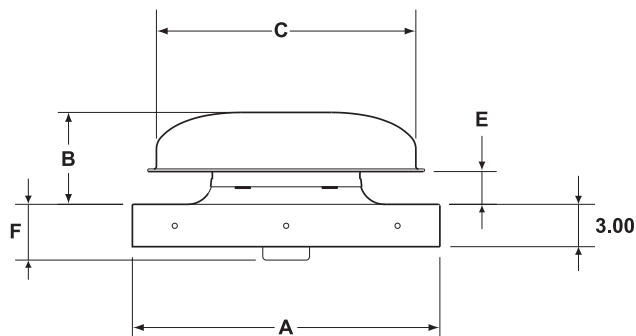




Direct Drive Propeller Roof Fan Model USQ



Model USQ ventilators are direct drive propeller roof fans designed to deliver large volumes of air at high static pressure. USQ fans operate more quietly than conventional propeller roof ventilators and are recommended for applications requiring lower noise levels. The low silhouette of the USQ harmonizes with modern architectural design.



USQ EXHAUST DIMENSIONS

Fan Model	A	B	C	E	F	Roof Opening*	Damper Model**	Curb Model	Damper Box Model
USQ10	22.00	6.61	18.63	2.36	4.41	17.50 x 17.50	AR14	C20.5	DB14LQ
USQ12	24.00	6.74	21.00	2.49	7.88	19.50 x 19.50	AR16	C22.5	DB16LQ
USQ14	26.00	8.10	24.00	3.35	8.06	21.50 x 21.50	AR18	C24.5	DB18LQ
USQ16	28.00	9.83	27.63	4.58	9.00	23.50 x 23.50	AR20	C26.5	DB20LQ
USQ18	31.00	10.76	31.60	5.01	7.42	26.50 x 26.50	AR23	C29.5	DB23LQ
USQ21	34.00	12.09	36.72	5.47	9.00	29.50 x 29.50	AR26	C32.5	DB26LQ
USQ24	38.00	13.70	41.38	5.20	11.25	33.50 x 33.50	AR30	C36.5	DB30LQ
USQ30	46.00	15.89	52.13	6.89	13.06	41.50 x 41.50	AR38	C44.5	DB38LQ
USQ36	52.50	19.00	62.38	8.13	12.75	48.00 x 48.00	AR44	C51	DB44LQ

Dimensions are shown in inches.

*Recommended maximum.

**Requires DB damper box.

USQ-S SUPPLY DIMENSIONS

Fan Model	A	B	C	E	F	Roof Opening*	Damper Model**	Curb Model	Damper Box Model
USQ-S12	24.00	7.24	24.00	2.50	7.88	19.50 x 19.50	WAGC16	C22.5	DB16LQ
USQ-S14	26.00	9.41	27.63	4.16	8.06	21.50 x 21.50	WAGC18	C24.5	DB18LQ
USQ-S16	28.00	10.31	31.60	4.56	9.00	23.50 x 23.50	WAGC20	C26.5	DB20LQ
USQ-S18	31.00	11.84	36.00	5.22	10.66	26.50 x 26.50	WAGC23	C29.5	DB23LQ
USQ-S21	34.00	13.48	41.38	4.98	13.45	29.50 x 29.50	WAGC26	C32.5	DB26LQ
USQ-S24	38.00	13.70	41.38	5.20	11.25	33.50 x 33.50	WAGC30	C36.5	DB30LQ
USQ-S30	46.00	15.89	52.13	6.89	13.06	41.50 x 41.50	WAGC38	C44.5	DB38LQ
USQ-S36	52.50	18.67	62.00	9.67	12.81	48.00 x 48.00	WAGC44	C51	DB44LQ

Dimensions are shown in inches.

*Recommended maximum.

**Requires DB damper box.



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

- Hood, orifice and curbcap constructed of heavy gauge aluminum
- Removable hood for easy access to motor and propeller
- Large streamlined orifice permits efficient, less turbulent airflow
- Rugged steel frame transmits weight of motor and propeller directly to curbcap
- Birdscreen constructed of heavy gauge galvanized steel wire mesh

Propeller

- Advanced tear-drop blade design for low noise performance with a minimum of air turbulence
- Constructed of aluminum blades fastened to a formed steel hub with heavy duty rivets
- Precision balanced for smooth vibration free operation

Motors

- Totally enclosed continuous duty type with lubricated sealed ball bearings
- Located in the full airstream for cooler operation and longer life under continuous duty

Disconnect Switch

- Factory mounted weather proof disconnect switch is standard except on 3 horsepower units

Finish

- Gray acrylic epoxy finish is standard on all steel parts

Options/Accessories

- Prefabricated Curbs
- Dampers
- Damper Boxes
- Coatings
- Solid State Controllers

Fast Ship Program	Next Day	10 Day
USQ14E4, USQ16D6, USQ18G6, USQ18J4	•	•
USQ-S14E4, USQ-S16F4, USQ-S18E6, USQ-S21G6	•	•

Consult factory for specific motor availability.



U.L. 705 Listed



CSA Certified

Consult your U.S. Fan representative for availability.

EXHAUST VENTILATORS

PERFORMANCE DATA																				
Fan Model	RPM	Tip Speed Ft./ Min.	HP	Sones @ .000" SP	CFM vs. Static Pressure														Max. BHP	Est. Ship Wt. lbs.
					.000"	.125"	.250"	.375"	.500"	.625"	.750"	.875"	1.000"	1.125"	1.250"	1.500"	1.750"	2.000"		
USQ108LO	1500	3925	.03	4.4	540	440	225												*111	19
USQ108HI	1650	4320	.03	7.1	590	505	295	185											*111	19
USQ12A6	1160	3590	.05	5.5	840	685	475	270	135										.054	38
USQ129LO	1350	4180	.11	6.7	975	845	695	500	335	210									.084	26
USQ129HI	1550	4795	.11	9.7	1120	1005	885	740	565	415	310	200							.128	26
USQ12D4	1760	5445	.17	11.3	1275	1180	1070	955	820	665	520	420	325	235	155				.187	40
USQ14C6	1160	4150	.13	9.7	1310	1155	890	640	420										.105	49
USQ14E4	1760	6295	.25	15.4	1655	1565	1465	1360	1205	1000	895	790	685	590	485				.242	49
USQ14F4	1760	6295	.33	13.5	2000	1900	1790	1670	1510	1250	1080	950	800	670	540				.366	47
USQ16D8-1	860	3560	.17	6.1	1360	1115	635	350											.071	55
USQ16D8-2	860	3560	.17	5.1	1525	1245	820	480											.092	55
USQ16C6	1160	4800	.13	11.1	1840	1670	1470	1050	770	570	370								.175	55
USQ16D6	1160	4800	.17	8.8	2050	1870	1650	1290	980	730	530								.225	57
USQ16F4	1760	7280	.33	21	2290	2200	2100	1980	1830	1580	1390	1270	1150	1030	910	710			.512	53
USQ16G4	1760	7280	.50	18.4	2790	2680	2570	2470	2320	2140	1700	1540	1360	1180	1060	800			.610	63
USQ16H4	1760	7280	.75	16.9	3160	3010	2870	2740	2600	2440	2130	1930	1750	1550	1350	1020			.783	67
USQ18D8	860	4080	.17	6.3	1940	1620	1230	850	490										.106	67
USQ18D8	860	4080	.17	7.0	2400	2080	1670	1110	640										.178	67
USQ18E6	1160	5505	.25	11.2	2620	2390	2140	1880	1530	1270	1020	810	550						.259	65
USQ18G6	1160	5505	.50	11.7	3240	3000	2760	2540	2000	1660	1310	920	700						.436	79
USQ18H4	1760	8350	.75	18.3	3970	3810	3650	3500	3340	3200	3030	2840	2580	2390	2190	1840	1530	1250	.905	79
USQ18J4	1760	8350	1.00	18.7	4340	4190	4030	3870	3720	3560	3380	3160	2870	2620	2420	2040	1670	1310	1.085	83
USQ18K4	1760	8350	1.50	23	4920	4780	4620	4460	4300	4120	3960	3820	3680	3120	2820	2420	1940	1460	1.530	84
USQ21D8	860	4690	.17	8.4	2820	2510	1790	1480	1000										.190	149
USQ21E8	860	4690	.25	8.1	3220	2760	2080	1550	1150										.252	151
USQ21F8	860	4690	.33	9.0	3570	3120	2400	2050	1460										.331	161
USQ21G6-1	1160	6325	.50	12.8	3800	3520	3230	2780	2230	1950	1780	1490	1000						.468	161
USQ21G6-2	1160	6325	.50	13.1	4350	4050	3720	3260	2650	2240	2020	1680	1110						.620	161
USQ21H6	1160	6325	.75	13.5	4820	4540	4160	3700	3100	2800	2750	2140	1400						.818	165
USQ21K4	1760	9595	1.50	26	5760	5580	5400	5210	5020	4830	4610	4300	3940	3460	3180	2880	2670	2250	1.635	166
USQ21L4	1760	9595	2.00	25	6540	6370	6170	5960	5750	5540	5270	4830	4410	4100	3800	3280	3000	2590	2.160	165
USQ24E8	860	5430	.25	7.6	3570	3175	2475	2010	1650										.285	172
USQ24H6	1160	7325	.75	14.1	4700	4450	3980	3400	2980	2660	2380	2080	1670	1210					.700	186
USQ24J6	1160	7325	1.00	16.9	5560	5280	4960	4600	4200	3740	3390	3130	2860	2530	2040				.997	208
USQ30H8	860	6700	.75	19.1	7180	6780	6220	5400	4450	3970	3570	3060	2440						.837	292
USQ30J8	860	6700	1.00	14.5	9060	8520	8000	7400	6350	5300	4980	4500	3880	3120	2230				1.213	303
USQ30L6	1160	9035	2.00	27	9450	9160	8820	8450	7970	7330	6400	5900	5580	5270	4950	4280	3500	2300	2.070	336
USQ30M6	1160	9035	3.00	25	12000	11620	11230	10800	10400	9960	9510	8550	7620	7120	6790	6200	5510	4650	2.850	342
USQ36K8	860	8020	1.50	21	11150	10530	9870	8950	7430	6600	6300	5900	5300						1.860	409
USQ36L8	860	8020	2.00	17.9	14100	13500	12800	12100	11000	9300	8600	8200	7700	7000	5900				2.420	415

*Watts

Performance shown is for installation Type A - Free inlet, Free outlet. Performance ratings include the effects of a birdscreen in the airstream. The sound level ratings shown are loudness values in fan sones at 5 feet (1.524 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan sone levels. The brake horsepower capability of a fan motor is dependent of the degree of cooling the motor receives from the moving airstream over the motor. The above motor loadings do not overheat the motor and are within NEMA recommended limits. It is therefore not detrimental to the motor and is economically desirable.

SUPPLY VENTILATORS

PERFORMANCE DATA																		
Fan Model	RPM	Tip Speed Ft./ Min.	HP	Sones @ .000" SP	CFM vs. Static Pressure												Max. BHP	Est. Ship Wt.
					.000"	.100"	.125"	.250"	.375"	.500"	.625"	.750"	.875"	1.000"	1.125"	1.250"		lbs.
USQ-S12A6	1160	3590	.05	5.8	920	550	465										.050	49
USQ-S12D4	1760	5445	.17	11.9	1395	1240	1180	835									.176	51
USQ-S14B6	1160	4150	.08	7.1	1075	840	740										.059	52
USQ-S14E4	1760	6295	.25	14.5	1630	1500	1460	1235	875								.210	57
USQ-S16C6	1160	4800	.13	9.4	1790	1440	1405										.135	68
USQ-S16D6	1160	4800	.17	11.8	1965	1440											.178	70
USQ-S16F4	1760	7280	.33	17.8	2310	2240	2210	1790	1510	1205							.402	66
USQ-S16G4	1760	7280	.50	18.3	2720	2530	2475	2100	1595								.476	76
USQ-S16H4	1760	7280	.75	21	2980	2690	2625										.705	76
USQ-S18D8	860	4080	.17	9.1	2175	1725	1620	995									.206	139
USQ-S18E6	1160	5505	.25	12.4	2655	2410	2350	2000	1605								.320	137
USQ-S18J4	1760	8350	1.00	23	4030	3860	3820	3615	3390	3160	2915	2665	2415	2150	1885	1620	1.130	155
USQ-S18K4	1760	8350	1.50	34	4450	4240	4180	3920	3640	3340	3010	2690	2490	2200			1.760	156
USQ-S21D8	860	4690	.17	8.6	2585	2245	2155	1745	1335								.216	161
USQ-S21F8	860	4690	.33	10.4	3140	2745	2625	2000	1190								.350	173
USQ-S21G6	1160	6325	.50	14.1	3485	3240	3175	2850	2530	2250	1950	1580	1075				.530	173
USQ-S21H6	1160	6325	.75	19.3	4235	3925	3850	3430	3000	2535	1990	1055					.850	177
USQ-S21K4	1760	9595	1.50	32	5270	5145	5110	4945	4755	4520	4150	3580	3280	3090	2945	2800	1.675	178
USQ-S24F8	860	5430	.33	11.5	3750	3420	3330	2840	2275								.384	183
USQ-S24H6	1160	7325	.75	20	5030	4790	4720	4360	3950	3580	3210	2800					.897	187
USQ-S24J6	1160	7325	1.00	21	5550	5240	5160	4760	4360	3970	3570	3140					1.173	209
USQ-S30J8	860	6700	1.00	19.4	6870	6400	6280	5660	4980	4120	3170						1.070	301
USQ-S30K8	860	6700	1.50	19.7	8040	7460	7320	6620	5800	4350	3470	2280					1.570	334
USQ-S30L6	1160	9035	2.00	30	9380	9070	9000	8590	8130	7690	7140	6550					2.380	334
USQ-S30M6	1160	9035	3.00	34	10700	10270	10180	9750	9420	9110	8480	7690	6750	5260			3.490	340
USQ-S36L8	860	8020	2.00	21	10550	10000	9870	9190	8500	7800	7080	6340	5530	4690			2.170	409
USQ-S36M8	860	8020	3.00	26	13500	12980	12850	12120	11380	10570	9740	8830	7900	6920	5830	4600	3.490	426

Performance shown is for installation Type A - Free inlet, Free outlet. Performance ratings include the effects of a birdscreen in the airstream. The sound level ratings shown are loudness values in fan sones at 5 feet (1.524 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Outlet fan sone levels. The brake horsepower capability of a fan motor is dependent of the degree of cooling the motor receives from the moving airstream over the motor. The motor loading beyond the motor nameplate rating does overheat the motor and is within NEMA recommended limits. It is therefore not detrimental to the motor and is economically desirable.