (3) 16 x 25	(9) 20 x 25 & (3) 16 x 25	(9) 20 x 25 & (3) 16 x 25
27M	40	10	15.5	5.75	65.75	5.75	15.75	66	80.25	44.75	(20) 20 x 25	(16) 20 x 25	(16) 20 x 25
30M	43	10	15.5	5.75	65.75	5.75	15.75	66	80.25	44.75	(20) 20 x 25	(16) 20 x 25	(16) 20 x 25
33M	48	10	21.25	5.75	75.75	5.75	21.5	76	92.25	50.75	(15) 20 x 25 & (10) 16 x 25	(12) 20 x 25 & (8) 16 x 25	(12) 20 x 25 & (8) 16 x 25
36M	48	10	21.25	5.75	75.75	5.75	21.5	76	92.25	50.75	(15) 20 x 25 & (10) 16 x 25	(12) 20 x 25 & (8) 16 x 25	(12) 20 x 25 & (8) 16 x 25

CAH-M

Models 222-230 M Down Discharge



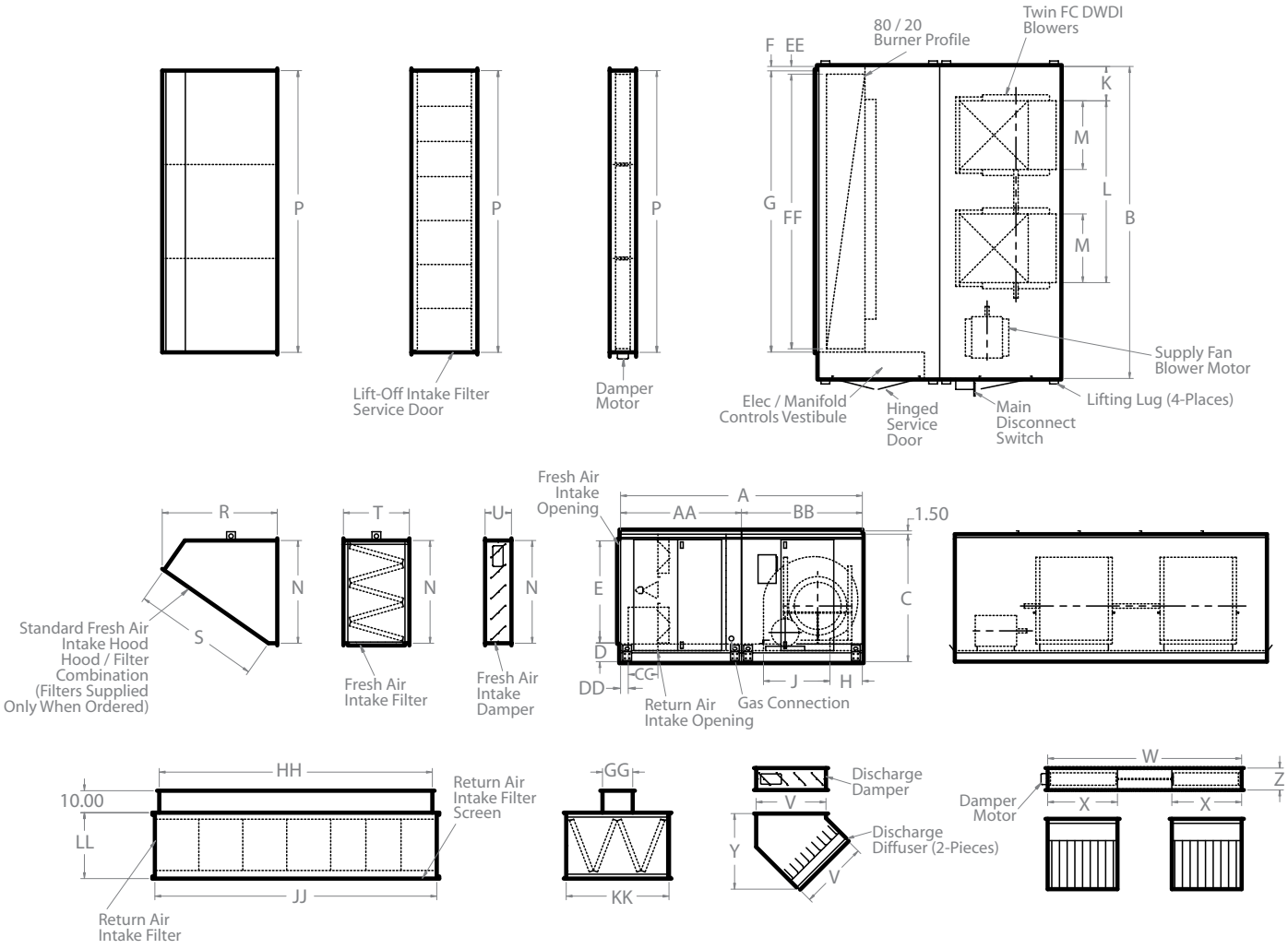
Measurements

	Unit Dimensions																			
MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W
222M	100	146	58	8.5	46.5	2	140	14.13	27.5	19.5	77	27.5	46.75	140.25	69.5	76	26	10	27.75	77.25
225M	100	146	58	8.5	46.5	2	140	15.38	31.5	15.5	88	31.5	46.75	140.25	69.5	76	26	10	31.75	88.25
227M	100	156	66	10.5	52.5	2	152	17	34.5	19.5	98	34.5	52.75	152.25	64	72	27	10	34.75	96.25
230M	100	156	66	10.5	52.5	2	152	18.5	37	15.5	104	37	52.75	152.25	64	72	27	10	37.25	104.25

	Unit Dimensions												Filters		
MODEL	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	JJ	FA Filter	FA Filter / Hood	RA Filter
222M	27.75	33.75	10	13.5	5.75	123.75	5.75	13.75	124	140.25	44.75	30	(20) 20 x 25 & (8) 16 x 25	(21) 20 x 25	(21) 20 X 25
225M	31.75	37.75	10	13.5	5.75	123.75	5.75	13.75	124	140.25	44.75	30	(20) 20 x 25 & (8) 16 x 25	(21) 20 x 25	(21) 20 X 25
227M	34.75	40	10	15.5	5.75	133.75	5.75	15.75	134	152.25	50.75	30	(30) 20 x 25 & (10) 16 x 25	-	(24) 20 X 25 & (8) 16 x 25
230M	37.25	43	10	15.5	5.75	133.75	5.75	15.75	134	152.25	50.75	30	(30) 20 x 25 & (10) 16 x 25	-	(24) 20 X 25 & (8) 16 x 25

CAH-M

Models 233-236 M Down Discharge



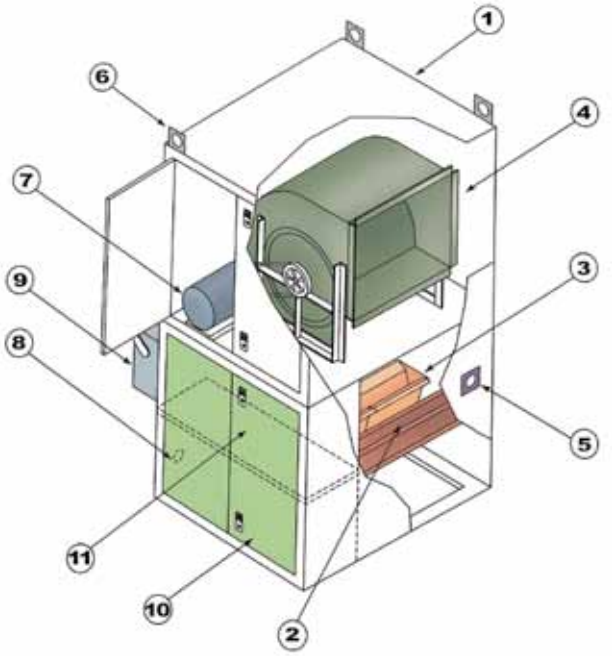
Measurements

	Unit Dimensions																		
MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W
233M	126	184	76	11.5	59.5	2	180	16.5	43.19	18.5	116	40	59.75	180.25	64.75	78	27.5	10	43.25	116.25
236M	126	184	76	11.5	59.5	2	180	16.5	43.19	15.5	122	43	59.75	180.25	64.75	78	27.5	10	43.25	122.25

	Unit Dimensions													Filters	
MODEL	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK	LL	FA Filter	RA Filter
233M	40.25	48	10	63	63	21.25	5.75	5.75	157.75	21.5	158	180.25	56.75	30	(54) 20 x 25	(45) 20 x 25
236M	43.25	48	10	63	63	21.25	5.75	5.75	157.75	21.5	158	180.25	56.75	30	(54) 20 x 25	(45) 20 x 25

CAV Vertical Non-Recirculating Unit

Direct Fired Industrial Heated Make-Up Air



1. Casing 2. Burner Profile 3. Burner 4. Blower 5. Burner Observation Port
6. Lifting Lugs 7. Motor 8. Gas Connection 9. Main Fused Disconnect
10. Manifold Controls Vestibule 11. Electrical Controls Vestibule

Factory assembled, wired, and flame-tested

FEATURES & BENEFITS

Casing
- Internal tubular frame
- Double wall doors
- Rear doors on Model 22 & larger
- G-90 galvanized steel
- Weatherproof construction
- Hinged service doors with flush-mount latches
- Six discharge options

Burner
- Internal tubular frame
- Double wall doors
- Rear doors on Model 22 & larger
- G-90 galvanized steel
- Weatherproof construction
- Hinged service doors with flush-mount latches
- Six discharge options

Blower
- FC-DWDI centrifugal blower assembly
- V-belt drive
- 100,000-hour greasable bearings (models 18-236)
- Permanently lubricated bearings (models 10-15)
- Solid steel shaft
- Split shaft with couplings on twin units

Burner Observation Port
Easy view of burner and pilot for start-up

Manifold Controls Vestibule
- Weatherproof enclosure
- Easy access to manifold and controls
- Manifold built to required codes (FM / IRI / FIA)

Electrical Controls Vestibule
- Weatherproof enclosure
- Easy access to manifold and controls
- Exhaust-interlock terminals
- Terminal strip for quick service check
- Blower and burner service switches

Gas Connection
- Allows no water leakage into casing

Motor
- Standard, high E, open-drip proof with adjustable motor mounts
- V-belt drive
- Starter with burner interlock
- Adjustable drive up to and including 25HP

Lifting Eyes
Standard heavy-duty lifting lugs

Controls
- Electric flame safety controls
- Ignition transformer
- Airflow proving control
- High-temperature safety controls
- Burner and blower service switches

Remote Control Panel
- Summer-Off-Winter switch
- “Blower On” light
- “Burner On” light
- Other lights available

ACCESSORIES

Discharge Damper, Two-Position Motor and Interlock
Motor-operated parallel blade damper that prevents warm air from escaping the building through the unit. The motor-damper end switch energizes the starter circuit when the damper is in the full-open position, and returns to a closed position during shutdown.

Discharge Air Diffusers
Discharges air in four directions with vertical and horizontal blades, and is field-installed. The blades can be manually adjusted to set direction of airflow.

Filter Section
Removable, hinged access door, with a 2" washable, aluminum-mesh filter, or a 2" pleated filter. Also available with 1", 1.5 lb density insulation.

Inlet Screen
Prevents material from entering unit. A 1" mesh screen fastens to unit's fresh-air intake.

Inlet Damper, Two-Position Motor and Interlock
Motor-operated parallel blade damper that prevents outside air from entering the building through the unit. The motor damper end switch energizes the starter circuit when the damper is in the full-open position, and returns to a closed position during shutdown.

OPTIONS

Adjustable Drives
Fixed-pitched sheaves are standard on motors 30HP and larger. An adjustable-pitch motor sheave is provided in lieu of the standard fixed-pitch sheave.

Casing Liners with Insulation
Prevents insulation fibers from being drawn into air stream and discharged into conditioned space, and prevents physical abuse and moisture damage to insulation. Made of galvanized steel.

Extended Grease Lines
Lubrication lines from blower bearings to a common point on the unit's exterior. Units with permanently lubricated bearings to be changed to pillow block-type.

Painted Casings
One coat of beige air-dried enamel over a vinyl wash primer.

Pillow-Block Bearings, 100,000 hr
Standard on 18" blowers and larger units ordered with an industrial blower, and are rated at 100,000 to 200,000 hours.

Spring-Isolated Blower and Motor
Mounted on a 1" deflection spring isolated base. A flexible duct connects the fan outlet to the unit's casing.

VAV Damper Package
Provides burner profile damper that automatically maintains the correct burner velocity with varying CFM loads. Also dual airflow switches and rate-limiting controls are included to prevent over-firing.

CONTROL OPTIONS

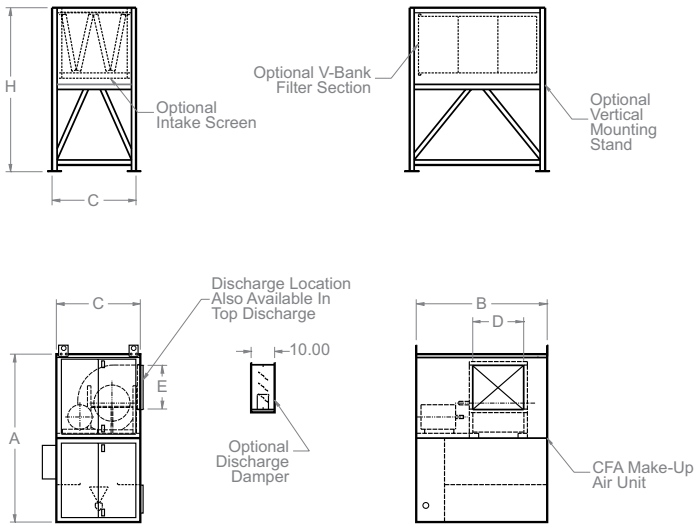
- Discharge temperature control
- Space temperature control

CERTIFICATIONS

CaptiveAire® Certifies that Models CAV 10 thru CAV 236 shown herein are ETL Listed to the ANSI Z83.4A-2001/ CSA 3.7a-2001 Combined Standards.

CAV

Models 10-36



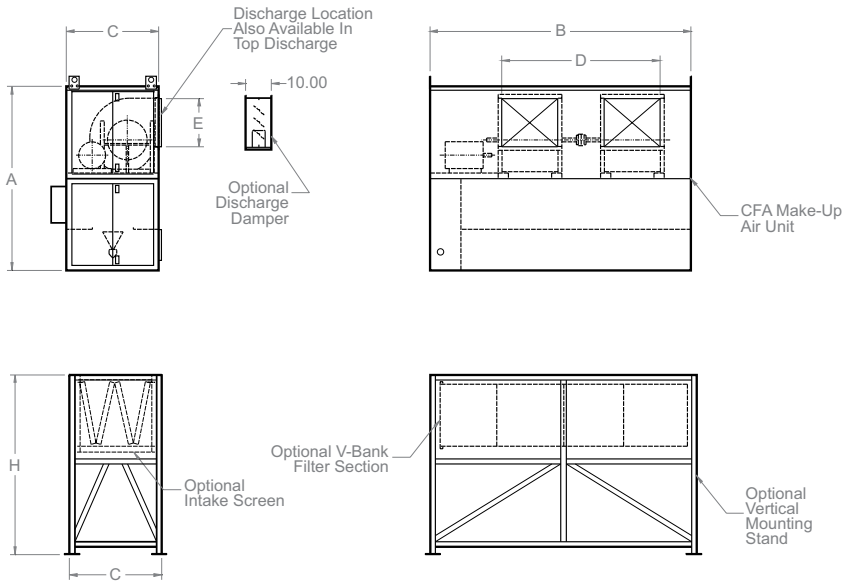
Measurements

	Unit Dimensions					
MODEL	A	B	C	D	E	H
10	70	50	36	13.25	11.5	76
12	70	50	36	16	13.75	76
15	70	50	36	19	16.25	76
18	82	65	50	22	19.13	76
20	82	65	50	22.75	25	76
22	100	80	50	27.5	27.5	76
25	100	80	50	31.5	31.5	76
27	110	88	60	34.5	34.5	76
30	110	88	60	37	37	76
33	128	112	70	39.81	43.25	76
36	128	112	70	42.81	43.25	76

Notes: All external accessories are oversized 1/4" for R.A. and S.A. openings • All dimensions are specified in inches • All dimensions are subject to change

CAV

Models 222-236



Measurements

	Unit Dimensions					
MODEL	A	B	C	D	E	H
222	100	146	50	77	27.25	76
225	100	146	50	88	31.5	76
227	110	156	60	96	34.5	76
230	110	156	60	104	37	76
233	128	191	70	116	43.25	76
236	128	191	70	122	43.25	76

Notes: All external accessories are oversized 1/4" for R.A. and S.A. openings • All dimensions are specified in inches • All dimensions are subject to change

CAV

Models 10-36

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.00" RPM/BHP	0.25" RPM/BHP	0.50 RPM/BHP	0.75 RPM/BHP	1.00 RPM/BHP	1.25 RPM/BHP	1.50 RPM/BHP	1.75 RPM/BHP	2.00 RPM/BHP
CAH10 / CAV10	1000	400 / 0.06	710 / 0.13	966 / 0.23	1175 / 0.35	1340 / 0.47	1477 / 0.59	1595 / 0.71		
CAH10 / CAV10	1500	560 / 0.15	818 / 0.27	1018 / 0.40	1202 / 0.55	1372 / 0.71	1527 / 0.88	1669 / 1.05	1794 / 1.22	1908 / 1.40
CAH10 / CAV10	2000	747 / 0.36	952 / 0.51	1127 / 0.67	1278 / 0.84	1420 / 1.03	1558 / 1.23	1689 / 1.43	1815 / 1.65	1932 / 1.87
CAH10 / CAV10	2500	933 / 0.71	1097 / 0.89	1256 / 1.09	1391 / 1.29	1516 / 1.50	1634 / 1.72	1748 / 1.95	1859 / 2.19	1967 / 2.44
CAH10 / CAV10	3000	1119 / 1.22	1253 / 1.44	1395 / 1.67	1522 / 1.91	1636 / 2.15	1742 / 2.39	1844 / 2.65	1942 / 2.91	2037 / 3.18
CAH10 / CAV10	3500	1306 / 1.94	1417 / 2.19	1542 / 2.46	1660 / 2.74	1767 / 3.01	1867 / 3.29	1960 / 3.57	2049 / 3.86	2137 / 4.16
CAH10 / CAV10	4000	1493 / 2.90	1587 / 3.17	1695 / 3.48	1803 / 3.80	1905 / 4.11	1999 / 4.42	2088 / 4.74		
CAH10 / CAV10	4500	1678 / 4.13	1761 / 4.44	1855 / 4.77						
CAH12 / CAV12	2000	462 / 0.18	681 / 0.30	862 / 0.44	1017 / 0.59	1155 / 0.75	1283 / 0.92	1401 / 1.10	1509 / 1.28	1612 / 1.48
CAH12 / CAV12	2500	577 / 0.36	754 / 0.50	919 / 0.67	1061 / 0.84	1189 / 1.02	1307 / 1.21	1418 / 1.41	1523 / 1.61	1621 / 1.83
CAH12 / CAV12	3000	692 / 0.62	838 / 0.77	987 / 0.98	1118 / 1.18	1237 / 1.39	1347 / 1.60	1451 / 1.82	1550 / 2.04	1643 / 2.27
CAH12 / CAV12	3500	808 / 0.98	929 / 1.15	1062 / 1.38	1184 / 1.62	1296 / 1.86	1399 / 2.10	1497 / 2.34	1589 / 2.59	1679 / 2.84
CAH12 / CAV12	4000	923 / 1.46	1026 / 1.64	1143 / 1.89	1256 / 2.17	1361 / 2.44	1460 / 2.72	1552 / 2.99	1640 / 3.26	1724 / 3.54
CAH12 / CAV12	4500	1038 / 2.08	1128 / 2.27	1230 / 2.54	1334 / 2.84	1433 / 3.15	1526 / 3.46	1614 / 3.76	1698 / 4.07	1779 / 4.38
CAH12 / CAV12	5000	1153 / 2.86	1232 / 3.06	1323 / 3.33	1417 / 3.65	1509 / 3.99	1597 / 4.34	1681 / 4.68		
CAH12 / CAV12	5500	1269 / 3.80	1340 / 4.02	1420 / 4.30	1504 / 4.63	1590 / 5.00				
CAH15 / CAV15	3000	466 / 0.34	656 / 0.56	804 / 0.77	941 / 1.03	1068 / 1.31	1184 / 1.62	1291 / 1.95	1389 / 2.29	1479 / 2.63
CAH15 / CAV15	3500	544 / 0.54	715 / 0.80	848 / 1.04	971 / 1.30	1088 / 1.60	1199 / 1.93	1303 / 2.28	1400 / 2.65	1492 / 3.03
CAH15 / CAV15	4000	621 / 0.81	777 / 1.11	900 / 1.38	1012 / 1.66	1119 / 1.97	1221 / 2.31	1319 / 2.68	1413 / 3.06	1503 / 3.47
CAH15 / CAV15	4500	699 / 1.15	842 / 1.50	957 / 1.80	1060 / 2.11	1158 / 2.43	1253 / 2.79	1344 / 3.16	1433 / 3.56	1519 / 3.98
CAH15 / CAV15	5000	776 / 1.58	909 / 1.97	1017 / 2.31	1114 / 2.65	1205 / 3.00	1292 / 3.36	1377 / 3.75	1460 / 4.16	1541 / 4.59
CAH15 / CAV15	5500	854 / 2.10	977 / 2.54	1079 / 2.92	1170 / 3.29	1256 / 3.66	1338 / 4.05	1418 / 4.45	1495 / 4.88	1571 / 5.33
CAH15 / CAV15	6000	931 / 2.72	1047 / 3.21	1143 / 3.64	1230 / 4.04	1311 / 4.45	1389 / 4.86	1463 / 5.28	1536 / 5.72	1608 / 6.18
CAH15 / CAV15	6500	1008 / 3.46	1117 / 4.00	1209 / 4.47	1292 / 4.91	1369 / 5.35	1443 / 5.79	1513 / 6.23	1582 / 6.69	1650 / 7.17
CAH15 / CAV15	7000	1086 / 4.32	1188 / 4.91	1276 / 5.43	1355 / 5.91	1429 / 6.38	1499 / 6.85	1567 / 7.32		
CAH18 / CAV18	5000	362 / 0.75	486 / 1.07	578 / 1.43	654 / 1.77					
CAH18 / CAV18	5500	398 / 1.00	513 / 1.34	604 / 1.74	676 / 2.11	743 / 2.49				
CAH18 / CAV18	6000	434 / 1.29	540 / 1.66	630 / 2.09	701 / 2.51	765 / 2.92				
CAH18 / CAV18	6500	471 / 1.64	567 / 2.03	657 / 2.49	727 / 2.96	789 / 3.41	846 / 3.85			
CAH18 / CAV18	7000	507 / 2.05	595 / 2.46	683 / 2.95	753 / 3.46	814 / 3.95	869 / 4.43	921 / 4.90		
CAH18 / CAV18	7500	543 / 2.52	624 / 2.95	710 / 3.47	780 / 4.01	839 / 4.55	893 / 5.07	944 / 5.58	992 / 6.09	
CAH18 / CAV18	8000	579 / 3.06	653 / 3.51	737 / 4.05	806 / 4.63	866 / 5.21	918 / 5.77	968 / 6.32	1015 / 6.86	1060 / 7.40
CAH18 / CAV18	8500	615 / 3.67	684 / 4.15	764 / 4.70	833 / 5.31	892 / 5.93	944 / 6.54	993 / 7.13	1038 / 7.72	1082 / 8.29
CAH18 / CAV18	9000	652 / 4.36	715 / 4.86	791 / 5.43	860 / 6.07	919 / 6.72	971 / 7.37	1018 / 8.01	1063 / 8.64	1106 / 9.25
CAH18 / CAV18	9500	688 / 5.13	747 / 5.65	819 / 6.24	887 / 6.90	945 / 7.59	997 / 8.28	1044 / 8.96	1088 / 9.63	
CAH18 / CAV18	10000	724 / 5.98	779 / 6.53	847 / 7.14	913 / 7.82	972 / 8.54	1024 / 9.27	1071 / 9.99		
CAH18 / CAV18	10500	760 / 6.92	810 / 7.49	876 / 8.13	941 / 8.83	999 / 9.57				
CAH18 / CAV18	11000	796 / 7.96	845 / 8.56	905 / 9.21	968 / 9.93					
CAH18 / CAV18	11500	833 / 9.10	878 / 9.73							
CAH20 / CAV20	7000	300 / 0.91	384 / 1.31	465 / 1.82	530 / 2.27	587 / 2.71	640 / 3.15	690 / 3.58	737 / 4.02	782 / 4.47
CAH20 / CAV20	8000	339 / 1.30	412 / 1.78	491 / 2.37	555 / 2.92	610 / 3.43	660 / 3.94	707 / 4.44	752 / 4.93	795 / 5.43
CAH20 / CAV20	9000	381 / 1.86	443 / 2.35	518 / 3.03	581 / 3.67	635 / 4.27	683 / 4.85	729 / 5.42	771 / 5.98	812 / 6.54
CAH20 / CAV20	10000	423 / 2.55	477 / 3.07	545 / 3.80	607 / 4.54	660 / 5.24	708 / 5.90	752 / 6.55	793 / 7.18	833 / 7.81
CAH20 / CAV20	11000	466 / 3.39	512 / 3.93	574 / 4.71	634 / 5.54	687 / 6.33	734 / 7.09	777 / 7.82	817 / 8.53	855 / 9.23
CAH20 / CAV20	12000	508 / 4.40	549 / 4.97	604 / 5.77	661 / 6.68	713 / 7.57	760 / 8.42	802 / 9.25	842 / 10.04	879 / 10.82
CAH20 / CAV20	13000	550 / 5.59	587 / 6.20	636 / 7.01	689 / 7.98	740 / 8.96	786 / 9.91	829 / 10.83	868 / 11.72	905 / 12.58
CAH20 / CAV20	14000	593 / 6.98	626 / 7.62	669 / 8.45	718 / 9.46	767 / 10.52	813 / 11.57	855 / 12.58	894 / 13.56	930 / 14.52
CAH20 / CAV20	15000	635 / 8.59	666 / 9.26	704 / 10.11	749 / 11.14	796 / 12.26	840 / 13.40	882 / 14.51		
CAH20 / CAV20	16000	677 / 10.43	705 / 11.12	740 / 12.00	781 / 13.04	825 / 14.21				
CAH22 / CAV22	10000	339 / 1.80	402 / 2.29	462 / 2.84	515 / 3.38	565 / 3.93	611 / 4.51	655 / 5.11	698 / 5.76	739 / 6.43
CAH22 / CAV22	11000	373 / 2.39	429 / 2.92	486 / 3.53	537 / 4.13	584 / 4.72	628 / 5.33	670 / 5.97	711 / 6.63	750 / 7.32
CAH22 / CAV22	12000	407 / 3.10	458 / 3.67	511 / 4.33	560 / 4.99	605 / 5.64	647 / 6.29	687 / 6.96	726 / 7.65	763 / 8.37
CAH22 / CAV22	13000	441 / 3.95	488 / 4.55	537 / 5.25	584 / 5.97	627 / 6.68	667 / 7.38	706 / 8.09	743 / 8.82	778 / 9.56
CAH22 / CAV22	14000	475 / 4.93	518 / 5.56	564 / 6.32	608 / 7.09	650 / 7.86	689 / 8.61	726 / 9.37	761 / 10.14	796 / 10.92
CAH22 / CAV22	15000	509 / 6.06	549 / 6.73	592 / 7.52	634 / 8.35	674 / 9.18	711 / 9.99	747 / 10.81	781 / 11.62	815 / 12.44
CAH22 / CAV22	16000	543 / 7.36	580 / 8.06	619 / 8.87	660 / 9.77	698 / 10.65	735 / 11.53	769 / 12.40	803 / 13.26	835 / 14.13
CAH22 / CAV22	17000	577 / 8.82	611 / 9.56	649 / 10.43	687 / 11.36	724 / 12.30	759 / 13.23	792 / 14.16	825 / 15.08	856 / 16.00
CAH22 / CAV22	18000	611 / 10.47	643 / 11.25	678 / 12.15	714 / 13.12	750 / 14.11	783 / 15.11	816 / 16.09	847 / 17.07	878 / 18.05
CAH22 / CAV22	19000	645 / 12.32	675 / 13.12	708 / 14.06	742 / 15.08	776 / 16.12	809 / 17.17	840 / 18.22	871 / 19.25	
CAH22 / CAV22	20000	678 / 14.37	707 / 15.21	739 / 16.18	771 / 17.23	803 / 18.32	835 / 19.43			
CAH22 / CAV22	21000	712 / 16.63	740 / 17.51	769 / 18.51	800 / 19.60					
CAH22 / CAV22	22000	746 / 19.12								

CAV

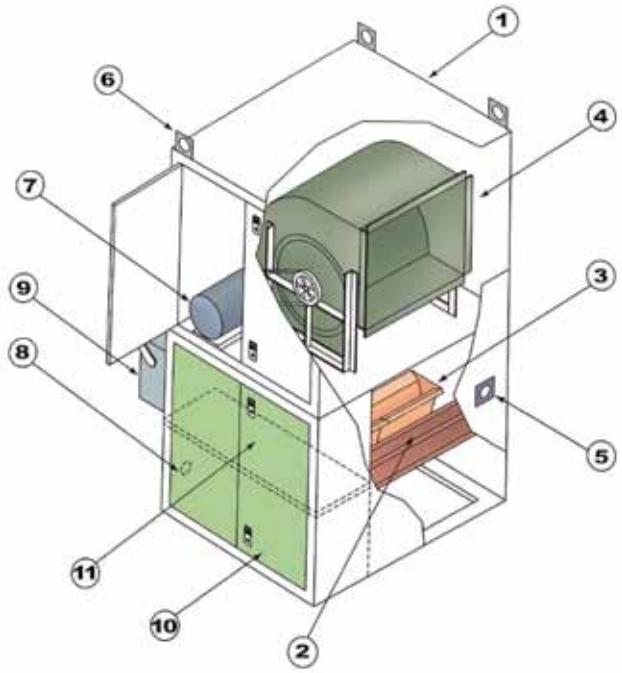
Models 10-36

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.00" RPM/BHP	0.25" RPM/BHP	0.50 RPM/BHP	0.75 RPM/BHP	1.00 RPM/BHP	1.25 RPM/BHP	1.50 RPM/BHP	1.75 RPM/BHP	2.00 RPM/BHP
CAH25 / CAV25	14000	322 / 2.82	377 / 3.53	432 / 4.37	481 / 5.22	526 / 6.07	567 / 6.94	606 / 7.82	643 / 8.73	679 / 9.67
CAH25 / CAV25	15500	356 / 3.83	406 / 4.60	457 / 5.51	504 / 6.45	546 / 7.39	586 / 8.33	623 / 9.29	659 / 10.27	693 / 11.26
CAH25 / CAV25	17000	391 / 5.05	436 / 5.87	483 / 6.85	527 / 7.88	568 / 8.91	606 / 9.94	642 / 10.98	677 / 12.03	709 / 13.09
CAH25 / CAV25	18500	425 / 6.51	466 / 7.38	510 / 8.43	552 / 9.54	591 / 10.66	628 / 11.78	662 / 12.90	696 / 14.03	727 / 15.17
CAH25 / CAV25	20000	460 / 8.23	497 / 9.15	538 / 10.26	577 / 11.44	615 / 12.65	650 / 13.86	684 / 15.07	716 / 16.29	746 / 17.51
CAH25 / CAV25	21500	494 / 10.22	529 / 11.20	566 / 12.36	603 / 13.61	639 / 14.90	673 / 16.20	706 / 17.51	737 / 18.81	767 / 20.11
CAH25 / CAV25	23000	528 / 12.51	561 / 13.54	596 / 14.76	630 / 16.07	665 / 17.44	697 / 18.83	729 / 20.23	759 / 21.62	788 / 23.01
CAH25 / CAV25	24500	563 / 15.13	593 / 16.21	626 / 17.47	658 / 18.85	691 / 20.29	722 / 21.76	753 / 23.25	782 / 24.73	810 / 26.21
CAH25 / CAV25	26000	597 / 18.08	626 / 19.21	656 / 20.53	687 / 21.96	718 / 23.47	748 / 25.02	777 / 26.59	806 / 28.17	833 / 29.74
CAH25 / CAV25	27500	632 / 21.39	659 / 22.58	687 / 23.95	716 / 25.44	745 / 27.01	774 / 28.63			
CAH25 / CAV25	29000	666 / 25.08	692 / 26.33	718 / 27.75	746 / 29.29					
CAH25 / CAV25	30500	701 / 29.18								
CAH27 / CAV27	16000	228 / 2.36	284 / 3.23	330 / 4.10	370 / 4.98	408 / 5.89	447 / 6.84	489 / 7.82	533 / 8.82	578 / 9.83
CAH27 / CAV27	18000	257 / 3.36	307 / 4.32	352 / 5.32	389 / 6.30	423 / 7.29	457 / 8.32	492 / 9.38	528 / 10.48	566 / 11.59
CAH27 / CAV27	20000	285 / 4.61	329 / 5.66	373 / 6.79	409 / 7.88	441 / 8.97	472 / 10.07	502 / 11.21	533 / 12.38	565 / 13.59
CAH27 / CAV27	22000	314 / 6.14	353 / 7.26	395 / 8.53	430 / 9.73	461 / 10.93	490 / 12.13	518 / 13.35	545 / 14.60	573 / 15.87
CAH27 / CAV27	24000	342 / 7.97	377 / 9.17	417 / 10.55	452 / 11.89	482 / 13.20	509 / 14.50	536 / 15.81	561 / 17.14	587 / 18.50
CAH27 / CAV27	26000	371 / 10.13	402 / 11.41	440 / 12.90	474 / 14.37	503 / 15.80	530 / 17.21	555 / 18.62	579 / 20.04	603 / 21.48
CAH27 / CAV27	28000	399 / 12.65	428 / 14.00	463 / 15.59	496 / 17.20	525 / 18.75	551 / 20.28	575 / 21.80	599 / 23.31	621 / 24.85
CAH27 / CAV27	30000	428 / 15.56	454 / 16.99	486 / 18.66	518 / 20.40	547 / 22.08	572 / 23.74	596 / 25.37	619 / 26.99	641 / 28.62
CAH27 / CAV27	32000	456 / 18.88	480 / 20.39	510 / 22.14	540 / 23.99	569 / 25.82	594 / 27.60	618 / 29.35		
CAH27 / CAV27	34000	485 / 22.65	507 / 24.23	534 / 26.06	563 / 28.02	591 / 29.98				
CAH27 / CAV27	36000	513 / 26.89	534 / 28.54							
CAH30 / CAV30	20000	237 / 3.62	286 / 4.77	326 / 5.91	360 / 7.03	393 / 8.19	426 / 9.41	460 / 10.72		
CAH30 / CAV30	22000	261 / 4.81	306 / 6.07	344 / 7.35	377 / 8.58	407 / 9.82	437 / 11.11	467 / 12.46	498 / 13.88	
CAH30 / CAV30	24000	284 / 6.25	326 / 7.61	363 / 9.03	394 / 10.38	423 / 11.72	450 / 13.08	478 / 14.49	505 / 15.96	533 / 17.50
CAH30 / CAV30	26000	308 / 7.94	346 / 9.40	382 / 10.96	413 / 12.44	440 / 13.89	466 / 15.35	491 / 16.83	516 / 18.36	542 / 19.95
CAH30 / CAV30	28000	332 / 9.92	367 / 11.46	402 / 13.16	432 / 14.78	458 / 16.35	483 / 17.91	506 / 19.49	530 / 21.09	553 / 22.74
CAH30 / CAV30	30000	355 / 12.20	388 / 13.83	421 / 15.66	451 / 17.41	476 / 19.11	500 / 20.79	523 / 22.46	545 / 24.16	567 / 25.88
CAH30 / CAV30	32000	379 / 14.80	409 / 16.52	441 / 18.47	470 / 20.37	495 / 22.20	518 / 24.00	540 / 25.78	561 / 27.57	582 / 29.38
CAH30 / CAV30	34000	403 / 17.75	431 / 19.55	461 / 21.62	489 / 23.66	514 / 25.64	537 / 27.56	558 / 29.46	579 / 31.36	598 / 33.26
CAH30 / CAV30	36000	427 / 21.07	452 / 22.95	482 / 25.13	509 / 27.31	533 / 29.43	556 / 31.49	577 / 33.51	596 / 35.52	616 / 37.53
CAH30 / CAV30	38000	450 / 24.78	474 / 26.75	502 / 29.02	529 / 31.34	553 / 33.60	575 / 35.80	595 / 37.95		
CAH30 / CAV30	40000	474 / 28.90	497 / 30.95	523 / 33.31	549 / 35.77	572 / 38.17				
CAH30 / CAV30	42000	498 / 33.46	519 / 35.59	544 / 38.04						
CAH33 / CAV33	24000	218 / 4.80	258 / 6.15	293 / 7.51	326 / 8.98	359 / 10.52	390 / 12.12	421 / 13.76	450 / 15.41	478 / 17.08
CAH33 / CAV33	28000	254 / 7.61	290 / 9.21	320 / 10.76	350 / 12.39	378 / 14.11	406 / 15.90	434 / 17.74	460 / 19.62	486 / 21.53
CAH33 / CAV33	32000	290 / 11.36	323 / 13.21	350 / 14.97	376 / 16.77	402 / 18.65	427 / 20.61	451 / 22.64	476 / 24.71	500 / 26.83
CAH33 / CAV33	36000	327 / 16.18	356 / 18.29	381 / 20.26	405 / 22.25	428 / 24.30	450 / 26.42	473 / 28.62	495 / 30.87	517 / 33.17
CAH33 / CAV33	40000	363 / 22.19	390 / 24.56	413 / 26.76	435 / 28.96	456 / 31.19	477 / 33.48	497 / 35.84	517 / 38.25	
CAH33 / CAV33	44000	399 / 29.53	424 / 32.17	446 / 34.61	466 / 37.02	486 / 39.44				
CAH33 / CAV33	48000	436 / 38.34								
CAH36 / CAV36	28000	217 / 6.19	249 / 7.52	284 / 9.29	313 / 10.90	334 / 12.11	351 / 13.11	365 / 14.00	378 / 14.81	
CAH36 / CAV36	30000	232 / 7.61	262 / 9.02	295 / 10.83	325 / 12.71	347 / 14.17	365 / 15.36	380 / 16.39	393 / 17.32	405 / 18.19
CAH36 / CAV36	32000	248 / 9.24	276 / 10.73	306 / 12.56	336 / 14.65	360 / 16.39	378 / 17.80	394 / 19.00	407 / 20.07	419 / 21.05
CAH36 / CAV36	34000	263 / 11.08	290 / 12.66	317 / 14.50	347 / 16.75	372 / 18.77	391 / 20.42	407 / 21.82	421 / 23.05	434 / 24.17
CAH36 / CAV36	36000	279 / 13.15	304 / 14.82	329 / 16.69	357 / 19.01	383 / 21.30	404 / 23.23	421 / 24.86	435 / 26.27	448 / 27.55
CAH36 / CAV36	38000	294 / 15.47	318 / 17.24	342 / 19.13	368 / 21.48	394 / 24.00	416 / 26.21	433 / 28.09	449 / 29.73	462 / 31.18
CAH36 / CAV36	40000	310 / 18.04	333 / 19.91	355 / 21.84	379 / 24.20	404 / 26.87	427 / 29.37	446 / 31.53	462 / 33.40	475 / 35.06
CAH36 / CAV36	42000	325 / 20.89	347 / 22.86	368 / 24.83	390 / 27.20	415 / 29.95	438 / 32.70	457 / 35.15	474 / 37.29	489 / 39.17
CAH36 / CAV36	44000	341 / 24.01	362 / 26.09	381 / 28.12	402 / 30.50	425 / 33.28	448 / 36.22	469 / 38.96	486 / 41.38	501 / 43.52
CAH36 / CAV36	46000	356 / 27.44	377 / 29.62	395 / 31.72	415 / 34.11	436 / 36.91	459 / 39.97	480 / 42.96	498 / 45.68	514 / 48.10
CAH36 / CAV36	48000	372 / 31.18	392 / 33.47	409 / 35.63	428 / 38.04	448 / 40.85	469 / 43.98	490 / 47.18		
CAH36 / CAV36	50000	387 / 35.24	406 / 37.64	423 / 39.88	441 / 42.32	460 / 45.13	480 / 48.29			
CAH36 / CAV36	52000	403 / 39.64	421 / 42.15	438 / 44.47	454 / 46.96	472 / 49.76				
CAH36 / CAV36	54000	418 / 44.39	436 / 47.01	452 / 49.42						

CAV-M Vertical Recirculating Unit

Direct Fired Industrial Heated Make-Up Air



1. Casing 2. Burner Profile 3. Burner 4. Blower 5. Burner Observation Port
6. Lifting Lugs 7. Motor 8. Gas Connection 9. Main Fused Disconnect
10. Manifold Controls Vestibule 11. Electrical Controls Vestibule

Factory assembled, wired, and flame-tested
Mounting stand and ladder not supplied

FEATURES & BENEFITS

Casing
- Internal tubular frame
- Double wall doors
- Rear doors on Model 22 & larger
- G-90 galvanized steel
- Weatherproof construction
- Hinged service doors with flush-mount latches
- Six discharge options

Burner
- Wide-range, high capacity line burner
- Up to 30:1 turndown ratio
- Electric-pilot spark ignition

Blower
- FC-DWDI centrifugal blower assembly
- V-belt drive
- 100,000-hour greasable bearings (models 18-236)
- Permanently lubricated bearings (models 10-15)
- Solid steel shaft
- Split shaft with couplings on twin units

Burner Observation Port
Easy view of burner and pilot for start-up

Manifold Controls Vestibule
- Weatherproof enclosure
- Easy access to manifold and controls
- Manifold built to required codes (FM / IRI / FIA)

Electrical Controls Vestibule
- Weatherproof enclosure
- Easy access to manifold and controls
- Exhaust-interlock terminals
- Terminal strip for quick service check
- Blower and burner service switches

Gas Connection
Allows no water leakage into casing

Motor
- Standard, high E, open-drip proof with adjustable motor mounts
- V-belt drive
- Starter with burner interlock
- Adjustable drive up to and including 25HP

Lifting Eyes
Standard heavy-duty lifting lugs

Controls
- Electric flame safety controls
- Ignition transformer
- Airflow proving control
- High-temperature safety controls
- Burner and blower service switches

Remote Control Panel
- Summer-Off-Winter switch
- “Blower On” light
- “Burner On” light
- Other lights available

ACCESSORIES

Discharge Damper, Two-Position Motor and Interlock
Motor-operated parallel blade damper that prevents warm air from escaping the building through the unit. The motor-damper end switch energizes the starter circuit when the damper is in the full-open position, and returns to a closed position during shutdown.

Discharge Air Diffuser with Air Diffuser
Discharges air in three directions with vertical and horizontal blades, and is field-installed. The blades can be manually adjusted to set direction of airflow.

Filter Section
Removable, hinged access door, with a 2" washable, aluminum-mesh filter, or a 2" pleated filter. Also available with 1", 1.5 lb density insulation.

Inlet Screen
Prevents material from entering unit. A 1" mesh screen fastens to unit's fresh-air intake.

Inlet Damper, Two-Position Motor and Interlock
Motor-operated parallel blade damper that prevents outside air from entering the building through the unit. The motor damper end switch energizes the starter circuit when the damper is in the full-open position, and returns to a closed position during shutdown.

Return-Air Filter, 80/20 Units
1" or 2" deep, aluminum mesh, or 2" deep, 30% efficient, pleated type; v-bank, filter section shipped loose for field mounting to the return-air connection.

SERVICE PLATFORM

Standard Length
Allows access to unit, and is mounted on the unit's control side. Supplied with guard rails, safety chain and is the same length as the basic unit.

OPTIONS

Adjustable Drives
Fixed-pitched sheaves are standard on motors 30HP and larger. An adjustable-pitch motor sheave is provided in lieu of the standard fixed-pitch sheave.

Casing Liners with Insulation
Prevents insulation fibers from being drawn into air stream and discharged into conditioned space, and prevents physical abuse and moisture damage to insulation. Made of galvanized steel.

Extended Grease Lines
Lubrication lines from blower bearings to a common point on the unit's exterior. Units with permanently lubricated bearings to be changed to pillow block-type.

Painted Casings
One coat of beige air-dried enamel over a vinyl wash primer.

Spring-Isolated Blower and Motor
Mounted on a 1" deflection spring isolated base. A flexible duct connects the fan outlet to the unit's casing.

Pillow-Block Bearings, 100,000 hr
Standard on 18" blowers and larger, and are rated at 100,000 to 200,000 hours.

CONTROL OPTIONS

- Discharge temperature control
- Space temperature control

RECIRCULATING CONTROL OPTIONS

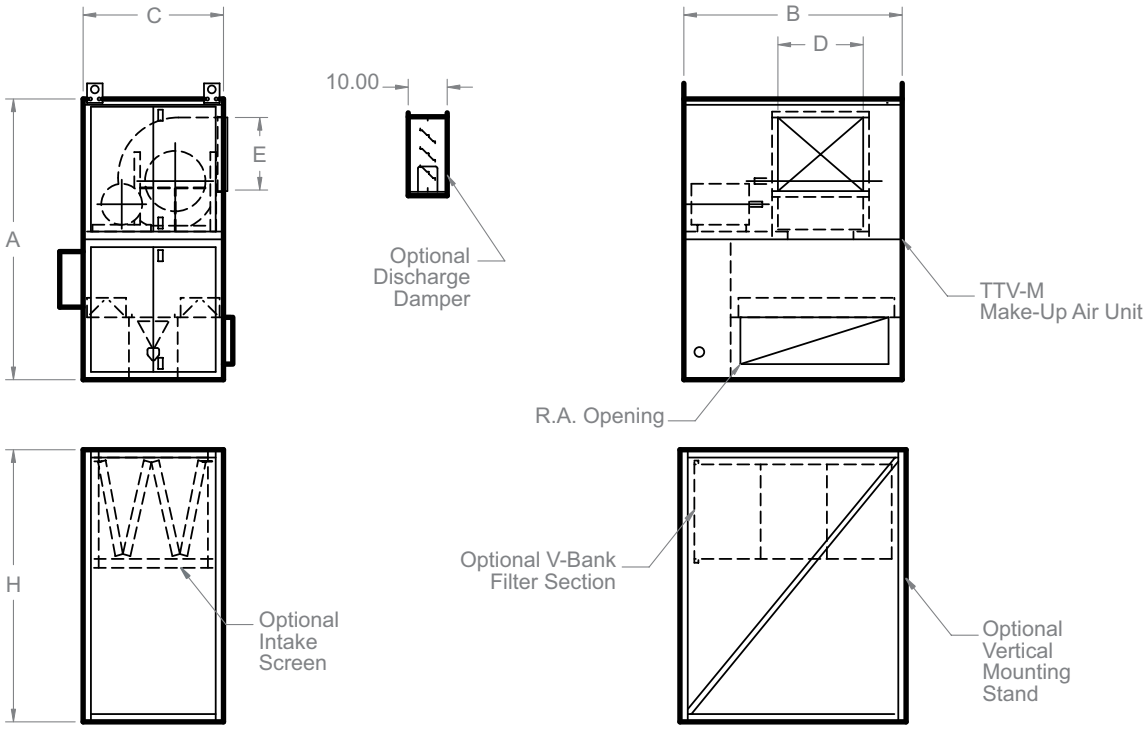
- Two position control
- Manual positioning control
- Building pressure control

CERTIFICATIONS

CaptiveAire® Certifies that Models CAV-M12 thru CAV-M236 shown herein are ETL Listed to the ANSI Z83.18a-2001Standards.

CAV-M

Models 12-36 M Side Discharge



Measurements

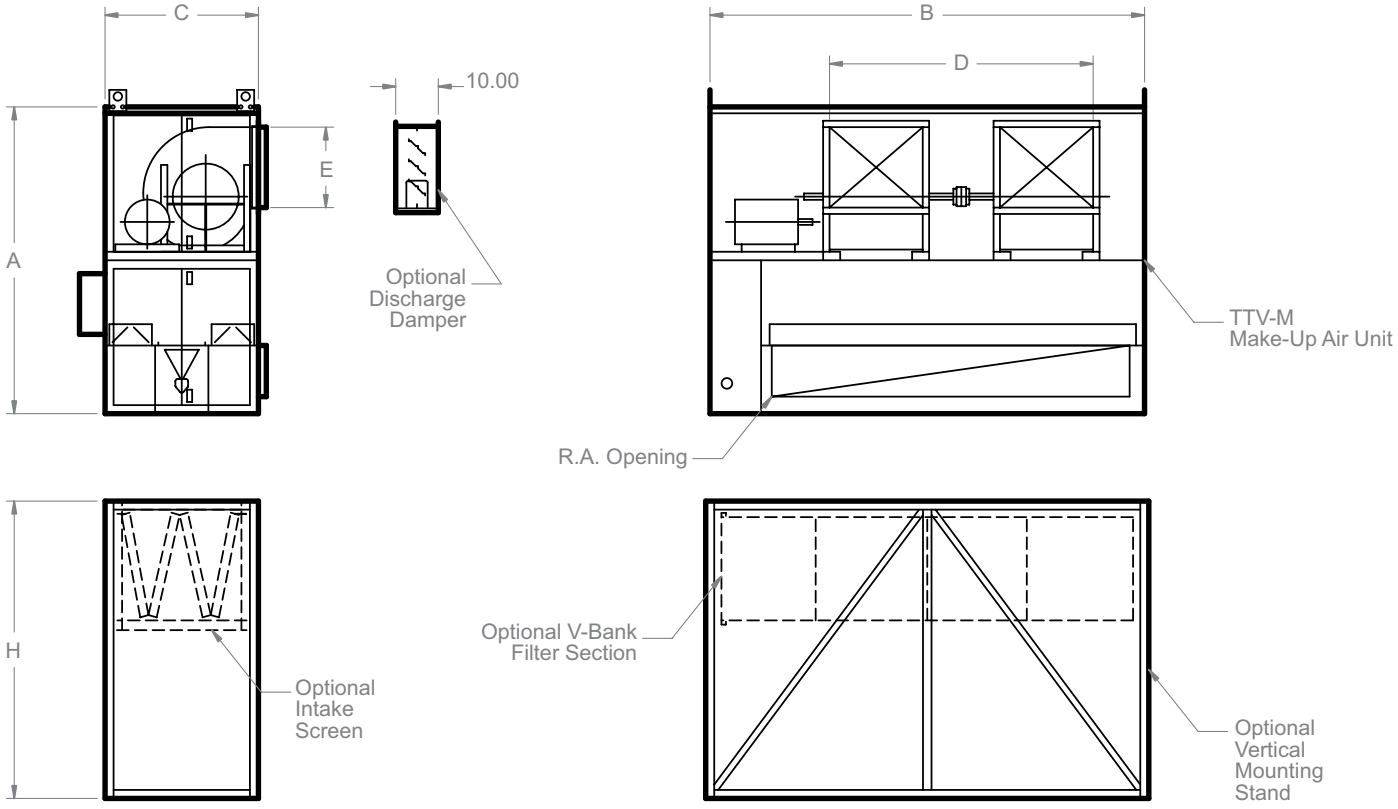
	Unit Dimensions						
MODEL	A	B	C	D	E	H	R.A. OPENING (LxH)
10M	70	50	36	13.25	11.5	76	—
12M	70	50	36	16	13.75	76	29.50 x 11.50
15M	70	50	36	19	16.25	76	29.50 x 11.50
18M	82	65	50	22	19.13	76	41.75 x 12.50
20M	82	65	50	22.75	25	76	41.75 x 12.50
22M	100	80	50	27.5	27.5	76	58.00 x 14.00
25M	100	80	50	31.5	31.5	76	58.00 x 14.00
27M	110	88	60	34.5	34.5	76	65.13 x 15.75
30M	110	88	60	37	37	76	65.13 x 15.75
33M	128	112	70	39.81	43.25	76	75.75 x 21.25
36M	128	112	70	42.81	43.25	76	75.75 x 21.25

Measurements

	Filters	
MODEL	A	B
12M	(4) 20 x 25	(4) 20 x 25
15M	(4) 20 x 25	(4) 20 x 25
18M	(9) 20 x 25	(9) 20 x 25
20M	(9) 20 x 25	(9) 20 x 25
22M	(4) 16 x 25 & (12) 20 x 25	(4) 16 x 25 & (12) 20 x 25
25M	(4) 16 x 25 & (12) 20 x 25	(4) 16 x 25 & (12) 20 x 25
27M	(20) 16 x 25 & (5) 20 x 25	(20) 16 x 25 & (5) 20 x 25
30M	(20) 16 x 25 & (5) 20 x 25	(20) 16 x 25 & (5) 20 x 25
33M	(10) 16 x 25 & (20) 20 x 25	(10) 16 x 25 & (20) 20 x 25
36M	(10) 16 x 25 & (20) 20 x 25	(10) 16 x 25 & (20) 20 x 25

CAV-M

Models 222-236 M Down Discharge



Measurements

	Unit Dimensions						
MODEL	A	B	C	D	E	H	R.A. OPENING (L x W)
222M	100	146	50	77	27.25	76	123.75 x 13.75
225M	100	146	50	88	31.5	76	123.75 x 13.75
227M	110	156	60	96	34.5	76	133.50 x 15.75
230M	110	156	60	104	37	76	133.50 x 15.75
233M	128	191	70	116	43.25	76	157.75 x 21.25
236M	128	191	70	122	43.25	76	157.75 x 21.25

Measurements

	Filters	
MODEL	FA	RA
222M	(16) 20 x 25 & (16) 16 x 25	(16) 20 x 25 & (16) 16 x 25
225M	(16) 20 x 25 & (16) 16 x 25	(16) 20 x 25 & (16) 16 x 25
227M	(30) 20 x 25 & (10) 16 x 25	(30) 20 x 25 & (10) 16 x 25
230M	(30) 20 x 25 & (10) 16 x 25	(30) 20 x 25 & (10) 16 x 25
233M	(30) 20 x 25 & (20) 16 x 25	(30) 20 x 25 & (20) 16 x 25
236M	(30) 20 x 25 & (20) 16 x 25	(30) 20 x 25 & (20) 16 x 25

CAV-M

Models 12-36 M Side Discharge

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.00" RPM/BHP	0.25" RPM/BHP	0.50 RPM/BHP	0.75 RPM/BHP	1.00 RPM/BHP	1.25 RPM/BHP	1.50 RPM/BHP	1.75 RPM/BHP	2.00 RPM/BHP
CAH-M12 / CAV-M12	2000	498 / 0.21	719 / 0.36	891 / 0.51	1038 / 0.67	1171 / 0.84	1294 / 1.04	1407 / 1.24	1513 / 1.46	1613 / 1.69
CAH-M12 / CAV-M12	2500	622 / 0.42	806 / 0.60	964 / 0.79	1098 / 0.98	1219 / 1.17	1332 / 1.37	1438 / 1.59	1539 / 1.83	1635 / 2.07
CAH-M12 / CAV-M12	3000	746 / 0.72	900 / 0.92	1046 / 1.16	1171 / 1.39	1283 / 1.62	1388 / 1.84	1486 / 2.08	1580 / 2.32	1669 / 2.58
CAH-M12 / CAV-M12	3500	870 / 1.15	1000 / 1.36	1134 / 1.65	1252 / 1.93	1358 / 2.19	1455 / 2.45	1548 / 2.71	1636 / 2.98	1720 / 3.25
CAH-M12 / CAV-M12	4000	995 / 1.71	1105 / 1.94	1226 / 2.26	1337 / 2.58	1439 / 2.90	1532 / 3.20	1619 / 3.50	1702 / 3.80	1782 / 4.10
CAH-M12 / CAV-M12	4500	1119 / 2.44	1215 / 2.68	1323 / 3.02	1427 / 3.39	1523 / 3.75	1613 / 4.11	1697 / 4.45	1776 / 4.78	
CAH-M12 / CAV-M12	5000	1243 / 3.34	1328 / 3.60	1424 / 3.96	1521 / 4.36	1612 / 4.77				
CAH-M15 / CAV-M15	3000	515 / 0.51	672 / 0.78	812 / 1.11	930 / 1.44	1036 / 1.79	1131 / 2.14	1219 / 2.50	1299 / 2.87	1373 / 3.23
CAH-M15 / CAV-M15	3500	601 / 0.81	734 / 1.10	865 / 1.48	977 / 1.86	1077 / 2.26	1169 / 2.66	1255 / 3.07	1335 / 3.48	1410 / 3.90
CAH-M15 / CAV-M15	4000	687 / 1.20	800 / 1.52	921 / 1.94	1028 / 2.38	1124 / 2.82	1212 / 3.27	1294 / 3.72	1372 / 4.18	1446 / 4.65
CAH-M15 / CAV-M15	4500	773 / 1.71	871 / 2.05	981 / 2.51	1083 / 3.00	1175 / 3.49	1259 / 3.98	1338 / 4.48	1414 / 4.99	1485 / 5.51
CAH-M15 / CAV-M15	5000	858 / 2.35	945 / 2.71	1044 / 3.20	1140 / 3.73	1229 / 4.27	1309 / 4.81	1387 / 5.37	1459 / 5.92	1528 / 6.48
CAH-M15 / CAV-M15	5500	944 / 3.13	1021 / 3.51	1111 / 4.02	1200 / 4.59	1285 / 5.18	1363 / 5.78	1438 / 6.38	1507 / 6.98	
CAH-M15 / CAV-M15	6000	1030 / 4.06	1099 / 4.46	1180 / 4.99	1263 / 5.60	1343 / 6.23	1419 / 6.88			
CAH-M15 / CAV-M15	6500	1116 / 5.17	1178 / 5.59	1251 / 6.14	1328 / 6.77	1404 / 7.44				
CAH-M18 / CAV-M18	5000	406 / 0.88	531 / 1.22	618 / 1.56						
CAH-M18 / CAV-M18	5500	446 / 1.18	564 / 1.55	649 / 1.91	720 / 2.32					
CAH-M18 / CAV-M18	6000	486 / 1.53	598 / 1.94	681 / 2.32	750 / 2.74	812 / 3.24				
CAH-M18 / CAV-M18	6500	527 / 1.94	632 / 2.39	713 / 2.80	780 / 3.24	840 / 3.73				
CAH-M18 / CAV-M18	7000	567 / 2.42	667 / 2.91	746 / 3.36	812 / 3.81	870 / 4.31	924 / 4.87			
CAH-M18 / CAV-M18	7500	608 / 2.98	703 / 3.50	779 / 3.99	844 / 4.47	901 / 4.98	953 / 5.54	1003 / 6.16		
CAH-M18 / CAV-M18	8000	648 / 3.62	738 / 4.17	813 / 4.71	876 / 5.21	932 / 5.74	983 / 6.30	1031 / 6.92	1078 / 7.60	
CAH-M18 / CAV-M18	8500	689 / 4.34	774 / 4.93	847 / 5.51	909 / 6.04	964 / 6.59	1014 / 7.16	1061 / 7.79	1106 / 8.46	1149 / 9.19
CAH-M18 / CAV-M18	9000	729 / 5.15	811 / 5.77	881 / 6.39	942 / 6.97	996 / 7.54	1046 / 8.13	1092 / 8.76	1135 / 9.42	
CAH-M18 / CAV-M18	9500	770 / 6.06	847 / 6.71	916 / 7.38	976 / 7.99	1029 / 8.59	1078 / 9.20	1123 / 9.84		
CAH-M18 / CAV-M18	10000	810 / 7.06	884 / 7.75	951 / 8.46	1009 / 9.11	1062 / 9.75				
CAH-M18 / CAV-M18	10500	851 / 8.18	922 / 8.90	986 / 9.64						
CAH-M18 / CAV-M18	11000	891 / 9.40								
CAH-M20 / CAV-M20	7000	324 / 1.01	428 / 1.59	506 / 2.09	572 / 2.53	630 / 2.95	683 / 3.40	733 / 3.88	779 / 4.38	823 / 4.93
CAH-M20 / CAV-M20	8000	370 / 1.50	464 / 2.17	539 / 2.79	602 / 3.32	658 / 3.81	709 / 4.30	757 / 4.80	801 / 5.32	844 / 5.88
CAH-M20 / CAV-M20	9000	416 / 2.14	503 / 2.88	573 / 3.63	633 / 4.27	687 / 4.84	737 / 5.39	783 / 5.94	826 / 6.49	868 / 7.07
CAH-M20 / CAV-M20	10000	462 / 2.93	542 / 3.73	608 / 4.60	667 / 5.37	719 / 6.05	767 / 6.68	811 / 7.29	854 / 7.90	894 / 8.51
CAH-M20 / CAV-M20	11000	508 / 3.90	582 / 4.76	645 / 5.74	701 / 6.63	751 / 7.43	798 / 8.17	841 / 8.86	882 / 9.54	921 / 10.20
CAH-M20 / CAV-M20	12000	554 / 5.06	623 / 5.97	683 / 7.05	736 / 8.07	785 / 9.00	830 / 9.85	872 / 10.64	912 / 11.40	950 / 12.14
CAH-M20 / CAV-M20	13000	601 / 6.43	664 / 7.39	721 / 8.56	773 / 9.70	820 / 10.76	864 / 11.73	905 / 12.64	943 / 13.49	981 / 14.32
CAH-M20 / CAV-M20	14000	647 / 8.03	706 / 9.03	760 / 10.29	810 / 11.54	855 / 12.72	898 / 13.82	938 / 14.85		
CAH-M22 / CAV-M22	10000	359 / 1.94	425 / 2.51	487 / 3.09	545 / 3.70	595 / 4.31	641 / 4.92	684 / 5.53	725 / 6.17	765 / 6.86
CAH-M22 / CAV-M22	11000	394 / 2.58	456 / 3.22	513 / 3.83	567 / 4.50	617 / 5.18	662 / 5.85	703 / 6.51	742 / 7.19	780 / 7.88
CAH-M22 / CAV-M22	12000	430 / 3.35	487 / 4.06	539 / 4.71	591 / 5.42	639 / 6.16	683 / 6.90	724 / 7.63	762 / 8.35	798 / 9.08
CAH-M22 / CAV-M22	13000	466 / 4.26	519 / 5.04	568 / 5.74	616 / 6.49	662 / 7.27	705 / 8.08	745 / 8.87	783 / 9.66	818 / 10.45
CAH-M22 / CAV-M22	14000	502 / 5.32	552 / 6.18	597 / 6.93	642 / 7.71	686 / 8.54	728 / 9.40	767 / 10.26	804 / 11.12	839 / 11.97
CAH-M22 / CAV-M22	15000	538 / 6.54	585 / 7.47	627 / 8.28	669 / 9.10	711 / 9.97	751 / 10.88	789 / 11.80	826 / 12.72	860 / 13.64
CAH-M22 / CAV-M22	16000	573 / 7.94	618 / 8.95	658 / 9.81	697 / 10.68	737 / 11.58	775 / 12.53	812 / 13.51	848 / 14.49	882 / 15.48
CAH-M22 / CAV-M22	17000	609 / 9.52	652 / 10.61	690 / 11.53	727 / 12.44	764 / 13.39	800 / 14.37	836 / 15.39	871 / 16.43	904 / 17.48
CAH-M22 / CAV-M22	18000	645 / 11.30	686 / 12.47	722 / 13.46	757 / 14.42	792 / 15.40	826 / 16.43	861 / 17.49	894 / 18.57	927 / 19.68
CAH-M22 / CAV-M22	19000	681 / 13.29	720 / 14.54	754 / 15.60	787 / 16.61	821 / 17.64	854 / 18.70	886 / 19.80		
CAH-M22 / CAV-M22	20000	717 / 15.50	754 / 16.83	787 / 17.96	819 / 19.03					
CAH-M22 / CAV-M22	21000	752 / 17.94	788 / 19.36							
CAH-M25 / CAV-M25	14000	358 / 3.28	424 / 4.20	476 / 5.10	521 / 5.99	565 / 6.89	607 / 7.84	647 / 8.84	687 / 9.88	726 / 10.97
CAH-M25 / CAV-M25	15500	396 / 4.44	457 / 5.47	506 / 6.48	550 / 7.46	590 / 8.44	629 / 9.46	667 / 10.50	704 / 11.60	740 / 12.74
CAH-M25 / CAV-M25	17000	435 / 5.86	491 / 6.99	538 / 8.11	579 / 9.19	618 / 10.26	654 / 11.35	689 / 12.46	724 / 13.61	758 / 14.79
CAH-M25 / CAV-M25	18500	473 / 7.55	526 / 8.77	571 / 10.01	610 / 11.20	647 / 12.36	681 / 13.53	714 / 14.72	747 / 15.93	779 / 17.17
CAH-M25 / CAV-M25	20000	511 / 9.54	560 / 10.86	604 / 12.20	642 / 13.50	677 / 14.77	710 / 16.03	741 / 17.30	772 / 18.58	802 / 19.88
CAH-M25 / CAV-M25	21500	550 / 11.85	596 / 13.26	637 / 14.71	674 / 16.12	707 / 17.50	739 / 18.86	769 / 20.22	799 / 21.58	827 / 22.96
CAH-M25 / CAV-M25	23000	588 / 14.51	631 / 16.01	671 / 17.57	706 / 19.09	739 / 20.58	770 / 22.04	799 / 23.49	827 / 24.94	854 / 26.40
CAH-M25 / CAV-M25	24500	626 / 17.54	667 / 19.12	705 / 20.79	739 / 22.42	771 / 24.03	801 / 25.59	829 / 27.15	856 / 28.69	

CAV-M

Models 12-36 M Side Discharge

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.00" RPM/BHP	0.25" RPM/BHP	0.50 RPM/BHP	0.75 RPM/BHP	1.00 RPM/BHP	1.25 RPM/BHP	1.50 RPM/BHP	1.75 RPM/BHP	2.00 RPM/BHP
CAH-M27 / CAV-M27	16000	253 / 2.73	309 / 3.67	354 / 4.63	395 / 5.60	436 / 6.59	480 / 7.59	527 / 8.57	578 / 9.51	630 / 10.36
CAH-M27 / CAV-M27	18000	284 / 3.89	335 / 4.94	378 / 6.02	416 / 7.10	452 / 8.19	488 / 9.31	527 / 10.43	568 / 11.56	611 / 12.64
CAH-M27 / CAV-M27	20000	316 / 5.33	362 / 6.49	403 / 7.70	439 / 8.89	472 / 10.09	504 / 11.31	537 / 12.55	571 / 13.80	607 / 15.05
CAH-M27 / CAV-M27	22000	347 / 7.09	389 / 8.36	429 / 9.69	463 / 11.01	494 / 12.32	524 / 13.64	553 / 14.99	583 / 16.35	613 / 17.72
CAH-M27 / CAV-M27	24000	379 / 9.21	417 / 10.57	455 / 12.04	488 / 13.48	517 / 14.91	545 / 16.34	573 / 17.79	600 / 19.25	627 / 20.73
CAH-M27 / CAV-M27	26000	410 / 11.71	445 / 13.17	481 / 14.75	513 / 16.32	542 / 17.88	568 / 19.42	594 / 20.98	619 / 22.55	644 / 24.13
CAH-M27 / CAV-M27	28000	442 / 14.62	474 / 16.18	508 / 17.88	539 / 19.58	567 / 21.26	592 / 22.93	617 / 24.60	641 / 26.27	664 / 27.96
CAH-M27 / CAV-M27	30000	473 / 17.98	503 / 19.64	535 / 21.45	565 / 23.28	592 / 25.09	617 / 26.88	641 / 28.66		
CAH-M27 / CAV-M27	32000	505 / 21.83	532 / 23.58	562 / 25.50	591 / 27.45	618 / 29.39				
CAH-M27 / CAV-M27	34000	536 / 26.18	562 / 28.03							
CAH-M30 / CAV-M30	20000	264 / 4.22	312 / 5.44	350 / 6.70	386 / 7.96	422 / 9.26	458 / 10.64	493 / 12.12	527 / 13.72	560 / 15.43
CAH-M30 / CAV-M30	22000	290 / 5.62	336 / 6.95	371 / 8.33	404 / 9.72	437 / 11.12	469 / 12.56	502 / 14.08	534 / 15.69	565 / 17.41
CAH-M30 / CAV-M30	24000	316 / 7.29	359 / 8.73	393 / 10.25	424 / 11.75	454 / 13.27	484 / 14.80	513 / 16.39	543 / 18.04	573 / 19.78
CAH-M30 / CAV-M30	26000	343 / 9.27	383 / 10.82	415 / 12.46	444 / 14.09	472 / 15.73	500 / 17.37	528 / 19.05	555 / 20.76	583 / 22.55
CAH-M30 / CAV-M30	28000	369 / 11.58	408 / 13.24	438 / 15.00	466 / 16.76	492 / 18.52	518 / 20.28	544 / 22.06	569 / 23.86	595 / 25.71
CAH-M30 / CAV-M30	30000	396 / 14.24	432 / 16.01	461 / 17.89	488 / 19.78	513 / 21.66	537 / 23.55	561 / 25.44	585 / 27.34	609 / 29.28
CAH-M30 / CAV-M30	32000	422 / 17.28	457 / 19.15	485 / 21.15	510 / 23.17	534 / 25.18	557 / 27.19	580 / 29.20	603 / 31.22	625 / 33.26
CAH-M30 / CAV-M30	34000	448 / 20.73	482 / 22.70	509 / 24.82	533 / 26.96	556 / 29.10	578 / 31.24	600 / 33.37	621 / 35.51	642 / 37.66
CAH-M30 / CAV-M30	36000	475 / 24.61	507 / 26.68	533 / 28.91	556 / 31.18	578 / 33.45	600 / 35.71	620 / 37.97		
CAH-M33 / CAV-M33	24000	243 / 5.62	281 / 7.03	318 / 8.61	353 / 10.26	387 / 11.88	419 / 13.40	449 / 14.82	477 / 16.15	504 / 17.41
CAH-M33 / CAV-M33	28000	283 / 8.92	316 / 10.54	348 / 12.31	380 / 14.21	410 / 16.14	439 / 18.04	467 / 19.87	494 / 21.61	519 / 23.27
CAH-M33 / CAV-M33	32000	323 / 13.31	353 / 15.14	381 / 17.11	409 / 19.21	436 / 21.39	463 / 23.60	488 / 25.79	513 / 27.92	538 / 29.99
CAH-M33 / CAV-M33	36000	364 / 18.94	390 / 20.99	416 / 23.16	440 / 25.45	465 / 27.84	489 / 30.30	513 / 32.78	536 / 35.26	559 / 37.70
CAH-M33 / CAV-M33	40000	404 / 25.99	428 / 28.25	451 / 30.62	474 / 33.10	496 / 35.69	518 / 38.36			
CAH-M33 / CAV-M33	44000	444 / 34.58	467 / 37.07	488 / 39.64						
CAH-M36 / CAV-M36	28000	246 / 7.34	281 / 9.10	314 / 10.93	345 / 12.85	379 / 15.33	420 / 19.07	471 / 24.51		
CAH-M36 / CAV-M36	30000	263 / 9.03	296 / 10.89	328 / 12.88	357 / 14.85	386 / 17.15	420 / 20.26	462 / 24.82		
CAH-M36 / CAV-M36	32000	281 / 10.96	312 / 12.91	342 / 15.06	369 / 17.13	396 / 19.38	426 / 22.15	459 / 25.88	500 / 31.16	
CAH-M36 / CAV-M36	34000	298 / 13.15	327 / 15.18	356 / 17.49	383 / 19.69	408 / 21.96	434 / 24.57	463 / 27.82	496 / 32.15	536 / 38.01
CAH-M36 / CAV-M36	36000	316 / 15.61	343 / 17.72	371 / 20.19	396 / 22.53	420 / 24.87	444 / 27.42	470 / 30.41	498 / 34.13	531 / 39.00
CAH-M36 / CAV-M36	38000	333 / 18.35	359 / 20.55	386 / 23.16	410 / 25.66	433 / 28.11	456 / 30.67	479 / 33.53	504 / 36.90	532 / 41.06
CAH-M36 / CAV-M36	40000	351 / 21.41	375 / 23.67	401 / 26.43	425 / 29.09	447 / 31.67	468 / 34.29	490 / 37.10	513 / 40.28	537 / 44.01
CAH-M36 / CAV-M36	42000	368 / 24.78	391 / 27.12	416 / 30.00	439 / 32.83	461 / 35.55	481 / 38.26	502 / 41.09	523 / 44.18	544 / 47.66
CAH-M36 / CAV-M36	44000	386 / 28.49	407 / 30.90	431 / 33.90	454 / 36.90	475 / 39.77	495 / 42.60	514 / 45.49	534 / 48.54	

CAV-M

Models 222-236 M Down Discharge

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.00" RPM/BHP	0.25" RPM/BHP	0.50 RPM/BHP	0.75 RPM/BHP	1.00 RPM/BHP	1.25 RPM/BHP	1.50 RPM/BHP	1.75 RPM/BHP	2.00 RPM/BHP
CAH-M222 / CAV-M222	22000	392 / 5.11	451 / 6.27	510 / 7.61	561 / 8.93	609 / 10.24	653 / 11.55	695 / 12.89	736 / 14.26	776 / 15.65
CAH-M222 / CAV-M222	24000	427 / 6.63	482 / 7.87	536 / 9.32	586 / 10.77	631 / 12.21	674 / 13.63	714 / 15.07	753 / 16.53	791 / 18.01
CAH-M222 / CAV-M222	26000	463 / 8.43	513 / 9.75	564 / 11.30	612 / 12.88	655 / 14.44	696 / 15.99	735 / 17.54	772 / 19.10	808 / 20.67
CAH-M222 / CAV-M222	28000	498 / 10.53	544 / 11.92	593 / 13.57	638 / 15.27	680 / 16.97	720 / 18.64	757 / 20.31	793 / 21.97	828 / 23.65
CAH-M222 / CAV-M222	30000	534 / 12.95	576 / 14.42	622 / 16.16	665 / 17.98	706 / 19.80	744 / 21.60	781 / 23.39	815 / 25.18	849 / 26.96
CAH-M222 / CAV-M222	32000	570 / 15.72	609 / 17.26	651 / 19.08	693 / 21.02	732 / 22.96	770 / 24.90	805 / 26.81	838 / 28.72	871 / 30.62
CAH-M222 / CAV-M222	34000	605 / 18.85	642 / 20.47	682 / 22.37	722 / 24.41	759 / 26.48	795 / 28.54	830 / 30.59	862 / 32.62	894 / 34.65
CAH-M222 / CAV-M222	36000	641 / 22.38	675 / 24.07	713 / 26.05	751 / 28.18	787 / 30.37	822 / 32.56	855 / 34.74	887 / 36.90	918 / 39.05
CAH-M222 / CAV-M222	38000	676 / 26.32	709 / 28.09	744 / 30.14	780 / 32.36	815 / 34.66	849 / 36.97	881 / 39.28		
CAH-M222 / CAV-M222	40000	712 / 30.70	743 / 32.54	776 / 34.67	810 / 36.98	844 / 39.38				
CAH-M222 / CAV-M222	42000	748 / 35.53	777 / 37.46	808 / 39.66						
CAH-M225 / CAV-M225	30000	393 / 8.32	449 / 10.13	503 / 12.25	551 / 14.35	594 / 16.41	634 / 18.48	673 / 20.58	710 / 22.72	746 / 24.92
CAH-M225 / CAV-M225	32000	419 / 10.09	472 / 11.99	523 / 14.25	569 / 16.49	612 / 18.70	651 / 20.90	688 / 23.11	724 / 25.36	759 / 27.66
CAH-M225 / CAV-M225	34000	445 / 12.11	494 / 14.09	544 / 16.47	589 / 18.87	630 / 21.23	668 / 23.56	704 / 25.90	739 / 28.26	773 / 30.66
CAH-M225 / CAV-M225	36000	472 / 14.37	518 / 16.43	565 / 18.93	609 / 21.48	649 / 23.99	686 / 26.47	721 / 28.94	755 / 31.43	787 / 33.93
CAH-M225 / CAV-M225	38000	498 / 16.90	541 / 19.04	586 / 21.65	629 / 24.35	668 / 27.02	704 / 29.65	738 / 32.26	771 / 34.86	803 / 37.48
CAH-M225 / CAV-M225	40000	524 / 19.71	565 / 21.93	608 / 24.64	649 / 27.48	687 / 30.30	723 / 33.09	756 / 35.84	788 / 38.59	819 / 41.34
CAH-M225 / CAV-M225	42000	550 / 22.82	589 / 25.11	630 / 27.92	670 / 30.90	707 / 33.87	742 / 36.81	775 / 39.71	806 / 42.60	836 / 45.48
CAH-M225 / CAV-M225	44000	576 / 26.23	613 / 28.61	653 / 31.50	691 / 34.61	727 / 37.73	761 / 40.83	793 / 43.89	824 / 46.92	854 / 49.94
CAH-M225 / CAV-M225	46000	602 / 29.97	638 / 32.43	675 / 35.41	712 / 38.63	748 / 41.90	781 / 45.15	813 / 48.36		
CAH-M225 / CAV-M225	48000	629 / 34.06	662 / 36.59	698 / 39.66	734 / 42.99	768 / 46.39	801 / 49.80			
CAH-M227 / CAV-M227	34000	276 / 6.81	330 / 8.88	372 / 10.89	413 / 12.99	453 / 15.15	491 / 17.33	526 / 19.52	559 / 21.72	589 / 23.96
CAH-M227 / CAV-M227	38000	308 / 9.51	359 / 11.86	397 / 14.06	434 / 16.37	471 / 18.75	507 / 21.16	541 / 23.59	573 / 26.03	603 / 28.49
CAH-M227 / CAV-M227	42000	341 / 12.83	389 / 15.47	424 / 17.90	458 / 20.39	491 / 22.97	524 / 25.61	557 / 28.28	588 / 30.97	617 / 33.66
CAH-M227 / CAV-M227	46000	373 / 16.85	419 / 19.80	452 / 22.45	483 / 25.14	513 / 27.91	544 / 30.76	574 / 33.66	604 / 36.58	633 / 39.52
CAH-M227 / CAV-M227	50000	405 / 21.64	449 / 24.91	480 / 27.78	509 / 30.68	538 / 33.64	566 / 36.69	594 / 39.79	622 / 42.94	649 / 46.11
CAH-M227 / CAV-M227	54000	438 / 27.26	480 / 30.85	509 / 33.97	537 / 37.07	563 / 40.24	589 / 43.47	615 / 46.78		
CAH-M227 / CAV-M227	58000	470 / 33.77	511 / 37.70	539 / 41.07	565 / 44.39	590 / 47.76				
CAH-M227 / CAV-M227	62000	503 / 41.24	542 / 45.52	569 / 49.15						
CAH-M230 / CAV-M230	40000	256 / 8.09	304 / 10.56	343 / 12.93	378 / 15.33	413 / 17.84	448 / 20.52	483 / 23.41	517 / 26.52	550 / 29.84
CAH-M230 / CAV-M230	43000	275 / 10.04	321 / 12.71	358 / 15.28	391 / 17.83	424 / 20.46	457 / 23.23	489 / 26.17	521 / 29.30	553 / 32.64
CAH-M230 / CAV-M230	46000	294 / 12.29	338 / 15.16	373 / 17.91	405 / 20.64	436 / 23.41	467 / 26.28	497 / 29.29	527 / 32.47	557 / 35.83
CAH-M230 / CAV-M230	49000	314 / 14.86	356 / 17.92	389 / 20.87	420 / 23.77	449 / 26.69	478 / 29.69	506 / 32.78	535 / 36.04	563 / 39.44
CAH-M230 / CAV-M230	52000	333 / 17.76	373 / 21.02	405 / 24.16	435 / 27.25	463 / 30.33	490 / 33.46	517 / 36.68	544 / 40.01	571 / 43.48
CAH-M230 / CAV-M230	55000	352 / 21.01	391 / 24.47	422 / 27.81	450 / 31.08	477 / 34.34	503 / 37.62	529 / 40.96	554 / 44.40	580 / 47.95
CAH-M230 / CAV-M230	58000	371 / 24.63	409 / 28.29	439 / 31.83	466 / 35.29	492 / 38.72	517 / 42.17	541 / 45.66	565 / 49.22	590 / 52.87
CAH-M230 / CAV-M230	61000	390 / 28.66	426 / 32.51	456 / 36.25	482 / 39.90	507 / 43.52	531 / 47.13	554 / 50.77	577 / 54.46	601 / 58.23
CAH-M230 / CAV-M230	64000	409 / 33.09	444 / 37.15	473 / 41.08	498 / 44.93	522 / 48.73	545 / 52.52	568 / 56.32		
CAH-M230 / CAV-M230	67000	428 / 37.95	462 / 42.22	490 / 46.35	515 / 50.40	538 / 54.39	560 / 58.36			
CAH-M230 / CAV-M230	70000	448 / 43.30	480 / 47.74	507 / 52.08	531 / 56.32					
CAH-M233 / CAV-M233	54000	293 / 17.75	326 / 20.97	362 / 25.14	388 / 28.23	405 / 29.96	416 / 31.13	426 / 32.01	435 / 32.71	442 / 33.29
CAH-M233 / CAV-M233	58000	315 / 21.98	346 / 25.45	378 / 29.68	408 / 33.75	426 / 36.10	439 / 37.66	450 / 38.82	459 / 39.73	466 / 40.48
CAH-M233 / CAV-M233	62000	336 / 26.85	366 / 30.59	394 / 34.76	426 / 39.67	447 / 42.84	461 / 44.89	472 / 46.39	482 / 47.57	490 / 48.53
CAH-M233 / CAV-M233	66000	358 / 32.38	386 / 36.42	412 / 40.55	443 / 45.97	466 / 50.11	482 / 52.80	495 / 54.74	505 / 56.24	514 / 57.46
CAH-M233 / CAV-M233	70000	380 / 38.62	407 / 42.99	430 / 47.12	459 / 52.69	485 / 57.87	503 / 61.37	516 / 63.84	527 / 65.74	536 / 67.27
CAH-M233 / CAV-M233	74000	401 / 45.62	428 / 50.34	449 / 54.52	475 / 60.04	502 / 66.06	522 / 70.53	537 / 73.68		
CAH-M233 / CAV-M233	78000	423 / 53.42	449 / 58.51	469 / 62.77	492 / 68.18	518 / 74.69				
CAH-M233 / CAV-M233	82000	445 / 62.06	470 / 67.53	489 / 71.92						
CAH-M236 / CAV-M236	60000	300 / 23.65	322 / 25.09	358 / 29.89	383 / 33.77	403 / 36.90	419 / 39.58	434 / 41.97		
CAH-M236 / CAV-M236	63000	302 / 24.09	335 / 28.52	370 / 33.64	396 / 37.95	416 / 41.45	432 / 44.43	447 / 47.08	461 / 49.50	
CAH-M236 / CAV-M236	66000	316 / 27.69	347 / 32.29	381 / 37.67	408 / 42.42	428 / 46.31	445 / 49.62	460 / 52.55	474 / 55.21	
CAH-M236 / CAV-M236	69000	331 / 31.64	360 / 36.39	393 / 42.02	420 / 47.19	441 / 51.49	458 / 55.15	474 / 58.38	487 / 61.30	500 / 64.01
CAH-M236 / CAV-M236	72000	345 / 35.95	373 / 40.86	405 / 46.69	432 / 52.28	454 / 57.00	471 / 61.04	487 / 64.59	501 / 67.79	513 / 70.74
CAH-M236 / CAV-M236	75000	359 / 40.63	386 / 45.71	417 / 51.72	444 / 57.69	466 / 62.85	484 / 67.28	500 / 71.17	514 / 74.68	526 / 77.90
CAH-M236 / CAV-M236	78000	374 / 45.70	399 / 50.95	429 / 57.12	456 / 63.44	478 / 69.04	497 / 73.88	513 / 78.14	527 / 81.97	540 / 85.47
CAH-M236 / CAV-M236	81000	388 / 51.18	412 / 56.60	440 / 62.91	468 / 69.56	490 / 75.59	509 / 80.85	525 / 85.49	540 / 89.66	553 / 93.47
CAH-M236 / CAV-M236	84000	402 / 57.07	426 / 62.68	453 / 69.12	479 / 76.05	502 / 82.51	522 / 88.20	538 / 93.24	553 / 97.77	
CAH-M236 / CAV-M236	87000	417 / 63.41	439 / 69.19	465 / 75.77	491 / 82.95	514 / 89.81	534 / 95.94			
CAH-M236 / CAV-M236	90000	431 / 70.19	453 / 76.15	477 / 82.86	503 / 90.25	526 / 97.50				

BD-2

Low Proximity Exhaust Hood

The BD-2 Series is a Type I, Low Proximity Hood for use over 450°F, 600°F and 700°F cooking surface temperatures.

Features & Benefits

- Superior exhaust flow rates
- Unique front design directs grease laden vapors toward the exhaust filter bank. Double-wall, insulated front increases rigidity and reduces condensation on models 30 inch width and larger.
- U.L. incandescent light fixtures and globes shall be installed and pre-wired to a junction box. The light fixtures shall be installed with a maximum of 4'0" spacing on center and allow up to a 100 watt standard light bulb.
- Fabricated of stainless steel with fully welded and polished front corners. Built in air space to meet NFPA 96 clearance requirements against limited combustible wall with optional insulation for combustible wall.
- A built-in wiring chase provided for optimal positioning of electrical controls and outlets on front face of hood without penetrating capture area or requiring sleeve; available on 30" wider and larger models.
- All hoods come standard with stainless steel baffle filters and a deep grease trough which allows for easy cleaning. Grease drain system with removable 1/2 pint cup for easy cleaning. Standard filter stops eliminate gaps between filters.

Options

- Utility Cabinet
- Back Supply Plenum
- Enclosure Panels
- Roof Top Package
- Separate Fans
- Lighting
  - Recessed Incandescent
  - Recessed Fluorescent
  - Compact Fluorescent
  - Recessed LED
  - Halogen
- Type 304 stainless steel
- Captrate Combo and Solo filters
- Fully Integrated Self Cleaning System
- CORE Fire Suppression
- UL Listed light and fan control switches pre-wired and flush mounted

Description

BD-2 Series hood application: Low proximity, low CFM requirements. This Type I Hood is designed for all types of cooking equipment with surface temperatures ranging from 450°F to 700°F. Product requires minimal kitchen space.

Construction

Construction shall be type 430 stainless steel with a #3 or #4 polish, where exposed. The manufacturer and ETL shall determine individual component construction. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints and penetrations of the hood enclosure to the lower outermost perimeter, which directs and captures grease-laden vapor and exhaust gases, shall have a liquid-tight continuous external weld in accordance with NFPA 96. Hood shall be wall type with a minimum of four connections for hanger rods. Corner hanging angles have a 5/8" x 1-1/2" slot pre-punched at the factory, allowing hanging rods to be used for quick and safe installation.

Performance Data

Average Cooking Surface Temp (°F) - Cooking Surface	Exhaust CFM/Ft.	Supply CFM/ft - via Optional Perforated Supply Plenum
400° F - Ovens, Steamers, Kettles, Open-Burner Ranges, Griddles, Fryers	150	140
600° F - Gas Charbroilers, Electric Charbroilers	200	160
700° F - Mesquite Grills, Charcoal Charbroilers, Wood Burning Appliances	250	160

The hood shall be constructed to include:

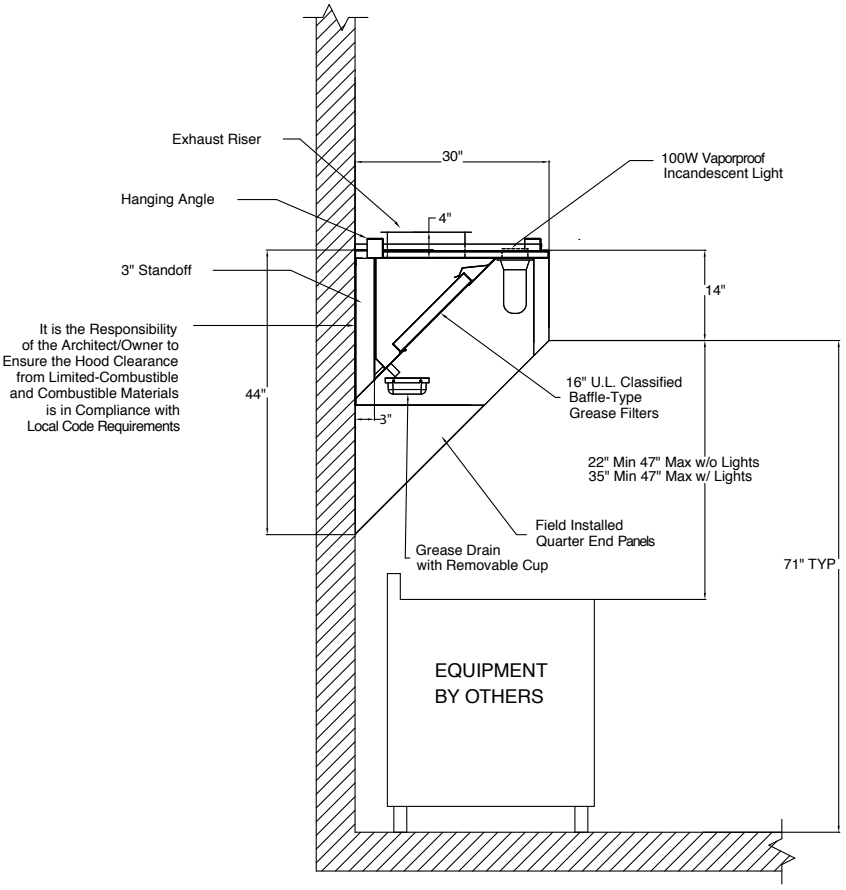
- A double wall insulated front to eliminate condensation and increase rigidity on 30”-36” wide sizes. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- An integral baffle to direct grease laden vapors toward the exhaust filter bank.
- Removable grease cup for easy cleaning.

Certifications

The BD-2 Model has 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. and Canadian 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 BD-2 are ETL Listed under file number 3054804-001 and complies with UL710, ULC710 and ULC-S646 Standards.

Sectional View BD-2



ND-2

Exhaust Only Hood

The ND-2 Series is a Type I, Wall Canopy Hood for use over 450°F, 600°F and 700°F cooking surface temperatures. The aerodynamic design includes a mechanical baffle and performance enhancing lip for exceptional capture and containment.

Features & Benefits

- Superior exhaust flow rates. Available in single or back-to-back configurations.
- Insulated, double-wall rigid front has aerodynamic design that reduces radiant heat into kitchen, prevents condensation and provides exceptional capture and containment of cooking vapors. This is accomplished with the signature ND-2 “mechanical baffle” on the front of the hood’s capture area and the “C-shaped” design of the hood’s capture area.
- Mechanical baffle provides a built-in wiring chase for optimal positioning of electrical controls and outlets on the front face of the hood without penetrating capture area or requiring external chase way.
- U.L. incandescent light fixtures and globes shall be installed and pre-wired to a junction box. The light fixtures shall be installed with a maximum of 4’0” spacing on center and allow up to a 100 watt standard light bulb.
- Pre-punched hanging angles on each end of hood and additional set provided for hoods 12’ and longer
- Polished stainless steel on the interior and exterior of the front enhance aesthetics. Fully welded and polished front corners. Fabricated from stainless steel.
- Rigid single wall end panels reduce weight.
- All hoods come standard with stainless steel baffle filters and a deep grease trough which allows for easy cleaning. Grease drain system with removable 1/2 pint cup for easy cleaning. Standard filter stops eliminate gaps between filters.
- Standard built in 3” rear standoff to meet NFPA 96 requirements, when installed in a wall application.
- Hoods can be equipped with modular utility cabinets and end standoffs. Optional listed light and fan control switches flush mounted and pre-wired through electrical chase way.

Options

- Utility Cabinet
- Front Perforated Supply Plenum
- Electrical Controls
- Fully Integrated Self Cleaning System
- CORE Fire Suppression
- ETL Listed Exhaust Fire Damper
- Enclosure Panels to Ceiling
- End Panels
- Type 304 Stainless Steel Construction
  - Exposed Surfaces Only
  - 100% Construction
- High Velocity Cartridge Filters
  - Stainless Steel Baffle Type
  - Captrate Combo & Solo Filters
- Lighting
  - Recessed Incandescent
  - Recessed Fluorescent
  - Compact Fluorescent
  - Recessed LED
  - Halogen
- Roof Top Package
- Separate Exhaust and/or Make-Up Air Fans
- Heated Make-Up Air Units
  - Direct Gas Fired Heated Make-Up Air Fans
  - Indirect Gas Fired Heated Make-Up Air Units
  - Electric Heated Make-Up Air Units

Performance Data

Max Avg Cooking Surface Temp (°F) - Cooking Surface	Configuration	Min. Exhaust CFM/Ft.	Recommended Duct Sizing
400° F - Ovens, Steamers, Kettles, Open-Burner Ranges, Griddles, Fryers	Single Wall Hood	150	Exhaust - Based on 1500 FPM
	2 Wall Hoods Back-to-Back in an Island Configuration	300	
600° F - Gas Charbroilers, Electric Charbroilers	Single Wall Hood	200	
	2 Wall Hoods Back to Back in an Island Configuration	400	
600° F - Mesquite Grills, Charcoal Charbroilers, Gas Conveyor Charbroilers	Single Wall Hood	250	
	2 Wall Hoods Back to Back in an Island Configuration	500	

Specifications

Description The model ND-2 is a Type I wall mounted or double island, exhaust canopy used for collection and removal of grease-laden vapors and smoke over all types of restaurant equipment.

Construction The hood shall be constructed of type 430 stainless steel with #3 or #4 polish where exposed. All seams shall be welded or in conformance with UL 710 standards. Unexposed surfaces shall be constructed of aluminized steel. Individual component construction shall be determined by manufacturer and ETL. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints and penetrations of the hood where grease-laden vapors and exhaust gases are present must be liquid-tight, continuous external weld in accordance with NFPA 96.

The hood shall be constructed to include:

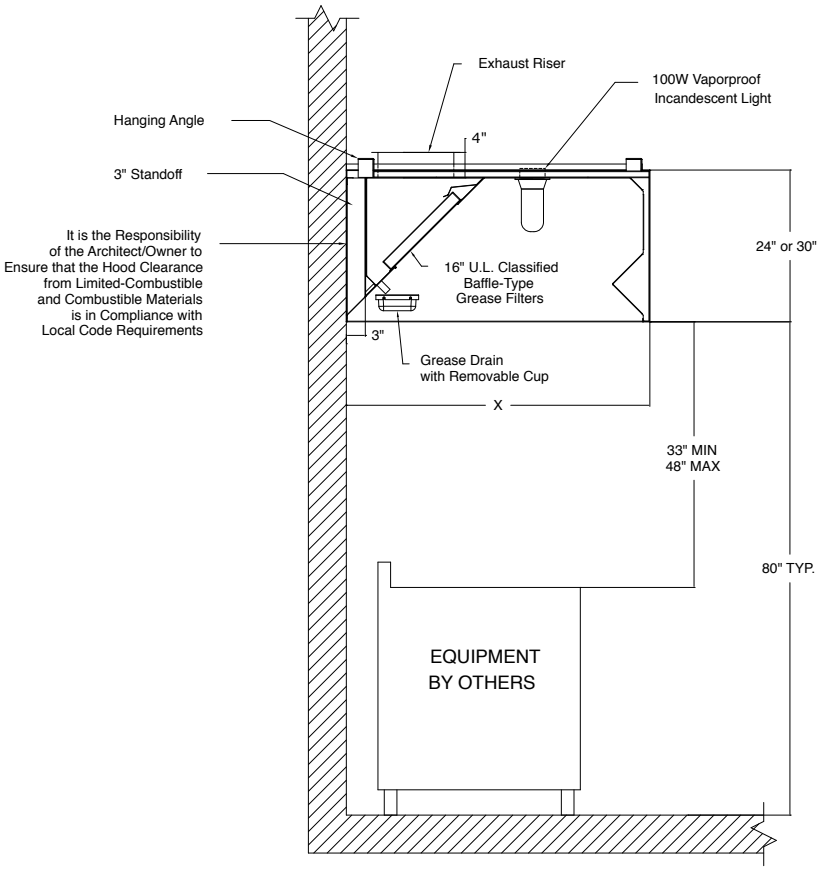
- A double wall insulated front to eliminate condensation and increase rigidity. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- An integral front baffle to direct grease-laden vapors toward the exhaust filter bank.
- An integral grease drain system to include an exposed, removable 1/2 pint grease cup to facilitate cleaning.
- A built-in wiring chase for electrical controls on the front face of the hood designed to avoid penetration of the capture area and eliminate the need for an external chaseway.
- UL incandescent light fixtures and globes, allowing up to a 100 watt standard light bulb, installed and pre-wired to a junction box and installed with a maximum of 3'-6" spacing on center.
- Exhaust duct collar 4" high with 1" flange.
- A minimum of four connections for hanger rods. Corner hanging angles have a 5/8" x 1-1/2" slot pre-punched at the factory, allowing hanging rods to be used for quick and safe installation.
- UL Classified aluminum baffle filters, with size and quantity determined by the hood's dimensional parameters, but extending the full length of the hood with filler panels not to exceed 6".

Certifications

The ND-2 Model has 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. and Canadian 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 ND-2 are ETL Listed under file number 3054804-001 and complies with UL710, ULC710 and ULC-S646 Standards.

Sectional View ND-2



ND-2 w/ AC-PSP & PSP Accessory

Exhaust Hood with Make-Up Air

CaptiveAire's ETL Listed ND-2 Exhaust Hood efficiently meets the challenges of most cooking applications. The perforated supply plenum accessory (PSP or AC-PSP) provides up to 80% make-up air.

Features & Benefits

- See Features & Benefits of ND-2 (page 96)
- Front Make-Up Air (PSP Accessory) Featuring
  - Provides up to 80% Make-up Air
  - Low Discharge Velocities
  - Directs Make-up Air Into Hood's Capture Area
  - Evenly distributes make-up air along the length of the hood
  - Stainless steel construction to match the ventilation hood
- Front Make-Up Air (AC-PSP Accessory) Featuring
  - Provides up to 80% Make-up Air
  - Delivers AC where it is needed most
  - AC air does not interfere with hood's capture and containment
  - Make-up plenum is located nearest the hood; the air conditioned plenum is away from the hood
  - Make-up air stream and the air conditioned air stream are not permitted to mix until leaving the dual plenum
  - Perforated, stainless steel diffuser plates provide even air distribution
  - Stainless steel construction to match the ventilation hood
  - Optional LED Lights

Specifications

Description The model ND-2 with the perforated supply plenum accessory (PSP or AC-PSP) is a Type I, wall mounted, or double island exhaust canopy used for collection and removal of grease and smoke over all types of restaurant equipment. The hood shall be capable of providing up to 80% make-up air through a front perforated stainless steel plenum. The hood shall provide flexibility in designing kitchen ventilation equipment and shall be tested and listed for use over 450ºF light/medium duty cooking surfaces; 600ºF heavy duty cooking surfaces; and 700ºF extra heavy duty cooking surfaces.

Construction The hood shall be constructed of type 430 stainless steel with #3 or #4 polish where exposed. All seams shall be welded or in conformance with UL 710 standards. Unexposed surfaces shall be constructed of aluminized steel. Individual component construction shall be determined by manufacturer and ETL. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints and penetrations of the hood where grease-laden vapors and exhaust gases are present must be liquid-tight, continuous welds in accordance with NFPA 96.

- Available in single wall type or two piece back-to-back island configuration
- Double-wall, insulated front increases rigidity and reduces condensation
- Fitted with UL Classified, aluminum filters, removable for cleaning. Optional stainless steel and ETL Listed high velocity cartridge filters available
- Deep grease drain system, forward angled, with removable cup for easy cleaning
- Easy access hanging angles with structural channels
- Optional integral clearance to combustibles reduction system to meet NFPA 96 requirements
- Standard built-in 3" rear stand-off
- Fitted wih UL Listed, pre-wired, incandescent light fixtures to hold up to a standard 100 watt bulb. Recessed incandescent and recessed fluorescent lights optional
- A built-in wiring chase provided for optimal positioning of electrical controls and outlets on the front face of the hood without penetrating capture area or requiring external chaseway Optional ETL Listed exhaust fire damper
- Corner hanging angles have a 5/8" x 1-1/2" slot pre-punched at the factory, allowing hanging rods to be used for quick and safe installation.

Performance Data

Max Avg Cooking Surface Temp (ºF) - Cooking Surface	Configuration	Min. Exhaust CFM/Ft.	Max Suggested CFM/Ft. via Front Supply Plenum
450º F - Ovens, Steamers, Kettles, Open-Burner Ranges, Griddles, Fryers	Wall Hood	150	135
	2 Piece Island Back-to-Back Wall Hoods	300	270
600º F - Gas Charbroilers, Electric Charbroilers	Wall Hood	200	180
	2 Piece Island Back-to-Back Wall Hoods	400	360
700º F - Mesquite Grills, Charcoal Charbroilers	Wall Hood	250	200
	2 Piece Island Back-to-Back Wall Hoods	500	400

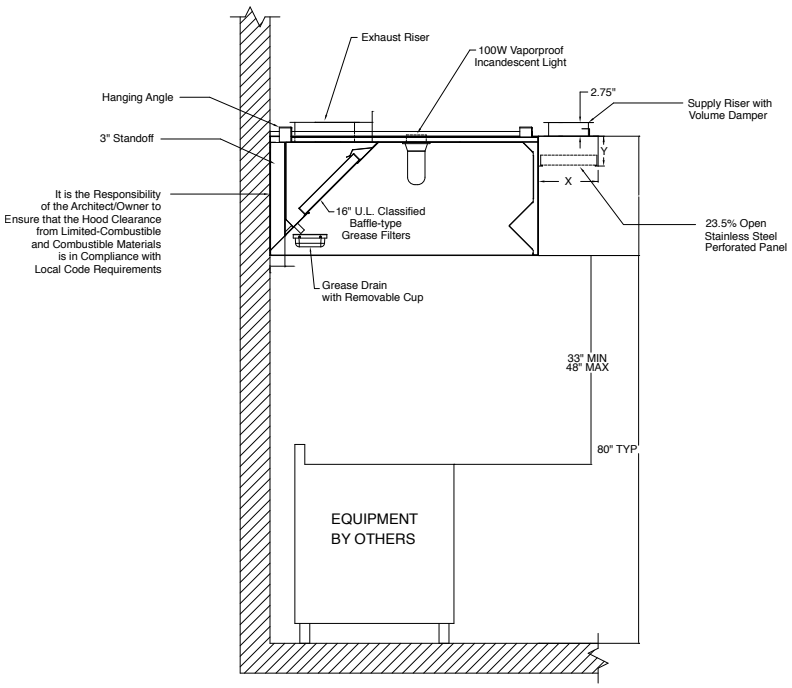
*Recommended Duct Sizing: Exhaust based on 1500 FPM; Supply based on 800 FPM

Certifications

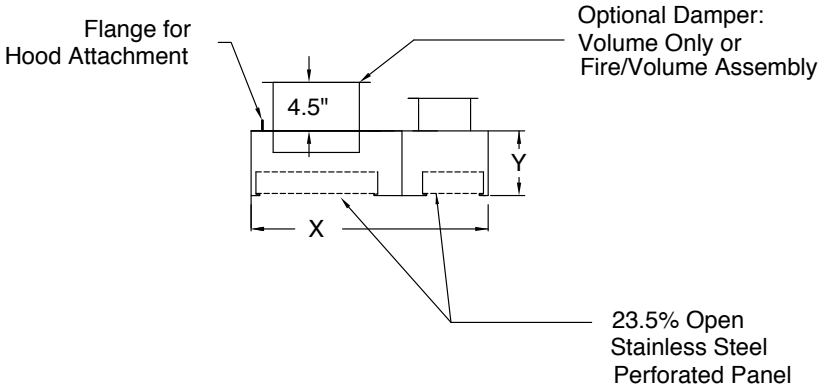
The ND-2 Model has been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. and Canadian products safety standard, that the manufacturing site has been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance.

Models ND-2 are ETL Listed under file number 3054804-001 and complies with UL710, ULC710 and ULC-S646 Standards.

Sectional View ND-2 with PSP



Sectional View AC-PSP



SND-2 With AC-PSP & PSP Accessory

Low Ceiling Exhaust Hood With Make-Up Air

The SND-2 Series is a Type I, Sloped Wall Canopy Hood for use over 400°F and 600°F cooking surface temperatures. The Sloped Canopy is the ideal hood choice for low ceiling heights.

Features & Benefits

- Superior exhaust flow rates.
- Insulated, double-wall rigid front has aerodynamic design that reduces radiant heat into kitchen, prevents condensation and provides exceptional capture and containment of cooking vapors. The signature “mechanical baffle” on the front of the hood’s capture area is available on 18” Front Model only.
- The mechanical baffle provides a built-in wiring chase for optimal positioning of electrical controls and outlets on the front face of the hood without penetrating capture area or requiring external chase way.
- U.L. incandescent light fixtures and globes shall be installed and pre-wired to a junction box. The light fixtures shall be installed with a maximum of 4’0” spacing on center and allow up to a 100 watt standard light bulb.
- Pre-punched hanging angles on each end of hood and additional set provided for hoods 12’ and longer.
- Polished stainless steel on the interior and exterior of the front enhance aesthetics. Fully welded and polished front corners. Fabricated from stainless steel. Sloped front for low ceiling applications.
- All hoods come standard with stainless steel baffle filters and a deep grease trough which allows for easy cleaning. Grease drain system with removable 1/2 pint cup for easy cleaning. Standard filter stops eliminate gaps between filters.
- Hoods can be equipped with modular utility cabinets and end standoffs. Optional listed light and fan control switches flush mounted and pre-wired through electrical chase way.
- Rigid single wall end panels reduce weight.
- Front Make-Up Air (PSP Accessory) Featuring
  - Provides up to 80% Make-up Air
  - Low Discharge Velocities
  - Directs Make-up Air Into Hood’s Capture Area
  - Evenly distributes make-up air along the length of the hood
  - Stainless steel construction to match the ventilation hood
- Front Make-Up Air (AC-PSP Accessory) Featuring
  - Provides up to 80% Make-up Air
  - Delivers AC where it is needed most
  - AC air does not interfere with hood’s capture and containment
  - Make-up plenum is located nearest the hood; the air conditioned plenum is away from the hood
  - Make-up air stream and the air conditioned air stream are not permitted to mix until leaving the dual plenum
  - Perforated, stainless steel diffuser plates provide even air distribution
  - Stainless steel construction to match the ventilation hood
  - Optional LED Lights

Options

- Utility Cabinet
- Electrical Controls
- Front Perforated Supply Plenum
- Fully Integrated Self Cleaning System
- CORE Fire Suppression
- Integral Clearance to Combustibles System
- ETL Listed Exhaust Fire Damper
- Enclosure Panels to Ceiling
- Type 304 Stainless Steel Construction
  - Exposed Surfaces Only
  - 100% Construction
- High Velocity Cartridge Filters
  - Stainless Steel Baffle Type
  - Captrate Combo & Solo Filters
  - High Efficiency Stainless Steel Baffle
- Lighting
  - Recessed Incandescent
  - Recessed Fluorescent
  - Compact Fluorescent
  - Recessed LED
  - Halogen
- Roof Top Package

Performance Data

Max Avg Cooking Surface Temp (°F) - Cooking Surface	Configuration	Min. Exhaust CFM/Ft.	Recommended Duct Sizing
400° F - Ovens, Steamers, Kettles, Open-Burner Ranges, Griddles, Fryers	Single Wall Hood	228	Exhaust - Based on 1500 FPM
	2 Wall Hoods Back-to-Back in an Island Configuration	456	
600° F - Gas Charbroilers, Electric Charbroilers	Single Wall Hood	294	
	2 Wall Hoods Back-to-Back in an Island Configuration	588	

- Separate Exhaust and/or Make-Up Air Fans
- Heated Make-Up Air Units
  - Direct Gas Fired Heated Make-Up Air Fans
  - Indirect Gas Fired Heated Make-Up Air Units
  - Electric Heated Make-Up Air Units
- Face Mounted Controls

Specifications

Description The model SND-2 is a Type I wall mounted or double island, exhaust canopy used for collection and removal of grease-laden vapors and smoke over all types of restaurant equipment. The hood shall provide flexibility in designing kitchen ventilation equipment and shall be tested and listed for use over 400ºF light/medium duty cooking surfaces and 600ºF heavy duty cooking surfaces.

Construction The hood shall be constructed of type 430 stainless steel with #3 or #4 polish where exposed. All seams shall be welded or in conformance with UL 710 Standards. Unexposed surfaces shall be constructed of aluminized steel. Individual component construction shall be determined by manufacturer and ETL. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints and penetrations of the hood where grease-laden vapors and exhaust gases are present must be liquid-tight, continuous weld in accordance with NFPA 96.

The hood shall be constructed to include:

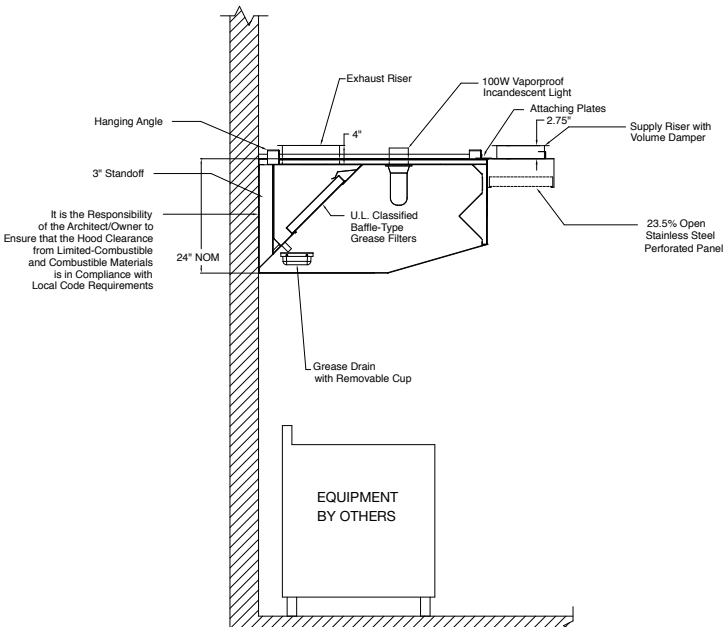
- A double wall insulated front to eliminate condensation and increase rigidity.
- An integral front baffle to direct grease-laden vapors toward the exhaust filter bank.
- Removable grease cup to facilitate cleaning
- A built-in wiring chase for electrical controls on the front face of the hood designed to avoid penetration of the capture area and eliminate the need for an external chaseway.
- ETL incandescent light fixtures and globes, allowing up to a 100 watt standard light bulb, installed and pre-wired to a junction box and installed with a maximum of 3'-6" spacing on center.
- Exhaust duct collar 4" high with 1" flange.
- A minimum of 4 connections for hanger rods. Corner hanging angles have a 5/8" x 1-1/2" slot pre-punched at the factory, allowing hanging rods to be used for quick and safe installation.
- UL Classified stainless steel baffle filters, with size and quantity determined by the hood's dimensional parameters, but extending the full length of the hood with filler panels not to exceed 6".

Certifications

The SND-2 Model has 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. and Canadian 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 SND-2 are ETL Listed under file number 3054804-001 and complies with UL710, ULC710 and ULC-S646 Standards.

Sectional View SND-2 With PSP



ND-2WI

Single Island Hood

The ND-2WI Series is a Type I, Single Island Wall Canopy Hood for use over 450°F, 600°F and 700°F cooking surface temperatures. Single island hoods are used over cooking equipment where no walls exist or for display cooking.

Features & Benefits

- Insulated, double-wall rigid front has aerodynamic design that reduces radiant heat into kitchen, prevents condensation and provides exceptional capture and containment of cooking vapors.
- Rear capture flange to help aid in the capture and containment of heat and effluent generated by cooking process.
- Construction shall be stainless steel with fully welded and polished corners. All four sides of the hood will be finished sides.
- U.L. incandescent light fixtures and globes shall be installed and pre-wired to a junction box. The light fixtures shall be installed with a maximum of 4'0" spacing on center and allow up to a 100 watt standard light bulb.
- Pre-punched hanging angles on each end of hood and additional set provided for hoods 12' and longer.
- All hoods come standard with stainless steel baffle filters and a deep grease trough which allows for easy cleaning. Grease drain system with removable 1/2 pint cup for easy cleaning. Standard filter stops eliminate gaps between filters.

Options

- Utility Cabinet
- Perforated Supply Plenum
- Enclosure Panels
- End Panels
- Electrical Controls
- Roof Top Package
- Separate Exhaust and/or Make-up Air Fans
- CORE Fire Suppression
- Self Cleaning Technology
- Lighting
  - Recessed Incandescent
  - Recessed Fluorescent
  - Compact Fluorescent
  - Recessed LED
  - Halogen
- Heated Make-Up Air Units

Specifications

Construction The hood shall be constructed of type 430 stainless steel with a #3 or #4 polish where exposed. Individual component construction shall be determined by the manufacturer and ETL. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints and penetrations of the hood enclosure to the lower outermost perimeter that directs and captures grease-laden vapor and exhaust gases shall have a liquid-tight continuous external weld in accordance with NFPA 96. Hood shall be island type with fully welded 10 gauge corner hanging angles. Corner hanging angles have a 5/8" x 1 1/2" slot pre-punched at the factory, allowing hanging rods to be used for quick and safe installation. Hanging rod and connection is provided by and installed by others.

The hood shall be constructed to include:

- A double wall insulated front and back to eliminate condensation and increase rigidity.
- An integral front baffle and rear capture flange to direct grease laden vapors toward the exhaust filter bank.
- Removable grease cup to facilitate cleaning
- A built-in wiring chase provided for outlets and electrical controls on the hood face and shall not penetrate the capture area or require an external chaseway.
- U.L. incandescent light fixtures and globes shall be installed and pre-wired to a junction box. The light fixtures shall be installed with a maximum of 4'0" spacing on center and allow up to a 100 watt standard light bulb.

Performance Data

Max Avg Cooking Surface Temp (°F) - Cooking Surface	Configuration	Min. Exhaust CFM/Ft.	Recommended Duct Sizing
450°F - Ovens, Steamers, Kettles, Open-Burner Ranges, Griddles, Fryers	Single Island Hood	269	Exhaust - Based on 1500 FPM
600°F - Gas Charbroilers, Electric Charbroilers, Woks	Single Island Hood	300	
700° F - Mesquite Grills, Charcoal Charbroilers, Wood Burning Appliances	Single Island Hood	350	

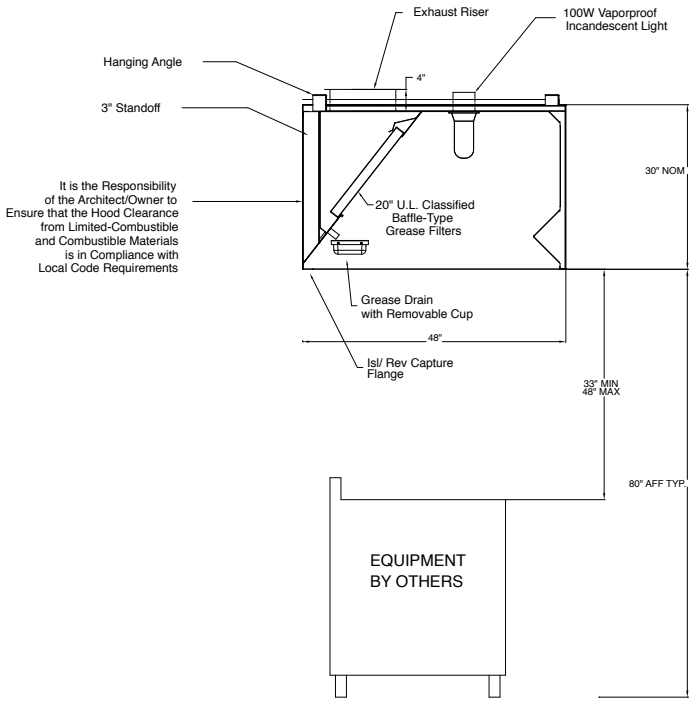
- Exhaust duct collar to be 4” high with flange. Duct sizes, CFM and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.
- UL Classified stainless steel baffle filters, with size and quantity determined by the hood’s dimensional parameters, but extending the full length of the hood with filler panels not to exceed 6”.

Certification

The ND-2WI Model has 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. and Canadian 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 ND-2WI are ETL Listed under file number 3054804-001 and complies with UL710, ULC710 and ULC-S646 Standards.

Sectional View ND-2WI



NDI

Exhaust Only Island Hood

The NDI Series is a Type I, Single Island V-Bank Hood for use over 400°F, 600°F and 700°F cooking surface temperatures. Single island hoods are used over cooking equipment where no walls exist or for display cooking.

Features & Benefits

- Insulated, double-wall rigid front and back have aerodynamic design that reduces radiant heat into kitchen, prevents condensation and provides exceptional capture and containment of cooking vapors. This is accomplished with the signature “mechanical baffle” on the front and back of the hood’s capture area.
- Mechanical baffle provides a built-in wiring chase for optimal positioning of electrical controls and outlets on the front face of the hood without penetrating capture area or requiring external chase way.
- U.L. incandescent light fixtures and globes shall be installed and pre-wired to a junction box. The light fixtures shall be installed with a maximum of 4’0” spacing on center and allow up to a 100 watt standard light bulb.
- Pre-punched hanging angles on each end of hood and additional set provided for hoods longer than 12’.
- Polished stainless steel on the interior and exterior of the hood enhance aesthetics. Fully welded and polished corners. Fabricated from stainless steel.
- All hoods come standard with stainless steel baffle filters and a deep grease trough which allows for easy cleaning. Grease drain system with removable 1/2 pint cup for easy cleaning. Standard filter stops eliminate gaps between filters.
- Hoods can be equipped with modular utility cabinets and end standoffs. Optional listed light and fan control switches flush mounted and pre-wired through electrical chase way.

Options

- Utility Cabinet
- Perforated Supply Plenum
- Fire Suppression System
- Electrical Controls
- Integral Clearance to Combustibles System
- ETL Listed Exhaust Fire Damper
- Enclosure Panels to Ceiling
- End Panels
- Type 304 Stainless Steel Construction
  - Exposed Surfaces Only
  - 100% Construction
- High Velocity Cartridge Filters
  - Stainless Steel Baffle Type
  - Captrate Combo & Solo Filters
  - High Efficiency Stainless Steel Baffle
- Lighting
  - Compact Fluorescent or Halogen (45” width and above)
  - Recessed Incandescent, Recessed Fluorescent or Recessed LED (72” width and above)
- Roof Top Package
- Separate Exhaust and/or Make-Up Air Fans
- Heated Make-Up Air Units
  - Direct Gas Fired Heated Make-Up Air Fans
  - Indirect Gas Fired Heated Make-Up Air Units
  - Electric Heated Make-Up Air Units
- Face Mounted Controls

Specifications

Description The model NDI is a Type I, single-island, exhaust canopy used for collection and removal of grease-laden vapors and smoke over cooking equipment where no walls exist or for display cooking.

Performance Data

Max Avg Cooking Surface Temp (°F) - Cooking Surface	Min. Exhaust CFM/Ft.	Recommended Duct Sizing
400° F - Ovens, Steamers, Kettles, Open-Burner Ranges, Griddles, Fryers	346	Exhaust - Based on 1500 FPM
600° F - Gas Charbroilers, Electric Charbroilers	422	
700° F - Mesquite Grills, Charcoal Charbroilers	475	

Construction The hood shall be constructed of type 430 stainless steel with a #3 or #4 polish where exposed. Individual component construction shall be determined by manufacturer and ETL. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints and penetrations of the hood enclosure to its lower outermost perimeter that directs and captures grease-laden vapor and exhaust gases shall have a liquid-tight continuous external weld in accordance with NFPA 96. Hood shall be wall type with a minimum of four connections for hanger rods. Connectors shall have 9/16" holes pre-punched in 1 ½" x 1 ½" angle iron at the factory to allow for hanger rod connection by others.

The hood shall be constructed to include:

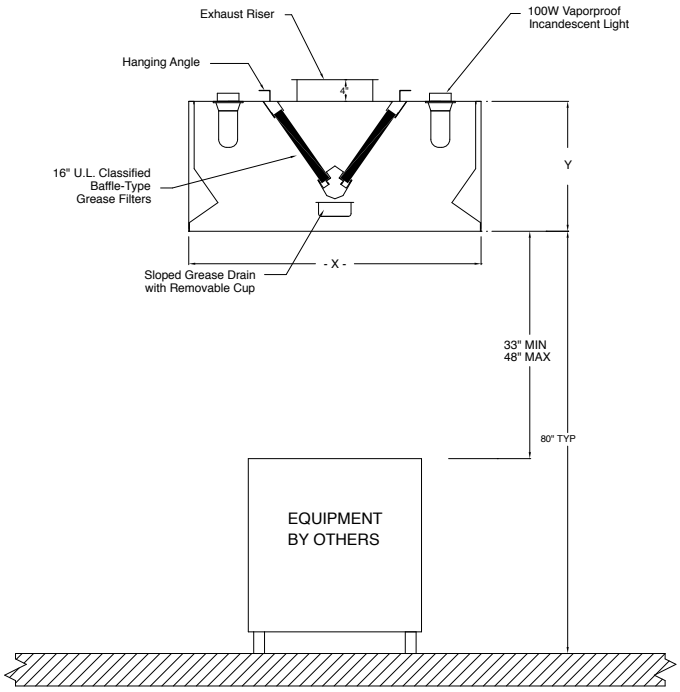
- A double wall insulated front to eliminate condensation and increase rigidity. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- An integral baffle to direct grease laden vapors toward the exhaust filter bank.
- Removable grease cup to facilitate cleaning.
- UL incandescent light fixtures and globes shall be installed and pre-wired to a junction box. The light fixtures shall be installed with a maximum of 4'0" spacing on center and allow up to a 100 watt standard light bulb.
- Exhaust duct collar to be 4" high with 1" flange. Duct sizes, CFM and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.
- A minimum of four connections for hanger rods. Connectors shall have 9/16" holes pre-punched in 1 ½" x 1 ½" angle iron at the factory to allow for hanger rod connection by others.
- Ventilator shall be furnished with UL classified stainless steel baffle filters, supplied in size and quantity as required by ventilator. The filters shall extend the full length of the hood and the filler panels shall not be more than 6" in width.

Certifications

The NDI Model has 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. and Canadian 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 NDI are ETL Listed under file number 3054804-001 and complies with UL710, ULC710 and ULC-S646 Standards.

Sectional View NDI



Fully Integrated Self-Cleaning Hood System

The Self Cleaning system cleans grease from the plenum and portion of the duct with the daily hot water spray cycle. Surfactant is used as part of the spray cycle to increase the cleaning effectiveness.

The system is available with hot water wash integrated into CaptiveAire's premier canopy style ND-2, SND-2 and BD-2 hood lines. The hot water wash system automatically cleans the hood plenum after the day's cooking is completed. Washing the hood plenum with surfactant (surface-active agent that reduces the surface tension between the grease and water allowing the water to dissolve the grease) while the hood is hot considerably increases cleaning effectiveness. The added riser sprayer also drastically reduces the need for grease duct and hood cleaning. Timing for both the surfactant and wash length is programmable to meet your specific needs.

Features & Benefits

- ETL Listed and NSF Sanitation Listed Product
- Fully Automatic Operation
- Hood Fabricated from 100% Stainless Steel
- Drip-Less Nozzles with Internal Strainers
- Easily Serviceable
- Adjustable Surfactant Injection Timing and Volume (Factory Set for 1 Second Injection with 1 Minute Delay)
- Adjustable Wash Length (Factory Set For Three Minutes)
- Standard Riser Spray Nozzle for Duct Cleaning
- Water Wash Usage is 0.7 GPM Per Foot of Hood
- Available EMS Control Package to Reduce Fan Loads During Idle Periods
- Installed in Utility Cabinet for Easy Start-Up
- 100% Stainless Steel Filters
- Reduced Fire Hazard Risk in Hood and Duct

Available Options

Hot Water

- The Hot Water option automatically cleans the hood plenum after the cooking operations are completed for the day or via schedule. By washing the plenum while the hood is hot, the effectiveness of the cleaning increases. Surfactant will be injected into the wash for one second, every one minute of the cycle. The wash time is adjusted to meet the needs of every application.

Cold Water Mist

- The Cold Water Mist option automatically cools exhaust gases and aids in the removal of grease vapor. While the hood is in operation, a fine water mist is sprayed into the plenum.

Cold Water Mist with Hot Water Wash

- The Cold Water Mist With Hot Water Wash option combines both systems above. Cold Water mist immediately cools down the gases in the plenum during operation and then Hot Water cycle cleans the plenum while the hood is still hot at the end of the day.

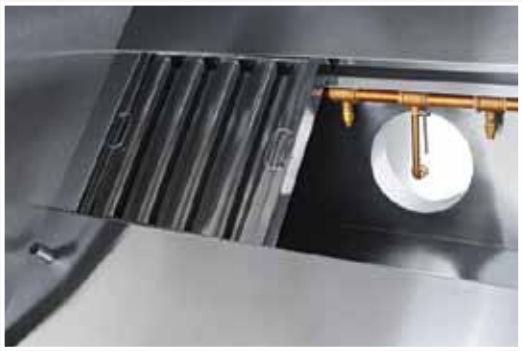
Specifications

Description Furnish Type 1 exhaust hood with factory installed spray bar and manifold assembly. Assemblies shall be ETL listed to conform to UL710, ULC710, and UL508A.

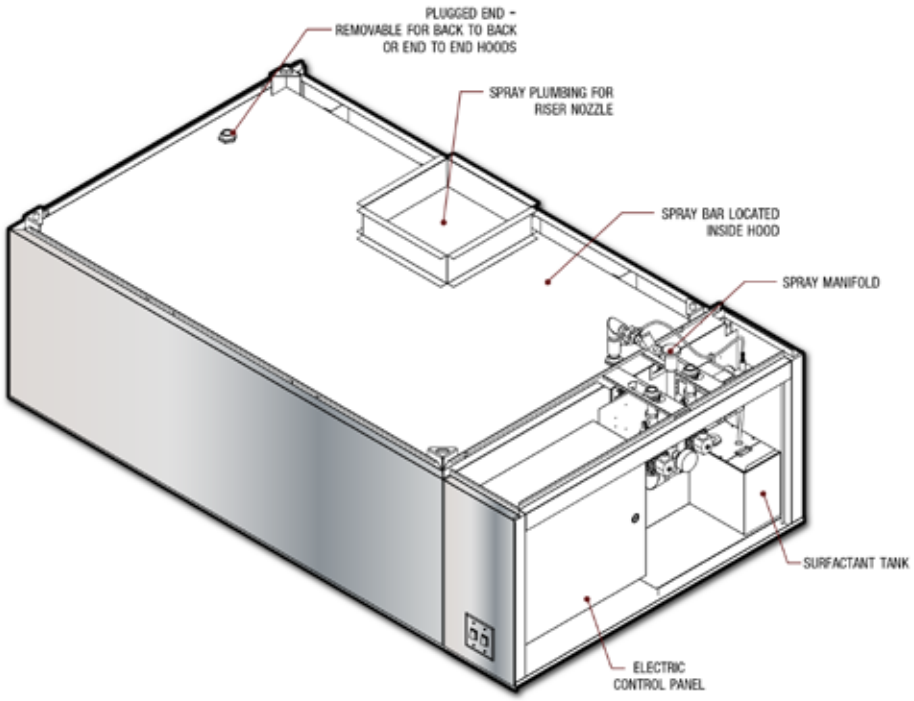
Construction

Hood shall be constructed of 100% Stainless steel, either 304 or 430. All welds in plenum shall be dye penetrant tested for leaks. All plumbing shall be standard brass pipe fittings except for penetrations, which shall be stainless steel. All nozzles shall be wide angle full cone with internal strainer and pressure sensitive check valve. Water inlet shall be 3/4" NPT pipe fitting. Drain shall consist of one 1 1/2" NPT pipe, unless exhaust hood is over 12' long or 30" tall which drains two shall be installed. A ball valve shall be installed with the manifold for servicing the Self Cleaning system.
All detergent injection shall be done after a vacuum breaker backflow prevention valve. Timers shall be factory set for the following parameters, wash length set for 3 minutes, detergent injection set for 1 second injection before a delay of 1 minute.

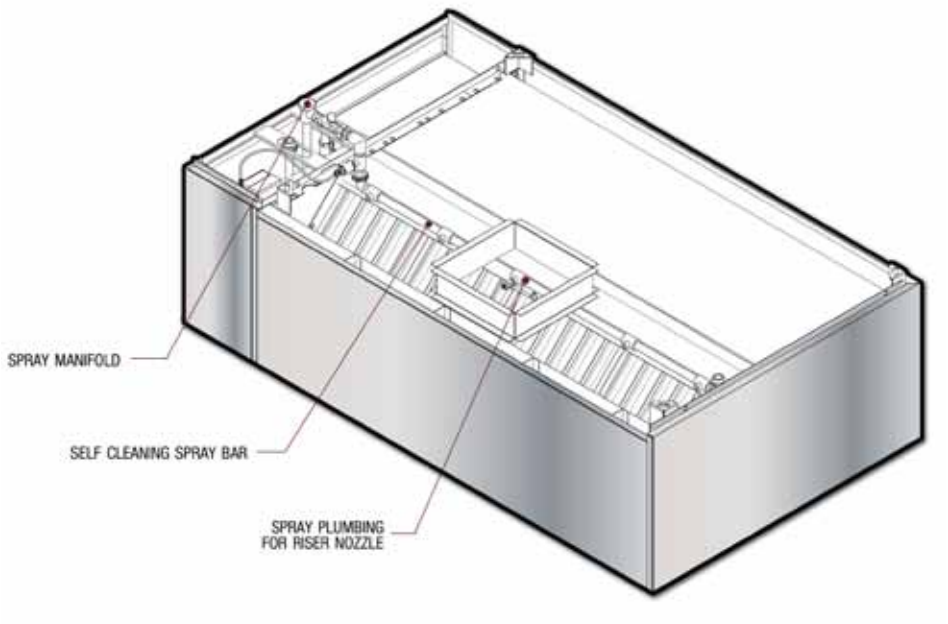
Inside View



Sectional View Self-Cleaning Hood



Back View



VHB

Heat & Condensate Vent Hoods

CaptiveAire's VHB Hood is an exhaust only unit to be used over equipment not producing grease laden vapors.

Features & Benefits

- ETL Listed and NSF Sanitation Listed Product
- Excellent Exhaust Flow Rates
- Exceptional Capture and Containment of Cooking Vapors
- Wall or Single Island Configurations
- 100% Type 304 Stainless Steel Construction
- Pre-Punched Hanging Angles

Options

- Condensate Perimeter Gutter and Single Drain
- Removable Baffle Filters
- Front Perforated Supply Plenum
- Enclosure Panels to Ceiling
- Lighting
  - Incandescent
  - Recessed Incandescent
  - Recessed Fluorescent
- Roof Top Packages
- Separate Exhaust and/or Make-Up Air Fans
- Heated Make-Up Air Units
  - Direct Gas Fired Heated Make-Up Air Fans
  - Indirect Gas Fired Heated Make-Up Air Fans
  - Electric Heated Make-Up Air Units

Specifications

Description

The model VHB is a Type II wall mounted or single island exhaust canopy used for non-grease applications for the removal of steam, vapor, heat and odors where grease is not present.

Application

The hood is NSF Sanitation Listed for use over non-grease applications, specifically for the removal of steam, vapor, heat and odors. The hood shall be used over dishwashers, steam tables, ovens, steamers or kettles if they do not produce smoke or grease-laden vapors, subject to approval of the authority having jurisdiction.

Construction

The hood shall be constructed of type 304 stainless steel with #3 or #4 polish. All seams shall be welded.

The hood shall be constructed to include:

- Exhaust duct collar 4" high with 1" flange.
- Pre-punched hanging angles on each end of hood and additional set provided for hoods 12' and longer. Hood shall be island type with fully welded 10 gauge corner hanging angles. Corner hanging angles have a 5/8" x 1 1/2" slot pre-punched at the factory, allowing hanging rods to be used for quick and safe installation.

Certifications

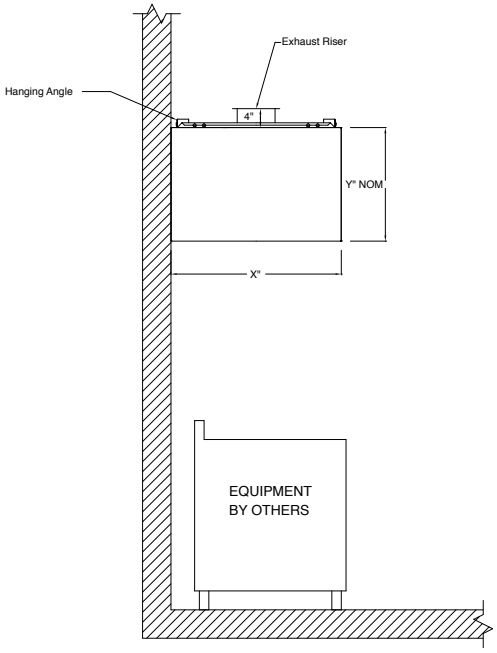
The VHB Model has been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. and Canadian products safety standard, that the manufacturing site has been audited, and that the applicant has agreed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

Models VHB are ETL Listed under file number 3186625SAT-001 and complies with UL710, ULC710 and ULC-S646 Standards.

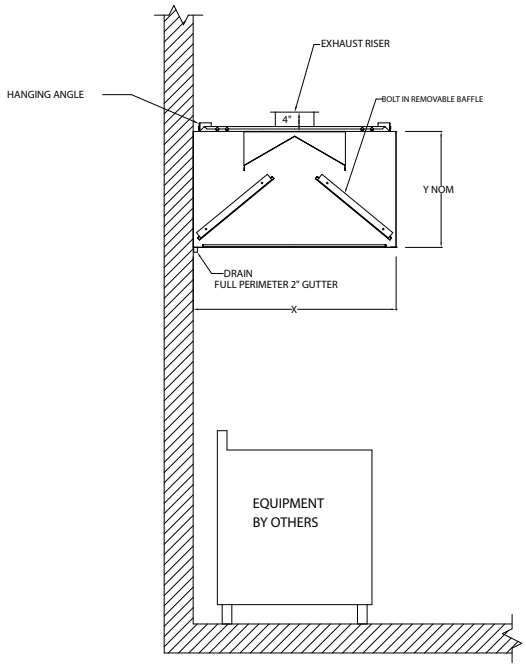
Performance Data

Loads	Configuration	Exhaust CMF/Ft.	Recommended Duct Sizing
Light Loads	Wall Hood 1 Piece Island	100	Exhaust - Based on 1500 FPM
Ovens, Rotisseries		100	
Heavy Loads	Wall Hood 1 Piece Island	150	
Dishwashers		150	

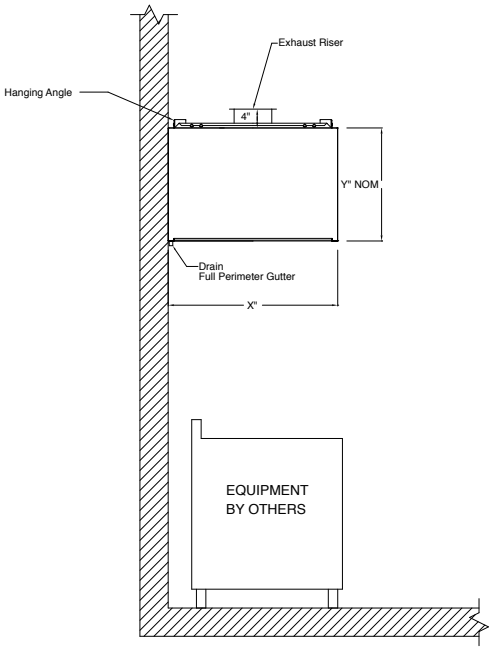
Sectional View VHB Single Wall Section View



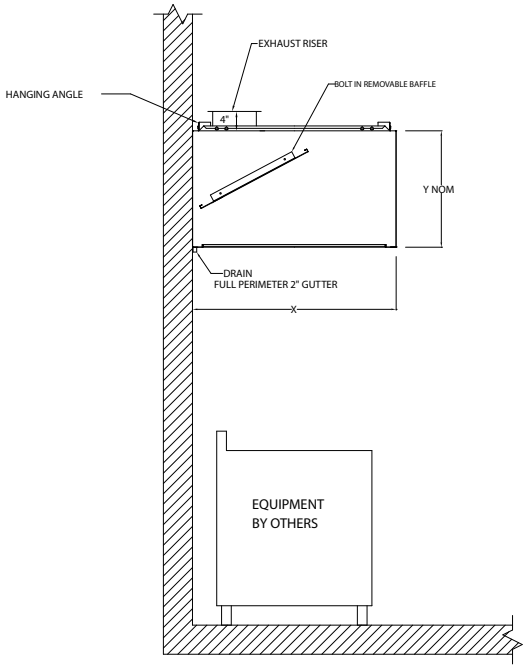
Sectional View VHB Single Wall with Gutter & REM Baffles



Sectional View VHB Single Wall with Gutter Section View



Sectional View VHB Single Wall with Gutter & 1 REM Baffle



SCS Panel

Control Panel

The SCS Control Panel includes a state-of-the-art controller and touch screen for ultimate control of the Self Cleaning operation.

The SCS Panel provides plumbing and electrical controls for Self Cleaning hoods when the design does not allow for a utility cabinet on the end of the hood. The manifold and controls are located in a remote cabinet and piped to the hood at the jobsite. The plumbing assembly includes a combination pressure/temperature gauge, shock absorber, pressure reducing valve, water solenoid valve, surfactant pump, surfactant tank, line strainer and ball valve.

The SCS Control Panel includes a state-of-the-art controller and touch screen for ultimate control of the Self Cleaning operation. The touch screen interface, located on the front of the panel, allows for user-friendly programming including multiple wash zones, programmable schedule and a web interface. The SCS uses a Programmable Logic Controller (PLC), which also serves as a web server.

The SCS Control Panel provides starter coil control for both exhaust and supply fans and can be ordered in conjunction with an electrical control prewire (option 30) that includes the motor starters.

Features & Benefits

- ETL Listed Product
- Easily programmable wash scheduling
- Adjustable wash length (factory set at 3 minutes)
- 3/4”, 1” and 1 1/2” manifolds available based on application needs
- Backflow preventer available
- Multiple Zone Washing

Specifications

The panel shall consist of a plumbing compartment and an electrical controls compartment. These two compartments shall be separated and water tight to prevent any damage to the electrical components in the electrical compartment. All plumbing shall be standard brass pipe fitting.

The manifold shall include a combination pressure/temperature gauge, shock absorber, pressure reducing valve, water solenoid valve, surfactant pump, surfactant tank, line strainer and ball valve.

The panel shall be available in 3/4”, 1” and 1.5” manifold size and shall allow for an optional back flow preventer. All surfactant injection shall be done after a vacuum breaker or a backflow prevention valve.

The controls shall include a PLC and a touch screen for total control of Self Cleaning operation. The touch screen interface shall be located on the front of the panel and shall allow for user-friendly configuration of different options including multiple wash zones, wash time and 7-day/24-hour programmable schedule for the fans and wash cycle.

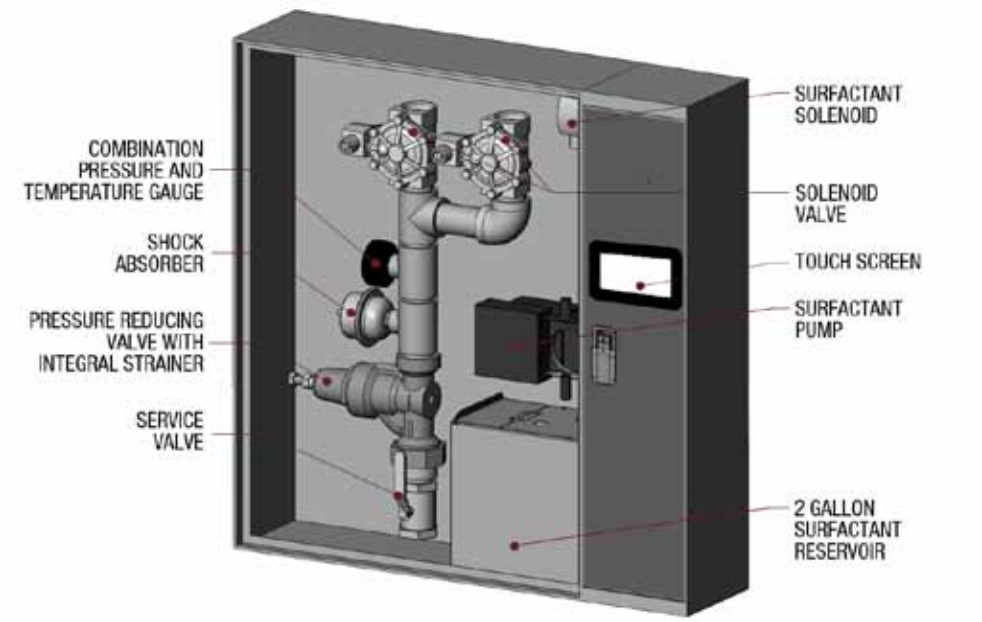
The panel shall allow for optional Building Management Remote Control, Pollution Control Unit pressure switch connection for filter change indication, electric gas valve connection with integrated Reset Relay logic, thermostatic control of the fans and Integration with Demand Ventilation Controls.

Certifications

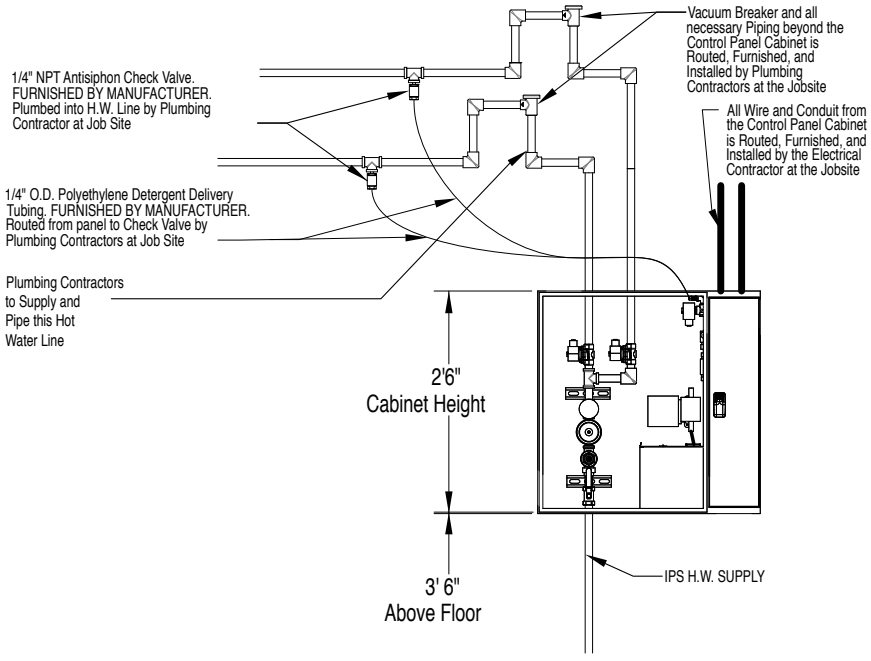
The SCS Model has been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. and Canadian products safety standard, that the manufacturing site has been audited, and that the applicant has agreed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

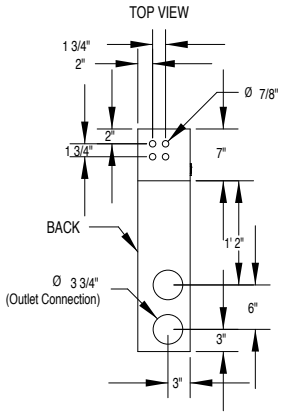
Models SCS are ETL Listed under file number 3132576CRT-001a and complies with UL508A Standards and CSA C22.2, No. 14-M95 and CSA C22.2, No. 73-1953 Standards.

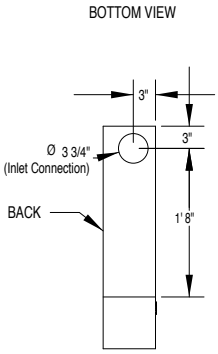
Overview SCS Panel



Wall Positioning SCS Panel







AM-2

Control Panel

The AM-2 Control Panel houses an electrically-controlled plumbing enclosure which controls the internal cleaning system in the CaptiveAire hoods.

The AM-2 Panel provides plumbing and electrical controls for Self Cleaning hoods when the design of the application does not allow for a utility cabinet on the end of the hood. The plumbing assembly includes a combination pressure/temperature gauge, shock absorber, pressure reducing valve, water solenoid valve, surfactant pump, surfactant tank, line strainer and ball valve.

The Self Cleaning operation is intuitive: At the beginning of the day the fan switch is turned ON and the fans start running. At the end of the day, when the cooking is done, the fan switch is turned OFF, the fans shut off and the Hot Water Wash Cycle automatically starts.

The AM-2 Control Panel can be ordered in conjunction with an electrical control prewire for full control of the fans and wash cycle, Model M40. Or it can be ordered with starter coil control only for both exhaust and supply fans, Model M41, if the starters are provided by others.

The Self Cleaning operation has two options available: Hot Water or Cold Water Mist with Hot Water Wash. The Hot Water option automatically cleans the hood/plenum after the cooking operations are completed for the day. By washing the plenum while the hood is hot, wash and cleaning effectiveness increases. Surfactant will be injected into the wash for one second, every one minute of the cycle. The wash time is adjustable to meet the needs of every application. The Cold Water Mist with Hot Water Wash option immediately cools the gasses in the plenum during operation and then washing the plenum down while the hood is still hot at the end of the day.

Features & Benefits

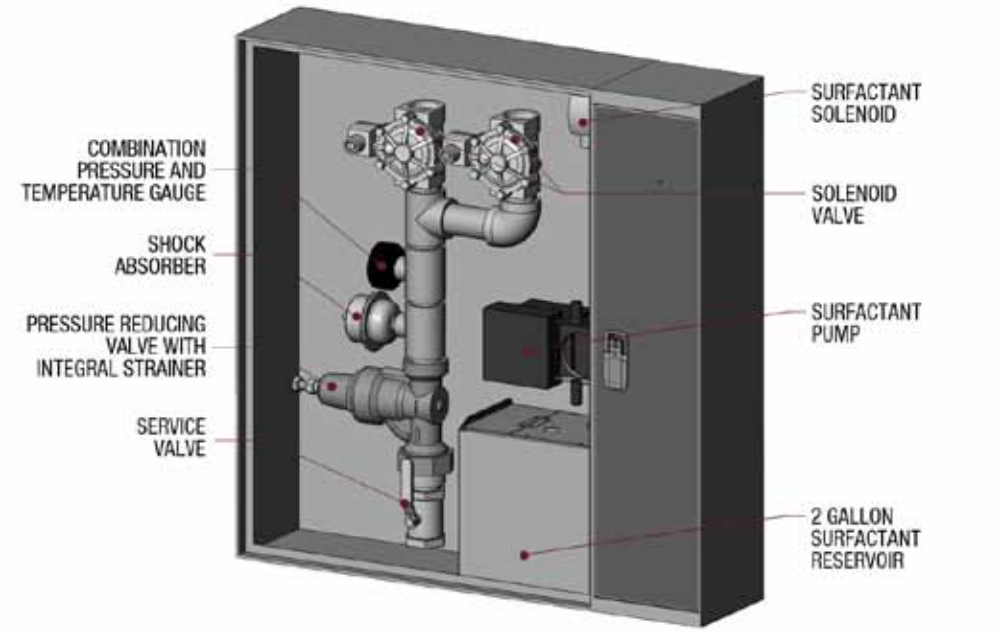
- ETL Listed Product
- Easily Serviceable
- Adjustable Wash Length
- 3/4”, 1” and 1 1/2” Manifolds available based on application
- Starter Coil control for Exhaust and Supply Fans are available with M41
- Tie-in with Demand Ventilation controls available (hot water wash only) with M40
- Backflow Preventer available

Certifications

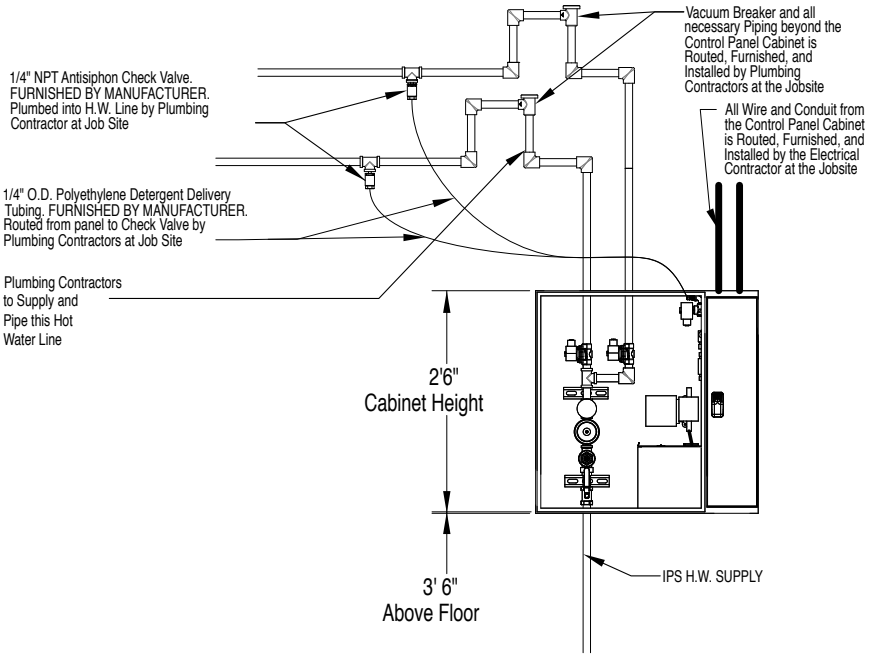
The AM-2 Model has been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. and Canadian products safety standard, that the manufacturing site has been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance.

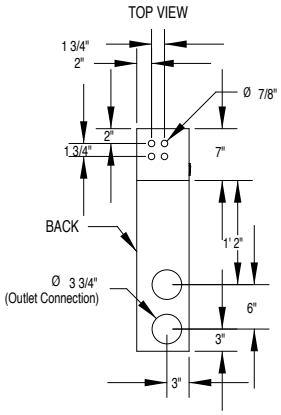
Models AM-2 are ETL Listed under file number 3132576CRT-001a and complies with UL508A Standards and CSA C22.2, No. 14-M95 and CSA C22.2, No. 73-1953 Standards.

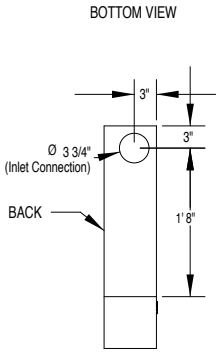
Overview AM-2 Panel



Wall Positioning AM-2 Panel

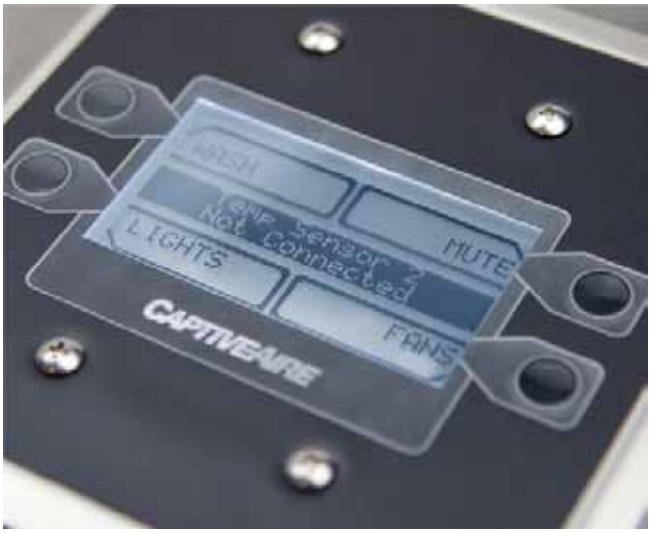






System Controls

Including Demand Control Ventilation



Thermostatically Controlled Option offers automatic operation of exhaust fan(s) whenever cooking operations occur.

The Demand Ventilation Option utilizes VFDs to modulate exhaust and supply airflows based on cooking load.

CaptiveAire's continues to bring innovation to the market with the state of the art controls for hood operation and lighting.

User Friendly Controls
- Digital Interface with LCD screen
- Customizable Options via Microprocessor Control

Reduces Installation Cost and Complexity
- Plug and Play Wiring between Digital Interface and Equipment
- Reduces High Voltage Wiring between Devices

Remote Monitoring
- Equipment Status and Alarms Displayed
- Improves Service and Reliability

Integrated Features
- Automatic Fan Activation
- Room Temperature Sensor
- Reset for Gas Valves
- Monitoring of Fan Overload Tips
- Appliance Shutdown with High Temperature Detection

Demand Control Ventilation Option

Demand Control Ventilation System (DCV) is designed to automatically reduce exhaust and supply airflow quantities, while ensuring hood performance is maintained. The DCV uses Variable Frequency Drives (VFD) and temperature sensors in the exhaust ducts to modulate the fans speed during cooking operation and maximize energy savings. The LCD screen interface provides fan(s) control, system configuration, and diagnostic information.

Features & Benefits of DCV

- Automatically modulates fans based on cooking load. Modulation allows for energy savings compared to fans running on high speed during cooking operation.
- Max Airflow Override and real-time energy savings displayed
- Preparation Time Function: Exhaust fans will automatically turn on at low CFM and lock-out dedicated make-up air. Designed for morning operation when light food preparation is being performed.
- Cool Down Function: At the end of cooking operations, the exhaust fans will automatically turn down to a low CFM and lock-out dedicated make-up air. Designed for equipment cool-down period at the end of the night.
- Wiring between VFDs and Control Board is simplified with the use of CAT-5.

DCV Includes:

Smart Controller The smart controller will constantly monitor the exhaust air temperature through the riser mounted temperature sensor and modulate the fan speeds accordingly.

LCD Screen Interface The system includes a LCD screen interface for fan(s) and hood lights control, wash control (if applicable), gas valve reset, programmable schedule, Max Air Override function, Preparation Time mode, Cool Down mode, and diagnostics including VFD status. The LCD screen shows descriptive plain text explaining the functions or values. The LCD screen interface will be installed on the face of the hood, on the face of the utility cabinet or on the face of a wall mounted control enclosure.

Duct Temperature Sensor(s) Duct Temperature Sensor(s) will be mounted in the exhaust hood riser(s). Temperature probe will be constructed of Stainless Steel. System will be factory pre-set to modulate fan speed within a range of 45°F for 600°F and 700°F cooking applications and a range of 5°F for 400°F cooking applications. Setpoints are fully adjustable through the touch screen interface based on application needs.

Room Temperature Sensor A room temperature sensor will also be provided for field installation in the kitchen space in order to start the fan(s) based on the temperature differential between the room and the exhaust air in the duct rather than fixed set-points.

Variable Frequency Drive(s) Variable frequency drives shall allow full adjustment of minimum and maximum frequency set-point for proper kitchen balance. Drives shall contain motor thermal overload protection. Acceleration and deceleration times shall be fully adjustable. Drives are capable of controlling up to 20HP motor each.

Certifications

The Electrical Control Panel Model has 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. and Canadian 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 Electrical Control Panel are ETL Listed under file number 3132576CRT-001a and complies with UL508A Standards and CAN/CSA C22.2, No. 14-05 Standards.

ECPM03 Circuit Board is ETL Listed under file number 100901773BOX-001 and complies with UL 61010-1 Standard and CAN/CSA C22.2, No. 61010-1 Standards.

EMSplus

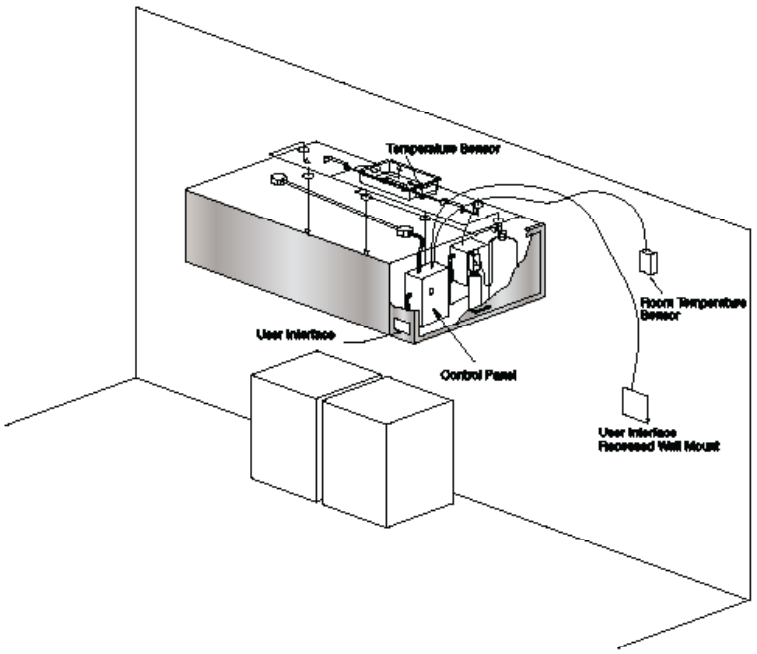
CaptiveAire's Energy Management System Panels (EMSplus) are designed to effectively reduce exhaust and supply airflow rates while still completely capturing and containing all of the heat and smoke generated by cooking appliances.

The modulation of the fans between low and high speed is adjusted by variable frequency drives. The use of variable frequency drives allows for a 20% reduction in airflow at the appliance idle temperature. The modulation of the fans during cooking operation allows for maximized energy savings versus a fan running on high speed during the same cooking period.

An adjustable, fully modulating temperature sensor is mounted in the exhaust duct and monitors the exhaust air temperature. The sensor then works in conjunction with a panel mounted temperature controller.

EMS*plus* Series are ETL Listed under file number 3132576CRT-001a and comply with UL508A Standards and CAN/CSA C22.2, No. 14-05 Standards.

Sectional View System Controls



CORE Protection

Restaurant Fire Suppression System

CORE FIRE PROTECTION

The prevention and defense of fire in commercial kitchens is critical. CORE Protection is a water-based fire suppression system designed to provide primary coverage for hood plenum, grease ductwork and cooking appliances.

CORE Protection provides superior fire protection for commercial kitchens and is ideal for use in restaurants, nursing homes, hospitals, schools, hotels and other similar facilities.

Robust and reliable protection is provided by two main components: Total Flood Protection for appliances and Duct & Plenum coverage. Total Flood offers simplified piping and nozzle placement to cover all appliances in the hazard zone under the hood. The nozzle placement and spray pattern overlaps the hazard zone and allows for increased flexibility for appliance type and location under the hood. Duct and Plenum coverage is provided via a spray bar that extends the full length of the hood immediately behind the filters in the hood. The spray bar also provides automatic washdown of the duct and plenum to minimize grease build-up in the hood plenum and duct.

The system is capable of automatic detection and actuation via an electric thermal detector located in the hood and duct connection. When the temperature exceeds the rating of the sensors, the CORE Protection is engaged. The superior cooling effects of water are utilized for rapid flame knockdown and quick extinguishing of the fire. Remote manual activation is also available via a remote pull station.

Benefits

Total Flood Protection

- Total flood coverage allows for flexibility in appliance type and location under the hoods
- Simplified piping and nozzle placement

Duct and Plenum Protection

- Daily self cleaning to reduce fire hazard
- Unlimited supply of water to ensure the fire is extinguished
- Decreased maintenance cost

Product Construction

The CORE Protection system is a water-based fire suppression system for use in commercial kitchens. The system is ETL listed to UL Standard 300 and ULC/ORD-C1254.6-1995. The CORE Protection system can be mounted in the integral cabinet on the end of the hood or offered as a wall-mount package.

A microprocessor-based control board provides all necessary monitoring, timing and supervision functions required for the reliable operation of the system. All devices that are critical for proper operation are supervised and includes the electric thermal detector(s), manual pull station(s) and electric water solenoids. The control board also detects faults within the system and will alert the user of the specific fault. With the electric fire detection, a battery backup system is provided. The battery powers the automatic detection and pull station circuits, as well as monitoring those devices.

The system is capable of automatic detection and actuation and/or remote manual actuation. The detection portion of the fire suppression system allows for automatic detection by means of an electric thermal detector(s) located in the hood duct connection. The Fenwal Firestat is a device installed in the hood's duct connection that measures temperature. The standard temperature setting is 360°F. If a temperature higher then the set point is sensed, the Firestat contacts will close and energize the fire system. The pull station is provided to allow for manual activation of the fire system.

The basic system consists of Total Flood Protection for appliance coverage and Duct & Plenum Coverage. The plenum protection spray bar extends the full length of the hood immediately behind the filters offering the water-based protection for the duct and plenum. The plenum bar is 3⁄4" brass fittings with nozzles that spray directly toward the back of the hood. Nozzle(s) covering the riser(s) will be 1⁄4" NPT and are a wide angle, high flow nozzle. All fittings and pipe used in the manifold and plenum coverage will be brass. This system is listed for unlimited duct protection for up to a 100-inch perimeter duct.

The Total Flood Protection line runs the entire length of the hood and is aligned with the hazard zone of the appliances. The Total Flood Protection line is 3⁄4" black iron fittings with 3/8" drops. Fittings and pipe used for the total flood protection will be either black iron, stainless steel, or chrome plated. The extinguishing agent for the CORE Protection System is water injected with surfactant. Upon fire system activation, water is sprayed along the length of the plenum and into the duct as well as along the appliance hazard zone underneath the hood.

Flow rate for the hood, when in a fire condition, would be approximately 1.5 gallons per minute per foot of hood. Operating pressure for water lines, both hot water and dedicated line, is 30 to 70 psi.

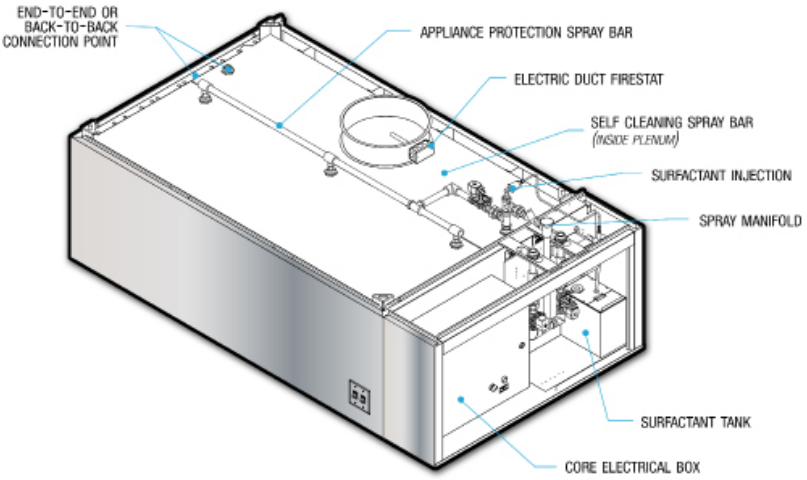
CORE Protection includes:

- Duct and Plenum Spray Bar
- Total Flood Protection Nozzles and Spray Bar
- Electric Battery Backup System
- CORE Circuit Board
- Electric Duct Firestat
- Supervised Loop
- Surfactant Tank and Pump
- Spray Manifold
- Remote Pull Station

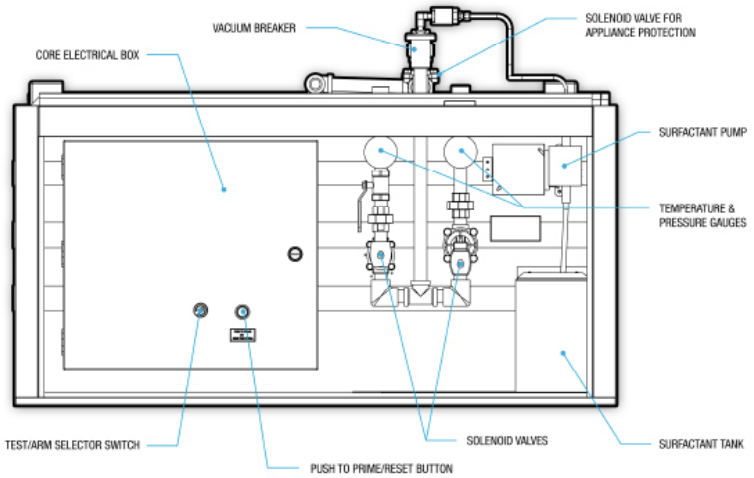
Certifications

The CORE Protection Fire System is ETL Listed under Report number 3132231SAT-004 to UL Standard 300 and ULC/ORD-C1254.6-1995; meets requirements of NFPA 96 (Standard for the Installation of Equipment for the Removal of Smoke and Grease-Laden Vapors from Commercial Cooking Equipment); NFPA 17A (Standard on Wet Chemical Extinguishing Systems).

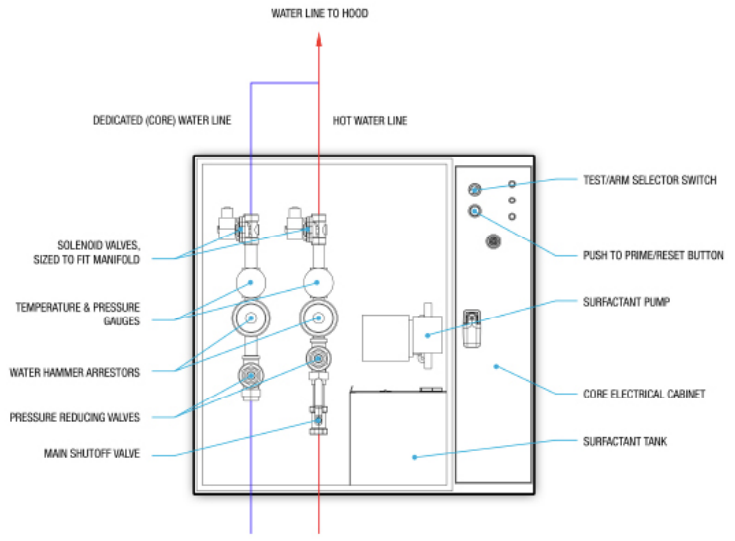
CORE Overview



CORE Utility Cabinet



CORE Wall Mount



AC-PSP Accessory

(AC-PSP Accessory shown on the CaptiveAire ND-2)

Features & Benefits

- Provides up to 80% make-up air
- Convenient termination for AC ductwork in kitchen
- Delivers AC where it is needed most
- AC air does not interfere with capture and containment of the hood
- Stainless steel to match the ventilation hood
- Insulated to prevent condensation
- Make-up air plenum is located nearest the hood; the air conditioned plenum is away from the hood
- Make-up air stream and the tempered air stream are not permitted to mix until leaving the dual plenum
- Perforated, stainless steel diffuser plates provide even air distribution
- Optional LED Lights

PSP Accessory

Features & Benefits

- Provides up to 80% make up air
- Delivers air where it is needed most while minimizing the amount of air that diffuses to space
- Decreases HVAC load, thus lowering operating costs
- Directs make-up air into the capture area of the hood
- Evenly distributes make-up air along the length of the hood
- Aids in exceptional capture and containment of cooking vapors
- Stainless steel construction to match the ventilation hood
- Plenum is insulated to prevent condensation
- Easy Installation

(PSP Accessory shown on the CaptiveAire ND-2)

DI-PSP Accessory

The DI-PSP offers and innovative solution to deliver replacement air int he vicinity of the exhaust hood without affecting capture and containment.

The DI-PSP replaces traditional direction diffusers, like a 4-way, that can degrade hood performancce if within ten feet.

Features & Benefits

- Stainless steel trim for aesthetics
- Stainless steel perforation for long lasting durability
- Fully insulated shell to prevent condensation
- Integrated radial diffuser, adjustable from below the ceiling
- Removable performation for cleaning
- Laminar air discharge patters
- Available with 3 duct size connections: 8, 10, or 12 inches
- Fits in a standard ceiling grid

Captrate Solo Filter

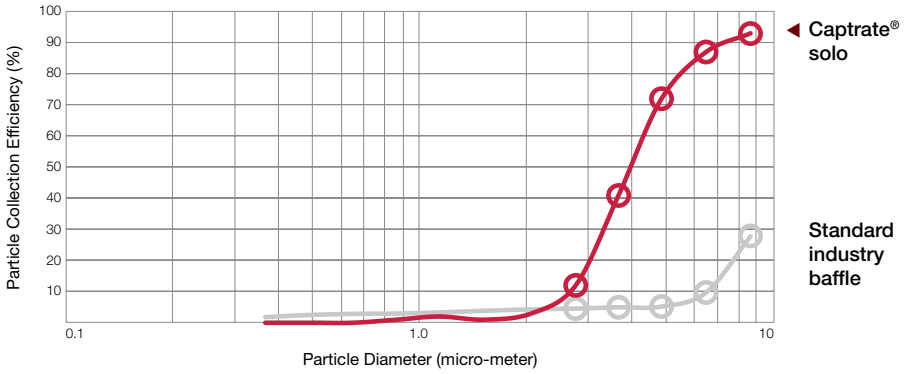
CaptiveAire's Captrate® Solo Filter is a single-stage filter featuring a unique S-Baffle design in conjunction with a slotted rear baffle design to deliver exceptional filtration efficiency of single-stage devices. The Captrate® Solo Filters are available in standard industry sizes and are designed to capture and remove a high percentage of the total grease particulate emissions produced during commercial kitchen cooking operations.

Captrate Solo filters reduce the fire hazard and maintenance associated with grease build-up in hood plenums, duct work, fan assemblies, rooftops and adjacent surfaces. The Solo is constructed of 430 stainless steel and sized to fit into standard 2-inch deep hood channel(s).

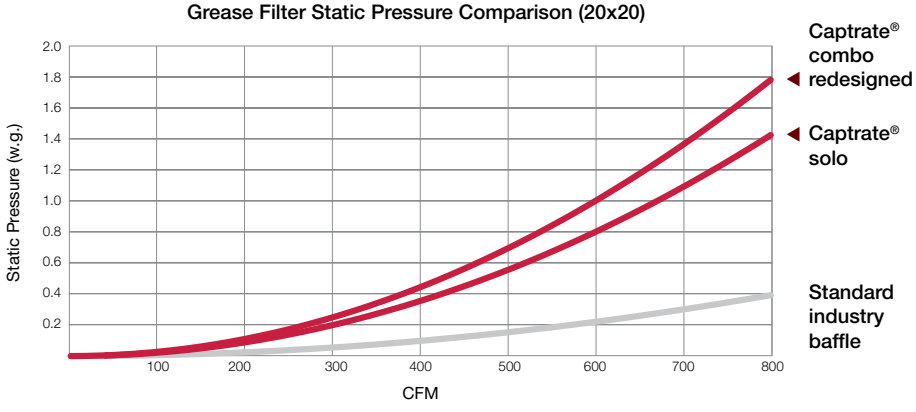
Single unit assembly design does not require any components to be separated for cleaning and maintenance. Simply wash using a dishwasher or soak using a commercial degreaser.

Size (h x w)	Dimensions (h x w x d)	Area (sq. ft.)	Weight (lbs.)
20 x 20	19 5/8" x 19 5/8" x 1 7/8"	2.28	11
20 x 16	19 5/8" x 15 5/8" x 1 7/8"	1.78	8.9
16 x 20	15 5/8" x 19 5/8" x 1 7/8"	1.78	9.1
16 x 16	15 5/8" x 15 5/8" x 1 7/8"	1.39	7.4

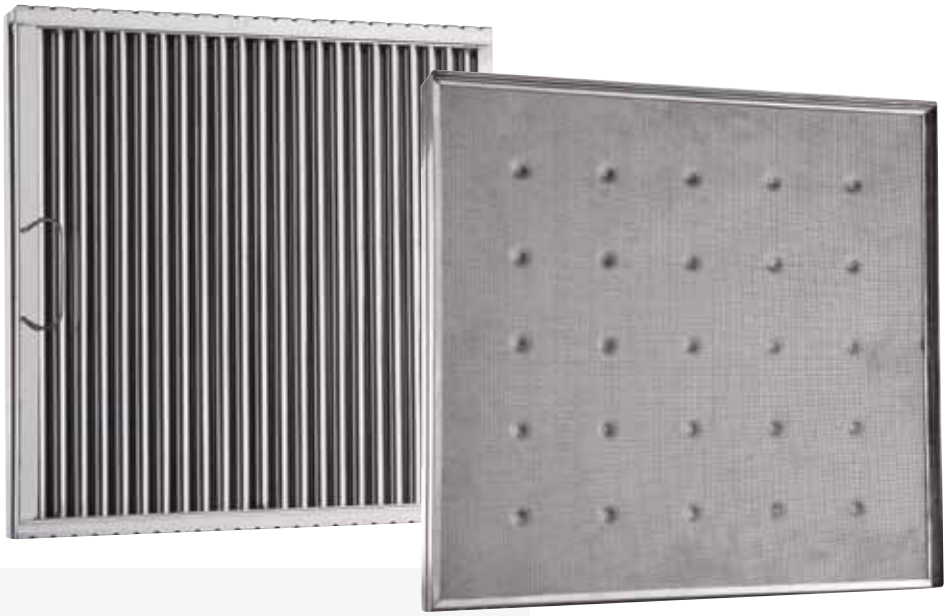
Filter Collection Efficiency Comparison



Grease Filter Static Pressure Comparison (20x20)



Captrate Combo Filter



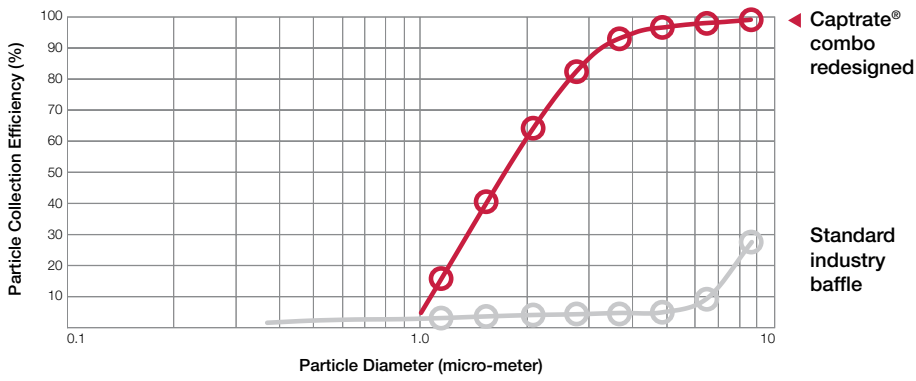
CaptiveAire's Captrate® Combo Filter uses the latest technology in multi-stage grease filtration, delivering unparalleled efficiency for restaurant hood systems. The first stage consists of an optimized S-baffle designed to remove and drain the larger grease particles. The second stage features a packed-bed of porous ceramic media, designed to capture the smaller grease particles associated with commercial cooking. The combined result is a front-end filtration solution delivering unparalleled grease removal efficiency for restaurant hood systems.

The Captrate® Combo Filter is available for new kitchen hoods and can also be retrofitted into most existing ventilation systems. It will substantially reduce cleaning, maintenance cycles and attendant expenses, providing greater overall cost savings than other grease capture devices or systems on the market today.

Capturing grease in its finest form Cooking produces emissions that are the source of mess and cost. The emissions include steam, gas molecules, and aerosol droplets that range in size from sub-microscopic to large spatters and solid particles. CaptiveAire has combined the latest aerosol technology and a novel media to produce a filter that captures most of the particles that standard baffle filters cannot stop. The Captrate® filter, which is a bed of porous ceramic beads, captures small particles as they are forced through the bed's pathways and then pulls the grease into the beads to prevent clogging. This capture-and-store process as well as the high efficiency, first-stage baffle, which confines more grease than any other baffle, extends the cleaning interval, thereby lengthening the system's run time.

Captivating performance The Captrate® Combo Filter is designed to capture substantially more grease than today's standard filter systems. The superior efficiency means cleaner duct work, exhaust fans, and external surfaces such as roofs, walls, and pavement. Less grease means improved safety as well as reduced maintenance and cleaning cost of the ventilation system.

Filter Collection Efficiency Comparison



PCU

Pollution Control Unit

The Pollution Control Series, with Triple Pass Filter, is designed for the removal of smoke and grease particles from the air stream of commercial kitchen exhaust systems.

The CaptiveAire Pollution Control Unit, PCU Series, is designed specifically for the removal of smoke and grease particles from the air stream of commercial kitchen exhaust systems and to eliminate or reduce odor to an acceptable level if equipped with the optional odor control section. The PCU is designed for use with a CaptiveAire high efficiency self-cleaning or baffle ventilator, but may be used with other high efficiency exhaust hoods.

The typical PCU includes a washable steel pre-filter and disposable, high efficiency, (MERV 14) media filter. A HEPA final filter module is available for smoke control, and odor control is handled via an optional 50/50 blend carbon/permanganate module. Sizes range in capacity up to 10,000 CFM. The PCU is ETL listed to Standard UL710 and is suitable for indoor or outdoor installation.

Features & Benefits

- ETL-Listed
- Constructed Specifically to Meet Kitchen Exhaust Duct Standards.
- Optional Odor Removal Module
- Optional HEPA Final Filter for 99.99% Extraction
- Suitable for Indoor or Outdoor Installation
- Unit May Be Shipped in One Piece or in Sections to Facilitate Entry and Installation
- One Year Parts Warranty

Specifications

Description The PCU series shall be a factory assembled pollution control unit capable of significantly reducing smoke, grease, and odor from the exhaust air stream.

Housing The PCU housing is to be constructed of 430 SS of polish 2B or better. All metal in contact with the air-stream is to be constructed of 430 SS. 1500°F Ceramic based gasket must be in place for all internal seams exposed to airflow. High temperature weatherproofing gasket must be used on all exterior seams.

Base The base shall be constructed of galvanized steel for improved rigidity. Base shall be structurally reinforced to accommodate the filter assembly.

Pre-Filter Section The pre-filter section shall include 2 inch deep steel washable permanent filters. Filter frames shall be constructed of steel. Disposable Grease Lock filters (optional) placed upstream of the permanent filters shall be provided for improved filtration and longevity of High Efficiency Filters. Filters shall be arranged in a v-bank configuration to increase filter area and reduce static pressure. All filters shall be removable without the use of tools through side access doors with lift and turn latches. Filters are to be cleanable with a water hose and soapy water.

Inside View

High Efficiency Filter Section The phase two filters shall consist of 4 inch deep rigid cell extended surface filters. Filter cell sides shall be constructed of metallic frame with downstream mesh for durability. Beverage board filter sides shall not be permitted. Filters shall be arranged in a v-bank configuration to increase filter area and reduce static pressure. All filters shall be removable without the use of tools through side access doors with lift and turn latches. Filters are to be rated MERV14 minimum in accordance with ASHRAE standard 52.2 and have a minimum average arrestance of 98% in accordance with ASHRAE 52.1-1992. High Efficiency module must be installed downstream of pre-filter module.

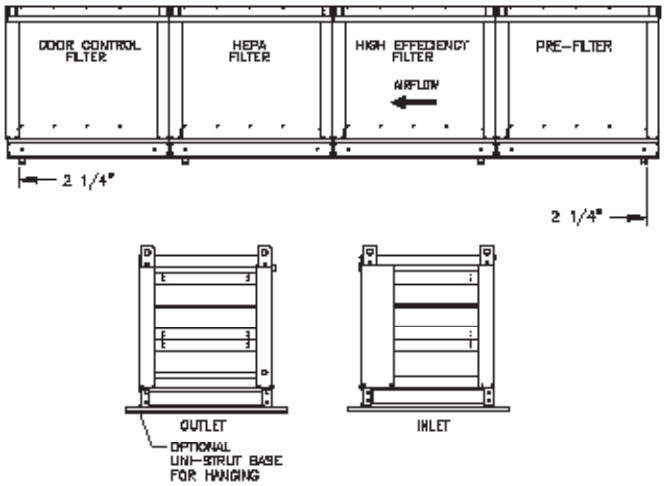
Odor Control Media Section *(Optional)* The unit shall be provided with a 50% potassium permanganate, 50% carbon blend media. The odor removal cartridges shall be encased in steel frames. The odor removal media shall be arranged in a v-bank configuration to increase filter area and reduce static pressure. All media shall be removable without the use of tools through side access doors with lift and turn latches. Odor control module must be installed downstream of High Efficiency module.

Advanced Filter Monitoring System *(Optional)* The Advanced Filter Monitoring includes a module that provides the necessary precision pressure measurements for accurate monitoring of the complete system. Based on the measurements the AFM will initiate suitable actions via the electric control package in case of a fault. Direct access to the operating conditions are also provided through the use of a HMI (Human Machine Interface), which is conveniently located on the PCU.

CORE Protection Fire System *(Optional)* The detection portion of the fire suppression system allows for automatic detection by means of an electric thermal detector located in the intake and outlet of the unit. If the Pollution Control Unit Firestat senses a temperature hotter than its internal setpoint, an electric signal is sent to the CORE Fire System Cabinet. An electric water solenoid is energized allowing the flow of water to the Pollution Control Unit mounted manifold. The CORE fire suppression system is a pre-engineered, pollution control unit fire system that utilizes a water spray system for fast flame knock-down and suppression.

Certifications Models PCU are ETL Listed under file number 3175852SAT-001 and complies with UL710, ULC710, ULC-S646 and ULC-S647 Standards.

Sectional View Pollution Control Unit (PCU)



PCU Advanced Filter Monitoring System

HMI Human Machine Interface

Screen showing Filter Saturation

Screen showing Pressure Drop across Modules

UDS

Utility Distribution System

One Connection for
All Your Utility Needs

Systems shall have two vertical risers, one on each end; one dedicated to electrical and the other to plumbing. The horizontal distribution raceway between the risers shall be separated into electrical and plumbing compartments and each shall be completely enclosed and water tight with removable access panels. The risers and raceway shall be constructed of 16 gauge, type 304 stainless steel, #3 finish. The system shall be completely pre-wired and pre-plumbed with one (1) final connection point for all incoming services. A circuit protected dual convenience outlet shall be provided on each riser. Service connections shall be located behind easy lift out access panels.

Features & Benefits

- ETL Listed and NSF Sanitation Listed Product.
- Two models available: UDI (island configuration with equipment connections on both sides) and UDW (wall mounted with equipment connections on one side only)
- Expandability plumbing manifolds are provided with multiple plumbing stubs for future use. Electrical systems are designed for additional capacity for future expansion or upgrade of connected appliances.
- Bus Bar systems individual circuit breakers are mounted on interchangeable plates for ease of service and relocation. Spare connection points provided for cooking equipment relocation or expansion.
- Wireway Electrical Distribution panel located in the riser is equipped with branch circuit breakers and sized for expansion.
- Serviceability and accessibility lift out doors provide easy access to risers without moving cooking equipment, in most cases. Removable panels provided along the length of the raceway allow access to either plumbing or electrical compartments.
- Electric outlets and cord sets all outlets are provided with moisture resistant covers and have been sized per NEMA standards. Each is supplied with a matching cord and plug set if these are not already supplied by the equipment manufacturer. Twist-lock sets are standard with the model UDI. Straight blade sets are standard with the model UDW.
- Main Disconnect - One point disconnect through main circuit breaker equipped with 120 VAC rated shunt trip provided in riser.
- Gas Solenoid Valve - Electrical or mechanical electrical valves provided with manual reset button.
- Shunt trip provided with each main breaker.
- Appliance Protection - Each electrical outlet connection is protected with an individual circuit breaker.
- Dual Convenience Outlets - Located at each riser with integral ground fault protection.
- Fire / Fuel shutoff - In compliance with NFPA 96. Terminal connection points provided for field wiring to the fire protection system to shut-off fuel sources and power in the event of a fire.

Options

- Light remote status indicator panel indicates status of breakers in wireway
- Electric outlet & cord sets, water tight pin, sleeve outlets, and cords
- Light & fan switches located in riser
- Hood control panel built directly into riser
- Ground fault protection
- Prison package
- Bumper strips
- Emergency kill switch single point shutdown of electrical power and electrical gas valves
- Swivel connectors for gas equipment
- Plumbing fixtures pre-plumbed & installed faucets, mixing valves and hose reels
- Cable restraints for mobile equipment
- Hinged doors for internal access to risers
- Temperature / pressure gauges for hot / cold water main

Electrical

Bus Bar System The electrical raceway shall be a four (4) conductor copper bus bar system having balanced load and phases, and shall be completely isolated from the plumbing supply manifolds. Point of use circuit breakers shall be mounted on connection plates, located on the peaked top of the raceway and protected by a water proof stainless steel

hinged cover. The breakers shall be easily accessible to the operator. The connection plates shall be easily interchangeable with spare blank plates for future expansion or changes. A main circuit breaker, with a built-in 120 VAC rated shunt trip, shall be furnished in the electrical riser and require a single point incoming connection. Terminal block connections shall be provided for field interconnection between the shunt trip and the fire protection system for power shut-off in the event of a fire.

Wireway System The electrical system shall consist of a main circuit breaker, feeding power to a distribution panel located in the electrical riser containing individual branch breakers. Each appliance is fed from the individual breakers which are wired to each receptacle located along the raceway, and shall be completely isolated from the plumbing supply manifolds. The main circuit breaker shall be equipped with a built-in 120 VAC rated shunt trip and shall be located in the electrical riser requiring a single point incoming connection. Terminal block connections shall be provided for field interconnection between the shunt trip and the fire protection system for power shut-off in the event of a fire.

All outlets shall be equipped with grounding type receptacles having specific NEMA polarized configurations and located on the under side (Model UDI) or front side (Model UDW) of the raceway at each equipment location. Outlets are matched to the cord and plug sets supplied with equipment. On the Model UDI, twist lock cord and plug sets are provided for equipment supplied without cords. On the Model UDW, straight blade cord and plug sets are provided for equipment supplied without cords.

Main Circuit Breaker 15 to 600 Ampere, 1 or 3 phase; 120, 208 or 480 VAC System

Branch Circuit Breakers 15 to 100 Ampere, 1 or 3 phase; 120, 208 or 480 VAC-System

Plumbing

The plumbing compartment shall be completely isolated from the electrical with all piping labeled. Hot and cold water, steam supply, and return manifolds shall be insulated. All incoming service connections shall be provided with 1/4 turn valves. Each branch connection shall be provided with 1/4 turn valve, color coded, and located at each equipment location. Color coded quick disconnect hoses are provided for connection to equipment. Hot and cold water piping, including branch connections, shall be type "L" copper tubing. All fittings will be copper sweat solder (95-5 type). Gas and steam piping, including branch connections, shall be threaded black iron. There shall be a drip tee on the incoming gas end. The gas manifold shall be furnished with either an electrical or mechanical gas valve, which shall be field interlocked with the fire protection system to shut off fuel sources in the event of a fire. Electrical gas valves shall be furnished with a manual gas reset button located in the UDS riser.

Gas Manifold (single or looped) 3/4" to 3" IPS
1/4 turn manual valve on manifold
Quick disconnect hoses: 1/4" to 1 1/4", up to 6' long
Quick disconnect fittings: 1/4" to 1 1/4" with 1/4 turn valves

Hot and Cold Water Manifold 3/4" to 1" IPS
1/4 turn manual valve on manifold
Quick disconnect hoses 1/4" to 1", up to 6' long
Quick disconnect fittings: 1/4" to 1" with 1/4 turn valves

Steam Supply/Steam Return Steam Manifold 3/4" to 3" IPS
Condensate Return Manifold: 3/4" to 2" IPS
1/4 turn manual valves on manifolds
Quick disconnect hoses: 1/4" to 1 1/4", up to 6' long
Quick disconnect fittings: 1/4" to 1 1/4" with 1/4 turn valves

Compressed Air Manifold 1/2" to 3/4" IPS
1/4 turn manual valve on manifold
Quick disconnect hoses: 1/4" to 1/2", up to 6' long
Quick disconnect fittings: 1/4" to 1/2" with 1/4 turn valves

Efficiency for Today, Flexibility for Tomorrow

The CaptiveAire Utility Distribution System (UDS) allows greater flexibility over conventional utility connections. It is designed to provide additional capacity according to job specifications. Spare connection points are provided for future cooking equipment expansion, therefore, adding new equipment requires minimal effort. Rearranging the cooking line-up can be accomplished in a matter of minutes, especially when equipment is on casters.

Electrical Riser Power connection is made to the main circuit breaker, which is equipped with a shunt trip and is mounted in the electrical riser. Bus Bar Systems- Electrical power is connected through the main circuit breaker to the bus bar system in the raceway. Each appliance is connected from the bus bar through individually sized circuit breakers located along the raceway. Wireway Systems - Electrical power is connected through a main circuit breaker to a distribution panel which contains individual branch breakers. Each appliance is fed from individual breakers which are wired to each receptacle located along the raceway.

Plumbing Riser The plumbing riser houses manual (quarter-turn) shut-off valves for each incoming main supply line located in the UDS. The plumbing manifolds are provided with stub-outs along the raceway for the individual plumbing connections. Each stub-out is equipped with a manual (quarter-turn) shut-off valve.

Factory-Welded Grease Duct Systems

Single Wall

Factory-Welded Single Wall Grease Duct is is ETL Listed, made from 430 stainless steel. Duct diameters range from 8” to 24”, with multiple lengths and accessories available. Grease duct is ideal for use in kitchen ventilation applications where clearance to combustibles and temperature retention in the duct is not a factor. Duct system(s) are available as a stand-alone system, or as part of a fully integrated package, and are pre-engineered for optimum performance for exhaust fans and hoods. Grease duct is ETL listed to standard UL-1978, and does not have to be welded in the field.

Features

- Duct and duct accessories are constructed out of 20 gauge 430 stainless steel
- Multiple accessories
- Diameters range from 8” to 24”
- Duct lengths for 8” and 10” diameters are 24”, 30” & 48” Duct lengths for 12” through 24” diameters are 24”, 30”, 48” & 60”
- Duct and duct accessory connections have been optimized for ease of assembly
- Connections are made using a universal “V” clamp.
- Joints to be sealed using 3M Fire Barrier 2000+
- Access doors available for clean out
- Transition plates available for duct termination at the curb
- Transition plates and collars designed to overcome slight misalignments
- Proven duct hanging system
- Submittals and duct CAD files

Benefits

- System can be used as a stand-alone duct system that can be integrated into a kitchen application
- System can be used as part of a fully integrated packaged designed and pre-engineered for optimum performance with kitchen ventilation equipment
- Duct systems that are part of an integrated system reduce the amount of rework and service calls
- Non-welded duct saves on installation costs
- Duct systems have been designed so there is no cutting or welding of duct in the field
- Single source for equipment and duct
- Reduced coordination and shipping costs due to single source supplier
- Duct is manufactured on state of the art equipment
- Duct and duct accessories go through a robust quality control check making sure you get the very best product every time
- Duct has been rigorously tested to comply with ETL
- Grease duct is ETL listed to standard UL-1978

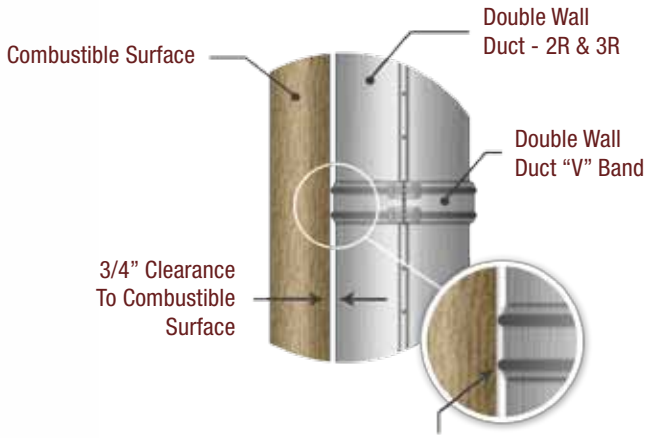
Certifications

The DW Series has 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.

Model DW Series is ETL Listed under file number 3114021 and complies with UL1978 Standards.

Factory-Welded Grease Duct Systems

Double Wall



"V" Band On Reduced Clearance Duct, 2R & 3R

May be in contact with Combustible Surface

Factory-Welded Double Wall Grease Duct is ETL Listed, made from 430 stainless steel. Inner duct diameters range from 8" to 24", with multiple lengths and accessories available. Double Wall Grease Duct is ideal for use in kitchen ventilation applications where reduced clearance or zero-inch clearance to combustibles is needed. Grease duct is ETL listed to standard UL-1978 and UL Standard 2221 and rated for continuous operation at 500°F and intermittent operation at 2000°F. Double Wall Grease Duct does not have to be welded in the field.

Features

- Duct sections are constructed of an inner wall and outer wall with insulation in between - inner duct is Single Wall (DW series) and outer shell is Stainless Steel
- Inner Duct Diameters range from 8" to 24"
- Three models are available to meet clerance requirement needs - Model DW-2R, Model DW-3R and Model DW-3Z
- Rated for continuous operation at 500°F and intermittent operation at 2000°F
- Duct Systems are allowed to penetrate a fire resistance rated floor when using floor support assembly and fire stop kit
- Multiple accessories
- Duct and duct accessory connections have been optimized for ease of assembly
- Connections are made using a universal "V" clamp.
- Joints to be sealed using 3M Fire Barrier 2000+
- Access doors available for clean out
- Transition plates available for duct termination at the curb
- Transition plates and collars designed to overcome slight misalignments
- Proven duct hanging system
- Submittals and duct CAD files

Benefits

- System can be used as a stand-alone duct system that can be integrated into a kitchen application
- System can be used as part of a fully integrated packaged designed and pre-engineered for optimum performance with kitchen ventilation equipment
- Duct systems that are part of an integrated system reduce the amount of rework and service calls
- Non-welded duct saves on installation costs
- Duct systems have been designed so there is no cutting or welding of duct in the field
- Single source for equipment and duct
- Reduced coordination and shipping costs due to single source supplier
- Duct is manufactured on state of the art equipment
- Duct and duct accessories go through a robust quality control check making sure you get the very best product every time
- Duct has been rigorously tested to comply with ETL
- Grease duct is ETL listed to standard UL-1978 and UL-2221

Certifications

The DW Series has 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.

Model DW Series is ETL Listed under file number 3114021 and complies with UL1978 Standards.

Double Wall Grease Duct Clearances

DUCT MODEL	INNER DIAMETER (ID)	OUTSIDE DIAMETER	CLEARANCE TO COMBUSTIBLES	CLEARANCE TO NON-COMBUSTIBLES
DW-2R	8" - 16"	ID+4	3/4"	0"
DW-3R	8" - 24"	ID+6	3/4"	0"
DW-3Z	8" - 24"	ID+6	0"	0"

* 3/4" clearance to combustibles from the surface of the duct outer shell and zero-inch clearance from combustibles from the tip of the outer V clamp

Offering the Complete Solution for Sustainable Ventilation

Now shipping from:

• Youngsville, NC • Bedford, PA • Muskogee, OK
• West Union, IA • Redding, CA • Groveland, FL

EXHAUST HOOD DEPOT

CAPTIVE-AIRE
COMMERCIAL KITCHEN VENTILATION

CORE Fire Suppression System
Extended Protection

4641 Paragon Park Road, Raleigh NC 27616 | exhausthooddepot.com