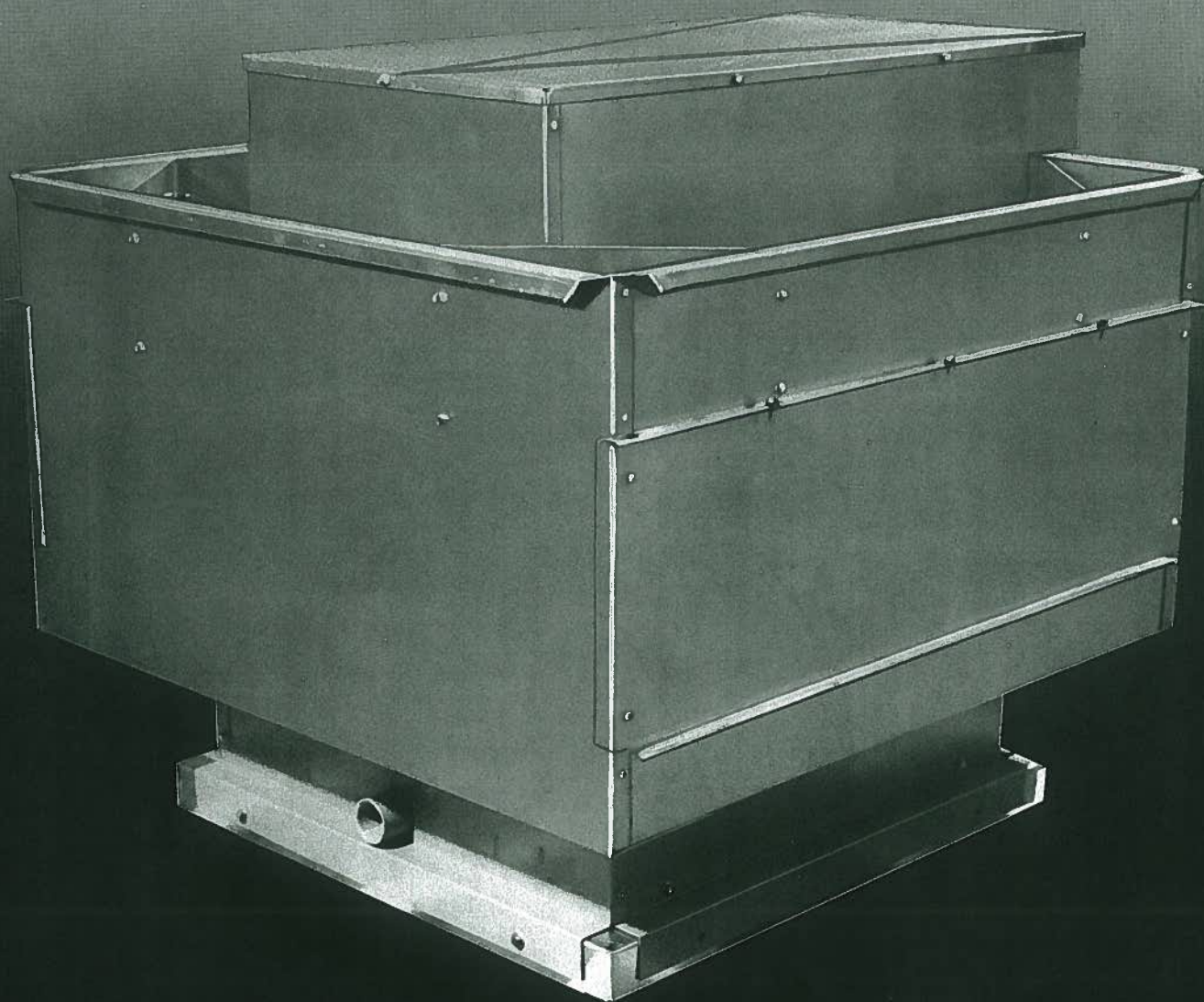


JUN 26 1991

Catalog Q-C60B

MARCH 1990

# **Centrifugal Upblast Roof Ventilators Direct & Belt Drive Models QUDB & QUBB**

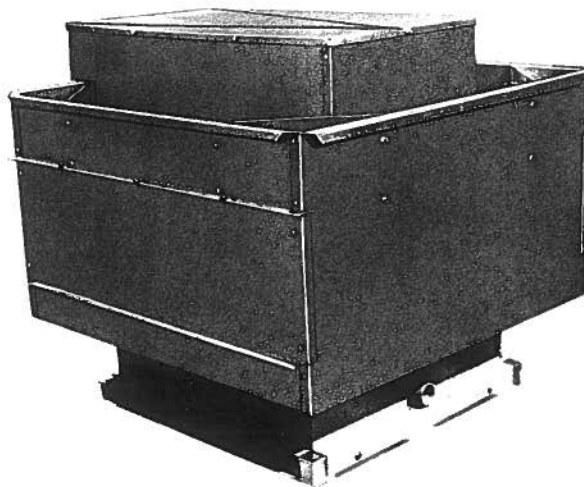


**Quietaire**

# UPBLAST ROOF EXHAUSTER

## VERTICAL DISCHARGE OF CONTAMINANTS

The Upblast Centrifugal Fan provides a vertical discharge high above the roof protecting roof surfaces from contaminant build-up and preventing contamination of air brought in by nearby intakes. Its suitability in applications such as commercial kitchens, chemical process and laboratories is enhanced by a legion of useful features integrated into its design.



## COMPACT AND EFFICIENT SQUARE DESIGN

The unique square design provides a superior combination of air handling efficiency, cool operation, unsurpassed accessibility and contemporary appearance. This thoroughly designed product provides advantages in structural rigidity and ease of maintenance enabling years of trouble-free and efficient service.

## POSITIVE MOTOR VENTILATION

Quietaires unique design provides a second impeller, integral with the fan impeller hub. This impeller draws large amounts of fresh air into the separate motor compartment, cooling the motor and drive assembly while insuring complete isolation from the exhaust air stream. Positive motor ventilation enables the use of cost effective open motors in the most difficult environments.

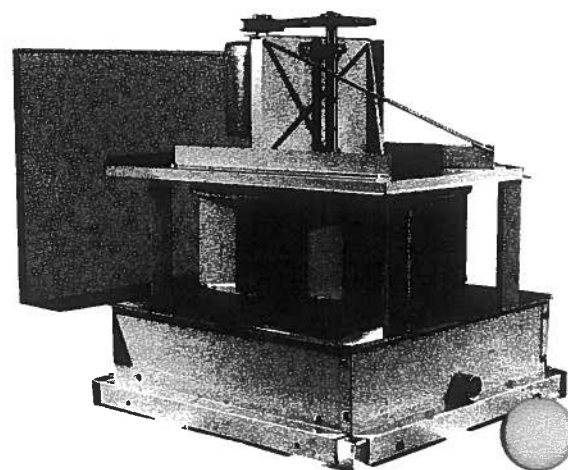
## EASY TO MAINTAIN AND CLEAN

Complete accessibility to all components utilizing easily removable panels enables routine maintenance to be performed quickly and effectively. Flat surfaces speed cleaning while an integral grease trough collects and drains these deposits before they become a serious and unsightly problem.

Unit Shown With  
Panels Removed  
For Routine Service  
And Cleaning

Ventilation Slots  
For Cooling Motor

Complete Drive Cover  
And Wheel Assembly  
Also Easily Removable



Grease Trough  
Drain

# Features

## ALUMINUM CONSTRUCTION

Corrosion resistant heavy gauge aluminum is used throughout, allowing maintenance-free operation.

## WEATHER PROTECTION

Ample drains and unitized construction protect against snow and rain.

## VARIABLE SPEED DRIVES

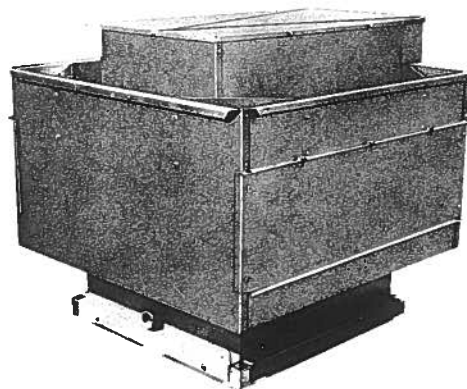
Cast iron variable speed drive sheaves are provided as standard equipment on belt driven units. Factory set at specified speed, these sheaves provide easy adjustment for final system balancing.

## QUALITY MOTORS

Sealed sleeve and ball bearing motors by nationally recognized manufacturers are utilized enabling years of operation with minimum maintenance. Single phase units have thermal overload protection as standard equipment.



The Quietaire Corp. certifies that the models shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program.



## RIDGED WIND BAND

Deep formed heavy gauge aluminum wind band assures excellent wind resistance and minimum vibration.

## WEATHER PROTECTED CONDUIT BOX

Provides a convenient external power connection point that is also suitable for disconnect mounting. External conduit connection required by U.L. for commercial kitchen ventilation.

## INTEGRAL GREASE TROUGH AND DRAIN

Unitized grease trough construction allows the collection and effective removal of liquid materials and utilizes a single point drain.

## MEDIAN AIRFOIL IMPELLERS

Specially shaped blades approximate an airfoil providing smooth, efficient air flow and less noise than flat blade designs. Their use in backward inclined, non-overloading centrifugal wheels with a precision matched venturi ensure maximum efficiency and low noise.

## UL AND CSA LISTING OPTIONS

Most Quietaire Upblast Fans are available as listed by Underwriters Laboratories under Standard 705 or 762 for grease laden air.



These fans are available as certified by the Canadian Standards Association Testing Laboratories.



# Performance Data

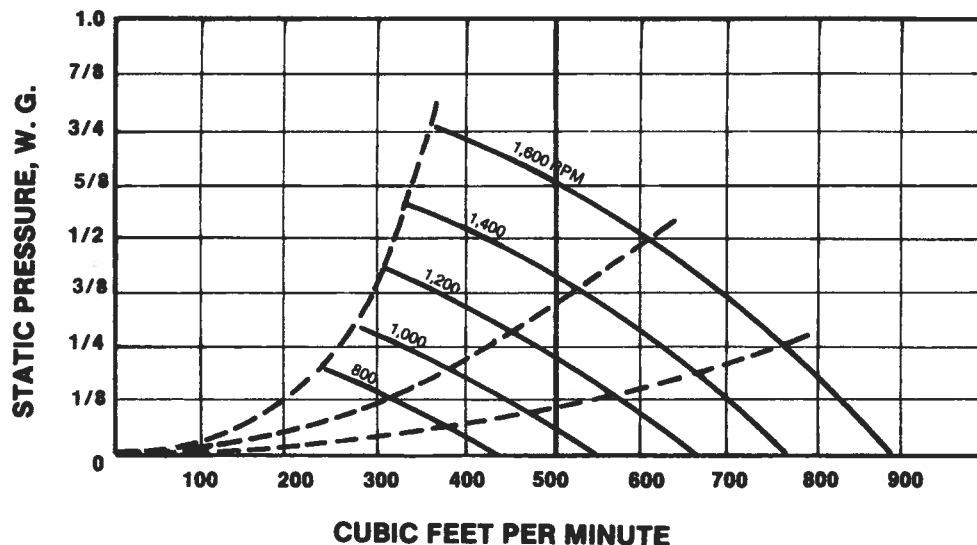
## Model QUIDB-10 Direct Drive Units

SIZE	MOTOR HP	NOMINAL RPM	TIP SPEED	STATIC PRESSURE, INCHES W.G.						
				1/8	1/4	3/8	1/2	5/8	3/4	7/8
				CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone
10-D3 with Speed Control	1/28 HP Standard Motor 116 Watts Maximum	700	1970	215 2.4						
		800	2250	305 3.3						
		900	2535	370 4.1	160 3.0					
		1000	2815	440 4.8	315 3.9					
		1100	3095	505 5.6	405 4.9	190 3.8				
10-D3	1/28 HP	1115	3140	515 5.7	415 5.0	225 4.0				
10-E2 with Speed Control	1/22 HP Std. Motor 178 Watts Maximum	1200	3380	570 6.4	475 5.8	360 4.9				
		1300	3660	630 7.2	545 6.7	460 5.9	285 5.0			
10-E2	1/22 HP	1350	3800	665 7.5	580 7.1	500 6.4	370 5.5			
10-F2 with Speed Control	1/20 HP Std. Motor 208 Watts Maximum	1400	3940	695 8.0	610 7.5	535 6.9	430 6.1	200 5.2		
		1500	4220	755 8.8	675 8.4	605 7.8	530 7.1	400 6.3	120 5.5	
10-F2	1/20 HP	1510	4250	760 8.9	685 8.5	610 7.9	540 7.2	415 6.4	150 5.6	
10-H2 with Speed Ctl	1/12 HP Std Mtr 264 Watts Max	1600	4500	815 9.7	740 9.3	670 8.8	605 8.2	520 7.4	365 6.6	60 5.8
				855 10.2	785 9.9	720 9.4	655 8.9	585 8.2	475 7.4	270 6.6

Note: Performance shown is for Centrifugal Roof Ventilators without ducts.  
AMCA Seal for sound rating does not apply to units with speed control.

\* RPM is nominal and the performance is based on actual speed of test.

The sound ratings shown are loudness values in fan sones at 5 ft., calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels.



The Quietair Corp. certifies that the models shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program.



# Performance Data

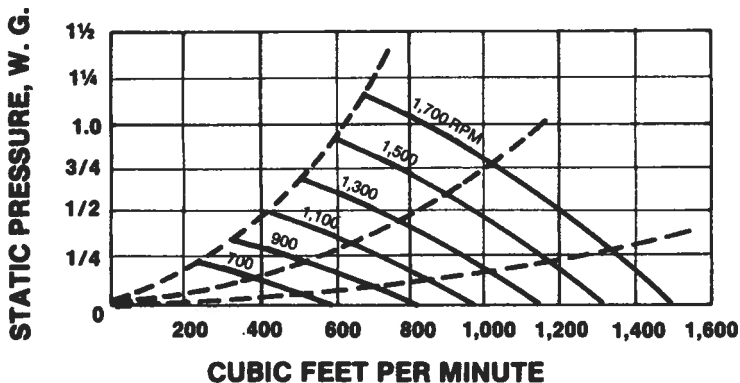
## Model QUDB-12 Direct Drive Units

SIZE	MOTOR HP	NOMINAL RPM	TIP SPEED	STATIC PRESSURE, INCHES W.G.						
				1/8	1/4	3/8	1/2	5/8	3/4	1
				CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone
12-J4 with Speed Control	1/8 HP Standard Motor .04 HP Max.	600	1880	290 4.8						
		700	2190	420 6.0						
		800	2490	535 7.2	325 7.0					
12-J4*	1/8 HP	1880	2750	630 8.2	455 8.0					
12-J3 with Speed Control	1/8 HP Standard Motor .09 HP Max.	900	2815	650 8.6	480 8.3					
		1000	3130	760 9.9	605 9.6	435 9.4				
		1100	3445	865 11.3	725 11.0	585 10.8				
12-J3*	1/8 HP	*1150	3600	920 12.1	780 11.7	650 11.5	490 11.3			
12-L5 with Speed Control	1/4 HP Standard Motor 24 HP Max.	1250	3927	1020 13.4	894 13.2	771 13.0	648 12.7	481 12.6		
		1350	4241	1120 14.9	1005 14.7	889 14.5	778 14.2	656 14.0		
		1450	4555	1217 16.5	1113 16.2	1004 16.0	899 15.8	794 15.5	674 15.4	
		1550	4869	1314 18.0	1219 17.7	1116 17.6	1016 17.4	919 17.1	819 16.9	
12-L5*	1/4 HP	*1625	5105	1385 19.2	1297 18.9	1199 18.7	1102 18.6	1009 18.4	917 18.1	804 17.8
12-L2*	1/4 HP	*1730	5415	1485 22	1405 21	1315 21	1220 21	1130 20.0	1045 19.8	865 19.5

Note: Performance shown is for Centrifugal Roof Ventilators with outlet ducts.  
AMCA Seal for sound rating does not apply to units with speed control.

\* RPM is nominal and the performance is based on actual speed of test.

The sound ratings shown are loudness values in fan sones at 5 ft., calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels.



The Quietaire Corp. certifies that the models shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program.

# Performance Data

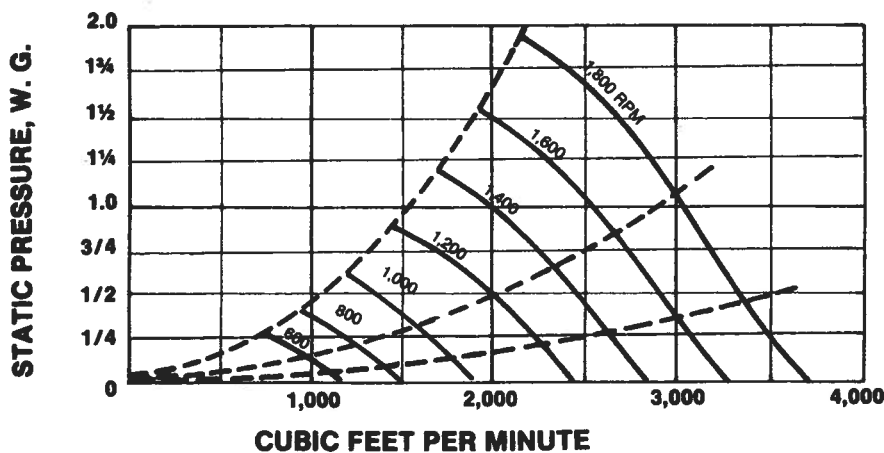
## Model QUIDB-15 Direct Drive Units

SIZE	MOTOR HP	NOMINAL RPM	TIP SPEED	STATIC PRESSURE, INCHES W.G.								
				1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2
				CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone
15-J4 with Speed Control	1/8 HP Std. Mtr. .11 HP Max.	500	1950	670 4.7								
		600	2335	940 6.1								
		700	2725	1170 7.5	925 7.4							
		800	3115	1400 9.1	1205 8.9	935 8.7						
15-L1	1/8 HP	840	3270	1480 9.7	1305 9.2	1060 9.4						
15-L3 with Speed Control	1/4 HP Std. Mtr. .21 HP Max.	900	3505	1625 10.7	1448 10.4	1265 10.3						
		1000	3895	1845 12.4	1680 12.1	1525 11.9	1345 11.8					
15-L5	1/4 HP	1040	4050	1935 13.1	1770 12.5	1625 12.6	1460 12.5	1235 12.4				
15-L7	.80 HP Max.	1175	4815	2400 17.6	2040 17.6	1834 17.6	1635 17.6	1440 17.6	1250 17.6	1050 17.6	850 17.6	650 17.6

**Note:** Performance shown is for Centrifugal Roof Ventilators without ducts.  
AMCA Seal for sound rating does not apply to units with speed control.

\* RPM is nominal and the performance is based on actual speed of test.

The sound ratings shown are loudness values in fan sones at 5 ft., calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels.



The Quietair Corp. certifies that the models shown here are licensed to bear the AMCA Seal. The ratings shown are based on made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program.

# Performance Data

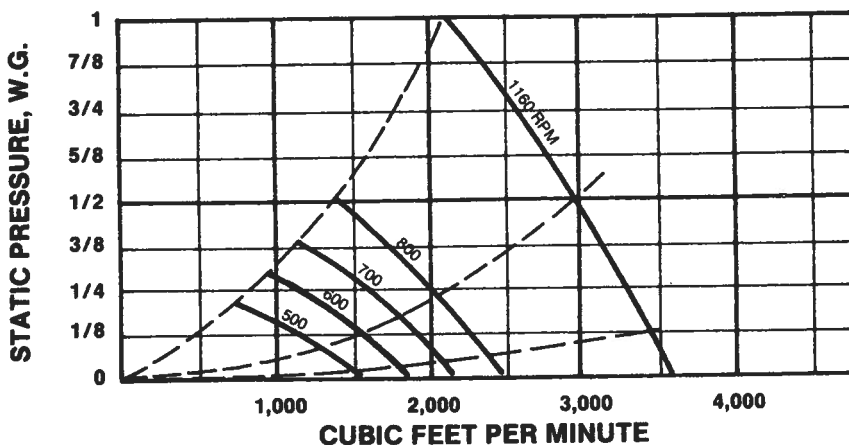
## Model QUIDB-18 Direct Drive Units

SIZE	MOTOR HP	NOMINAL RPM	TIP SPEED	STATIC PRESSURE, INCHES W.G.						
				1/8	1/4	3/8	1/2	5/8	3/4	1
				CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone	CFM Sone
18-L4 with Speed Control	1/4 HP Std. Mtr. .27 HP Max.	450	2097	954 3.1						
		500	2330	1168 4.2						
		550	2560	1365 5.1	899 4.7					
		600	2795	1547 6.1	1177 5.5					
		650	3030	1725 7.1	1411 6.7	871 6.3				
		700	3265	1900 8.3	1623 7.9	1255 7.2				
		750	3500	2072 9.6	1823 9.1	1514 8.6	999 7.9			
		800	3730	2242 11.0	2012 10.6	1747 10.1	1401 9.2			
18-L4*	1/4 HP	840	3920	2378 12.2	2158 11.7	1917 11.3	1624 10.8	1384 10.3		
18-P4*	.63 HP Max.	1100	3410	2493 22	2264 21	2109 21	2080 21	2779 20.0	2386 18.7	2147 18.2

**Note:** Performance shown is for Centrifugal Roof Ventilators without ducts.  
AMCA Seal for sound rating does not apply to units with speed control.

\* RPM is nominal and the performance is based on actual speed of test.

The sound ratings shown are loudness values in fan sones at 5 ft., calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels.



The Quietaire Corp. certifies that the models shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program.

## Model QUBB-12 Belt Drive

RPM Range—Motor HP						RPM	Tip Speed	STATIC PRESSURE, INCHES W.G.									
K1	K2	K3	L4	M5	P6			1/8	1/4	3/8	1/2	5/8	3/4	7/8	1.0	1-1/4	1-1/2
1/6	1/6	1/6	1/4	1/3	1/2			CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
						805	2529	544 .03 7.3	353 .03 7.0								
						900	2827	650 .04 8.5	478 .04 8.4								
						1015	3189	773 .05 10.1	623 .06 9.9	471 .06 9.7							
						1120	3519	881 .07 11.6	748 .08 11.3	608 .08 11.2							
						1200	3770	961 .09 12.7	839 .09 12.4	710 .10 12.3	580 .10 12.2						
						1320	4147	1079 .11 14.5	971 .12 14.1	855 .13 14.0	736 .13 14.0	620 .13 13.7					
						1400	4398	1157 .14 15.8	1056 .14 15.4	949 .15 15.1	837 .16 15.1	725 .16 15.1	619 .15 14.6				
						1500	4712	1253 .17 17.3	1160 .18 16.9	1062 .18 16.7	959 .19 16.5	854 .19 16.5	751 .19 16.4	652 .19 15.9			
						1635	5137	1381 .21 19.5	1297 .22 19.1	1209 .23 18.8	1117 .24 18.6	1021 .25 18.5	925 .25 18.5	830 .25 18.5	739 .25 18.0		
						1650	5184	1395 .22 19.7	1312 .23 19.4	1225 .24 19.0	1134 .25 18.8	1040 .25 18.8	944 .26 18.8	850 .26 18.7	759 .25 18.3		
						1760	5529	1498 .26 22	1422 .28 22	1341 .29 21	1257 .29 21	1170 .30 21	1081 .31 21	992 .31 21	903 .31 21		
						1815	5702	1550 .29 23	1476 .30 23	1398 .31 22	1317 .32 22	1234 .33 22	1148 .34 22	1061 .34 22	975 .34 22	889 .34 21	
						1835	5765	1568 .30 23	1495 .31 23	1419 .32 23	1339 .33 22	1256 .34 22	1172 .35 22	1086 .35 22	1001 .35 22	915 .35 21.0	
						1915	6016	1643 .33 25	1573 .35 24	1501 .36 24	1425 .37 24	1347 .38 24	1266 .39 23	1185 .40 23	1103 .40 23	1021 .40 23	
						1975	6205	1698 .37 26	1631 .38 25	1561 .39 25	1488 .41 25	1413 .42 24.0	1336 .42 24	1257 .43 24	1178 .44 24	1099 .44 24	1020 .44 24
						2000	6263	1721 .38 26	1655 .40 26	1586 .41 25	1515 .42 25	1441 .43 25	1365 .44 25	1287 .45 25	1209 .45 25	1131 .45 25	1052 .46 25
						2050	6440	1768 .41 27	1703 .42 27	1636 .44 26	1567 .45 26	1495 .46 26	1422 .47 26	1346 .48 25	1270 .48 25	1194 .48 25.0	1117 .49 25
						2100	6597	1814 .44 28	1751 .45 27.0	1686 .47 27	1619 .48 27	1549 .49 27	1478 .50 26.0	1405 .51 26	1331 .52 26	1258 .53 26	1181 .53 26

Note: Performance shown is for Centrifugal Roof Ventilators without ducts.

BHP does not include drive losses.

The sound ratings shown are loudness values in fan sones at 5 ft., calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels.

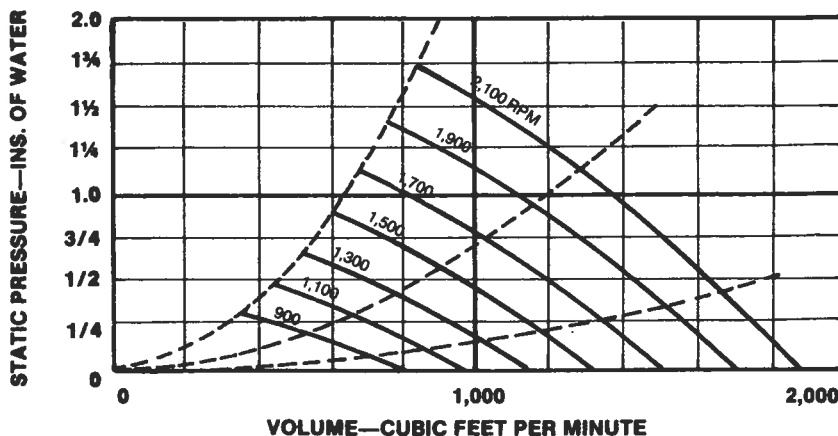


The Quietair Corp. certifies that the models shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program.

### DESIGN DATA:

$$\text{Maximum BHP} = 0.057 \times \left[ \frac{\text{RPM}}{1000} \right]^3$$

Outlet Velocity = .393 x CFM  
Maximum Motor Size = 56 Frame  
Tip Speed = 3.11 x RPM





# Performance Data

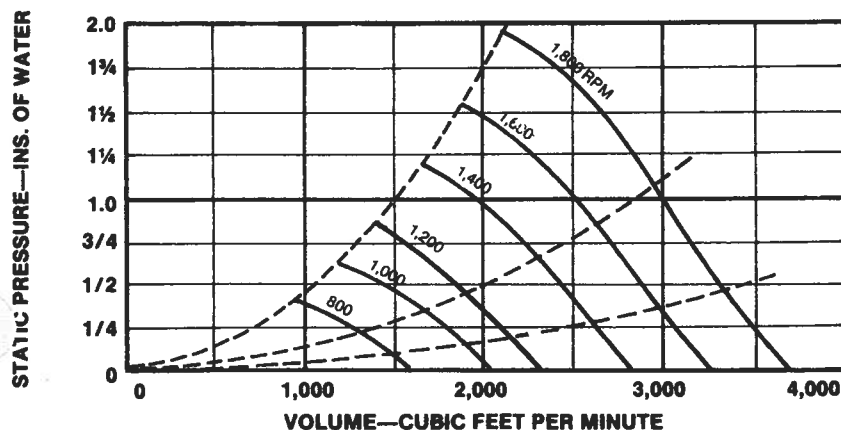
## Model QUBB-15 Belt Drive

RPM Range—Motor HP							RPM	Tip Speed	STATIC PRESSURE, INCHES W.G.											
K1	K2	L3	M4	P5	R6				1/8	1/4	3/8	1/2	5/8	3/4	7/8	1.0	1-1/4	1-1/2	1-3/4	
1/6	1/6	1/4	1/3	1/2	3/4				CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	
■	■						645	2511	1044 .05 6.8	728 .05 6.6										
	■	■					800	3114	1400 .08 9.1	1205 .09 9.0	933 .09 8.8									
		■	■				850	3309	1512 .09 9.9	1329 .11 9.8	1112 .11 9.6									
			■	■			1000	3893	1845 .15 12.4	1680 .16 12.2	1527 .18 12.1	1343 .18 11.9								
				■	■		1075	4185	2009 .18 13.7	1852 .20 13.5	1709 .21 13.3	1558 .23 13.2	1361 .23 13.0							
					■		1200	4672	2281 .25 16.0	2134 .27 15.6	2001 .28 15.5	1874 .30 15.4	1737 .31 15.3	1566 .32 15.1	1333 .31 14.9					
						■	1250	4866	2389 .28 16.9	2245 .30 16.6	2116 .32 16.4	1994 .34 16.3	1868 .35 16.2	1721 .36 16.0	1532 .36 15.8					
							1300	5061	2496 .31 17.9	2357 .33 17.5	2230 .35 17.3	2112 .37 17.2	1994 .39 17.1	1863 .40 16.9	1704 .41 16.8	1497 .40 16.6				
							1350	5256	2603 .34 18.8	2467 .37 18.4	2344 .39 18.2	2228 .41 18.1	2116 .43 18.0	1996 .44 17.9	1859 .45 17.7	1687 .45 17.6				
							1425	5547	2763 .40 21	2633 .43 19.8	2513 .45 19.6	2401 .47 19.5	2294 .49 19.4	2186 .51 19.3	2069 .53 19.1	1932 .53 19.0				
							1500	5839	2923 .47 22	2797 .49 22	2681 .52 21	2573 .54 21	2470 .56 21	2368 .58 21	2263 .60 21	2148 .62 21	1853 .62 21			
							1525	5937	2976 .49 23	2852 .51 22	2737 .54 22	2629 .56 22	2528 .59 22	2428 .61 22	2326 .63 22	2216 .64 21	1941 .65 21			
							1550	6034	3029 .51 23	2906 .54 23	2793 .56 22.0	2686 .59 22	2585 .61 22	2487 .64 22	2388 .66 22	2282 .67 22	2025 .69 22			
							1590	6190	3113 .55 24	2994 .58 24	2882 .60 23	2777 .63 23	2677 .66 23	2581 .68 23	2485 .70 23	2385 .72 23	2151 .74 22	1825 .73 22		
							1630	6346	3198 .59 25	3080 .62 25	2970 .65 24	2867 .67 24	2769 .70 24	2675 .73 24	2582 .75 24	2486 .77 23.0	2270 .80 23	1982 .79 23		
							1670	6501	3282 .64 26	3167 .66 25	3059 .69 25	2957 .72 25	2860 .75 25	2767 .77 24.0	2677 .80 24	2585 .82 24	2382 .85 24	2125 .86 24		

Note: Performance shown is for Centrifugal Roof Ventilators without ducts.

BHP does not include drive losses.

The sound ratings shown are loudness values in fan sones at 5 ft., calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels.



The Quietaire Corp. certifies that the models shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program.

### DESIGN DATA:

$$\text{Maximum BHP} = .184 \times \left[ \frac{\text{RPM}}{1000} \right]^3$$

Outlet Velocity = .252 x CFM  
Maximum Motor Size = 56 Frame  
Tip Speed = 3.88 x RPM

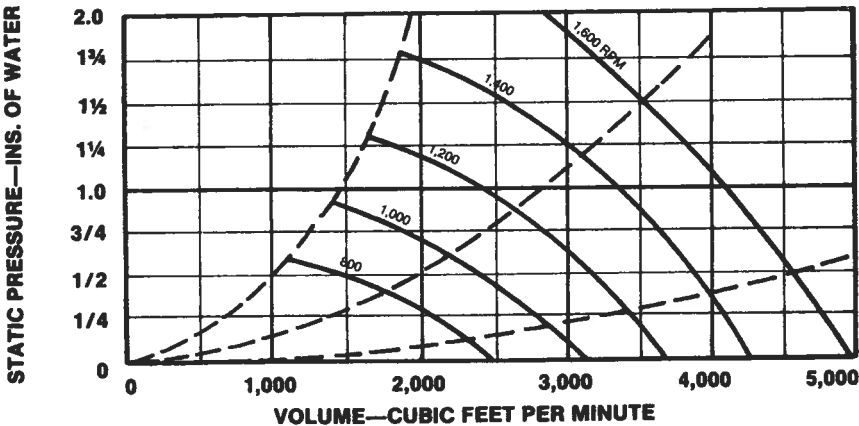
Model QUBB-18 Belt Drive

RPM Range—Motor HP							STATIC PRESSURE, INCHES W.G.												
K1	L2	M3	P4	R5	S6	T7	RPM	Tip Speed	1/8	1/4	3/8	1/2	5/8	3/4	1.0	1-1/4	1-1/2	1-3/4	2.0
1/6	1/4	1/3	1/2	3/4	1.0	1½			CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone	CFM BHP Sone
							575	2653	1457 .07 5.6	1045 .08 5.0									
							770	3553	2140 .16 10.1	1901 .18 9.7	1608 .19 9.2	1224 .18 8.3							
							850	3922	2411 .22 12.5	2194 .23 12.0	1958 .25 11.6	1672 .25 10.9	1251 .24 9.9						
							900	4153	2579 .25 14.0	2372 .27 13.6	2159 .29 13.2	1907 .30 12.7	1599 .30 11.6						
							950	4384	2745 .30 15.5	2548 .32 15.1	2355 .34 14.7	2131 .35 14.3	1868 .36 13.5	1541 .34 12.5					
							990	4568	2878 .333 16.8	2687 .36 16.3	2502 .38 16.0	2295 .39 15.6	2057 .40 15.1	1775 .40 14.1					
							1020	4707	2976 .36 17.7	2791 .39 17.3	2611 .41 16.9	2416 .43 16.5	2196 .44 16.2	1947 .44 15.2					
							1050	4845	3075 .39 18.5	2894 .42 18.1	2719 .44 17.7	2535 .46 17.3	2332 .48 16.9	2090 .48 16.2	1140 .39 14.4				
							1095	5053	3222 .44 19.6	3047 .47 19.2	2880 .49 18.9	2712 .52 18.5	2518 .53 18.2	2302 .54 17.8	1768 .53 16.1				
							1150	5306	3401 .51 21	3234 .54 21	3074 .57 21	2914 .59 20.0	2740 .61 19.7	2554 .63 19.4	2089 .62 17.9				
							1195	5514	3547 .57 22.0	3386 .60 22	3231 .63 22	3077 .65 22	2918 .68 21	2740 .69 21	2330 .71 19.5	1687 .65 18.0			
							1230	5675	3660 .62 23	3504 .65 23	3352 .68 23	3202 .71 23	3053 .73 22	2882 .75 22	2497 .77 21	2011 .75 19.2			
							1310	6045	3918 .74 25	3771 .78 25	3626 .81 25	3486 .84 25	3346 .87 25	3200 .89 24	2869 .93 24	2474 .93 22.0	1859 .86 21		
							1380	6368	4142 .86 27	4003 .90 27	3864 .94 27	3731 .97 27	3598 1.00 26.0	3464 1.03 26	3164 1.07 26	2815 1.09 25	2394 1.07 24		
							1400	6460	4207 .90 28	4069 .94 28	3932 .98 27	3800 1.01 27	3669 1.04 27	3538 1.07 27	3245 1.11 26	2909 1.14 26	2510 1.12 24.0	1832 1.02 23	
							1435	6621	4318 .97 29	4185 1.01 29	4051 1.05 28	3921 1.08 28	3793 1.11 28	3665 1.14 28	3387 1.19 28	3071 1.22 28	2710 1.22 26	2241 1.17 24.0	
							1480	6829	4462 1.06 31	4332 1.10 30	4203 1.14 30	4076 1.18 30	3952 1.21 29.0	3827 1.24 29	3566 1.29 29	3278 1.34 29	2933 1.34 28	2524 1.31 26	1455 1.03 25
							1600	7383	4844 1.33 35	4724 1.38 35	4604 1.42 35	4484 1.46 34.0	4369 1.50 34	4254 1.53 34	4024 1.60 33	3769 1.65 34	3493 1.69 32	3175 1.70 31	2802 1.67 30

Note: Performance shown is for Centrifugal Roof Ventilators without ducts.

BHP does not include drive losses.

The sound ratings shown are loudness values in fan sones at 5 ft., calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels.



The Quietaire Corp. certifies that the models shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program.

DESIGN DATA:  
Maximum BHP = .46 x  $\left[\frac{\text{RPM}}{1000}\right]^3$

Outlet Velocity = .218 x CFM  
Maximum Motor Size = 145T Frame  
Tip Speed = 4.65 x RPM

# Performance Data

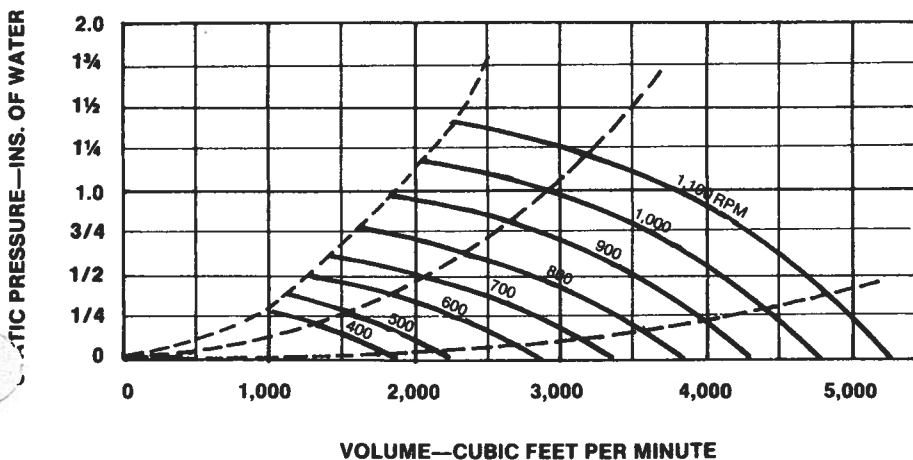
## Model QUBB-21 Belt Drive

RPM Range—Motor HP							RPM	Tip Speed	STATIC PRESSURE, INCHES W.G.																	
L1 1/4	M2 1/3	P3 1/2	R4 3/4	S5 1.0	T6 1½	1/8			1/4		3/8		1/2		5/8		3/4		1.0		1-1/4		1-1/2			
						CFM Sone			BHP Sone	CFM Sone	BHP Sone	CFM Sone	BHP Sone	CFM Sone	BHP Sone	CFM Sone	BHP Sone	CFM Sone	BHP Sone	CFM Sone	BHP Sone	CFM Sone	BHP Sone	CFM Sone	BHP Sone	
■	■	■	■	■	■	■	410	2361	1536 6.2	.07																
■	■	■	■	■	■	■	470	2707	1894 7.4	.10 7.6	988	.08														
■	■	■	■	■	■	■	550	3168	2339 9.3	.16 9.1	1961	.17														
■	■	■	■	■	■	■	625	3600	2747 11.3	.23 10.7	2450	.24 10.9	1957	.24												
■	■	■	■	■	■	■	690	3974	3093 13.1	.30 12.4	2821	.32 12.3	2523	.33 12.5	1846	.30										
■	■	■	■	■	■	■	755	4348	3432 14.9	.39 14.1	3182	.41 13.8	2939	.43 13.9	2587	.43 14.1	1791	.37								
■	■	■	■	■	■	■	790	4550	3612 15.9	.45 15.1	3375	.46 14.7	3143	.48 14.7	2865	.50 14.9	2324	.47								
■	■	■	■	■	■	■	830	4780	3816 17.1	.52 16.2	3593	.53 15.7	3371	.55 15.6	3136	.57 15.8	2764	.57 16.0	2015	.50						
■	■	■	■	■	■	■	880	5068	4068 18.6	.61 17.7	3863	.63 17.1	3650	.65 16.9	3442	.67 16.9	3179	.69 17.1	2723	.67						
■	■	■	■	■	■	■	900	5184	4169 19.2	.65 18.3	3971	.67 17.7	3761	.69 17.4	3559	.72 17.4	3321	.74 17.6	2938	.73						
■	■	■	■	■	■	■	950	5472	4418 21	.76 19.8	4237	.79 19.2	4037	.81 18.8	3845	.83 18.7	3645	.85 18.8	3377	.87 19.2	2173	.73				
■	■	■	■	■	■	■	1000	5760	4666 23	.89 22	4501	.92 21	4310	.93 21	4125	.96 20.0	3943	.98 20.0	3733	1.01 21	2949	.96				
■	■	■	■	■	■	■	1090	6278	5108 25.0	1.14 25	4968	1.18 24	4797	1.20 23	4623	1.22 23	4455	1.25 23	4288	1.27 23	3844	1.31 23	2904	1.19 23		
■	■	■	■	■	■	■	1140	6566	5352 27	1.30 26	5224	1.34 26	5065	1.37 26	4897	1.39 25	4734	1.41 25	4576	1.44 24	4212	1.49 24	3560	1.45 25	2179	1.15 25

Note: Performance shown is for Centrifugal Roof Ventilators without ducts.

BHP does not include drive losses.

The sound ratings shown are loudness values in fan sones at 5 ft., calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels.



The Quietaire Corp. certifies that the models shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program.

### DESIGN DATA:

$$\text{Maximum BHP} = 1.006 \times \left[ \frac{\text{RPM}}{1000} \right]^3$$

Outlet Velocity (FPM) = .202 x CFM  
Maximum Motor Size = 184T Frame  
Tip Speed = 5.759 x RPM

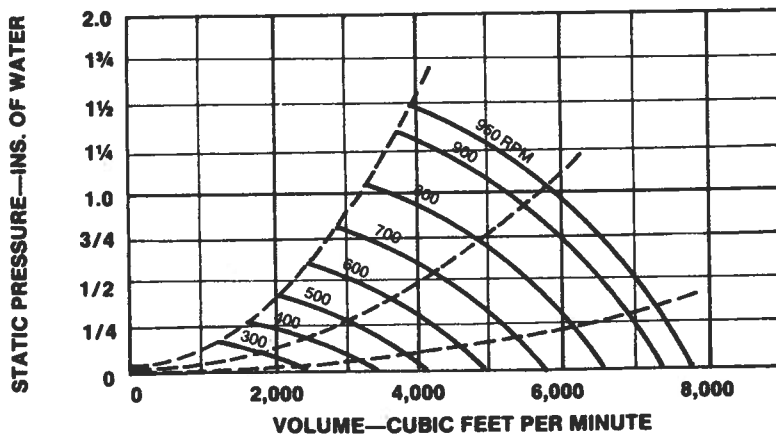
## Model QUBB-24 Belt Drive

RPM Range—Motor HP						RPM	Tip Speed	STATIC PRESSURE, INCHES W.G.																	
M1 1/3	P2 1/2	R3 3/4	S4 1.0	T5 1½	V6 2.0			1/8		1/4		3/8		1/2		5/8		3/4		1.0		1-1/4		2.0	
								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
1	2	3	4	5	6	370	2397	2406 5.4	.12																
1	2	3	4	5	6	425	2754	2939 6.7	.18	2184 6.1	.19														
1	2	3	4	5	6	530	3434	3870 9.4	.35	3472 8.7	.36	2823 8.2	.23												
1	2	3	4	5	6	565	3661	4171 10.4	.42	3818 9.6	.44	3308 9.1	.45	2443 8.6	.41										
1	2	3	4	5	6	590	3823	4384 11.1	.48	4054 10.3	.49	3612 9.8	.51	2907 9.3	.49										
1	2	3	4	5	6	615	3985	4596 11.8	.54	4285 11.0	.56	3894 10.4	.57	3305 10.0	.57	2374 9.5	.51								
1	2	3	4	5	6	645	4179	4849 12.6	.62	4557 11.9	.64	4210 11.3	.66	3724 10.8	.66	2989 10.4	.63								
1	2	3	4	5	6	695	4503	5268 14.0	.77	4999 13.3	.79	4705 12.7	.81	4328 12.2	.83	3804 11.8	.82	3052 11.3	.77						
1	2	3	4	5	6	725	4698	5518 14.9	.87	5261 14.2	.89	4988 13.6	.92	4656 13.0	.93	4214 12.6	.94	3601 12.2	.92						
1	2	3	4	5	6	765	4957	5851 16.0	1.02	5607 15.4	1.05	5356 14.8	1.07	5066 14.2	1.09	4702 13.8	1.10	4220 13.4	1.10						
1	2	3	4	5	6	805	5216	6182 17.2	1.18	5949 16.6	1.21	5715 16.0	1.24	5456 15.4	1.26	5146 15.0	1.28	4753 14.6	1.29	3573 13.8	1.21				
1	2	3	4	5	6	860	5572	6636 18.8	1.43	6417 18.3	1.47	6200 17.7	1.50	5971 17.1	1.52	5711 16.6	1.55	5400 16.2	1.57	4526 15.5	1.55	3130 14.6	1.35		
1	2	3	4	5	6	905	5864	7006 21	1.67	6797 19.7	1.71	6592 19.1	1.74	6380 18.6	1.76	6148 18.0	1.79	5881 17.6	1.81	5171 16.9	1.83	4091 16.1	1.73		
1	2	3	4	5	6	950	6156	7376 22	1.92	7175 22	1.97	6979 21	2.00	6781 20.0	2.03	6570 19.5	2.06	6334 19.0	2.08	5740 18.2	2.12	4879 17.6	2.08	3614 16.8	1.86

Note: Performance shown is for Centrifugal Roof Ventilators without ducts.

BHP does not include drive losses.

The sound ratings shown are loudness values in fan sones at 5 ft., calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels.



The Quietair Corp. certifies that the models shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program.

### DESIGN DATA:

$$\text{Maximum BHP} = 2.461 \times \left[ \frac{\text{RPM}}{1000} \right]^3$$

$$\text{Outlet Velocity (FPM)} = .155 \times \text{CFM}$$

$$\text{Maximum Motor Size} = 184\text{T Frame}$$

$$\text{Tip Speed} = 6.48 \times \text{RPM}$$

# Performance Data

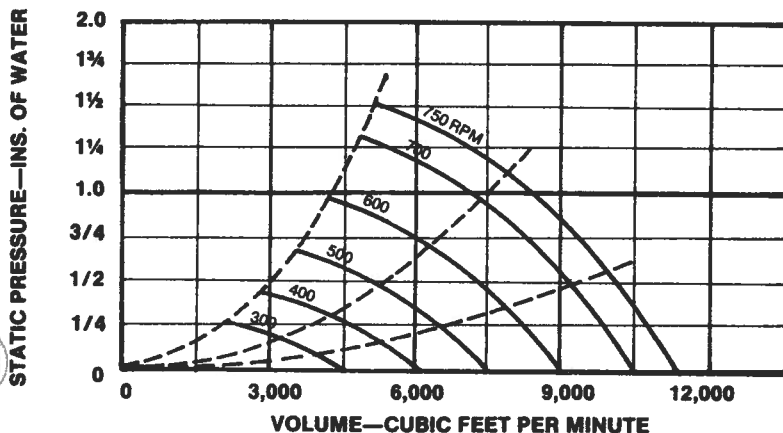
## Model QUBB-30 Belt Drive

RPM Range—Motor HP							RPM	Tip Speed	STATIC PRESSURE, INCHES W.G.																	
P1	P2	R3	S4	T5	V6	W7			1/8		1/4		3/8		1/2		5/8		3/4		1.0		1-1/4		1-1/2	
1/2	1/2	3/4	1.0	1 1/2	2.0	3.0			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
							240	1916	2282	.09																
									5.5																	
							280	2236	3268	.15																
									7.1																	
							320	2555	4011	.22	2492	.21														
									8.6		7.9															
							355	2835	4612	.29	3686	.30														
									9.9		9.4															
							390	3114	5196	.38	4499	.40														
									11.3		10.9															
							440	3513	6011	.54	5450	.57	4651	.57												
									13.2		13.1		12.5													
							455	3633	6253	.60	5715	.63	5016	.64												
									13.8		13.7		13.3													
							545	4352	7680	1.00	7240	1.05	6783	1.08	6226	1.10	5365	1.08								
									17.6		17.5		17.4		17.0		16.4									
							580	4631	8226	1.20	7815	1.25	7394	1.29	6927	1.32	6301	1.32	5327	1.28						
									19.1		19.0		19.0		18.7		18.2		17.7							
							615	4911	8769	1.43	8384	1.48	7990	1.53	7576	1.56	7080	1.58	6387	1.56						
									21		21		21		21		20.0		19.5							
							675	5390	9649	1.87	9347	1.93	8991	1.99	8629	2.04	8242	2.07	7782	2.08	6330	2.03				
									24		24		24		24		23.0		23		22					
							705	5629	10153	2.13	9824	2.19	9484	2.25	9140	2.30	8782	2.34	8381	2.37	7236	2.35				
									25		25		25		25		25		25		24					
							735	5869	10611	2.41	10299	2.47	9973	2.53	9644	2.59	9308	2.64	8947	2.67	8003	2.68	6376	2.58		
									27		27		27		26.0		26		26		26		24.0			
							775	6188	11220	2.82	10927	2.88	10620	2.95	10309	3.01	9994	3.07	9668	3.11	8894	3.15	7713	3.10		
									28.0		28.0		28		28		28		28		28		27			

Note: Performance shown is for Centrifugal Roof Ventilators without ducts.

BHP does not include drive losses.

The sound ratings shown are loudness values in fan sones at 5 ft., calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels.



The Quietair Corp. certifies that the models shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program.

### DESIGN DATA:

$$\text{Maximum BHP} = 6.792 \times \left[ \frac{\text{RPM}}{1000} \right]^3$$

Outlet Velocity (FPM) = .097 x CFM  
Maximum Motor Size = .215T Frame  
Tip Speed = 7.98 x RPM



Model QUBB-36 Belt Drive

RPM Range—Motor HP							RPM	Tip Speed	STATIC PRESSURE, INCHES W.G.																	
R1	R2	S3	T4	V5	W6	X7			1/8		1/4		3/8		1/2		5/8		3/4		1.0		1-1/4		1-1/2	
3/4	3/4	1.0	1½	2.0	3.0	5.0			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
							Sone		Sone		Sone		Sone		Sone		Sone		Sone		Sone		Sone			
							190	1828	2836	.12																
									5.6																	
							230	2213	4788	.22																
									7.3																	
							280	2694	6590	.40	4652	.38														
									9.6		9.4															
							300	2886	7231	.49	5664	.48														
									10.5		10.3															
							325	3127	8004	.61	6760	.63														
									11.8		11.5															
							345	3319	8607	.73	7543	.75	5810	.72												
									12.8		12.5		12.4													
							380	3656	9644	.96	8787	1.00	7512	.99												
									14.6		14.3		14.1													
							440	4233	11389	1.48	10717	1.53	9879	1.55	8727	1.54	7207	1.48								
									17.8		17.5		17.3		17.2		17.2									
							485	4666	12683	1.97	12085	2.03	11415	2.07	10558	2.08	9448	2.06	8059	1.99						
									21		20.0		19.8		19.6		19.5		19.5							
							530	5099	13970	2.55	13421	2.62	12850	2.68	12175	2.71	11334	2.72	10291	2.68						
									23		23		23		23		22.0		21.9							
							555	5340	14682	2.92	14154	2.99	13622	3.06	13015	3.10	12280	3.12	11381	3.11	9030	2.96				
									25		25		24		24		24		24		24					
							590	5676	15676	3.50	15173	3.58	14682	3.65	14147	3.71	13524	3.74	12779	3.75	10848	3.66	8313	3.41		
									27		27		26		26		26		26		26		26			
							625	6013	16668	4.15	16185	4.23	15725	4.31	15242	4.38	14699	4.43	14069	4.46	12463	4.42	10343	4.24		
									29		29		29		28		28		28		28		28			
							660	6350	17657	4.88	17193	4.97	16757	5.05	16311	5.13	15828	5.19	15281	5.23	13925	5.24	12146	5.13		
									31		31		31		30		30		30		30		30			

# Performance Data

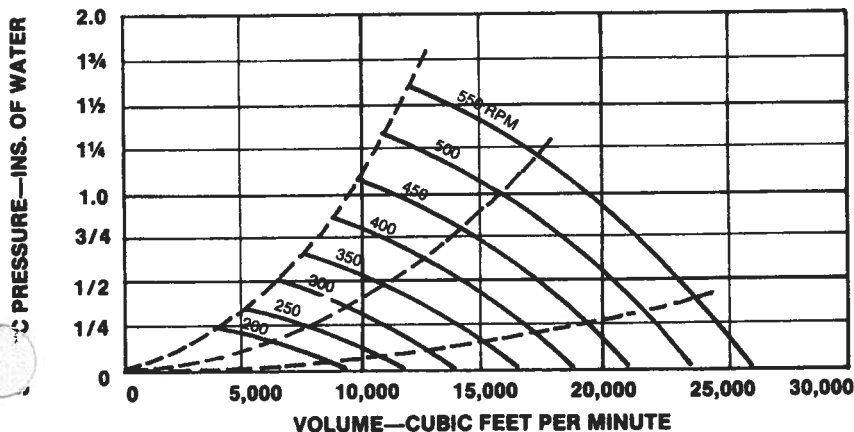
## Model QUBB-44 Belt Drive

RPM Range—Motor HP							RPM	Tip Speed	STATIC PRESSURE, INCHES W.G.														
									1/8		1/4		3/8		1/2		5/8		3/4		1.0		1-1/4
T2	V3	W4	X5	X6	Y7	CFM			BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1.0	1½	2.0	3.0	5.0	5.0	7½			Sone	Sone	Sone	Sone	Sone	Sone	Sone	Sone	Sone	Sone	Sone	Sone	Sone	Sone	Sone
							215	2505	8027	.45													
							240	2796	9481	.62	6934	.60											
							265	3087	10865	.83	8851	.84											
							295	3437	12466	1.14	10801	1.17	8583	1.11									
							325	3786	14023	1.51	12585	1.55	10871	1.54	8472	1.44							
							360	4194	15798	2.04	14557	2.10	13148	2.12	11453	2.08	9130	1.93					
							395	4602	17541	2.67	16455	2.75	15237	2.79	13874	2.79	12234	2.72	10068	2.56			
							410	4777	18281	2.98	17251	3.06	16098	3.11	14828	3.13	13356	3.08	11508	2.96			
							430	5010	19262	3.43	18300	3.52	17224	3.58	16053	3.61	14745	3.59	13190	3.50	8578	3.02	
							455	5301	20480	4.05	19594	4.15	18601	4.22	17530	4.27	16366	4.27	15050	4.23	11511	3.90	
							485	5650	21933	4.89	21125	5.00	20218	5.09	19244	5.15	18203	5.18	17071	5.17	14293	4.97	
							510	5942	23137	5.67	22386	5.79	21542	5.89	20635	5.96	19674	6.01	18648	6.02	16263	5.90	
							535	6233	24337	6.53	23636	6.66	22848	6.77	22001	6.85	21106	6.92	20162	6.95	18047	6.89	
							555	6466	25294	7.28	24628	7.42	23882	7.53	23077	7.63	22229	7.70	21338	7.75	19385	7.73	

Performance shown is for Centrifugal Roof Ventilators without ducts.

BHP does not include drive losses.

The sound ratings shown are loudness values in fan sones at 5 ft., calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels.



The Quietaire Corp. certifies that the models shown here are licensed to bear the AMCA Seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and AMCA Standard 300 and comply with the requirements of the AMCA Certified Ratings Program.

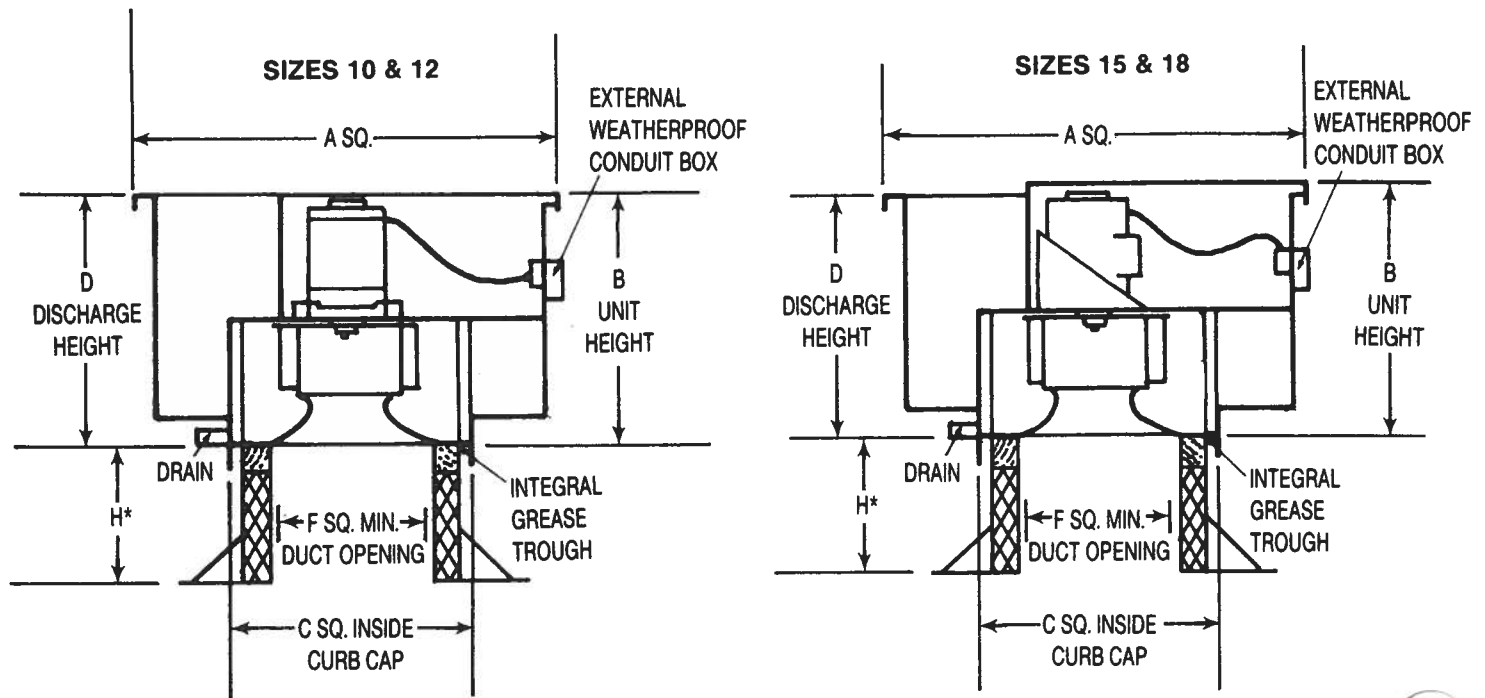
### DESIGN DATA:

$$\text{Maximum BHP} = 45.49 \times \left[ \frac{\text{RPM}}{1000} \right]^3$$

$$\begin{aligned} \text{Outlet Velocity (FPM)} &= .054 \times \text{CFM} \\ \text{Maximum Motor Size} &= 254T \text{ Frame} \\ \text{Tip Speed} &= 11.65 \times \text{RPM} \end{aligned}$$

## Dimensional Data

### Model QUDB – Direct Drive

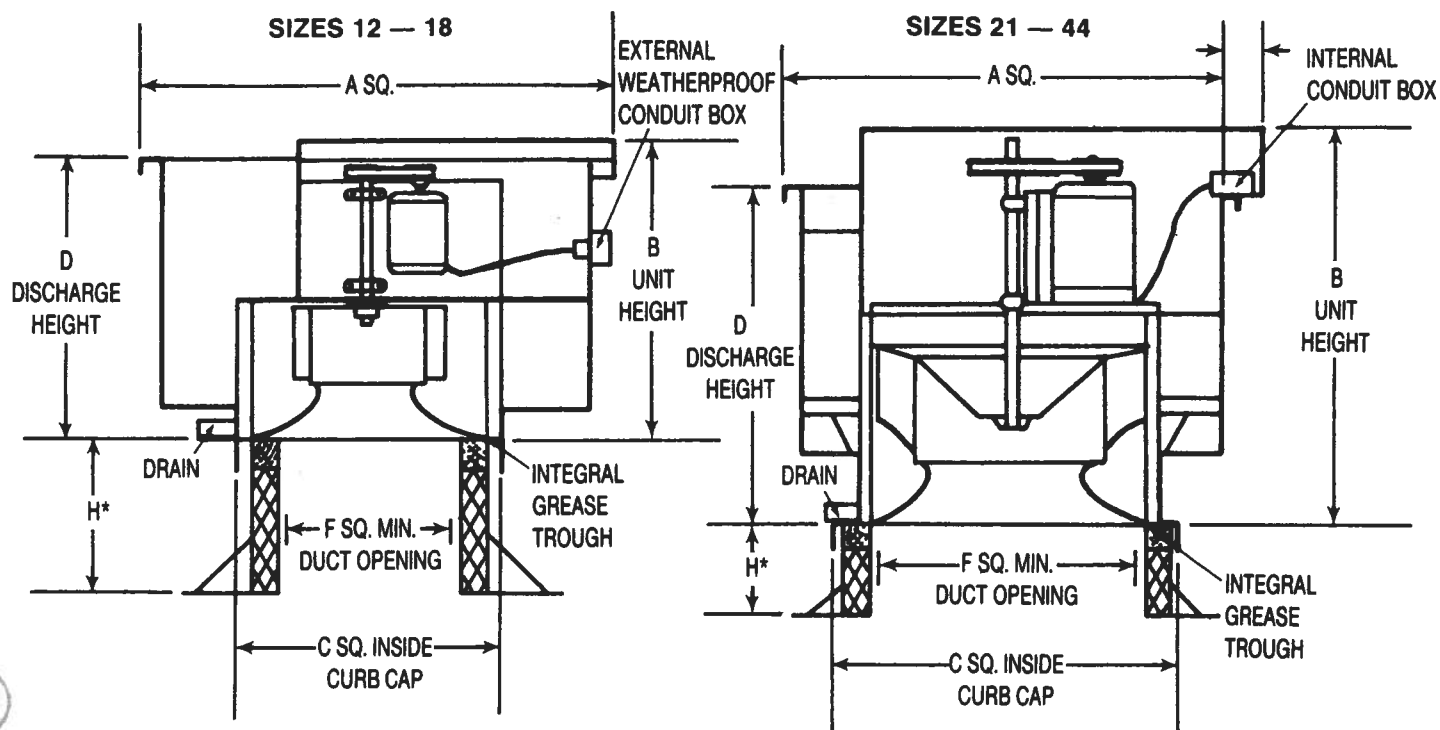


DIMENSIONS LISTED IN INCHES									
Model	A Width	B Unit Height	C Inside Curb Cap	D Discharge Height	F Sq. Min. Duct Op.	H* Curb Height	Curb OD	Damper Size	Unit Weight
QUDB 10	20½	18½	15¾	18½	11	22	14	10	40
QUDB 12	25½	24¼	17¾	24¼	13	16	16	12	70
QUDB 15	30	26½	20¾	25¾	16	15	19	15	90
QUDB 18	33	28¾	24¾	26¾	20	14	23	19	110

H\* = Roof curb height required for discharge 40" above roof specified in NFPA 96 for kitchen exhaust.

## Dimensional Data

### Model QUBB – Belt Drive



DIMENSIONS LISTED IN INCHES										
Model	A Wind Band	B Unit Height	C Inside Curb Cap	D Disch- Height	F Roof Opening	G	H* Curb Height	Curb OD	Damper Size	Weight
QUBB 12	25½	24¼	17¾	24¼	13	—	16	16	12	80
QUBB 15	30	26½	20¾	25¾	16	—	15	19	15	110
QUBB 18	33	28¾	24¾	26¾	20	—	14	23	19	150
QUBB 21	38	33	28	26¼	23	3	14	26½	22	200
QUBB 24	42	35¾	31	30	27	3	10	29½	26	240
QUBB 30	52	41¾	40	36½	35	3	±8	38½	34	360
QUBB 36	60	49¼	46	42	41	3	±8	44½	40	560
QUBB 44	69	55¼	54	48	49	3	±8	52½	48	850

±8" is minimum recommended curb height.

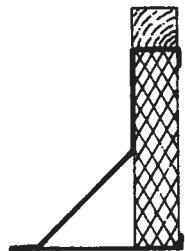
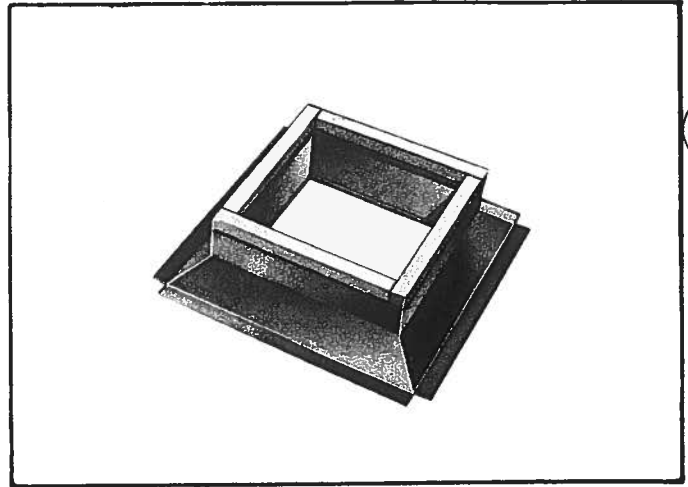
H\* = Roof curb height required for discharge 40" above roof specified in NFPA 96 for Kitchen Exhaust.

## ROOF CURBS

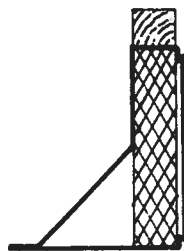
Roof curbs Models JCFAAG galvanized and JCFAA aluminum are of welded construction with 1½" fiberglass insulation and wood nailer. Standard heights are 8" and 12" with custom heights available.

For pitched roofs pitched curbs are available with standard cant for minor slopes (to approximately 2" per ft.) or "self-flashing" wide flange without cant for steeper pitches.

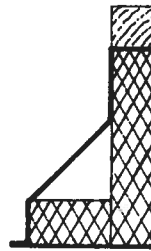
Roof curb modifications include a metal liner to prevent contamination of the insulation, raised cant for use with insulated roof decks and a damper shelf to support a backdraft damper inside the curb.



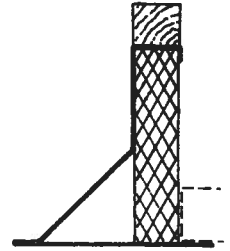
Standard  
JCFAAG and JCFAA



With Inside  
Liner



Raised Cant

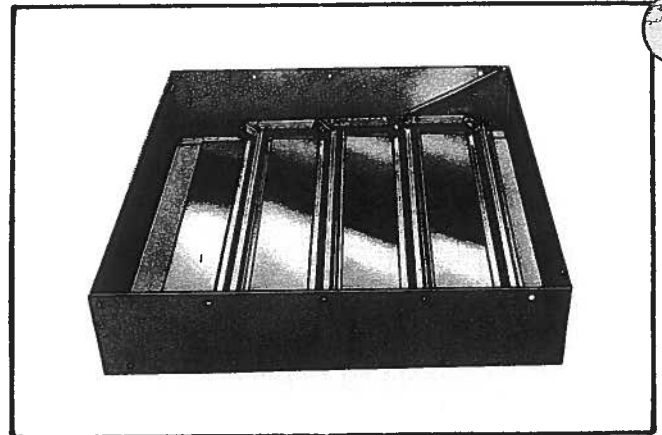


Optional Damper  
Shelf

## BACKDRAFT DAMPERS

Quietaire Model QDHAA automatic gravity dampers are available to prevent backflow when units are shut down. Damper frames are heavy duty box type. Blades are aluminum with felt edges and are linked together for quiet operation. A counterbalance spring is adjustable for tension to provide minimum resistance to air flow.

Motorized operation (JDHAM) may be provided by adding the motor pack available for 115 or 208/230 volt operation. Transformers are available for 460 volt operation.



## ACID RESISTANT COATING

Quietaire's **ACID RESISTANT COATING** consists of a two component catalyst based, modified epoxy polyamid finish over primer. It is a universal corrosion resistant finish for roof ventilation applications where acids, alkalies, salts or solvents are mixed with exhaust air from laboratory hoods, industrial processes, battery rooms and other applications.

## PRIME COAT

Quietaire's **PRIME COAT** finish is electro coated on small sizes and sprayed on large sizes. The prime coat provides a base for field painting to match background paint colors.

## SCREEN

Aluminum or PVC coated galvanized birdscreen or aluminum insect screen options are available.



## WARRANTY

**Warranty and Disclaimer:** Quietaire Corporation extends this limited warranty to the original buyer and warrants that products manufactured by Quietaire shall be free from original defects in workmanship and materials for one year from date of shipment, provided same have been properly stored, installed service, maintained and operated. This warranty shall not apply to products which have been altered or repaired in any way so as to effect its performance, without Quietaire's express authorization, or altered or reliability, nor which have been improperly installed or subjected to misuse, negligence, or accident, or incorrectly used in combination with other substances. The Buyer assumes all risks and liability for results of; use of the products. Warranties on purchased parts, such as electric motor and controls are limited to the terms of warranty extended by our supplier.

**Limitation Of Remedy And Damages:** All claims under this warranty must be made in writing and delivered to Quietaire Corporation 505 North Hutcheson, Houston, Texas 77003 within 15 days after discovery of the defect and prior to the expiration of one year from the date of shipment by Quietaire of the product claimed defective, and Buyer shall be barred from any remedy if Buyer fails to make such claim within such period.

Within 30 days after receipt of a timely claim, Quietaire shall have the option either to inspect the product while in Buyer's possession or to request Buyer to return the product to Quietaire at Buyer's expense for inspection by Quietaire. Quietaire shall replace, or at its option repair, free of charge, any product it determines to be defective, and it shall ship the repaired or replacement product to Buyer F.O.B. point of shipment; provided, however, if circumstances are such as Quietaire judgment to prohibit repair or replacement to remedy the warranted defects, the buyer's sole and exclusive remedy shall be a refund to the buyer of any part of the invoice price, paid to Quietaire for the defective product or part.

Quietaire is not responsible for the cost of removal of the defective product or part, damages due to removal, or any expenses incurred in shipping the product or part to or from Quietaire plant, or the installation of the repaired or replaced product or part.

Implied warranties, when applicable, shall commence upon the same date as the express warranty provided above, and shall except for warranties of title, extend only for the duration of the express warranty provided above. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. The only remedy provided to you under an applicable implied warranty and the express warranty shall be the remedy provided under the express warranty, subject to the terms and conditions contained therein. Quietaire shall not be liable for incidental and consequential losses and damages under the express warranty, any applicable implied warranty, or claims for negligence, except to the extent that his limitation is found to be unenforceable under applicable state law. Some states do not allow exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. The warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

No employee, agent, dealer, or other person is authorized to give any warranties on behalf of Quietaire or to assume for Quietaire any other liability in connection with any of its products except in writing and signed by an officer of Quietaire.

**Technical Advice And Recommendation, Disclaimer:** Notwithstanding any past practice or dealings or any custom of the trade, sales shall not include the furnishing of technical advice or assistance or system design. Any such assistance shall be at Quietaire sole option and may be subject to additional charge.

Quietaire assumes no obligation or liability on account of any recommendations, opinions, or advice as to the choice, installation or use of products. Any such recommendations, opinions or advice are given and shall be accepted at your own risk and shall not constitute any warranty or guarantee of such products or their performance.

