

ZEPHYR QUIET

Ceiling and Inline Centrifugal Fans

TECHNICAL SPECIFICATIONS



PENNBARRY™

BULLETIN ZQ20

TABLE OF CONTENTS

CERTIFICATIONS & LISTINGS	4
ZQ75-E LOW FLOW CEILING FAN	5
ZQ85-GPE VENTILATION FAN	6
ZQ80(L)-GPE AND ZQ110(L)-GPE VENTILATION FANS	7
ZQ105 - ZQ155 CEILING FANS	8
ZQ165-GPE VENTILATION FAN	9
ZQ205 - ZQ305 CEILING FANS	10
ZQ405 - ZQ705 CEILING FANS	11
ZQ905 - ZQ1505 CEILING FANS	12
ZQ2005N INLINE FANS	13

CERTIFICATIONS & LISTINGS



AMCA Certification

PennBarry certifies that the Zephyr Quiet 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.



cULus Certification

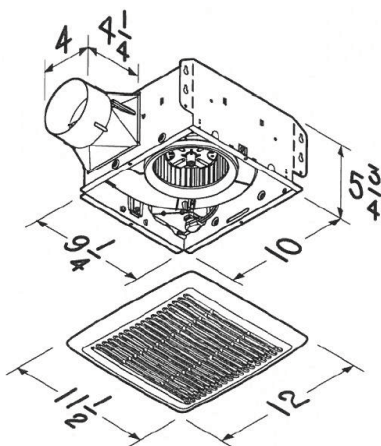
Zephyr Quiet fans carry the UL label, UL507, (GPWX), file #E17814. Zephyr fan radiation dampers carry the UL label UL555C, (CABS), file #R8039.



ENERGY STAR® Certification

Fans that are ENERGY STAR® qualified include: ZQ75-E, ZQ80(L)-GPE, ZQ85-GPE, ZQ110(L)-GPE and ZQ165-GPE

ZQ75-E | LOW FLOW CEILING FAN

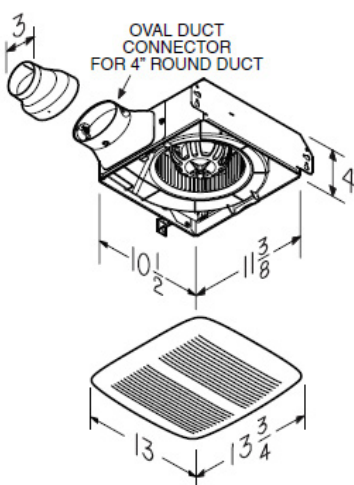


Model	Performance @ Static Pressure (SP) - Inches Water Gauge											Volts	Hz.	Nominal RPM
	0.000" SP		0.100" PS			0.125" SP		0.250" SP		0.375" SP				
	CFM	Sones	CFM	Sones	Watts	CFM	Sones	CFM	Sones	CFM	Sones			
Z2-E	87	1.0	76	1.5	26	72	1.5	56	2.5	38	3.0	120	60	840

- (1) Speed (RPM) shown is nominal. Performance is based on actual speed of test.
- (2) Performance certified is for installation type B - Free Inlet, Ducted Outlet.
- (3) Performance ratings include the effects of an inlet grille and backdraft damper in the airstream.
- (4) The sound ratings shown are for loudness values in spherical sones at 1.5 m (5 ft) in a spherical free field calculated per Annex B of AMCA 311. Values shown are for Installation type B: free inlet spherical sone levels.



ZQ85-GPE | LOW PROFILE VENTILATION FAN

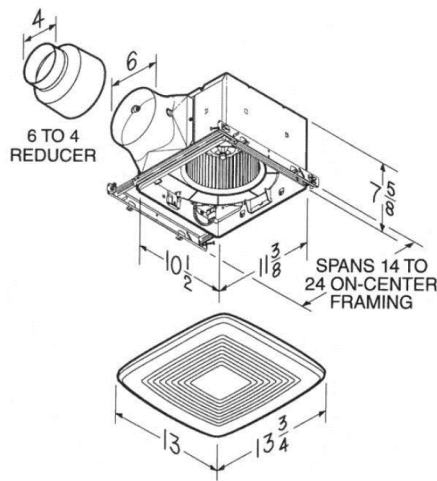


Model No.	Nominal Voltage	Performance @ Static Pressure (Ps) - Inches Water Gage								Duct Size	Nominal RPM	Max Amps	Hz	Watts
		0.000" SP		0.100" SP		0.125" SP		0.250" SP						
		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones					
ZQ85	120	104	0.6	92	0.7	86	0.8	56	1.2	4" Oval	713	0.3	60	25.7
		85	0.8	77	1.0	74	1.2	65	1.7	3" Round	820			25.0

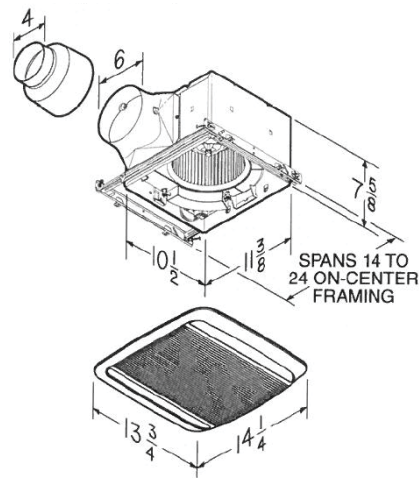
Performance ratings include the effects of inlet grille and backdraft damper. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5' (1.5m) in a spherical free field calculated per AMCA Std. 301. Values shown are for Installation Type B: Free inlet fan sone levels. Performance shown is for Installation Type B: Free inlet, Ducted outlet.



ZQ80(L)-GPE AND ZQ110(L)-GPE VENTILATION FAN



Zephyr Quiet | ZQ80, ZQ110



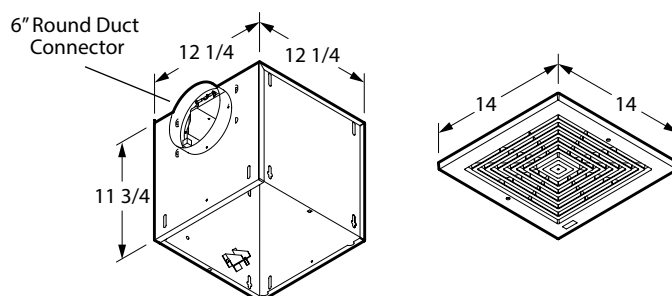
Zephyr Quiet Light | ZQ80L, ZQ110L

Model	Duct Size	Performance @ Static Pressure(Ps) - Inches Water Gage												Volts	Hz.	Nominal RPM	
		0.100" Ps			0.125" Ps		0.250" Ps		0.375" Ps		0.500" Ps		0.625" Ps				
		CFM	Sones	Watts	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM				Sones
ZQ80-GPE	4" Round	80	< 0.3	7.8	80	0.3	80	1.0	78	1.8	64	2.4	37	3.0	120	60	985
	6" Round	80	< 0.3	6.1	80	<0.3	80	0.6	78	1.4	66	2.2	38	3.0	120	60	935
ZQ110-GPE	6" Round	110	< 0.3	8.4	110	<0.3	109	1.4	100	2.3	62	3.0	28	3.6	120	60	940
ZQ80L-GPE	4" Round	80	<0.3	8.3	80	0.3	79	0.9	79	1.6	62	2.1	34	2.6	120	60	1020
	6" Round	80	<0.3	6.7	80	<0.3	79	0.6	79	1.3	70	2.1	37	2.6	120	60	980
ZQ110L-GPE	6" Round	110	0.3	9.3	110	0.4	110	1.1	93	1.9	57	2.6	22	3.4	120	60	980

- (1) Speed (RPM) shown is nominal. Performance is based on actual speed of test.
- (2) Performance certified is for installation type B - Free Inlet, Ducted Outlet.
- (3) Performance ratings include the effects of an inlet grille and backdraft damper in the airstream.
- (4) The sound ratings shown are for loudness values in spherical sones at 1.5 m (5 ft) in a spherical free field calculated per Annex B of AMCA 311. Values shown are for Installation type B: free inlet spherical sone levels.



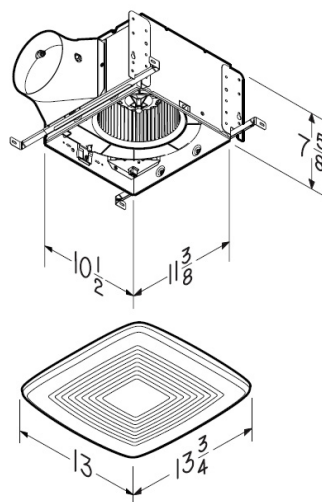
ZQ105 - ZQ155 | CEILING FANS



CFM / SONES - At Static Pressures (Ps - inches of H ₂ O)															
Model No.	Nominal Voltage		0.0" Ps	0.10" Ps	0.125" Ps	0.250" Ps	0.375" Ps	0.50" Ps	0.625" Ps	0.750" Ps	0.875" Ps	1.0" Ps	Nominal Voltage	AMPS @ 60 Hz	Watts
ZQ105	120 VAC	CFM Hor.	136	115	109	93	80	65	44	12	-	-	640	1.1	87
		Sones Hor.	0.5	0.8	0.9	1.3	1.8	2.3	3.0	3.2	-	-	-	-	-
		CFM Hor.	138	117	112	94	80	67	46	13	-	-	650	1.1	87
		Sones Hor.	0.7	0.9	1.0	1.3	1.8	2.2	2.8	3.0	-	-	-	-	-
ZQ155	120 VAC	CFM Hor.	181	161	157	141	132	124	114	94	62	-	710	1.3	100
		Sones Hor.	1.3	1.4	1.5	2.2	2.6	3.1	3.6	4.1	4.6	-	-	-	-
		CFM Hor.	179	163	160	149	142	133	122	105	73	23	750	1.3	100
		Sones Hor.	1.4	1.6	1.6	2.0	2.5	3.0	3.3	3.6	3.9	4.2	-	-	-

Performance ratings include the effects of inlet grille and backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5' (1.5m) in a hemispherical free field calculated per AMCA Std. 301. Values shown are for Installation Type B: Free inlet fan sone levels. Performance shown is for Installation Type B: Free inlet, Ducted outlet.

ZQ165-GPE | VENTILATION FAN

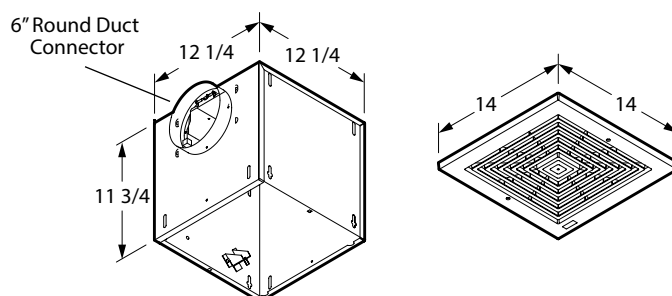


Model No.	Nominal Voltage	Performance @ Static Pressure (Ps) - Inches Water Gage								Duct Size	Nominal RPM	Max Amps	Hz	Watts
		0.000" SP		0.100" SP		0.125" SP		0.250" SP						
		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones					
ZQ165	120	174	0.5	159	0.5	149	0.6	135	0.9	6" Round	750	0.5	60	42.8

Performance ratings include the effects of inlet grille and backdraft damper. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5' (1.5m) in a spherical free field calculated per AMCA Std. 301. Values shown are for Installation Type B: Free inlet fan sone levels. Performance shown is for Installation Type B: Free inlet, Ducted outlet.



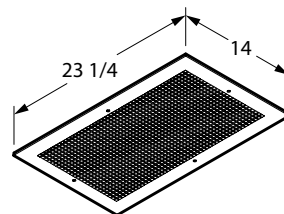
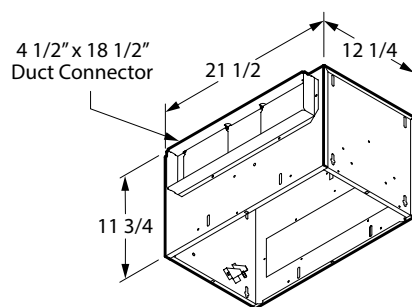
ZQ205 - ZQ305 | CEILING FANS



CFM / SONES - At Static Pressures (Ps - inches of H ₂ O)															
Model No.	Nominal Voltage		0.0" Ps	0.10" Ps	0.125" Ps	0.250" Ps	0.375" Ps	0.50" Ps	0.625" Ps	0.750" Ps	0.875" Ps	1.0" Ps	Nominal Voltage	AMPS @ 60 Hz	Watts
ZQ205	120 VAC	CFM Hor.	231	214	210	196	186	177	165	144	113	51	740	1.8	127
		Sones Hor.	1.6	1.8	1.7	2.3	2.9	3.5	4.1	4.9	5.3	5.3	-	-	-
		CFM Hor.	224	210	207	197	187	179	167	144	99	41	760	1.8	127
		Sones Hor.	1.5	1.8	2.0	2.3	2.7	3.4	4.0	4.5	5.1	5.2	-	-	-
ZQ255	120 VAC	CFM Hor.	272	261	259	250	242	233	218	201	165	99	830	2.1	166
		Sones Hor.	2.1	2.3	2.2	2.9	3.3	3.9	4.4	4.8	5.5	5.8	-	-	-
		CFM Hor.	269	261	259	253	248	239	224	203	171	101	860	2.1	166
		Sones Hor.	2.3	2.6	2.7	3.0	3.3	3.7	4.2	4.7	5.4	5.6	-	-	-
ZQ305	120 VAC	CFM Hor.	312	309	308	303	296	287	273	254	219	125	905	2.6	212
		Sones Hor.	2.8	2.9	2.9	3.3	3.5	3.9	4.3	4.7	5.1	5.6	-	-	-
		CFM Hor.	319	314	313	306	299	288	274	251	219	20	940	2.6	212
		Sones Hor.	2.6	2.9	3.0	3.4	3.6	3.9	4.4	4.7	5.0	5.5	-	-	-

Performance ratings include the effects of inlet grille and backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5' (1.5m) in a hemispherical free field calculated per AMCA Std. 301. Values shown are for Installation Type B: Free inlet fan sone levels. Performance shown is for Installation Type B: Free inlet, Ducted outlet.

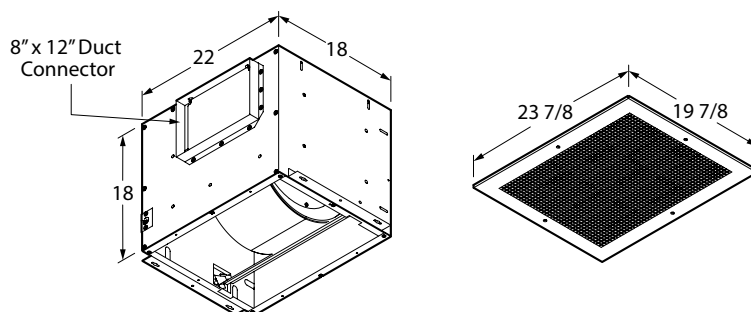
ZQ405 - ZQ705 | CEILING FANS



CFM / SONES - At Static Pressures (Ps - inches of H ₂ O)															
Model No.	Nominal Voltage		0.0" Ps	0.10" Ps	0.125" Ps	0.250" Ps	0.375" Ps	0.50" Ps	0.625" Ps	0.750" Ps	0.875" Ps	1.0" Ps	Nominal Voltage	AMPS @ 60 Hz	Watts
ZQ405	120 VAC	CFM Hor.	480	442	434	388	344	299	229	182	114	33	735	1.4	146
		Sones Hor.	2.0	2.4	2.3	2.8	3.3	3.8	4.5	4.8	5.4	5.6	-	-	-
		CFM Hor.	467	428	416	378	335	291	237	170	85	8	755	1.4	146
		Sones Hor.	2.3	2.6	2.6	3.0	3.5	4.0	5.1	5.5	5.7	5.9	-	-	-
ZQ505	120 VAC	CFM Hor.	538	520	514	491	463	434	389	339	282	186	810	2.2	232
		Sones Hor.	3.0	3.1	3.3	3.6	4.0	4.4	5.0	5.7	6.2	6.7	-	-	-
		CFM Hor.	539	517	512	481	451	418	367	319	247	137	865	2.2	232
		Sones Hor.	2.9	3.1	3.2	3.4	3.8	4.2	4.8	5.9	6.3	6.4	-	-	-
ZQ705	120 VAC	CFM Hor.	722	704	701	667	640	607	571	534	453	333	960	2.9	313
		Sones Hor.	4.5	4.6	4.7	4.8	5.0	5.2	5.6	6.2	7.1	7.2	-	-	-
		CFM Hor.	708	691	687	658	628	597	560	515	444	312	985	2.9	313
		Sones Hor.	5.2	5.0	5.0	5.7	5.8	6.1	6.4	7.4	7.1	7.6	-	-	-

Performance ratings include the effects of inlet grille and backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5' (1.5m) in a hemispherical free field calculated per AMCA Std. 301. Values shown are for Installation Type B: Free inlet fan sone levels. Performance shown is for Installation Type B: Free inlet, Ducted outlet.

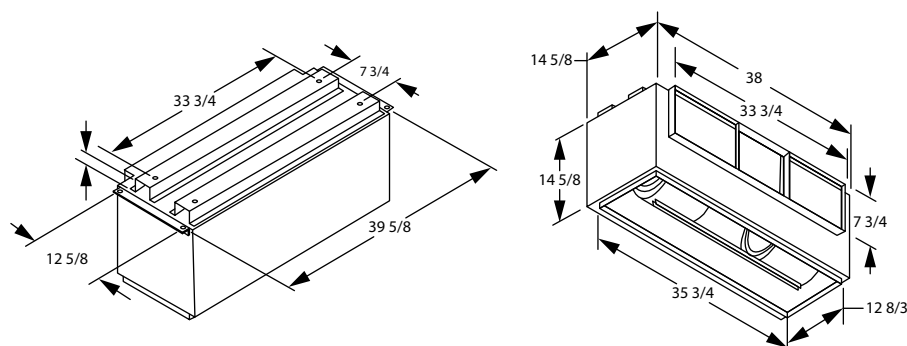
ZQ905 - ZQ1505 | CEILING FANS



CFM / SONES - At Static Pressures (Ps - inches of H ₂ O)															
Model No.	Nominal Voltage		0.0" Ps	0.10" Ps	0.125" Ps	0.250" Ps	0.375" Ps	0.50" Ps	0.625" Ps	0.750" Ps	0.875" Ps	1.0" Ps	Nominal Voltage	AMPS @ 60 Hz	Watts
ZQ905	120 VAC	CFM Hor.	918	905	01	877	842	793	725	636	536	390	650	3.0	306
		Sones Hor.	3.8	4.0	4.1	4.0	4.2	4.3	4.4	4.9	4.5	5.3	-	-	-
		CFM Hor.	909	892	885	850	807	756	695	568	440	282	650	3.0	306
		Sones Hor.	3.8	3.4	3.4	3.5	3.6	3.7	3.9	4.2	4.3	4.4	-	-	-
ZQ1505	120 VAC	CFM Hor.	1578	1526	1513	1438	1371	1285	1198	1103	1000	816	955	5.0	468
		Sones Hor.	8.6	8.4	8.4	8.1	7.5	7.0	6.7	6.2	5.8	5.8	-	-	-
		CFM Hor.	1590	1519	1502	1423	1340	1259	1176	1069	954	689	955	5.0	468
		Sones Hor.	8.5	8.4	8.4	8.1	7.9	7.5	7.2	7.1	6.9	6.5	-	-	-

Performance ratings include the effects of inlet grille and backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5' (1.5m) in a hemispherical free field calculated per AMCA Std. 301. Values shown are for Installation Type B: Free inlet fan sone levels. Performance shown is for Installation Type B: Free inlet, Ducted outlet.

ZQ2005N | INLINE FANS



CFM / SONES - At Static Pressures (Ps - inches of H ₂ O)															
Model No.	Nominal Voltage		0.0" Ps	0.10" Ps	0.125" Ps	0.250" Ps	0.375" Ps	0.50" Ps	0.625" Ps	0.750" Ps	0.875" Ps	1.0" Ps	Nominal Voltage	AMPS @ 60 Hz	Watts
ZQ2005N	120 VAC	CFM St. Thr.	1891	1803	1791	1657	1508	1347	1165	808	284	-	965	5.8	590
		Sones St. Thr.	10.3	9.8	9.4	9.0	8.6	9.1	8.9	7.0	6.7	-	-	-	-
		CFM Rt. Ang.	2070	1931	1898	1769	1609	1424	1314	795	288	-	1020	5.8	635
		Sones Rt. Ang.	11.1	10.3	10.1	9.7	9.4	9.2	8.5	7.0	6.7	-	-	-	-

Performance ratings include the effects of inlet grille and backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5' (1.5m) in a hemispherical free field calculated per AMCA Std. 301. Values shown are for Installation Type B: Free inlet fan sone levels. Performance shown is for Installation Type B: Free inlet, Ducted outlet.

PENNBARRYPRODUCTSOLUTIONS



Commercial

- Roof & wall exhaust centrifugal fans
- Ceiling, wall, & inline centrifugal fans
- Roof supply centrifugal fans
- Square & round centrifugal fans
- Wall mounted axial fans
- Hooded roof axial fans
- Upblast roof axial fans
- Gravity ventilators
- Roof curbs



Industrial

- Freestanding centrifugal fans
- Industrial & material handling fans
- Tubular centrifugal inline fans
- Mixed flow centrifugal fans
- Plug & plenum fans
- Wall mounted propeller fans
- Tube axial fans
- Vane axial fans
- Bifurcator fans
- Lab exhaust



Kitchen ventilation

- Make-up air units
- Exhaust fans



Energy recovery

- Outdoor units
- Indoor units

PennBarry is proud to be your preferred manufacturer of commercial and industrial fans and blowers. Learn how PennBarry can assist you in your next application by contacting your PennBarry Representative or visiting us on the web at www.pennbarry.com

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