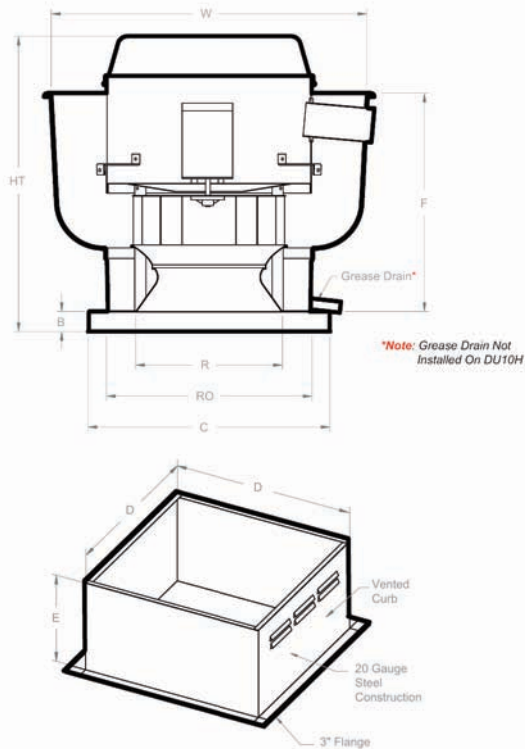


Direct Drive DU

Centrifugal Upblast Fans



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

- 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 (for NFPA96 compliance)

Certifications



FloAire certifies that Models DU10H thru DU85H shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests & procedures in accordance with AMCA Publication 211 and Publication 311, and comply with the requirements of the AMCA Certified Ratings Program.



Models DU12H thru DU85H are ETL Listed and comply with UL 705 (electrical) and UL 762 Standards and CSA Std. C22.2, No. 113.

Measurements

MODEL	HT	W	B	C	D	E	F	R	RO	Weight Lbs	Damper Sq.
DU10H	14 1/2	17 3/4	2	19	17 1/2	12	9 1/2	8 1/8	13	30	12
DU12H	18	22	2	19	17 1/2	12	14 1/2	10 5/8	13	40	12
DU25H	25 1/4	25 1/2	2	21	19 1/2	12	18 1/2	12 1/8	16	50	15
DU30H	25 1/4	25 1/2	2	21	19 1/2	12	18 1/2	12 1/8	16	50	15
DU33H	25 1/4	25 1/2	2	21	19 1/2	12	18 1/2	12 1/8	16	50	15
DU50H	27 1/4	28 7/8	2	21	19 1/2	12	21 1/2	13 1/4	16	55	15
DU75H	30 1/2	31 7/8	2	24 3/4	23	12	23	14 7/8	20	60	19
DU85H	30 1/2	31 7/8	2	24 3/4	23	12	23	14 7/8	20	60	19

Motor Availability

*Variable Frequency Drive

Model	Single Phase Open ~ 115 Volts		Three Phase 280 ~ 230/460 Volts	
	1 Speed	Speed Control	1 Speed	VFD*
DU10H	*	*	na	na
DU12H	*	*	na	na
DU25H	*	*	na	na
DU30H	*	*	na	na
DU33H	*	*	*	*
DU50H	*	*	*	*
DU75H	*	*	na	na
DU85H	*	*	*	*

Note: Speed Controls are not shipped with three phase fans.
Variable Frequency devices are required to adjust three phase motor speed (optional)

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

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
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
DU10H	1000	2356	0.07	335 2.5 / 0.02	263 2.5 / 0.02	170 2.5 / 0.02						
DU10H	1100	2592	0.07	369 3.1 / 0.02	304 3.1 / 0.02	226 3.1 / 0.02	112 3.1 / 0.02					
DU10H	1200	2827	0.07	402 4 / 0.03	343 4 / 0.03	277 4 / 0.03	192 4 / 0.03	45 4 / 0.03				
DU10H	1300	3063	0.07	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				
DU10H	1400	3299	0.07	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			
DU10H	1500	3534	0.07	503 7.1 / 0.06	457 7.1 / 0.06	407 7.1 / 0.06	353 7.1 / 0.06	290 7.1 / 0.06	215 7.1 / 0.06	99 7.1 / 0.06		
DU10H	1600	3770	0.07	537 7.8 / 0.07	493 7.8 / 0.07	447 7.8 / 0.07	398 7.8 / 0.07	343 7.8 / 0.07	280 7.8 / 0.07	204 7.8 / 0.07		
DU12H	900	2474	0.14	459 3 / 0.03	350 3 / 0.03	201 3 / 0.03						
DU12H	1000	2749	0.14	510 3.7 / 0.04	415 3.7 / 0.04	288 3.7 / 0.04	150 3.7 / 0.04					
DU12H	1100	3024	0.14	561 4.6 / 0.06	476 4.6 / 0.06	371 4.6 / 0.06	244 4.6 / 0.06	114 4.6 / 0.06				
DU12H	1200	3299	0.14	612 5.6 / 0.07	536 5.6 / 0.07	445 5.6 / 0.07	331 5.6 / 0.07	217 5.6 / 0.07	84 5.6 / 0.05			
DU12H	1300	3574	0.14	663 6.6 / 0.09	593 6.6 / 0.09	514 6.6 / 0.09	417 6.6 / 0.09	308 6.6 / 0.09	203 6.6 / 0.09	67 6.6 / 0.04		
DU12H	1400	3848	0.14	714 7.8 / 0.11	650 7.8 / 0.11	579 7.8 / 0.11	495 7.8 / 0.11	395 7.8 / 0.11	297 7.8 / 0.11	198 7.8 / 0.11		
DU12H	1500	4123	0.14	766 9.2 / 0.14	705 9.2 / 0.14	640 9.2 / 0.14	567 9.2 / 0.14	481 9.2 / 0.14	385 9.2 / 0.14	294 9.2 / 0.14	75 9.2 / 0.06	
DU25H	750	2307	0.25	588 1.5 / 0.07	470 1 / 0.07	262 0.7 / 0.07						
DU25H	850	2615	0.25	666 2.1 / 0.10	566 1.7 / 0.10	430 1.3 / 0.10						
DU25H	950	2922	0.25	745 2.8 / 0.14	657 2.5 / 0.14	543 2.2 / 0.14	396 1.8 / 0.14					
DU25H	1050	3230	0.25	823 3.6 / 0.19	746 3.3 / 0.19	654 3.1 / 0.19	539 2.8 / 0.19	328 2.6 / 0.19				
DU30H	1000	3076	0.25	788 4.2 / 0.06	692 4.2 / 0.06	583 4.2 / 0.06						
DU30H	1100	3384	0.25	866 5 / 0.08	780 5 / 0.08	687 5 / 0.08	571 5 / 0.08					
DU30H	1200	3691	0.25	945 5.9 / 0.11	867 5.9 / 0.11	784 5.9 / 0.11	687 5.9 / 0.11	570 5.9 / 0.11				
DU30H	1300	3999	0.25	1024 7 / 0.13	951 7 / 0.13	876 7 / 0.13	793 7 / 0.13	697 7 / 0.13	583 7 / 0.13			
DU30H	1400	4307	0.25	1103 8.1 / 0.17	1035 8.1 / 0.17	966 8.1 / 0.17	894 8.1 / 0.17	809 8.1 / 0.17	712 8.1 / 0.17	606 8.1 / 0.17		
DU30H	1500	4614	0.25	1182 9.4 / 0.21	1119 9.4 / 0.21	1055 9.4 / 0.21	988 9.4 / 0.21	915 9.4 / 0.21	833 9.4 / 0.21	737 9.4 / 0.21		
DU30H	1600	4922	0.25	1261 10.7 / 0.25	1201 10.7 / 0.25	1143 10.7 / 0.25	1080 10.7 / 0.25	1016 10.7 / 0.25	942 10.7 / 0.25	864 10.7 / 0.25	677 10.7 / 0.25	
DU33H	1125	3461	0.33	875 4.4 / 0.09	795 4.1 / 0.09	698 3.8 / 0.09	591 3.6 / 0.09	450 3.4 / 0.09				
DU33H	1225	3768	0.33	953 5.3 / 0.12	879 5.1 / 0.12	794 4.8 / 0.12	701 4.6 / 0.12	594 4.3 / 0.12	435 4.1 / 0.12			
DU33H	1325	4076	0.33	1030 6.3 / 0.15	963 6.1 / 0.15	888 5.8 / 0.15	803 5.6 / 0.15	713 5.4 / 0.15	603 5.2 / 0.15	428 5 / 0.15		
DU33H	1425	4384	0.33	1108 7.4 / 0.19	1045 7.2 / 0.19	979 6.9 / 0.19	901 6.7 / 0.19	821 6.5 / 0.19	730 6.3 / 0.19	622 6.1 / 0.19		
DU33H	1525	4691	0.33	1186 8.6 / 0.23	1127 8.4 / 0.23	1067 8.2 / 0.23	996 7.9 / 0.23	922 7.7 / 0.23	847 7.5 / 0.23	757 7.3 / 0.23	474 6.9 / 0.23	
DU33H	1625	4999	0.33	1264 9.9 / 0.28	1209 9.7 / 0.28	1153 9.5 / 0.28	1090 9.3 / 0.28	1020 9 / 0.28	950 8.8 / 0.28	876 8.7 / 0.28	688 8.3 / 0.28	
DU33H	1725	5306	0.33	1342 11.2 / 0.33	1290 11 / 0.33	1237 10.8 / 0.33	1181 10.6 / 0.33	1116 10.4 / 0.33	1051 10.2 / 0.33	984 10.1 / 0.33	831 9.7 / 0.33	595 9.4 / 0.33
DU50H	1070	3852	0.50	1397 5.8 / 0.13	1296 5.8 / 0.13	1193 5.8 / 0.13	1074 5.8 / 0.13	926 5.8 / 0.13	736 5.8 / 0.13			
DU50H	1170	4212	0.50	1528 6.9 / 0.17	1436 6.9 / 0.17	1343 6.9 / 0.17	1246 6.9 / 0.17	1122 6.9 / 0.17	979 6.9 / 0.17	801 6.9 / 0.17		
DU50H	1270	4572	0.50	1658 8.1 / 0.22	1573 8.1 / 0.22	1489 8.1 / 0.22	1400 8.1 / 0.22	1301 8.1 / 0.22	1185 8.1 / 0.22	1047 8.1 / 0.22		
DU50H	1370	4932	0.50	1789 9.4 / 0.28	1710 9.4 / 0.28	1632 9.4 / 0.28	1551 9.4 / 0.28	1469 9.4 / 0.28	1366 9.4 / 0.28	1259 9.4 / 0.28	975 9.4 / 0.28	
DU50H	1470	5292	0.50	1919 10.7 / 0.34	1846 10.7 / 0.34	1773 10.7 / 0.34	1699 10.7 / 0.34	1622 10.7 / 0.34	1542 10.7 / 0.34	1442 10.7 / 0.34	1217 10.7 / 0.34	910 10.7 / 0.34
DU50H	1570	5652	0.50	2050 12.2 / 0.42	1981 12.2 / 0.42	1913 12.2 / 0.42	1844 12.2 / 0.42	1773 12.2 / 0.42	1701 12.2 / 0.42	1619 12.2 / 0.42	1430 12.2 / 0.42	1191 12.2 / 0.42
DU50H	1670	6012	0.50	2181 13.8 / 0.50	2116 13.8 / 0.50	2052 13.8 / 0.50	1987 13.8 / 0.50	1922 13.8 / 0.50	1854 13.8 / 0.50	1786 13.8 / 0.50	1615 13.8 / 0.50	1418 13.8 / 0.50

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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
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
DU75H	775	3196	0.75	1712 4.4 / 0.21	1525 4.4 / 0.21	1314 4.4 / 0.21	1066 4.4 / 0.21					
DU75H	875	3608	0.75	1933 5.5 / 0.31	1770 5.5 / 0.31	1591 5.5 / 0.31	1392 5.5 / 0.31	1162 5.5 / 0.31	433 5.5 / 0.31			
DU75H	975	4020	0.75	2154 6.7 / 0.42	2007 6.7 / 0.42	1851 6.7 / 0.42	1683 6.7 / 0.42	1498 6.7 / 0.42	1288 6.7 / 0.42	709 6.7 / 0.42		
DU75H	1075	4433	0.75	2375 8 / 0.57	2242 8 / 0.57	2104 8 / 0.57	1957 8 / 0.57	1797 8 / 0.57	1625 8 / 0.57	1435 8 / 0.57		
DU75H	1175	4845	0.75	2596 9.4 / 0.74	2474 9.4 / 0.74	2352 9.4 / 0.74	2218 9.4 / 0.74	2083 9.4 / 0.74	1931 9.4 / 0.74	1772 9.4 / 0.74	1348 9.4 / 0.74	
DU85H	1025	4226	0.75	2135 10 / 0.17	2008 10 / 0.17	1871 10 / 0.17	1722 10 / 0.17	1546 10 / 0.17	1339 10 / 0.17	1047 10 / 0.17		
DU85H	1125	4639	0.75	2344 11.7 / 0.23	2228 11.7 / 0.23	2109 11.7 / 0.23	1974 11.7 / 0.23	1831 11.7 / 0.23	1667 11.7 / 0.23	1474 11.7 / 0.23		
DU85H	1225	5051	0.75	2552 13.6 / 0.29	2446 13.6 / 0.29	2338 13.6 / 0.29	2218 13.6 / 0.29	2094 13.6 / 0.29	1955 13.6 / 0.29	1804 13.6 / 0.29	1409 13.6 / 0.29	
DU85H	1325	5463	0.75	2760 15.5 / 0.37	2662 15.5 / 0.37	2563 15.5 / 0.37	2458 15.5 / 0.37	2343 15.5 / 0.37	2228 15.5 / 0.37	2094 15.5 / 0.37	1790 15.5 / 0.37	1369 15.5 / 0.37
DU85H	1425	5876	0.75	2969 17.7 / 0.46	2878 17.7 / 0.46	2785 17.7 / 0.46	2693 17.7 / 0.46	2587 17.7 / 0.46	2480 17.7 / 0.46	2373 17.7 / 0.46	2114 17.7 / 0.46	1809 17.7 / 0.46
DU85H	1525	6288	0.75	3177 20 / 0.57	3092 20 / 0.57	3006 20 / 0.57	2920 20 / 0.57	2827 20 / 0.57	2727 20 / 0.57	2627 20 / 0.57	2404 20 / 0.57	2147 20 / 0.57
DU85H	1625	6700	0.75	3385 22 / 0.68	3306 22 / 0.68	3225 22 / 0.68	3144 22 / 0.68	3063 22 / 0.68	2969 22 / 0.68	2875 22 / 0.68	2685 22 / 0.68	2457 22 / 0.68