

 **YORK**[®]
INSTALL CONFIDENCE.



Tubular Centrifugal Inline CTB

TECHNICAL SPECIFICATIONS

Johnson
Controls 

TABLE OF CONTENTS

CERTIFICATIONS & LISTINGS	3
AIR PERFORMANCE DATA	4-7
SOUND POWER DATA	8-9



BY JOHNSON CONTROLS

CERTIFICATIONS & LISTINGS



AMCA Certification

York® certifies that the CTB belt drive model 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 AMCA Publication 311 if sound is also certified) and comply with the requirements of the AMCA Certified Ratings Program.



UL and cUL Certification

CTB carries the UL label, UL705, (ZACT / ZACT7), file #E477250.

AIR PERFORMANCE DATA

CTB 150 | Air Performance

CFM	OV	0" SP		0.5"SP		1"SP		1.25"SP		1.5"SP		2"SP		2.5"SP		3"SP		3.5"SP		4"SP		4.5"SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	368	618	0.028	982	0.155	1252	0.308																
1200	442	741	0.048	1068	0.192	1309	0.362	1417	0.453	1533	0.560												
1400	516	865	0.076	1164	0.243	1383	0.434	1484	0.531	1579	0.631	1770	0.867										
1600	589	989	0.113	1264	0.303	1465	0.505	1559	0.621	1651	0.736	1817	0.961	1980	1.226								
1800	663	1112	0.161	1370	0.375	1560	0.597	1643	0.711	1726	0.841	1888	1.097	2036	1.353	2180	1.645	2341	1.977				
2000	737	1236	0.221	1480	0.459	1656	0.698	1738	0.826	1813	0.951	1964	1.242	2106	1.521	2240	1.806	2369	2.116	2504	2.466	2654	2.853
2200	810	1359	0.294	1589	0.557	1755	0.815	1834	0.953	1908	1.092	2043	1.381	2182	1.706	2311	2.010	2433	2.320	2550	2.646	2668	3.014
2400	884	1483	0.382	1699	0.670	1860	0.957	1932	1.092	2004	1.244	2136	1.539	2257	1.875	2386	2.231	2505	2.564	2618	2.899	2726	3.244
2600	958	1606	0.486	1810	0.797	1968	1.106	2035	1.262	2102	1.408	2232	1.745	2349	2.065	2462	2.436	2581	2.823	2691	3.184	2796	3.542
2800	1031	1730	0.607	1923	0.943	2077	1.272	2142	1.443	2205	1.609	2328	1.945	2444	2.298	2551	2.659	2656	3.059	2766	3.473	2870	3.871
3000	1105	1854	0.747	2035	1.105	2186	1.462	2251	1.639	2310	1.822	2426	2.165	2540	2.555	2645	2.918	2744	3.317	2842	3.747	2945	4.188
3200	1179	1977	0.906	2147	1.286	2296	1.672	2360	1.858	2418	2.048	2528	2.427	2636	2.807	2741	3.231	2837	3.604	2930	4.040	3021	4.499
3400	1252	2101	1.087	2259	1.486	2406	1.901	2469	2.100	2528	2.298	2633	2.714	2735	3.096	2837	3.528	2934	3.968	3023	4.363	3111	4.834
3600	1326	2224	1.289	2373	1.711	2517	2.152	2579	2.367	2636	2.574	2741	3.007	2838	3.432	2933	3.841	3029	4.317	3119	4.770		
3800	1400	2348	1.517	2489	1.963	2629	2.427	2689	2.654	2746	2.878	2850	3.325	2943	3.791	3035	4.219	3126	4.678				
4000	1473	2471	1.768	2607	2.245	2742	2.729	2800	2.966	2856	3.206	2959	3.671	3051	4.155	3139	4.634						
4200	1547	2595	2.048	2726	2.557	2854	3.054	2912	3.306	2967	3.558	3068	4.049	3160	4.548								
4400	1621	2718	2.354	2845	2.897	2965	3.401	3024	3.671	3078	3.936	3177	4.454	3269	4.967								
4600	1694	2842	2.691	2964	3.266	3078	3.781	3138	4.072	3189	4.342	3288	4.895										
4800	1768	2966	3.058	3084	3.669	3191	4.190	3249	4.490														
5000	1842	3089	3.455	3204	4.104																		
5200	1915	3213	3.888																				

Performance certified is for installationType A: Free inlet, Free outlet.
 Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

CTB 165 | Air Performance

CFM	OV	0" SP		0.5"SP		1"SP		1.5"SP		2"SP		2.5"SP		3"SP		3.5"SP		4"SP		4.5"SP		5"SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1600	481	731	0.072	999	0.244	1196	0.437	1401	0.659														
1800	541	822	0.102	1071	0.294	1255	0.506	1422	0.728														
2000	602	914	0.140	1149	0.353	1320	0.579	1476	0.824	1628	1.080												
2200	662	1005	0.187	1228	0.421	1390	0.660	1535	0.925	1675	1.198	1818	1.490										
2400	722	1097	0.243	1308	0.498	1461	0.755	1599	1.035	1730	1.329	1856	1.625	1991	1.953								
2600	782	1188	0.308	1388	0.585	1536	0.863	1670	1.154	1791	1.468	1910	1.786	2026	2.111	2151	2.467						
2800	842	1279	0.385	1469	0.684	1613	0.980	1740	1.286	1857	1.616	1970	1.957	2080	2.302	2186	2.651	2301	3.032	2428	3.449		
3000	902	1371	0.474	1551	0.794	1692	1.111	1811	1.434	1927	1.773	2031	2.137	2137	2.502	2240	2.873	2338	3.244	2443	3.649	2563	4.093
3200	962	1462	0.574	1634	0.917	1772	1.255	1887	1.597	1997	1.948	2100	2.324	2198	2.713	2296	3.104	2392	3.498	2485	3.898	2577	4.311
3400	1023	1553	0.688	1717	1.053	1852	1.412	1964	1.773	2068	2.142	2171	2.527	2264	2.936	2357	3.348	2448	3.764	2539	4.184	2627	4.609
3600	1083	1645	0.818	1800	1.204	1932	1.584	2043	1.966	2142	2.352	2241	2.750	2334	3.168	2420	3.605	2509	4.040	2595	4.484	2681	4.928
3800	1143	1736	0.962	1884	1.371	2013	1.773	2123	2.175	2219	2.579	2312	2.993	2405	3.420	2490	3.870	2571	4.335	2656	4.794		
4000	1203	1828	1.123	1968	1.553	2094	1.976	2203	2.399	2297	2.824	2385	3.252	2475	3.696	2560	4.149	2640	4.632				
4200	1263	1919	1.299	2052	1.752	2176	2.197	2283	2.640	2376	3.084	2462	3.532	2546	3.991	2631	4.460	2710	4.945				
4400	1323	2010	1.493	2137	1.969	2258	2.433	2363	2.900	2456	3.365	2540	3.833	2620	4.307	2701	4.789						
4600	1384	2102	1.707	2223	2.204	2341	2.690	2443	3.176	2536	3.663	2619	4.153	2697	4.644								
4800	1444	2193	1.938	2310	2.457	2425	2.968	2524	3.474	2616	3.981	2698	4.489										
5000	1504	2284	2.190	2398	2.732	2508	3.264	2606	3.794	2696	4.320	2778	4.849										
5200	1564	2376	2.465	2485	3.024	2592	3.585	2688	4.132	2776	4.679												
5400	1624	2467	2.760	2573	3.340	2675	3.922	2770	4.490														
5600	1684	2559	3.080	2661	3.678	2759	4.285																
5800	1744	2650	3.420	2749	4.039																		
6000	1805	2741	3.785																				

Performance certified is for installationType A: Free inlet, Free outlet.
 Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

AIR PERFORMANCE DATA

CTB 182 | Air Performance

CFM	OV	0" SP		0.5"SP		1"SP		1.5"SP		2"SP		2.5"SP		3"SP		3.5"SP		4"SP		4.5"SP		5"SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	406	641	0.072	882	0.280	1067	0.511	1238	0.768	1415	1.077												
2250	457	721	0.103	942	0.329	1115	0.581	1275	0.864	1424	1.164	1583	1.514										
2500	507	801	0.141	1007	0.390	1169	0.664	1316	0.959	1456	1.287	1591	1.622	1734	2.006								
2750	558	881	0.188	1075	0.461	1228	0.759	1365	1.066	1497	1.404	1621	1.765	1744	2.138	1874	2.559						
3000	609	962	0.245	1144	0.540	1288	0.857	1418	1.185	1540	1.540	1661	1.908	1774	2.309	1886	2.708	2005	3.172	2123	3.638		
3250	659	1042	0.311	1213	0.627	1349	0.961	1475	1.324	1592	1.685	1703	2.080	1814	2.484	1918	2.922	2021	3.339	2128	3.840	2240	4.342
3500	710	1122	0.389	1284	0.727	1415	1.085	1536	1.474	1645	1.850	1751	2.255	1855	2.686	1957	3.119	2054	3.600	2148	4.018	2246	4.556
3750	761	1202	0.478	1355	0.839	1482	1.222	1596	1.620	1702	2.034	1805	2.449	1901	2.896	1998	3.355	2094	3.821	2184	4.345	2273	4.792
4000	812	1282	0.580	1427	0.963	1550	1.370	1657	1.779	1763	2.235	1858	2.663	1954	3.114	2043	3.597	2135	4.093	2225	4.583		
4250	862	1362	0.695	1500	1.102	1619	1.529	1723	1.964	1823	2.427	1917	2.900	2007	3.361	2095	3.848	2179	4.363	2265	4.888		
4500	913	1442	0.825	1574	1.255	1689	1.704	1790	2.166	1884	2.634	1978	3.151	2062	3.628	2149	4.130	2231	4.653				
4750	964	1522	0.970	1648	1.421	1759	1.893	1858	2.384	1948	2.866	2038	3.392	2123	3.926	2202	4.431	2284	4.961				
5000	1015	1603	1.134	1722	1.602	1830	2.100	1926	2.610	2014	3.119	2099	3.650	2184	4.224	2262	4.768						
5250	1065	1683	1.312	1797	1.801	1901	2.322	1996	2.857	2082	3.398	2162	3.931	2244	4.516								
5500	1116	1763	1.508	1872	2.017	1973	2.564	2065	3.117	2150	3.691	2228	4.243	2305	4.827								
5750	1167	1843	1.723	1948	2.253	2046	2.827	2136	3.402	2218	3.991	2295	4.578										
6000	1217	1923	1.957	2024	2.508	2118	3.104	2206	3.700	2287	4.313	2363	4.937										
6250	1268	2003	2.212	2100	2.782	2192	3.405	2277	4.022	2357	4.659												
6500	1319	2083	2.488	2177	3.080	2265	3.719	2349	4.368														
6750	1370	2163	2.786	2254	3.400	2340	4.063	2421	4.735														
7000	1420	2244	3.110	2331	3.743	2414	4.423																
7250	1471	2324	3.455	2408	4.109																		
7500	1522	2404	3.824																				

Performance certified is for installationType A: Free inlet, Free outlet.
 Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

SOUND POWER DATA

CTB 090

RPM	Nominal Ps	SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
1800	0.00	76	81	75	69	69	73	69	52	77
	0.25	76	81	75	68	68	71	67	51	76
	0.50	75	80	75	66	68	68	61	51	74
2625	0.00	90	86	80	77	75	71	75	66	82
	0.25	90	86	80	76	75	72	75	65	81
	0.50	91	87	79	75	74	72	75	65	81
	1.00	91	87	79	75	73	72	75	63	81
3450	0.00	80	84	82	82	82	74	76	74	86
	0.50	79	87	82	82	81	74	75	74	85
	1.00	79	87	82	82	80	73	75	73	84
	1.50	79	87	82	81	79	73	75	73	84
4050	0.00	88	86	85	86	85	78	78	78	89
	0.50	87	85	86	85	85	78	77	77	89
	1.00	87	86	83	86	84	77	77	77	88
	1.50	88	86	83	85	84	77	77	76	88
	2.00	88	86	83	85	83	77	76	76	87

CTB 105

RPM	Nominal Ps	SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
1800	0.00	77	81	74	70	70	67	65	53	75
	0.25	77	81	75	69	69	65	60	52	74
	0.50	76	80	74	68	68	64	59	52	73
2625	0.00	88	86	81	76	75	70	71	67	81
	0.25	89	86	80	76	75	70	71	66	80
	0.50	89	86	80	76	74	70	70	66	80
	1.00	89	87	81	75	73	69	68	65	79
	1.50	89	87	81	75	73	69	68	65	79
3450	0.00	78	85	83	83	81	75	76	74	85
	0.50	78	85	83	82	80	74	75	74	85
	1.00	79	84	83	82	79	74	75	73	84
	1.50	79	83	82	82	79	73	74	72	84
4050	0.00	87	86	83	86	85	79	79	79	89
	0.50	86	86	82	86	84	78	79	78	89
	1.00	86	86	82	86	84	78	78	78	89
	1.50	86	86	83	86	83	77	78	77	88
	2.00	87	86	83	85	83	77	77	77	88

CTB 122

RPM	Nominal Ps	SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
1400	0.00	80	77	73	70	68	63	61	68	74
	0.25	80	79	73	69	67	62	61	67	73
	0.50	80	77	73	68	67	62	61	68	73
2075	0.00	83	78	77	75	72	74	76	70	81
	0.25	83	78	76	74	72	73	74	69	80
	0.50	83	78	76	74	72	73	73	69	80
	1.00	83	77	75	73	71	73	71	68	79
2750	0.00	85	81	79	82	78	75	78	75	85
	0.50	85	80	79	81	77	75	78	75	84
	1.00	85	80	78	82	77	75	77	74	84
	1.50	84	79	78	81	76	75	76	73	83
	2.00	85	79	77	81	76	74	76	72	83
2900	0.00	84	83	81	84	79	76	79	76	86
	0.50	85	83	80	83	78	76	78	76	85
	1.00	85	83	79	83	78	76	78	75	85
	1.50	84	83	79	83	77	75	77	75	84
	2.00	84	83	78	82	77	75	76	74	84

CTB 135

RPM	Nominal Ps	SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
950	0.00	75	74	67	67	63	58	58	63	69
	0.25	78	75	66	64	61	57	58	63	68
	0.50	75	74	65	62	61	57	58	64	68
1450	0.00	79	80	75	71	67	71	73	66	78
	0.50	78	81	73	69	66	69	66	65	75
	1.00	79	76	71	67	65	66	62	65	73
	1.50	79	76	71	67	65	66	62	65	73
2200	0.00	86	84	81	80	74	72	77	74	83
	0.50	84	82	80	78	73	73	77	73	83
	1.00	83	84	80	77	72	72	75	71	81
	1.50	82	85	80	76	71	70	74	70	80
	2.00	81	85	79	74	70	70	72	69	79
2800	0.00	85	88	83	88	80	77	81	81	89
	0.50	84	88	82	87	79	76	80	79	88
	1.00	82	88	81	86	78	76	79	78	87
	1.50	81	88	81	86	77	75	78	77	86
	2.00	80	89	81	85	77	75	77	76	85
	3.00	80	91	79	85	76	74	76	74	85
2971	0.00	87	90	84	89	82	78	83	83	90
	0.50	86	89	84	88	81	77	82	81	89
	1.00	85	89	84	87	80	77	80	80	88
	1.50	85	88	83	87	79	76	80	79	88
	2.00	85	89	82	87	78	76	79	78	87
	3.00	84	89	81	86	77	75	77	76	86

The sound power level ratings shown are in decibels referred to 10-12 watts calculated per AMCA Standard 301. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for installation Type A: Free inlet, Free outlet. Ratings do not include the effects of duct.

SOUND POWER DATA

CTB 150

RPM	Nominal Ps	SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
725	0.00	72	68	63	61	58	53	53	60	65
	0.13	72	68	63	61	57	53	53	60	64
	0.25	72	68	61	60	57	53	53	60	64
	0.30	72	67	61	60	56	53	53	60	64
	0.32	72	68	61	57	55	53	53	60	63
1950	0.00	86	80	84	80	75	74	74	70	83
	1.00	86	79	81	79	73	72	71	68	81
	2.00	86	78	79	77	72	71	70	67	80
	2.25	86	78	79	77	72	71	70	67	79
	2.33	87	79	79	77	72	71	69	67	79
2666	0.00	86	87	87	90	83	79	81	78	90
	1.00	85	86	85	89	81	78	79	76	89
	2.00	85	86	84	87	80	77	78	75	87
	3.00	84	85	83	86	79	77	76	74	87
	4.11	85	85	82	86	79	76	75	74	86

CTB 165

RPM	Nominal Ps	SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
750	0.00	79	74	66	66	62	56	55	61	68
	0.25	80	74	65	64	58	55	55	61	67
1350	0.00	78	74	78	74	69	72	72	65	78
	0.25	78	75	76	72	69	72	71	65	78
	0.50	78	74	74	72	69	71	68	65	76
	1.00	78	72	77	70	67	69	64	65	75
1950	0.00	88	78	84	82	76	76	77	72	85
	0.50	87	78	83	80	74	75	76	71	83
	1.00	86	78	83	79	73	74	75	70	82
	1.50	87	77	83	78	72	73	74	69	82
	2.00	87	77	82	77	71	73	73	69	81
2431	2.50	87	77	81	76	71	72	72	69	80
	0.00	83	83	84	88	83	80	82	79	90
	0.50	83	82	84	88	81	79	81	78	89
	1.00	83	82	83	87	80	78	80	77	88
	1.50	83	83	83	87	79	78	79	76	87
	2.00	83	82	83	87	78	77	78	76	87
	2.50	83	82	82	86	77	77	77	75	86
	3.00	83	81	82	86	77	76	76	75	86
	3.50	84	82	81	86	76	76	76	75	85
	4.00	84	81	81	85	76	76	76	75	85

CTB 182

RPM	Nominal Ps	SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
1667	0.00	79	82	86	83	79	81	82	76	88
	0.50	78	81	86	82	78	80	81	73	87
	1.00	77	81	85	82	78	79	80	71	86
	1.50	76	81	85	81	78	78	78	69	85
	2.00	76	80	85	81	78	77	77	69	85
	2.50	75	80	85	80	78	77	76	69	84
1750	0.00	82	84	86	84	80	80	82	78	88
	0.50	81	84	85	83	79	81	82	75	88
	1.00	80	83	85	82	79	79	81	73	87
	1.50	80	83	85	82	79	79	80	71	86
	2.00	79	83	85	81	79	78	79	71	86
	2.50	79	82	83	81	79	78	78	71	85
1850	0.00	85	83	88	85	80	81	83	80	89
	0.50	85	83	87	84	79	80	82	78	88
	1.00	84	83	87	83	79	79	81	75	88
	1.50	83	83	87	83	79	79	81	73	87
	2.00	83	83	86	82	79	79	80	72	87
	2.50	82	83	86	82	79	78	79	72	86
2300	0.00	85	91	91	92	85	83	85	84	93
	0.50	85	89	91	91	84	83	84	84	93
	1.00	85	89	90	91	84	83	84	83	92
	1.50	85	88	90	90	84	82	83	82	92
	2.00	85	88	90	90	83	82	83	81	91
	2.50	84	88	89	90	83	82	83	81	91
	3.00	84	88	89	89	83	82	83	80	91

The sound power level ratings shown are in decibels referred to 10-12 watts calculated per AMCA Standard 301. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for installation Type A: Free inlet, Free outlet. Ratings do not include the effects of duct.



INSTALL CONFIDENCE.

Printed on recycled paper.

Johnson Controls, the Johnson Controls logo, YORK® and Heresite® are trademarks of Johnson Controls, Inc., or its affiliates, in the United States of American and/or other countries.

©2015 Johnson Controls, Inc., P.O. Box 423, Milwaukee, WI 53201 Printed in USA PUBL-7617 CTB July 2018
www.johnsoncontrols.com

