



## MODEL CTB

TUBULAR CENTRIFUGAL INLINE BELT DRIVEN FAN

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## TUBULAR CENTRIFUGAL INLINE BELT DRIVEN FAN



### MODEL FEATURES

- Rated up to 20,000 CFM in static pressure applications up to 2-1/2" w.g.
- Motor and drives are located outside of the airstream
- Ideal for applications where space is limited
- Belt drives permit easy performance adjustments when needed
- Continuously welded and epoxy painted steel housing
- For indoor use only
- AMCA Air & Sound Certified
- cULus 705 or 762 Listed

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### MODEL OVERVIEW

S&P's Inline Tubular Centrifugal (CTB) series offers one of the widest ranges of sizes, horsepower, and performance in the industry. Models CTB are high capacity belt drive tubular centrifugal fans rated from 300 to 20,000 CFM, with static pressure capability up to 2-1/2". These fans are designed for commercial and industrial in-line applications that demand quiet, efficient and reliable air movement. They are used to exhaust air from or supply air to commercial and industrial applications, such as, general building ventilation, enclosed garages, paint spray booths, heat and smoke ventilation systems, restaurant and kitchen exhaust ventilation, historical buildings with limited roof space and restrictive duct lengths, and other applications where air is moved through a duct system against moderate static pressure.

The CTBRHUL is specifically suited for restaurant exhaust where roof space is limited; sidewall mounted fans are prohibited, or duct lengths are restricted. The CTBRHUL is also perfect in areas where extreme weather and outside air temperatures are a concern when maintenance on the fan is needed.

The centrifugal wheel is designed to provide higher efficiencies and lower sound levels than propeller type fans when used in medium pressure duct systems. Tubular centrifugal fans can be mounted in any position providing for installations in the smallest possible space.

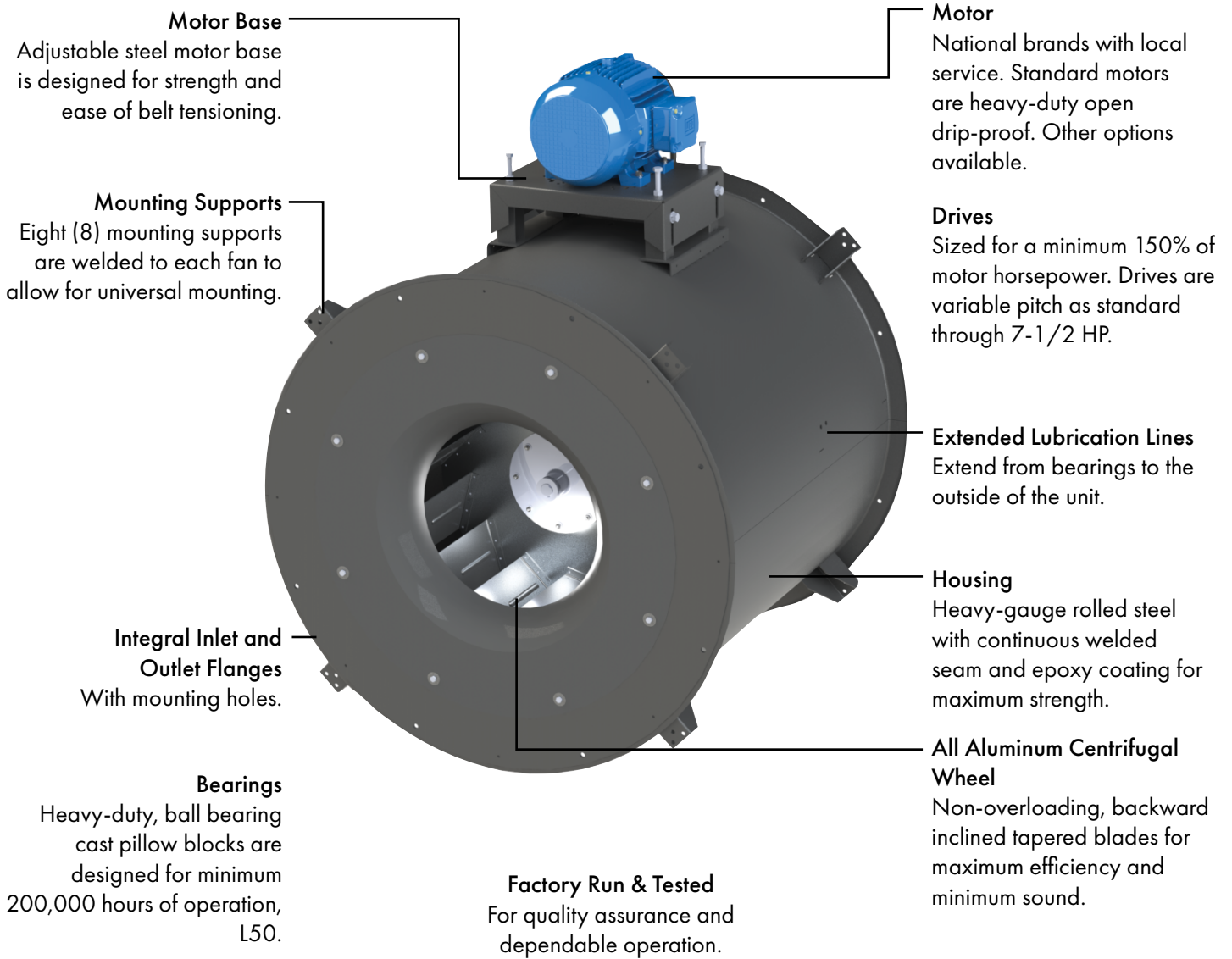
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### APPLICATION CONSTRUCTION OPTIONS

MODEL NAME	TYPICAL APPLICATIONS
CTB	Removal of clean or contaminated air in general applications
CTBRHUL	cULus 762 listed for grease removal

# STANDARD CONSTRUCTION FEATURES

## Model CTB



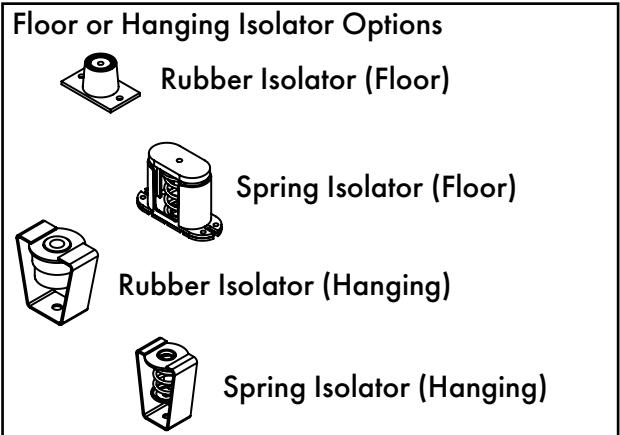
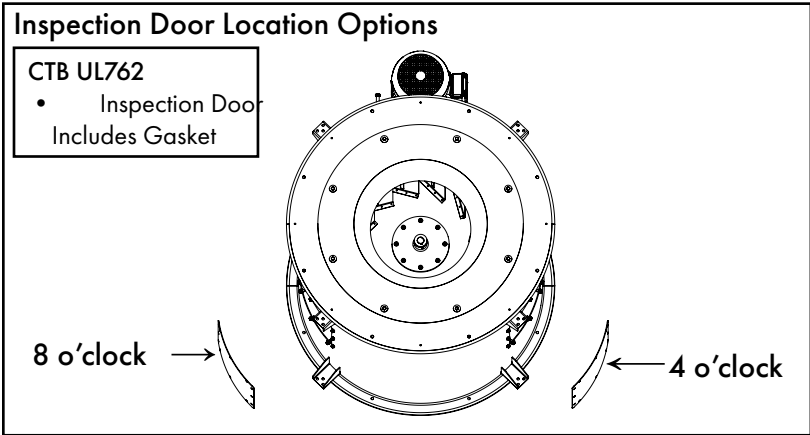
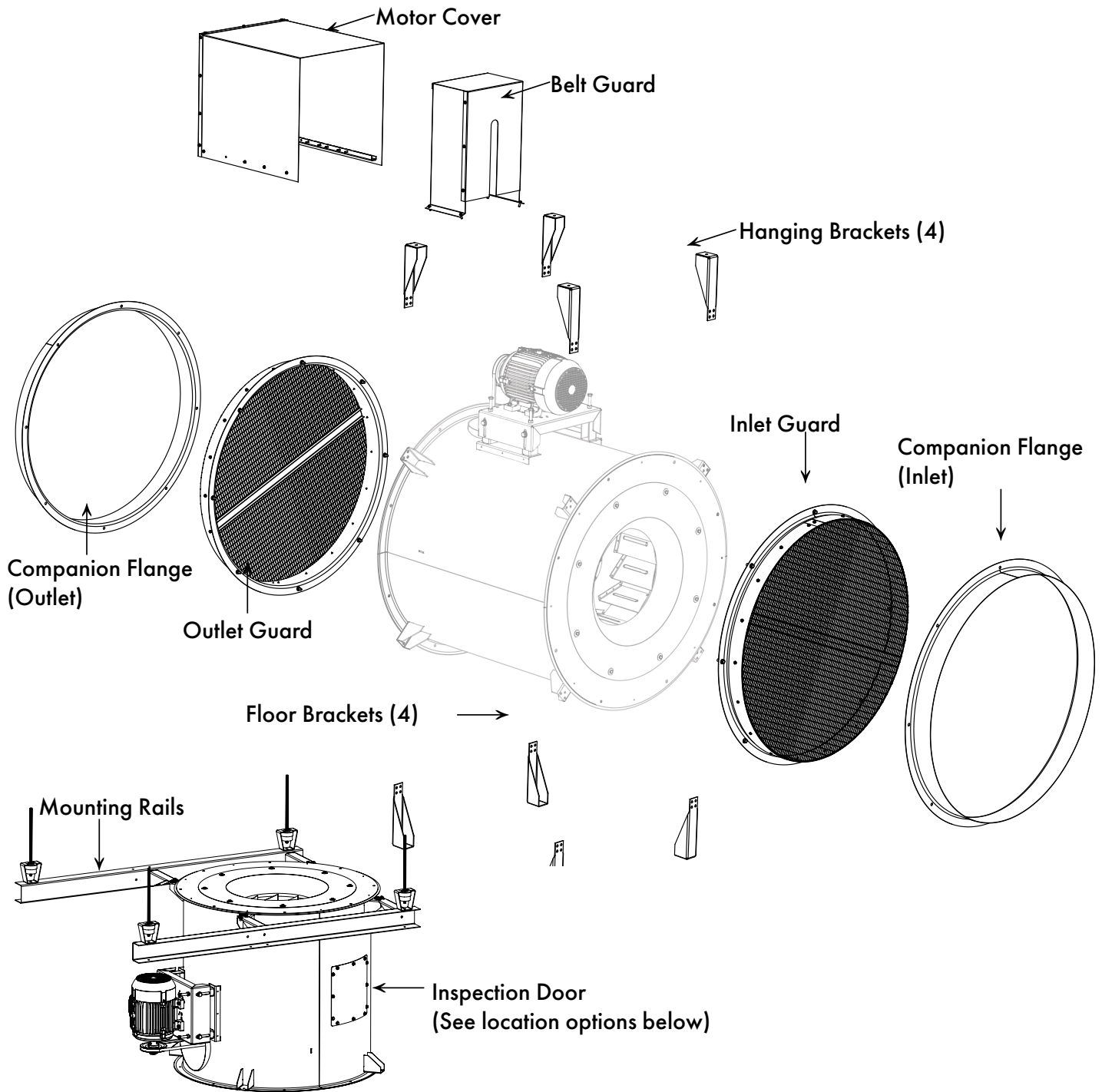
**AMCA Seal**  
Assures certified rating of air and sound performance.



cULus 705 Listed  
For electrical reliability.

2 year fan housing warranty, 1 year motor warranty

# OPTIONS/ACCESSORIES



## OPTIONS/ACCESSORIES

**Hanging & Floor Brackets:** For base or ceiling mounting. Neoprene and spring isolators are available.

**Mounting Rails:** Designed for vertical and horizontal mounting. Rail kits include mounting brackets.

**Inlet/Outlet Guard:** Prevents objects from entering the fan inlet or outlet. Includes companion flange.

**Inspection Door:** For inspection and blade service/cleaning. Bolted. UL762 inspection door option includes gasket.

**Companion Flanges:** Inlet and/or outlet flanges are available for duct connection.

**Belt Guard:** Encloses belt and motor sheave on exterior of fan.

**Motor Cover:** Three sided guard that covers motor, sheave and belt. Motor may extend past cover on sizes 9 and 11.

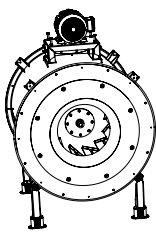
**Shaft Seal:** Protects bearings and belts when fan is handling dirty or contaminated air.

**Disconnect Switch:** Nonfused safety disconnect available for all motor sizes and enclosures. Specify prewired if desired. (Wiring not available on explosion proof and two speed motors).

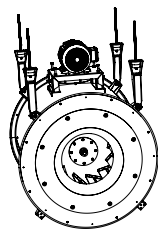
**Special Coatings (Epoxy Coating is Standard):** For protective and decorative purposes. Available coatings include: Synthetic Resin and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.

## MOUNTING CONFIGURATIONS

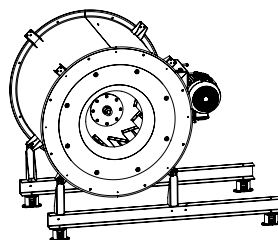
Floor Mount



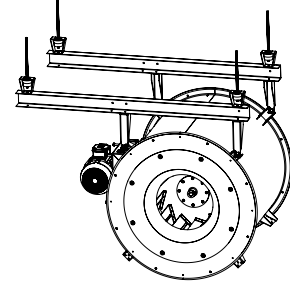
Hanging Mount



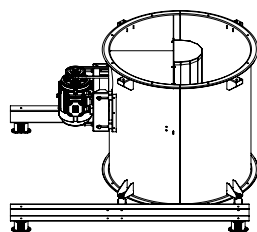
Rail Floor Mount



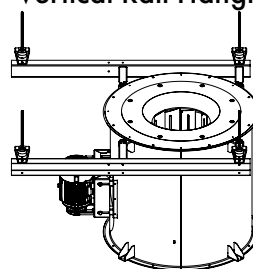
Rail Hanging Mount



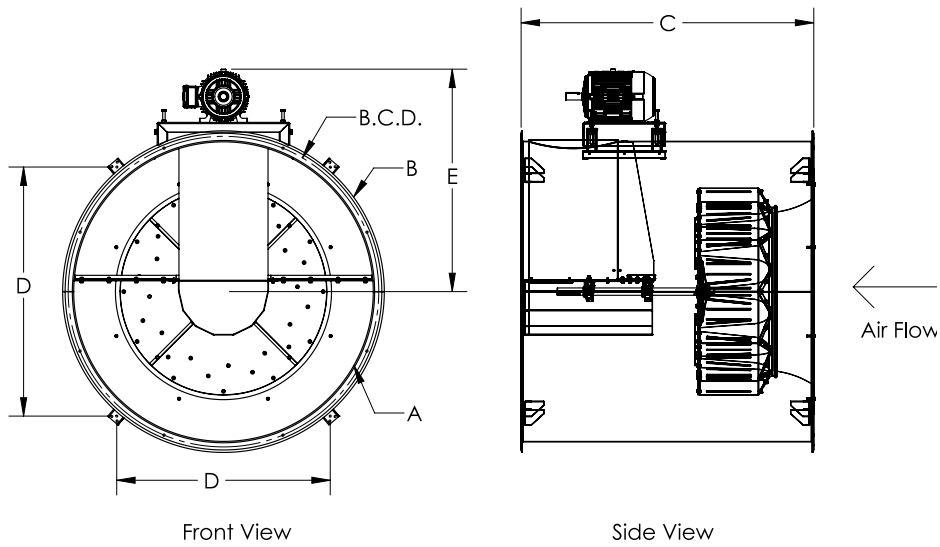
Vertical Rail Floor Mount



Vertical Rail Hanging Mount



## DIMENSIONS/PHYSICAL DATA



Model No.	Housings				B.C.D.	E (Max)	Holes			Shaft Size	Max Motor Frame	Steel Housing Gauges	Avg. Ship Wt. (Lbs)
	I.D. A	O.D. B	Length C	D			Dia.	CTB #	CTBRHUL #				
9	18-3/8	22-1/2	23*	17-15/16	19-3/4	24	7/16"	8	16	5/8"	56	14	125
11	18-3/8	22-1/2	23*	17-15/16	19-3/4	24	7/16"	8	16	5/8"	143T	14	126
13	20-3/8	24-1/2	24-1/2	18-3/8	21-3/4	25	7/16"	8	18	3/4"	145T	14	130
15	24-3/8	28-9/16	25-1/2	21-1/4	25-3/4	29	7/16"	8	20	3/4"	182T	12	170
18	30-3/8	34-9/16	31	25-1/2	32	31	7/16"	8	26	1"	182T	12	236
22	36-3/8	40-9/16	35-1/2	29-13/16	38	33-1/2	7/16"	8	30	1-3/16"	182T	12	296
24	42-1/2	47	42	34-1/8	44-1/4	34-1/2	7/16"	8	36	1-1/2"	184T	10	420

\* Motor may extend past unit

# PERFORMANCE/DIMENSIONS

## Size 9

CFM	OV	Static Pressure (Inches W.G.)																	
		0.125		0.25		0.5		0.75		1		1.25		1.5		1.75		2	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones	
300	164	843	0.02	1025	0.04	1329	0.08	1587	0.13										
		3.3		4.9		8.7		12.4											
350	191	921	0.03	1087	0.05	1370	0.09	1615	0.14	1834	0.19	2034	0.26						
		4.1		5.5		9		12.8		16.9		21							
400	219	1003	0.04	1157	0.05	1421	0.10	1653	0.15	1862	0.21	2055	0.27	2234	0.34				
		4.9		6.3		9.4		13.3		17.3		21		25					
450	246	1088	0.05	1231	0.06	1480	0.11	1699	0.16	1899	0.23	2084	0.29	2257	0.37	2421	0.44	2575	0.52
		5.9		7.3		10		14		17.8		21		25		29		33	
500	273	1175	0.06	1310	0.08	1544	0.13	1751	0.18	1943	0.25	2120	0.31	2288	0.39	2446	0.47	2596	0.55
		6.8		8.2		10.8		14.7		18.4		22		26		29		33	
550	301	1264	0.07	1391	0.09	1613	0.14	1810	0.20	1992	0.27	2163	0.34	2325	0.41	2478	0.50	2624	0.58
		7.9		9.1		11.8		15.6		19.1		23		27		30		34	
600	328	1354	0.08	1475	0.11	1686	0.16	1874	0.22	2048	0.29	2212	0.36	2368	0.44	2516	0.53		
		8.8		10		13.2		16.5		19.9		24		27		31			
650	355	1445	0.10	1561	0.13	1762	0.19	1942	0.25	2109	0.32	2266	0.39	2416	0.47	2559	0.56		
		9.8		11.1		14.4		17.7		21		25		28		32			
700	383	1538	0.12	1648	0.15	1841	0.21	2012	0.28	2174	0.35	2325	0.43	2469	0.51	2607	0.6		
		10.8		12.5		15.8		18.8		22		26		29		33			
750	410	1631	0.14	1736	0.18	1922	0.24	2088	0.31	2242	0.39	2388	0.46	2526	0.55				
		12.2		13.9		17.2		20		24		27		30					
800	437	1724	0.17	1826	0.2	2004	0.27	2164	0.35	2313	0.42	2454	0.5	2588	0.59				
		13.9		15.6		18.7		22		25		28		31					
850	464	1819	0.2	1917	0.24	2088	0.31	2242	0.38	2386	0.46	2522	0.55						
		15.5		17.2		20		23		27		30							
900	492	1915	0.23	2007	0.27	2174	0.35	2323	0.43	2461	0.51	2594	0.6						
		17.2		18.8		22		25		28		31							
950	519	2009	0.27	2100	0.31	2259	0.39	2405	0.47	2539	0.56								
		18.9		20		24		27		29									
1000	546	2106	0.31	2192	0.35	2348	0.44	2487	0.52	2619	0.61								
		21		22		25		28		31									
1050	574	2202	0.35	2285	0.4	2436	0.49	2573	0.58										
		23		24		27		30											
1100	601	2297	0.4	2378	0.45	2526	0.54												
		24		26		29													
1150	628	2395	0.45	2473	0.5	2616	0.6												
		27		28		31													
1200	656	2491	0.51	2568	0.56														
		29		30															

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (bhp) includes transmission losses. Performance ratings do not include the effects of appurtenances.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type: B free inlet hemispherical sone levels.



S&P USA Ventilation Systems, LLC., Div. of Soler & Palau Ventilation Group certifies that the Models CTB shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



UL STANDARD 705 for Electrical  
UL STANDARD 762 for  
Grease Removal

# Size 11

CFM	OV	Static Pressure (Inches W.G.)																			
		0.125		0.25		0.5		0.75		1		1.25		1.5		1.75		2		2.25	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones	
500	275	733	0.04	864	0.06																
		5.1		6.6																	
600	330	830	0.05	941	0.07	1156	0.13														
		6.6		7.7		11															
650	357	880	0.06	985	0.08	1184	0.14	1378	0.21												
		7.1		8.4		11.4		15.2													
750	412	984	0.08	1077	0.1	1253	0.17	1423	0.24	1591	0.32										
		8.5		9.9		12.7		16.1		19.4											
800	440	1036	0.09	1125	0.12	1291	0.18	1452	0.26	1611	0.34	1767	0.43								
		9.3		10.8		13.4		16.5		19.7		24									
900	495	1144	0.12	1224	0.15	1375	0.22	1520	0.3	1663	0.39	1803	0.48	1942	0.58						
		11.1		12.3		15.1		17.7		21		25		28							
950	522	1198	0.13	1276	0.17	1419	0.24	1558	0.32	1694	0.41	1827	0.51	1960	0.61	2091	0.72				
		12.1		13.3		15.7		18.5		22		25		29		33					
1000	549	1253	0.15	1328	0.19	1466	0.26	1598	0.34	1727	0.44	1855	0.54	1982	0.64	2107	0.75	2231	0.87		
		12.9		14.2		16.7		19.2		22		26		29		34		38			
1050	577	1308	0.17	1380	0.21	1512	0.29	1639	0.37	1763	0.46	1886	0.57	2007	0.67	2127	0.79	2246	0.91	2364	1.03
		14.1		15.3		17.7		20		23		26		30		34		39		43	
1100	604	1363	0.19	1432	0.23	1560	0.31	1682	0.4	1801	0.49	1919	0.6	2035	0.71	2150	0.82	2265	0.94	2378	1.07
		15.1		16.2		18.6		21		24		27		30		35		39		44	
1150	632	1418	0.22	1486	0.26	1609	0.34	1727	0.43	1841	0.53	1954	0.63	2065	0.74	2176	0.86	2287	0.98		
		16.2		17.3		19.6		22		25		28		31		35		39			
1250	687	1531	0.27	1593	0.31	1708	0.4	1818	0.5	1925	0.6	2029	0.71	2133	0.82	2236	0.94	2338	1.07		
		18.5		19.5		22		24		27		30		33		36		40			
1350	742	1643	0.33	1702	0.38	1811	0.47	1914	0.57	2013	0.68	2111	0.79	2208	0.91	2304	1.04				
		21		22		24		27		29		32		35		39					
1400	769	1700	0.37	1756	0.42	1862	0.51	1962	0.62	2059	0.73	2154	0.84	2248	0.96	2340	1.09				
		23		24		26		28		30		33		37		40					
1500	824	1813	0.45	1866	0.5	1966	0.6	2062	0.71	2153	0.82	2242	0.94	2331	1.07						
		25		27		29		31		33		36		39							
1550	852	1869	0.49	1921	0.54	2019	0.65	2111	0.76	2201	0.87	2288	1								
		28		28		30		32		35		38									
1600	879	1926	0.54	1977	0.59	2072	0.7	2162	0.81	2250	0.93	2334	1.05								
		29		30		32		34		36		39									
1650	907	1984	0.58	2033	0.64	2126	0.75	2213	0.87	2298	0.99										
		30		31		33		35		38											
1700	934	2040	0.64	2089	0.69	2179	0.81	2265	0.93	2348	1.05										
		32		33		35		37		39											
1800	989	2155	0.75	2200	0.81	2287	0.93	2369	1.05												
		36		37		39		41													
1850	1016	2213	0.81	2257	0.87	2342	0.99														
		38		39		41															
1900	1044	2270	0.87	2313	0.93	2396	1.06														
		40		41		43															
1950	1071	2327	0.94	2370	1																
		42		43																	

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (bhp) includes transmission and S&P USA Ventilation Systems, LLC., Div. of Soler & Palau Ventilation Group certifies that the Models CTB shown herein are licensed to bear the AMCA Seal.

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UL STANDARD 705 for Electrical  
UL STANDARD 762 for  
Grease Removal



# Size 13

CFM	OV	Static Pressure (Inches W.G.)																	
		0.125		0.25		0.5		0.75		1		1.25		1.5		1.75		2	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones	
600	268	603	0.04	754	0.07														
		2.9		4.8															
700	313	655	0.05	788	0.08														
		3.8		5.3															
800	357	711	0.06	830	0.09	1054	0.17												
		4.7		6.1		9.3													
900	402	771	0.08	879	0.11	1082	0.19												
		5.6		6.7		9.8													
1000	446	832	0.09	932	0.13	1118	0.22	1296	0.32										
		6.4		7.6		10.5		14.1											
1100	491	895	0.11	988	0.15	1160	0.25	1325	0.35	1483	0.48	1636	0.62						
		7.3		8.5		11.3		14.8		18.3		22							
1200	536	959	0.14	1046	0.18	1207	0.28	1360	0.39	1508	0.52	1652	0.65	1792	0.81	1926	0.97		
		8.3		9.5		12.3		15.7		18.9		23		27		30			
1300	580	1024	0.17	1106	0.22	1257	0.32	1400	0.43	1539	0.56	1675	0.7	1807	0.85	1936	1.02	2060	1.19
		9.4		10.6		13.5		16.7		19.7		23		27		31		35	
1400	625	1089	0.2	1168	0.25	1310	0.36	1445	0.48	1576	0.61	1704	0.75	1829	0.91	1951	1.07	2071	1.25
		10.6		11.9		14.8		17.7		21		24		28		31		35	
1500	670	1156	0.24	1230	0.3	1366	0.41	1493	0.53	1617	0.66	1737	0.81	1856	0.97	1972	1.13	2087	1.31
		12		13.3		16.1		18.8		22		25		28		32		36	
1600	714	1222	0.28	1294	0.34	1423	0.46	1544	0.59	1661	0.73	1775	0.87	1888	1.03	1999	1.2	2108	1.38
		13.4		14.7		17.4		20		23		26		29		33		37	
1700	759	1290	0.33	1357	0.39	1481	0.52	1597	0.65	1708	0.79	1817	0.94	1924	1.11	2030	1.28		
		14.9		16.2		18.7		21		24		27		31		34			
1800	804	1357	0.39	1422	0.45	1541	0.58	1652	0.72	1758	0.87	1862	1.02	1964	1.19	2065	1.36		
		16.4		17.7		20		23		26		28		32		35			
1900	848	1425	0.45	1488	0.52	1602	0.65	1708	0.8	1810	0.95	1910	1.11	2007	1.28	2104	1.45		
		17.9		19.2		22		24		27		30		33		37			
2000	893	1493	0.51	1553	0.59	1663	0.73	1766	0.88	1864	1.04	1959	1.2	2053	1.37				
		19.5		21		23		26		29		32		35					
2100	938	1562	0.59	1620	0.66	1726	0.82	1825	0.97	1919	1.13	2011	1.3	2101	1.48				
		21		23		25		28		30		33		36					
2200	982	1630	0.67	1686	0.75	1789	0.91	1884	1.07	1976	1.24	2065	1.41						
		23		24		27		29		32		35							
2300	1027	1700	0.75	1753	0.84	1853	1.01	1945	1.17	2033	1.35	2119	1.52						
		25		26		29		31		34		37							
2400	1071	1769	0.85	1821	0.94	1917	1.11	2006	1.29	2092	1.46								
		27		28		30		33		36									
2500	1116	1838	0.95	1889	1.04	1981	1.22	2069	1.41										
		29		30		32		35											
2600	1161	1907	1.06	1956	1.16	2047	1.35												
		30		32		35													
2700	1205	1977	1.18	2024	1.28	2112	1.48												
		33		34		37													
2800	1250	2046	1.31	2092	1.41														
		35		36															
2900	1295	2116	1.45																
		37																	

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (bhp) includes transmission losses. Performance ratings do not include the effects of appurtenances.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type: B free inlet hemispherical sone levels.



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UL STANDARD 705 for Electrical UL STANDARD 762 for Grease Removal

# Size 15

CFM	OV	Static Pressure (Inches W.G.)																					
		0.125		0.25		0.5		0.75		1		1.25		1.5		1.75		2		2.25		2.5	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones	
900	287	631	0.05	745	0.09	931	0.16	1083	0.24	1224	0.33	1355	0.43	1473	0.53								
		2.9		3.9		6.2		8.1		10.1		11.9		13.6									
1000	318	675	0.06	782	0.10	962	0.18	1110	0.26	1242	0.36	1368	0.46	1486	0.57	1595	0.69						
		3.4		4.4		6.5		8.5		10.4		12.1		13.8		15.6							
1100	350	720	0.08	820	0.12	994	0.20	1139	0.29	1266	0.39	1385	0.49	1499	0.61	1607	0.73	1708	0.85	1804	0.98		
		4.0		4.9		6.9		8.9		10.7		12.3		14.0		15.8		17.4		19.2			
1200	382	767	0.09	861	0.14	1028	0.22	1171	0.32	1294	0.42	1408	0.53	1516	0.65	1622	0.77	1721	0.90	1817	1.04	1907	1.17
		4.7		5.4		7.3		9.3		11.0		12.6		14.3		16.0		17.6		19.4		21.1	
1300	414	814	0.11	904	0.16	1063	0.25	1202	0.35	1325	0.46	1435	0.57	1539	0.69	1638	0.82	1736	0.95	1830	1.09	1919	1.24
		5.3		6.0		7.8		9.7		11.4		12.9		14.6		16.2		17.9		19.6		21.2	
1500	478	912	0.16	993	0.21	1138	0.31	1269	0.42	1388	0.54	1496	0.66	1595	0.79	1687	0.93	1776	1.06	1863	1.21	1949	1.36
		6.6		7.3		8.9		10.6		12.2		13.8		15.4		17.0		18.6		20.2		21.7	
1700	541	1012	0.21	1085	0.27	1219	0.38	1341	0.51	1454	0.63	1559	0.77	1657	0.91	1747	1.05	1832	1.20	1913	1.35	1992	1.51
		7.9		8.6		10.2		11.5		13.0		14.7		16.3		17.9		19.5		21.0		22.4	
1900	605	1113	0.28	1181	0.34	1305	0.47	1419	0.60	1525	0.74	1626	0.88	1720	1.03	1809	1.19	1893	1.35	1972	1.51	2048	1.67
		9.4		10.2		11.5		12.7		14.1		15.7		17.3		19.0		20.5		21.9		23.3	
2000	637	1165	0.32	1230	0.38	1349	0.52	1459	0.66	1563	0.80	1661	0.95	1753	1.10	1841	1.26	1925	1.43	2003	1.59		
		10.3		10.9		12.2		13.3		14.7		16.2		17.8		19.5		21.0		22.4			
2100	669	1216	0.36	1279	0.43	1394	0.57	1501	0.72	1601	0.86	1697	1.02	1788	1.18	1874	1.34	1956	1.51	2035	1.68		
		11.1		11.7		12.8		14.0		15.3		16.8		18.4		20.0		21.4		22.9		23.3	
2300	732	1320	0.46	1379	0.54	1486	0.69	1586	0.85	1681	1.01	1772	1.17	1858	1.34	1942	1.51	2021	1.69				
		12.8		13.3		14.4		15.4		16.7		18.2		19.6		21.1		22.5					
2400	764	1373	0.52	1429	0.60	1533	0.75	1630	0.92	1722	1.08	1811	1.25	1896	1.43	1977	1.60						
		13.8		14.3		15.3		16.1		17.4		18.9		20.3		21.6							
2500	796	1425	0.58	1479	0.66	1581	0.82	1675	0.99	1764	1.16	1850	1.34	1933	1.52	2013	1.70						
		14.8		15.3		16.2		17.0		18.2		19.6		21.0		22.3							
2700	860	1531	0.72	1581	0.80	1677	0.98	1766	1.16	1851	1.34	1932	1.53	2012	1.72								
		16.9		17.2		17.9		18.8		19.9		21.1		22.4									
2800	892	1584	0.79	1633	0.88	1725	1.06	1812	1.25	1895	1.44	1975	1.63										
		17.7		18.0		18.8		19.7		20.8		21.9											
2900	924	1637	0.87	1684	0.97	1775	1.15	1859	1.35	1940	1.54												
		18.6		18.9		19.7		20.5		21.7													
3100	987	1743	1.05	1788	1.15	1873	1.35	1954	1.56														
		20.4		20.7		21.5		22.5															
3300	1051	1850	1.26	1892	1.36	1973	1.57																
		22.3		22.6		23.3																	
3500	1115	1957	1.48	1997	1.60																		
		24.1		24.4																			
3600	1146	2011	1.61	2049	1.72																		
		25.0		25.4																			

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (bhp) includes transmission losses. Performance ratings do not include the effects of appurtenances.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type: B free inlet hemispherical sone levels.



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UL STANDARD 705 for Electrical  
UL STANDARD 762 for  
Grease Removal

# Size 18

CFM	OV	Static Pressure (Inches W.G.)																					
		0.125		0.25		0.5		0.75		1		1.25		1.5		1.75		2		2.25		2.5	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones	
1200	240	448	0.06	540	0.1	708	0.21																
		3.8		5.6		9.1																	
1500	300	515	0.09	593	0.14	736	0.25	869	0.39	992	0.54												
		4.9		6.4		9.6		12.7		15.8													
1800	360	588	0.13	655	0.19	779	0.31	896	0.45	1008	0.62	1114	0.79	1214	0.97								
		6.3		7.3		10.2		13.2		16.2		19.1		22									
2100	420	663	0.18	723	0.25	834	0.38	938	0.53	1038	0.72	1134	0.89	1227	1.09	1317	1.29	1403	1.5				
		7.7		8.5		11		13.8		16.6		19.4		22		25		28					
2400	480	741	0.25	795	0.32	895	0.47	989	0.63	1079	0.81	1166	1	1252	1.22	1335	1.44	1415	1.66	1494	1.89		
		9.2		9.9		12.1		14.7		17.4		20		23		26		28		31			
2700	540	820	0.33	870	0.41	961	0.58	1046	0.75	1129	0.94	1209	1.14	1287	1.36	1364	1.59	1438	1.83	1512	2.08	1583	2.33
		10.7		11.4		13.4		15.8		18.4		21		24		26		29		32		34	
3000	600	899	0.44	946	0.52	1030	0.7	1109	0.89	1185	1.09	1259	1.31	1331	1.53	1401	1.76	1471	2.01	1539	2.27	1607	2.54
		12.5		13.2		14.9		17.2		19.6		22		25		27		29		32		35	
3300	660	980	0.56	1023	0.66	1102	0.85	1175	1.05	1246	1.27	1314	1.49	1381	1.73	1447	1.97	1512	2.22	1575	2.49	1638	2.76
		14.3		15.1		16.7		18.7		21		23		26		28		30		33		35	
3600	720	1061	0.71	1101	0.81	1175	1.02	1244	1.24	1310	1.47	1374	1.7	1437	1.95	1498	2.2	1558	2.47	1618	2.74		
		16.2		16.9		18.6		20		23		25		27		29		31		34			
3900	780	1143	0.88	1181	0.99	1250	1.22	1315	1.45	1377	1.69	1438	1.94	1496	2.2	1554	2.47	1611	2.74				
		18.3		18.8		20		22		24		26		28		30		33					
4200	840	1225	1.08	1261	1.2	1326	1.45	1388	1.69	1447	1.95	1504	2.21	1559	2.48	1614	2.76						
		20		21		22		24		26		28		29		32							
4500	900	1307	1.3	1341	1.44	1403	1.7	1462	1.97	1518	1.97	1572	2.51	1625	2.79								
		23		23		24		26		27		29		31									
4800	960	1390	1.56	1422	1.7	1481	1.99	1537	2.27	1591	2.55												
		25		25		26		28		29													
5100	1020	1473	1.86	1503	2.01	1560	2.3	1613	2.6														
		27		27		28		30															
5400	1080	1556	2.18	1585	2.34	1639	2.66																
		29		30		31																	
5700	1140	1639	2.55																				
		32																					

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (bhp) includes transmission losses. Performance ratings do not include the effects of appurtenances.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type: B free inlet hemispherical sone levels.



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UL STANDARD 705 for Electrical  
UL STANDARD 762 for  
Grease Removal

# Size 22

CFM	OV	Static Pressure (Inches W.G.)																	
		0.125		0.25		0.5		0.75		1		1.25		1.5		1.75		2	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones	
1200	166	346	0.06	443	0.11	607	0.23	741	0.37										
		1.9		3.4		6.2		8.8											
1600	222	397	0.08	478	0.14	621	0.29	746	0.44	857	0.62	957	0.81						
		2.9		4.1		6.5		8.9		11.4		13.9							
2000	277	455	0.12	526	0.19	650	0.35	763	0.53	866	0.72	961	0.93	1050	1.16	1132	1.39	1210	1.63
		4.1		5.1		7.1		9.3		11.6		14.1		16.4		18.7		21	
2400	332	517	0.17	580	0.25	691	0.42	792	0.63	886	0.84	975	1.06	1059	1.31	1138	1.56	1213	1.82
		5.3		6.1		7.9		10.1		12.1		14.4		16.7		18.9		21	
2800	388	580	0.24	639	0.33	740	0.52	831	0.73	917	0.97	999	1.22	1077	1.47	1152	1.74	1223	2.02
		6.6		7.4		9.1		11.1		13.1		15.2		17.3		19.3		22	
3200	443	646	0.33	700	0.43	793	0.64	877	0.87	956	1.12	1031	1.39	1104	1.66	1174	1.95	1241	2.24
		7.9		8.8		10.4		12.3		14.2		16.1		18.2		20		22	
3600	499	712	0.43	763	0.55	850	0.78	928	1.03	1001	1.29	1071	1.57	1139	1.88	1204	2.18	1267	2.5
		9.5		10.3		12.1		13.7		15.6		17.4		19.2		21		23	
4000	554	779	0.57	827	0.69	910	0.95	983	1.22	1051	1.5	1117	1.79	1179	2.1	1241	2.42		
		11.2		12		13.8		15.5		17.2		18.9		21		22			
4400	609	846	0.72	892	0.86	971	1.14	1040	1.43	1105	1.73	1166	2.04	1225	2.37				
		13		13.8		15.6		17.3		18.9		21		22					
4800	665	914	0.91	958	1.06	1033	1.37	1099	1.68	1160	2	1219	2.33	1275	2.67				
		14.9		15.8		17.5		19.2		21		22		24					
5200	720	982	1.12	1024	1.29	1097	1.62	1160	1.96	1218	2.3	1274	2.65						
		16.9		17.9		19.7		21		22		24							
5600	776	1050	1.36	1091	1.55	1161	1.91	1222	2.27										
		19.2		20		22		23											
6000	831	1119	1.64	1159	1.85	1226	2.24												
		21		22		23													
6400	886	1188	1.96	1226	2.18														
		23		24															
6800	942	1258	2.32																
		26																	

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (bhp) includes transmission losses. Performance ratings do not include the effects of appurtenances.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type: B free inlet hemispherical sone levels.



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# Size 24

CFM	OV	Static Pressure (Inches W.G.)																					
		0.125		0.25		0.5		0.75		1		1.25		1.5		1.75		2		2.25		2.5	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones	
2000	201	320	0.08	394	0.15	526	0.32	645	0.51	742	0.72	825	0.94	901	1.17	970	1.42						
		2.8		3.4		5.3		7.6		9.5		11.2		12.9		14.5							
2500	252	362	0.12	427	0.20	537	0.38	644	0.59	747	0.83	833	1.08	909	1.34	979	1.61	1044	1.90				
		4.0		4.6		5.7		7.6		9.7		11.5		13.2		14.9		16.4					
3000	302	410	0.17	466	0.26	568	0.46	655	0.68	743	0.94	834	1.22	914	1.51	986	1.81	1051	2.12	1113	2.44		
		5.6		5.9		6.8		7.9		9.6		11.5		13.5		15.2		16.8		18.4			
3500	352	459	0.24	509	0.34	601	0.55	684	0.80	758	1.06	832	1.35	911	1.67	987	2.00	1056	2.34	1118	2.69	1177	3.05
		7.1		7.3		8.3		9.1		10.2		11.5		13.3		15.2		17.0		18.6		20	
4000	402	511	0.32	556	0.44	639	0.67	717	0.93	787	1.21	852	1.51	915	1.83	983	2.18	1053	2.55	1119	2.94	1181	3.33
		8.6		8.8		10.0		10.7		11.5		12.3		13.5		15.1		16.8		18.7		20	
4500	453	563	0.43	605	0.55	681	0.81	752	1.09	819	1.39	882	1.71	940	2.04	996	2.39	1053	2.76	1115	3.16	1176	3.58
		10.2		10.5		11.5		12.8		13.2		13.8		14.6		15.7		16.9		18.5		20	
5000	503	616	0.55	655	0.69	725	0.98	791	1.27	854	1.59	914	1.92	971	2.28	1023	2.65	1075	3.03	1125	3.42	1177	3.84
		12.4		12.8		13.4		14.5		15.1		15.5		16.2		16.9		18.0		19.0		20	
5500	553	670	0.70	706	0.85	771	1.17	833	1.49	891	1.82	948	2.17	1003	2.54	1055	2.93	1103	3.33	1151	3.74		
		14.7		15.3		15.8		16.2		17.1		17.5		18.0		18.7		19.5		20			
6000	604	724	0.88	758	1.04	819	1.38	876	1.73	932	2.08	985	2.45	1037	2.84	1087	3.24	1136	3.66				
		17.2		18.1		18.0		18.2		18.9		20		20		21		21					
6500	654	779	1.09	810	1.27	868	1.63	922	2.01	974	2.38	1025	2.76	1074	3.16	1121	3.59	1168	4.03				
		20		21		20		20		21		22		23		23		23					
7000	704	834	1.34	864	1.52	919	1.91	970	2.31	1019	2.72	1066	3.12	1113	3.54	1158	3.97						
		22		22		22		22		23		24		25		25							
7500	755	889	1.62	917	1.81	970	2.22	1018	2.65	1064	3.08	1110	3.52	1154	3.95								
		24		24		24		25		25		26		27									
8000	805	945	1.93	971	2.14	1021	2.57	1068	3.02	1112	3.48	1155	3.95										
		26		26		27		27		27		28											
8500	855	1001	2.29	1026	2.51	1073	2.97	1118	3.44	1160	3.92												
		27		28		29		29		29													
9000	905	1056	2.69	1080	2.92	1126	3.40																
		30		30		31																	
9500	956	1113	3.14	1135	3.38																		
		33		33																			
10000	1006	1169	3.63																				
		36																					

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UL STANDARD 705 for Electrical  
UL STANDARD 762 for  
Grease Removal

# Size 30

CFM	OV	Static Pressure (Inches W.G.)																					
		0.125		0.25		0.5		0.75		1		1.25		1.5		1.75		2		2.25		2.5	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones	
2250	177	246	0.1	316	0.19	425	0.41	512	0.67														
		4.3		6.6		11.1		15.6															
3000	236	279	0.14	341	0.25	442	0.5	525	0.8	598	1.12												
		5.6		7.6		11.9		16.4		20													
3750	295	316	0.21	372	0.33	465	0.62	544	0.94	613	1.3	676	1.68	733	2.08	787	2.5						
		6.9		8.8		13.1		17.4		21		24		28		31							
4500	354	357	0.29	407	0.44	493	0.76	567	1.11	633	1.5	693	1.91	749	2.35	801	2.81	850	3.28	896	3.77	941	4.28
		8.6		10.6		14.5		18.5		22		25		28		32		36		40		44	
5250	413	399	0.41	444	0.57	524	0.92	593	1.31	656	1.73	714	2.17	768	2.64	818	3.13	866	3.64	911	4.17	954	4.71
		10.6		12.6		16.5		19.6		23		26		30		33		37		41		45	
6000	472	443	0.55	484	0.73	558	1.12	623	1.55	683	1.99	738	2.47	790	2.97	838	3.49	885	4.04	929	4.6	971	5.17
		12.9		14.9		18.5		21		25		28		31		35		39		43		47	
6750	531	488	0.73	526	0.94	594	1.36	656	1.82	712	2.3	765	2.81	815	3.34	862	3.89	906	4.47	949	5.06	990	5.67
		15.4		17.6		21		23		26		29		33		36		40		45		49	
7500	591	534	0.95	569	1.18	632	1.64	690	2.13	744	2.66	794	3.19	842	3.75	887	4.34	931	4.94	972	5.56	1012	6.21
		18.2		19.8		23		26		28		32		35		39		42		46		51	
8250	650	581	1.22	613	1.46	672	1.97	727	2.49	778	3.04	826	3.62	872	4.22	915	4.83	957	5.47	997	6.12	1036	6.79
		21		22		25		28		31		34		37		40		44		49		54	
9000	709	628	1.53	657	1.8	713	2.34	765	2.9	813	3.49	859	4.1	903	4.73	945	5.38	985	6.04				
		23		25		28		31		34		37		40		43		47					
9750	768	675	1.9	703	2.18	755	2.77	804	3.37	850	3.99	894	4.64	936	5.3	977	5.98						
		26		28		31		34		37		40		43		47							
10500	827	723	2.32	749	2.63	798	3.25	844	3.89	889	4.56	931	5.23	971	5.93								
		29		31		34		37		41		44		47									
11250	886	771	2.81	795	3.13	842	3.8	886	4.48	928	5.18	968	5.9										
		33		34		38		41		44		47											
12000	945	819	3.36	842	3.71	886	4.42	928	5.14	968	5.87												
		36		38		42		45		48													
12750	1004	868	3.98	889	4.35	931	5.1	971	5.86														
		40		42		45		49															
13500	1063	916	4.67	937	5.07	976	5.86																
		45		46		50																	
14250	1122	965	5.45	984	5.86																		
		49		51																			

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UL STANDARD 705 for Electrical  
UL STANDARD 762 for  
Grease Removal

# Size 36

CFM	OV	Static Pressure (Inches W.G.)															
		0.125		0.25		0.5		0.75		1		1.25		1.5		1.75	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		Sones		Sones		Sones		Sones		Sones		Sones		Sones		Sones	
4600	276	247	0.23	307	0.4	402	0.79	478	1.21	543	1.66	600	2.13				
		4.3		6.3		10.4		15.3		18.4		21					
5400	324	269	0.3	323	0.5	415	0.93	489	1.4	553	1.89	610	2.41	662	2.95	710	3.51
		5.2		6.9		11.2		16		18.9		22		25		28	
6200	372	293	0.39	342	0.6	429	1.08	502	1.6	565	2.14	621	2.71	672	3.3	719	3.9
		6		7.8		12.3		16.7		19.7		23		26		29	
7000	420	319	0.5	362	0.73	444	1.25	515	1.82	577	2.41	632	3.02	683	3.66		
		7.2		8.7		13.7		17.4		21		23		26			
7800	468	346	0.63	385	0.88	461	1.44	529		590	2.69	644	3.36	694	4.04		
		8.6		9.8		15.1		18.2		21		24		27			
8600	517	374	0.79	409	1.06	479	1.65	544	2.31	603	3	657	3.71	707	4.44		
		10.2		11.2		16.1		19.1		22		25		28			
9400	565	403	0.98	435	1.26	499	1.89	561	2.59	618	3.32	671	4.08	720	4.86		
		12.2		13.3		17.2		20		23		26		29			
10200	613	432	1.21	461	1.5	521	2.17	579	2.9	634	3.68	685	4.48				
		14.4		15.9		18.2		21		24		27					
11000	661	462	1.46	488	1.78	544	2.47	599	3.24	651	4.06	701	4.91				
		17.2		17.5		19.4		22		25		28					
11800	709	492	1.76	516	2.09	567	2.82	619	3.62	669	4.48	717	5.37				
		18.9		19.2		21		23		27		30					
12600	757	522	2.09	545	2.44	592	3.2	641	4.04	689	4.93						
		21		21		22		25		28							
13400	805	552	2.47	573	2.84	618	3.63	664	4.5	709	5.42						
		23		23		24		26		29							
14200	853	582	2.9	603	3.28	644	4.1	687	5								
		25		25		25		28									
15000	901	613	3.37	632	3.77	671	4.63	712	5.56								
		27		27		28		30									
16100	967	656	4.1	673	4.53	709	5.43										
		29		30		31											
16900	1015	687	4.7	703	5.14												
		32		33													
17700	1063	717	5.36														
		35															

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UL STANDARD 705 for Electrical  
UL STANDARD 762 for  
Grease Removal

# Size 42

CFM	OV	Static Pressure (Inches W.G.)									
		0.25		0.5		0.75		1		1.25	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		Sones		Sones		Sones		Sones		Sones	
8300	414	308	1.01	383	1.79	446	2.64	500	3.53	549	4.48
		8.7		12		15.2		18.8		23	
9300	464	325	1.21	397	2.06	458	2.97	511	3.94	559	4.95
		9.8		12.8		16		20		24	
10300	514	344	1.44	412	2.36	471	3.34	523	4.38		
		10.8		13.8		17.2		21			
11300	564	363	1.71	428	2.69	485	3.74	536	4.85		
		11.8		14.9		18.4		23			
12300	613	383	2.02	445	3.07	501	4.18	550	5.35		
		12.9		15.9		19.8		24			
13300	663	403	2.38	463	3.49	516	4.67	564	5.91		
		14.2		17.3		22		26			
14300	713	426	2.78	481	3.95	532	5.2				
		15.7		18.8		23					
15300	763	448	3.23	500	4.46	548	5.78				
		17.2		21		25					
16300	813	470	3.73	520	5.03						
		18.6		23							
17300	863	493	4.29	540	5.66						
		21		25							
18300	913	516	4.92	561	6.35						
		23		27							
19300	963	540	5.6								
		26									
20300	1012	563	6.36								
		28									

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UL STANDARD 762 for Grease Removal