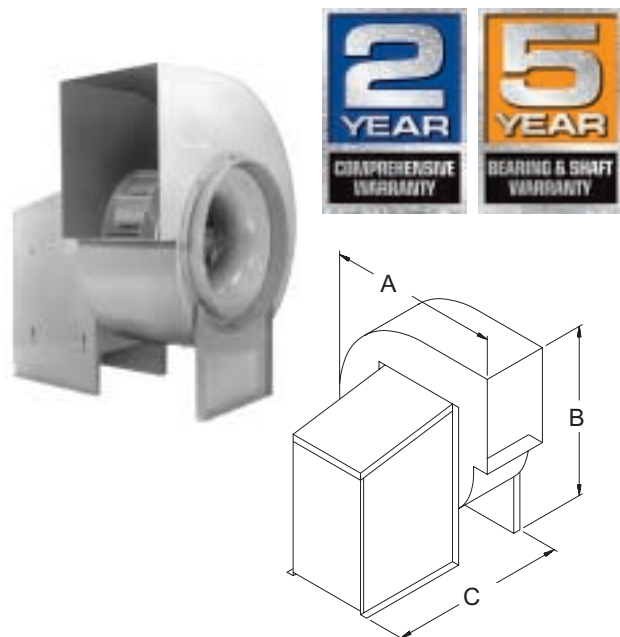




Belt Drive Centrifugal Ventset Model USBR



Model USBR is a belt drive centrifugal utility set designed for high efficiency and low sound output. The USBR utility set is a medium duty fan available in nine sizes with capacities up to 23,230 CFM and up to 3 1/2" static pressure. Maximum operating temperature of the USBR is 300°F. The USBR's compact design allows quick and easy installation in equipment rooms or on rooftops for restaurant exhaust applications.



DIMENSIONS

Fan Model	A	B	C	Inlet Dia.	Outlet L x W	Est. Unit Wt.
USBR100	17.50	23.50	21.19	10.13	10.56 x 7.00	81
USBR137	23.25	32.25	27.44	15.13	14.52 x 10.81	130
USBR161	27.38	36.75	31.57	16.88	17.16 x 12.75	176
USBR200	33.38	45.38	36.50	21.31	21.22 x 15.75	254
USBR245	41.75	55.00	44.00	26.38	26.00 x 19.24	338
USBR270	45.63	56.00	46.00	30.19	28.66 x 21.15	371
USBR300	50.88	65.50	50.07	31.69	31.84 x 23.52	514
USBR330	55.13	68.63	52.44	36.19	35.02 x 25.88	561
USBR365	60.63	76.38	55.19	40.19	38.73 x 29.61	663

Dimensions are shown in inches.
Weights are shown in pounds.



U.S. Fan International® certifies that the models 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 and comply with the requirements of the AMCA Certified Ratings Program.

Construction Features

Housing

- Heavy duty steel with lock-formed construction
- Field rotatable to any of seven discharge positions
- Design allows for clockwise or counterclockwise rotation with changing impeller
- Tough gray, baked on acrylic epoxy finish both inside and outside
- Fully gasketed and bolted access door on fan scroll is standard

Centrifugal Wheel

- Aluminum construction with backward curved hollow airfoil blades
- Non-overloading design for safe operation
- Precision balanced for smooth vibration free operation

Bearings

- Permanently lubricated in a duplex split pillow block housing
- Bearings are resiliently mounted in neoprene rings
- Rated at L₅₀ life of 200,000 hours
- **5 year** limited warranty on duplex split pillow block bearings

Drive Assembly

- Adjustable pitch motor sheave
- Cast iron drives sized for 150% of drive horsepower
- Static free, oil and heat resistant belts

Motor and Drive Support Base

- Continuous duty motors mounted on heavy duty galvanized base
- Base adjustable for easy belt take-up and slotted to accept various motor frames without re-drilling

Options/Accessories

- Inlet Vane Controls
- Dampers
- Weather Cover/Belt Guard
- Housing Drain
- Vibration Isolators
- Inlet Guard
- Outlet Flange
- Spark Resistant Construction (AMCA B)
- Coatings
- Grease Trough

Fast Ship Program	Next Day	10 Day
USBR100-300 ODP	•	•
USBR100-245 TE		•
Standard with Weather/Drive Cover; clockwise rotation only		

Consult factory for specific motor availability.



U.L. 762 Listed



CSA Certified

Consult your U.S. Fan representative for availability.

PERFORMANCE DATA																													
Fan Model	RPM	HP	Sones @ 250"	CFM vs. Static Pressure																									
				.250"		.375"		.500"		.625"		.750"		1.000"		1.250"		1.500"		1.750"		2.000"		2.500"		3.000"		3.500"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
USBR100E1	1430	1/4	9.0	513	0.04	410	0.04	304	0.04																				
	2085		15.1	857	0.13	809	0.13	761	0.13	689	0.13	619	0.13	483	0.12	316	0.11												
USBR100E2	1645	1/4	10.4	630	0.06	555	0.07	470	0.06	379	0.06	275	0.06																
	2465		18.8	1047	0.21	1005	0.22	964	0.22	923	0.22	880	0.22	751	0.22	650	0.21	516	0.20	372	0.18								
USBR100F	2100	1/3	13.4	865	0.13	817	0.13	769	0.14	699	0.14	629	0.13	495	0.13	331	0.12												
	2850		25	1235	0.32	1198	0.33	1163	0.33	1127	0.34	1092	0.34	1019	0.34	903	0.34	814	0.33	715	0.32	599	0.31						
USBR100G	2445	1/2	19.1	1037	0.21	995	0.21	954	0.21	913	0.21	866	0.22	738	0.21	634	0.21	499	0.20	351	0.18								
	3165		31	1387	0.44	1354	0.45	1321	0.45	1289	0.46	1257	0.46	1193	0.46	1124	0.47	1020	0.46	934	0.46	860	0.45	652	0.43				
USBR137F	960	1/3	9.4	1184	0.10	1014	0.10	573	0.08																				
	1440		15.9	2012	0.30	1921	0.31	1826	0.32	1722	0.33	1614	0.34	1364	0.34														
USBR137G	1150	1/2	13.1	1524	0.16	1401	0.17	1263	0.17	1106	0.17	546	0.13																
	1630		18.2	2318	0.43	2245	0.45	2162	0.46	2078	0.47	1989	0.48	1795	0.49	1572	0.49	794	0.36										
USBR137H	1395	3/4	15.2	1939	0.28	1843	0.29	1745	0.30	1634	0.30	1518	0.31	1027	0.28														
	1865		21	2691	0.63	2628	0.65	2564	0.67	2491	0.68	2417	0.69	2263	0.72	2096	0.73	1905	0.73	1526	0.69	802	0.52						
USBR137J	1630	1	18.2	2318	0.43	2245	0.45	2162	0.46	2078	0.47	1989	0.48	1795	0.49	1572	0.49	794	0.36										
	2095		24	3052	0.88	2996	0.91	2940	0.93	2883	0.95	2818	0.96	2688	0.99	2549	1.02	2400	1.03	2239	1.04	2065	1.04	968	0.76				
USBR137K	1835	1 1/2	21	2643	0.60	2579	0.62	2513	0.64	2439	0.65	2364	0.66	2205	0.69	2034	0.70	1836	0.70	1299	0.62								
	2370		29	3480	1.27	3431	1.29	3381	1.31	3332	1.34	3282	1.36	3169	1.40	3054	1.43	2936	1.46	2805	1.48	2673	1.50	2373	1.51	1513	1.27		
USBR137L	2125	2	24	3099	0.92	3044	0.94	2988	0.96	2933	0.98	2869	1.00	2741	1.03	2607	1.06	2460	1.08	2305	1.09	2134	1.09	1151	0.85				
	2610		35	3852	1.68	3807	1.71	3762	1.73	3717	1.76	3672	1.79	3579	1.83	3475	1.87	3370	1.91	3266	1.95	3147	1.97	2908	2.01	2631	2.01	1923	1.80
USBR161F	720	1/3	7.8	1426	0.10	908	0.09																						
	1080		10.4	2505	0.30	2362	0.32	2215	0.33	2062	0.34	1833	0.34																
USBR161G	895	1/3	9.0	1968	0.18	1789	0.19	1565	0.19	855	0.15																		
	1215		12.3	2880	0.42	2759	0.44	2632	0.46	2500	0.47	2365	0.48	1948	0.47														
USBR161H	1065	3/4	10.1	2462	0.29	2318	0.31	2167	0.32	2012	0.33	1754	0.32																
	1430		16.3	3463	0.67	3368	0.70	3264	0.72	3156	0.74	3048	0.75	2819	0.78	2550	0.79	1717	0.68										
USBR161J	1105	1	10.9	2576	0.32	2437	0.34	2294	0.35	2145	0.36	1962	0.36	839	0.25														
	1550		18.0	3784	0.85	3697	0.87	3607	0.90	3508	0.92	3408	0.94	3204	0.97	2992	1.00	2709	1.00	1903	0.88	1037	0.65						
USBR161K	1315	1 1/2	14.2	3153	0.53	3046	0.55	2929	0.57	2812	0.59	2688	0.60	2438	0.62	1666	0.54												
	1770		21	4368	1.24	4291	1.27	4215	1.30	4138	1.33	4051	1.35	3877	1.40	3699	1.44	3513	1.47	3327	1.50	3026	1.49	1532	1.10				
USBR161L	1550	2	18.0	3784	0.85	3697	0.87	3607	0.90	3508	0.92	3408	0.94	3204	0.97	2992	1.00	2709	1.00	1903	0.88	1037	0.65						
	1990		27	4947	1.75	4879	1.78	4811	1.81	4742	1.85	4674	1.88	4522	1.94	4367	1.99	4212	2.04	4046	2.07	3881	2.10	3440	2.12	2134	1.74		
USBR161M	1840	3	23	4553	1.39	4479	1.42	4405	1.45	4331	1.48	4252	1.51	4084	1.56	3917	1.61	3739	1.64	3560	1.66	3381	1.69	2161	1.43				
	2260		34	5653	2.53	5593	2.57	5533	2.61	5473	2.65	5413	2.69	5293	2.76	5158	2.83	5021	2.89	4885	2.95	4745	3.00	4454	3.07	4162	3.13	3574	3.05
USBR200G	595	1/2	7.7	2123	0.16	1737	0.16																						
	880		12.1	3659	0.48	3437	0.49	3219	0.51	3007	0.52	2739	0.52	1444	0.41														
USBR200H	685	3/4	10.2	2623	0.24	2349	0.25	1991	0.25	997	0.18																		
	1010		13.7	4309	0.70	4129	0.73	3935	0.75	3745	0.77	3560	0.78	3118	0.79	1985	0.67												
USBR200J	735	1	8.3	2895	0.29	2636	0.30	2354	0.31	1822	0.29																		
	1105		16.1	4775	0.91	4622	0.94	4445	0.96	4268	0.98	4094	1.00	3757	1.03	3310	1.04	2147	0.87										
USBR200K	945	1 1/2	12.9	3988	0.58	3786	0.60	3579	0.62	3381	0.64	3183	0.65	2637	0.65														
	1270		24	5572	1.35	5440	1.39	5306	1.43	5152	1.45	4998	1.48	4695	1.53	4401	1.56	4056	1.58	3639	1.57	2382	1.30						
USBR200L	1080	2	15.4	4653	0.85	4493	0.88	4312	0.90	4131	0.92	3955	0.94	3610	0.97	3125	0.97	1799	0.76										
	1385		25	6123	1.74	6002	1.78	5880	1.82	5752	1.86	5611	1.89	5329	1.94	5054	1.99	4785	2.02	4475	2.05	4093	2.04	2197	1.56				
USBR200M	1230	3	19.7	5380	1.23	5243	1.27	5099	1.30	4941	1.33	4782	1.35	4472	1.39	4169	1.43	3768	1.43	3051	1.35	1846	1.07						
	1585		32	7073	2.58	6967	2.63	6861	2.67	6755	2.72	6648	2.76	6404	2.83	6157	2.90	5913	2.96	5678	3.00	5443	3.04	4843	3.06	3471	2.73		
USBR245H	475	3/4	7.3	3338	0.24	2696	0.24																						
	705		12.7	5747	0.71	5443	0.74	5104	0.77	4736	0.78	4313	0.78																
USBR245J	580	1	8.9	4489	0.41	4068	0.43	3581	0.44	1987	0.33																		
	780		15.2	6475	0.95	6207	0.98	5933	1.02	5613	1.04	5279	1.06	4503	1.05														
USBR245K	660																												

PERFORMANCE DATA																					
Fan Model	RPM	HP	Sones @ .250"	CFM vs. Static Pressure																	
				.250"		.375"		.500"		.625"		.750"		1.000"		1.250"		1.500"		1.750"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
USBR270H	425	3/4	7.7	3744	0.27	2201	0.24														
	600		11.6	6158	0.71	5754	0.74	5276	0.77	4484	0.76	3078	0.67								
USBR270J	445	1	7.9	4078	0.31	2848	0.30														
	660		14.1	6927	0.92	6561	0.96	6194	1.00	5714	1.03	4997	1.02	2750	0.83						
USBR270K	530	1 1/2	9.3	5239	0.50	4746	0.53	3800	0.52	2331	0.44										
	745		16.6	7992	1.30	7673	1.35	7348	1.39	7023	1.44	6635	1.47	5229	1.43	3211	1.20				
USBR270L	590	2	11.2	6028	0.67	5618	0.71	5105	0.73	4167	0.71	2741	0.61								
	840		20	9151	1.82	8885	1.89	8597	1.94	8310	1.99	8022	2.05	7316	2.12	6071	2.07	4066	1.79		
USBR270M	745	3	16.6	7992	1.30	7673	1.35	7348	1.39	7023	1.44	6635	1.47	5229	1.43	3211	1.20				
	960		23	10596	2.67	10371	2.76	10134	2.83	9882	2.89	9630	2.95	9126	3.06	8535	3.15	7762	3.18	6111	2.98
USBR270N	905	5	22	9936	2.26	9697	2.33	9435	2.39	9167	2.45	8900	2.51	8366	2.62	7590	2.66	6167	2.55	4314	2.22
	1120		30	12501	4.18	12308	4.27	12116	4.37	11919	4.46	11703	4.53	11271	4.67	10839	4.80	10408	4.94	9829	5.01
USBR300J	415	1	7.6	5170	0.40	4361	0.42	2158	0.31												
	555		11.7	7709	0.90	7204	0.94	6706	0.98	6215	1.01	5118	0.97								
USBR300K	500	1 1/2	10.7	6734	0.67	6176	0.71	5631	0.74	4375	0.70	2131	0.50								
	640		14.9	9177	1.34	8740	1.39	8303	1.44	7869	1.49	7443	1.53	5881	1.49						
USBR300L	545	2	11.2	7533	0.85	7020	0.90	6514	0.93	5926	0.95	4651	0.89								
	700		17.2	10181	1.73	9795	1.79	9395	1.85	8996	1.90	8600	1.95	7821	2.03	5817	1.87				
USBR300M	575	3	12.5	8058	0.99	7571	1.04	7087	1.08	6613	1.11	5780	1.10	2207	0.72						
	790		21	11666	2.45	11344	2.53	10991	2.59	10637	2.65	10283	2.71	9582	2.82	8892	2.91	7409	2.81	4718	2.30
USBR300N	765	5	20	11256	2.23	10918	2.31	10552	2.36	10186	2.42	9821	2.48	9101	2.58	8197	2.62	6278	2.42	3389	1.83
	960		29	14430	4.30	14165	4.40	13900	4.49	13620	4.58	13329	4.65	12746	4.80	12163	4.95	11591	5.07	11023	5.17
USBR300P	895	7 1/2	26	13378	3.51	13094	3.60	12806	3.68	12494	3.75	12181	3.82	11556	3.96	10937	4.08	10328	4.18	9372	4.18
	1101		37	16695	6.42	16464	6.53	16233	6.64	16001	6.75	15767	6.85	15259	7.02	14751	7.19	14243	7.36	13735	7.53
USBR330J	330	1	5.4	5026	0.35	2335	0.27														
	460		9.1	8509	0.89	7818	0.94	6899	0.96	5031	0.89	2965	0.70								
USBR330K	390	1 1/2	7.0	6756	0.56	5607	0.58	3141	0.47												
	545		12.7	10525	1.42	9969	1.48	9386	1.54	8658	1.58	7637	1.58	4118	1.25						
USBR330L	460	2	9.1	8509	0.89	7818	0.94	6899	0.96	5031	0.89	2965	0.70								
	595		13.9	11675	1.82	11191	1.89	10657	1.96	10123	2.03	9423	2.06	7165	1.98	3885	1.52				
USBR330M	495	3	10.9	9358	1.09	8717	1.14	7972	1.18	6859	1.18	4955	1.07								
	665		18.2	13261	2.49	12833	2.58	12387	2.66	11909	2.74	11431	2.81	10206	2.89	7996	2.76	4920	2.26		
USBR330N	605	5	14.5	11903	1.90	11432	1.98	10907	2.05	10382	2.12	9726	2.16	7712	2.12	4389	1.68				
	810		26	16493	4.40	16141	4.51	15790	4.61	15438	4.72	15062	4.81	14277	5.00	13422	5.15	12362	5.23	10646	5.11
USBR330P	770	7 1/2	24	15607	3.80	15237	3.90	14868	4.00	14492	4.10	14080	4.19	13254	4.36	12222	4.46	10767	4.44	8435	4.17
	925		31	19021	6.48	18714	6.60	18406	6.72	18098	6.84	17791	6.96	17140	7.19	16453	7.40	15766	7.60	14882	7.72
USBR365K	320	1 1/2	6.3	6774	0.49	5274	0.50														
	460		13.7	11244	1.36	10556	1.41	9838	1.46	9087	1.50	7861	1.48								
USBR365L	380	2	10.4	8759	0.79	7881	0.83	6654	0.84	3841	0.67										
	515		15.2	12902	1.87	12285	1.93	11671	2.00	11023	2.05	10352	2.09	8038	2.02						
USBR365M	460	3	13.7	11244	1.36	10556	1.41	9838	1.46	9087	1.50	7861	1.48								
	595		19.9	15285	2.81	14728	2.91	14196	2.98	13664	3.06	13127	3.13	11966	3.23	10209	3.20	6369	2.63		
USBR365N	545	5	17.0	13801	2.19	13210	2.27	12629	2.34	12045	2.40	11411	2.45	9813	2.48	5983	2.04				
	700		28	18352	4.49	17871	4.61	17395	4.72	16943	4.81	16491	4.90	15587	5.07	14607	5.19	13620	5.31	11864	5.21
USBR365P	635	7 1/2	23	16460	3.39	15929	3.50	15427	3.58	14929	3.66	14431	3.74	13375	3.86	12287	3.97	10275	3.86	6373	3.11
	795		34	21088	6.50	20664	6.63	20241	6.77	19820	6.90	19422	7.00	18626	7.20	17830	7.40	16979	7.55	16110	7.68
USBR365R	700	10	28	18352	4.49	17871	4.61	17395	4.72	16943	4.81	16491	4.90	15587	5.07	14607	5.19	13620	5.31	11864	5.21
	870		45	23230	8.46	22843	8.61	22456	8.75	22069	8.90	21685	9.04	20958	9.26	20230	9.48	19503	9.70	18728	9.87

Performance shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

The sound ratings shown are loudness values in fan Sones at 5 feet (1.524m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type B: Free Inlet fan Sone levels.