

# ZEPHYR

Ceiling Exhaust Fans

## TECHNICAL SPECIFICATIONS



PENNBARRY™

BULLETIN Z18

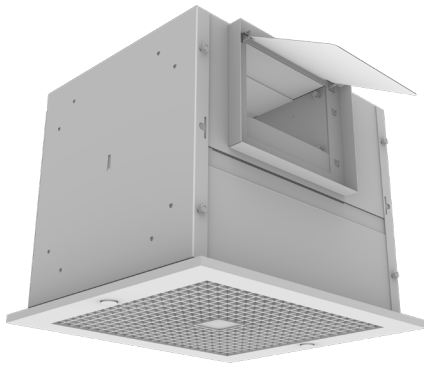
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# INTRODUCTION

## Zephyr Z & Z-TDA Models

The Zephyrs, model Z, are quiet ceiling exhaust fans. Some selections are available with sound ratings below 1 sone. There are 15 types of models that cover a wide range of performance. The units are easily field convertible to change the discharge orientation from right angle to top discharge. They are also easily field convertible from ceiling (model Z) to inline (model Z-TDA) installations. There are multiple sizes that utilize 2 speed motors which allow these units to cover an even greater range. All motors are equipped with thermal overload protection as standard. The units utilize quick access wiring to make them easy to install. Many of the units are offered with variable speed motor control which will allow for easy balancing. All models are AMCA Air and Sound rated and UL507 listed. Select models are UL705 listed. ENERGY STAR® is also available on select models.

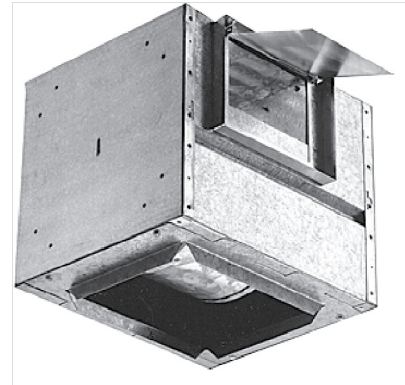


*Zephyr*



### Model: Z2 - Z12

- Zephyr models are ENERGY STAR approved.
- Static pressure up to 1.25" wg.
- Flow capacity up to 1566 CFM.



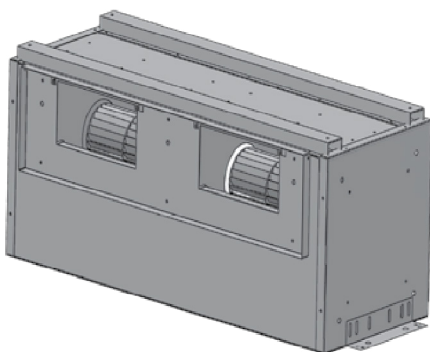
*Zephyr TDA*

### Model: Z2 - Z12 (TDA)

- Static pressure up to 1.5" wg.
- Flow capacity up to 1519 CFM.

## Large Capacity Zephyr Fans

PennBarry Zephyr fan models Z14 and Z15 are designed to produce high volumes of air at low noise levels. Fans can be used for general ventilation and exhaust applications. These larger capacity fans will accommodate single or multi-room ventilation and can be installed above the ceiling. The units are AMCA Air certified and UL705 listed. The Z14 is also UL507 listed.



### Model: Z14 & Z15

- Static pressure up to 1" wg.
- Flow capacity up to 3290 CFM.

# INTRODUCTION

## Zephyrette & Zephyr Jr.

The Zephyrette, ZT, and Zephyr Junior, ZJ1, are quiet low profile Zephyrs. They can be installed into very shallow ceilings where other units will not fit. A speed controller is available for both models for precise system balancing and energy conservation. The units come standard with thermally protected motors, AMCA Air rated and UL705, UL507, and CSA listed.



### Model: Zephyrette & Zephyr Jr. (ZT & ZJ1)

- Static pressure up to 0.75" wg.
- Flow capacity up to 160 CFM.

## Zephyr Transfan

The Transfan is a room-to-room transfer fan. It has an adjustable wall sleeve for varying wall thicknesses and fits easily between wall studs or ceiling joists. It is supplied with a built-in variable speed motor control. It is UL705, UL507, and CSA listed.



### Model: Transfan (TF-8)

- Static pressure up to 0.2" wg.
- Flow capacity up to 255 CFM.

# INTRODUCTION

## Zephyr Ceiling Fan

The Zephyr, Z1, is for very low flow requirements. The unit comes with a white polymeric grille and utilizes a quiet centrifugal blower wheel. The housing is made from rugged steel and has built-in mounting brackets. The exhaust connection is a 4" polymeric round duct connector that has a durable damper that eliminates backdrafts and produces no metallic clatter. The Z1 is UL507 listed for use over bathtubs and showers when connected to a GFCI protected branch circuit. The Z1 is AMCA licensed for Sound and Air performance.

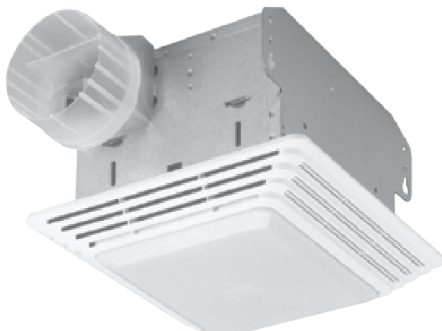


### Model: Z1

- Static pressure up to 0.5" wg.
- Flow capacity up to 56 CFM.

## Zephyr Ceiling Fans with Light

The Zephyr Light models, ZL1 and ZL2, come with a maximum of 100 watt incandescent light (bulb not included). The units are supplied with an open drip proof motor that utilizes sealed bearings. The units come with a white polymeric grille that has an unbreakable light lens. They utilize quiet centrifugal blower wheels with plug-in receptacles for the fan and light. The housing is made from rugged steel and has built-in mounting brackets. The exhaust connection is a 4" polymeric round duct connector that has a durable damper that eliminates backdrafts and produces no metallic clatter. The models are UL507 listed for use over bathtubs and showers when connected to a GFCI protected branch circuit. The units are AMCA licensed for Sound and Air performance.



### Model: ZL1 & ZL2

- Static pressure up to 0.5" wg.
- Flow capacity up to 97 CFM.

# INTRODUCTION

## Zephyr Quiet Ceiling Fan

The Zephyr Quiet line (ZQ) achieves a <0.3 Sone level which provides a nearly silent operation for minimal disruption of your environment. Suitable for intermittent or continuous ventilation needs, the unit comes with a white polymeric grille and utilizes a quiet centrifugal blower wheel. The housing is made from rugged steel and has built-in mounting brackets. The exhaust connection is a 6" polymeric round duct connector that has a durable damper that eliminates backdrafts and produces no metallic clatter. The Zephyr Quiet Light (L) models comes with a bright, energy efficient 36-watt fluorescent light. The ZQ line is UL507 listed for use over bathtubs and showers when connected to a GFCI protected branch circuit. The ZQ line is AMCA licensed for Sound and Air performance and ENERGY STAR® certified.



### Models: ZQ80(L)-GPE & ZQ110(L)-GPE

- Static pressure up to 0.625" wg.
- Flow capacity up to 110 CFM.

# CERTIFICATIONS & LISTINGS



## AMCA Certification

PennBarry certifies that the Zephyr models shown herein (excludes Transfan) 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

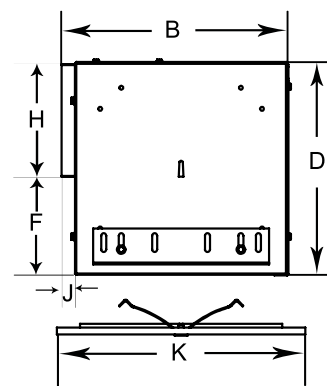
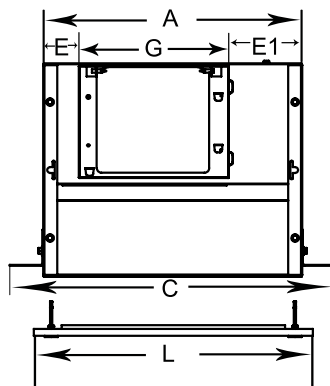
Zephyr fans carry the UL label, UL705, (ZACT/ZACT7), file #E28413 and UL507, (GPWX), file #E39313. Zephyr fan radiation dampers carry the UL label UL555C, (CABS), file #R8039. Models Z1, ZL1, ZL2, Z8-GP, Z10-GP, Z12-GP, ZQ80(L)-GPE, ZQ110(L)-GPE, Z8- GPE, Z10-GPE, Z12-GPE are not UL705 certified. Model Z15 is not UL507 certified.



## ENERGY STAR® Certification

Fans that are ENERGY STAR® qualified include: Z2-E, Z8-GPE, Z10-GPE, Z12-GPE, ZQ80(L)-GPE and ZQ110(L)-GPE

# Z3 - Z12 | CEILING FANS



| Model                                | Housing |         |         |         |        |        |        | Outlet Duct |        |      | Grille  |         |
|--------------------------------------|---------|---------|---------|---------|--------|--------|--------|-------------|--------|------|---------|---------|
|                                      | A       | B       | C       | D       | E      | E1     | F      | G           | H      | J    | K       | L       |
| Z3, 5, 6                             | 12 1/2" | 9 1/8"  | 16"     | 9 1/8"  | 1 1/4" | 1 1/4" | 5 3/8" | 10"         | 3 1/4" | 3/4" | 11"     | 13 3/4" |
| Z8, 81, 8-GP, 8-GPE                  | 13 7/8" | 11 3/8" | 17 3/8" | 11 3/8" | 1 7/8" | 4"     | 5 1/4" | 8"          | 6"     | 3/4" | 13 1/4" | 14 7/8" |
| Z10, 10-GP, 10-GPE                   | 18"     | 14 1/8" | 21 1/2" | 14 1/8" | 3 5/8" | 6 3/8" | 8"     | 8"          | 6"     | 3/4" | 15 1/2" | 19 3/8" |
| 12, 101, 102, 121, 12-GP, and 12-GPE | 24"     | 14 1/8" | 27 1/2" | 14 1/8" | 1"     | 1"     | 8"     | 22"         | 6"     | 3/4" | 15 1/2" | 25"     |

| Model             | Max. Watts | Amps | RPM  | SP                               | 0.000" | 0.125" | 0.250" | 0.375" | 0.500" | 0.625" | 0.750" |
|-------------------|------------|------|------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Z3H               | 39         | 0.5  | 1550 | CFM                              | 119    | 83     | -      | -      | -      | -      | -      |
|                   |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 4.5    | 4.1    | -      | -      | -      | -      | -      |
|                   |            |      |      | SPHERICAL SONES <sup>4</sup>     | 3.6    | 3.2    | -      | -      | -      | -      | -      |
| Z5H               | 79         | 1    | 1550 | CFM                              | 192    | 163    | 128    | 93     | -      | -      | -      |
|                   |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 3.4    | 3.3    | 3.3    | 3.4    | -      | -      | -      |
|                   |            |      |      | SPHERICAL SONES <sup>4</sup>     | 1.5    | 1.6    | 1.6    | 1.7    | -      | -      | -      |
| Z6S <sup>5</sup>  | 47         | 0.6  | 1050 | CFM                              | 123    | 101    | 82     | -      | -      | -      | -      |
|                   |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 0.9    | 1.4    | 1.8    | -      | -      | -      | -      |
|                   |            |      |      | SPHERICAL SONES <sup>4</sup>     | 0.2    | 0.5    | 0.9    | -      | -      | -      | -      |
| Z6H <sup>5</sup>  | 108        | 1.4  | 1550 | CFM                              | 230    | 196    | 166    | 122    | -      | -      | -      |
|                   |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 3.3    | 3      | 3      | 3.1    | -      | -      | -      |
|                   |            |      |      | SPHERICAL SONES <sup>4</sup>     | 2.3    | 2.0    | 1.9    | 2.0    | -      | -      | -      |
| Z8S <sup>6</sup>  | 77         | 1    | 1050 | CFM                              | 272    | 247    | 231    | 217    | 199    | -      | -      |
|                   |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 2.1    | 2.4    | 2.9    | 3.3    | 3.6    | -      | -      |
|                   |            |      |      | SPHERICAL SONES <sup>4</sup>     | 1.0    | 1.4    | 1.9    | 2.4    | 2.8    | -      | -      |
| Z81 <sup>5</sup>  | 77         | 0.9  | 1050 | CFM                              | 310    | 273    | 239    | 213    | 182    | 136    | 73     |
|                   |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 2.5    | 2.7    | 2.9    | 3.3    | 3.7    | 4.2    | 4.3    |
|                   |            |      |      | SPHERICAL SONES <sup>4</sup>     | 1.5    | 1.7    | 1.9    | 2.3    | 2.8    | 3.1    | 3.2    |
| Z8H <sup>6</sup>  | 130        | 1.6  | 1550 | CFM                              | 426    | 401    | 377    | 357    | 341    | 328    | 304    |
|                   |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 4.5    | 4.7    | 4.7    | 5.1    | 5.6    | 5.8    | 5.8    |
|                   |            |      |      | SPHERICAL SONES <sup>4</sup>     | 3.4    | 3.7    | 3.6    | 4.1    | 4.6    | 4.7    | 4.8    |
| Z10S <sup>7</sup> | 243        | 2.5  | 1050 | CFM                              | 469    | 441    | 423    | 403    | 387    | 367    | 347    |
|                   |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 4.5    | 4.8    | 5.1    | 5.4    | 5.6    | 5.8    | 6      |
|                   |            |      |      | SPHERICAL SONES <sup>4</sup>     | 3.4    | 3.8    | 4.0    | 4.4    | 4.6    | 4.7    | 4.9    |



## Z3 - Z12 | CEILING FANS

| Model             | Max. Watts           | Amps | RPM  | SP                               | 0.000" | 0.125" | 0.250" | 0.375" | 0.500" | 0.625" | 0.750" |
|-------------------|----------------------|------|------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Z10IS             | 153                  | 1.6  | 1050 | CFM                              | 612    | 537    | 467    | 405    | 222    | 116    | -      |
|                   |                      |      |      | HEMISPHERICAL SONES <sup>3</sup> | 3.9    | 3.6    | 3.9    | 4.6    | 5.5    | 6      | -      |
|                   |                      |      |      | SPHERICAL SONES <sup>4</sup>     | 2.9    | 2.5    | 2.9    | 3.6    | 4.3    | 5.2    | -      |
| Z10H <sup>7</sup> | 390                  | 3.6  | 1550 | CFM                              | 728    | 694    | 664    | 638    | 613    | 591    | 565    |
|                   |                      |      |      | HEMISPHERICAL SONES <sup>3</sup> | 8.6    | 8.6    | 8.6    | 8.7    | 8.6    | 8.8    | 8.8    |
|                   |                      |      |      | SPHERICAL SONES <sup>4</sup>     | 7.3    | 7.4    | 7.5    | 7.4    | 7.4    | 7.8    | 7.7    |
| Z102S             | 269                  | 4.5  | 1050 | CFM                              | 816    | 747    | 691    | 602    | 335    | -      | -      |
|                   |                      |      |      | HEMISPHERICAL SONES <sup>3</sup> | 5.8    | 5.8    | 5.4    | 5      | 4.9    | -      | -      |
|                   |                      |      |      | SPHERICAL SONES <sup>4</sup>     | 4.6    | 4.6    | 4.1    | 3.7    | 3.8    | -      | -      |
| Z12S              | 260                  | 2.9  | 1050 | CFM                              | 901    | 855    | 812    | 755    | 683    | 552    | -      |
|                   |                      |      |      | HEMISPHERICAL SONES <sup>3</sup> | 5.8    | 5.9    | 6.3    | 6.5    | 6.5    | 6      | -      |
|                   |                      |      |      | SPHERICAL SONES <sup>4</sup>     | 4.6    | 4.8    | 5.2    | 5.2    | 5.3    | 5.0    | -      |
| Z12IS             | 370                  | 3.6  | 1050 | CFM                              | 1083   | 1062   | 1024   | 949    | 838    | 686    | 270    |
|                   |                      |      |      | HEMISPHERICAL SONES <sup>3</sup> | 7      | 6.9    | 6.6    | 6.1    | 5.7    | 5.3    | 4.6    |
|                   |                      |      |      | SPHERICAL SONES <sup>4</sup>     | 5.9    | 6.0    | 5.6    | 5.1    | 4.8    | 4.2    | 3.6    |
| Z102H             | 812<br>(BHP<br>0.53) | 7.5  | 1550 | CFM                              | 1435   | 1385   | 1338   | 1294   | 1247   | 1203   | 1163   |
|                   |                      |      |      | HEMISPHERICAL SONES <sup>3</sup> | 11.8   | 11.7   | 11.9   | 11.9   | 11.7   | 11.3   | 11     |
|                   |                      |      |      | SPHERICAL SONES <sup>4</sup>     | 10.4   | 10.1   | 10.3   | 10.3   | 10.0   | 9.8    | 9.6    |
| Z12H              | 851<br>(BHP<br>0.65) | 7.9  | 1550 | CFM                              | 1566   | 1511   | 1464   | 1417   | 1364   | 1307   | 1251   |
|                   |                      |      |      | HEMISPHERICAL SONES <sup>3</sup> | 13.5   | 13.3   | 12.9   | 12.7   | 12.3   | 12     | 11.7   |
|                   |                      |      |      | SPHERICAL SONES <sup>4</sup>     | 11.6   | 11.4   | 11.0   | 11.0   | 10.7   | 10.4   | 10.1   |

- (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 loudness values in fan sones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation type B: free inlet hemispherical sone levels.
- (5) 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.
- (6) Specify discharge configuration. Standard types are RA, TD, TDA and TDA-RA.
- (7) When ordered with a 115V, ODP motor, Z6S and Z6H is the same unit shipped with dual speed motor. Wired on S (low) speed.
- (8) When ordered with a 115V, ODP motor, Z8S and Z8H is the same unit shipped with dual speed motor. Wired on S (low) speed.
- (9) When ordered with a 115V, ODP motor, Z10S and Z10H is the same unit shipped with dual speed motor. Wired on S (low) speed.

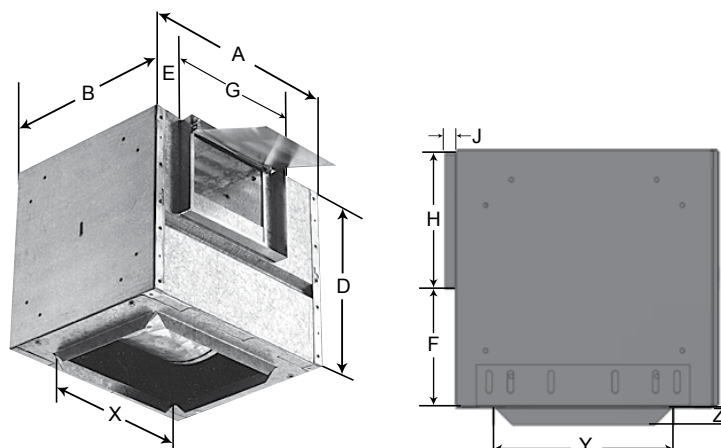
# Z8, Z10, Z12-GPE | CEILING FANS

## Zephyr Electronically Commuted (EC)

| Model   | ENERGY STAR®                                                                      | RPM  | CFM / Watt at 0.1 SP | 0.000 |       | 0.100 |       | 0.125 |       | 0.250 |       | 0.375 |       | 0.500 |       | 0.625 |       | 0.750 |       | 0.875 |       | 1.000 |       | 1.125 |       |
|---------|-----------------------------------------------------------------------------------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                                                                   |      |                      | CFM   | Sones | CFM   | Sones | CFM   | Sones | CFM   | Sones | CFM   | Sones | CFM   | Sones | CFM   | Sones | CFM   | Sones | CFM   | Sones | CFM   | Sones | CFM   | Sones |
| Z8-GPE  |  | 755  | 11.2                 | 248   | 2.0   | 188   | 1.8   | 169   | 1.7   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Z8-GP   |                                                                                   | 1380 | 4.1                  | 470   | 5.9   | 453   | 5.8   | 449   | 5.8   | 421   | 5.7   | 373   | 5.5   | 331   | 5.4   | 261   | 5.3   |       |       |       |       |       |       |       |       |
| Z10-GPE |  | 740  | 10.8                 | 285   | 2.0   | 200   | 1.5   | 170   | 1.4   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Z10-GP  |                                                                                   | 1580 | 3.3                  | 691   | 8.2   | 649   | 7.9   | 607   | 7.9   | 558   | 7.6   | 500   | 7.4   | 432   | 7.1   | 362   | 6.9   |       |       |       |       |       |       |       |       |
| Z12-GPE |  | 530  | 10.8                 | 547   | 3.0   | 278   | 2.8   | 166   | 2.7   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Z12-GP  |                                                                                   | 1355 | 3.2                  | 1545  | 10.6  | 1496  | 10.6  | 1484  | 10.6  | 1418  | 10.1  | 1321  | 9.8   | 1222  | 9.7   | 1123  | 9.5   | 1009  | 9.4   | 817   | 9.0   | 502   | 8.9   | 222   | 8.5   |

- (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.

# Z3 - Z12 (TDA) | CEILING FANS



| Model               | Housing |         |         |         |        |        |        | Outlet Duct |        |      | TDA Panel |     |         |
|---------------------|---------|---------|---------|---------|--------|--------|--------|-------------|--------|------|-----------|-----|---------|
|                     | A       | B       | C       | D       | E      | E1     | F      | G           | H      | J    | X         | Y   | Z       |
| Z3, 5, 6            | 12 1/2" | 9 1/8"  | 16"     | 9 1/8"  | 1 1/4" | 1 1/4" | 5 3/8" | 10"         | 3 1/4" | 3/4" | 10"       | 6"  | 1 5/8"  |
| Z8, 81, 8-GP, 8-GPE | 13 7/8" | 11 3/8" | 17 3/8" | 11 3/8" | 1 7/8" | 4"     | 5 1/4" | 8"          | 6"     | 3/4" | 10"       | 8"  | 1 9/16" |
| Z10, 10-GP, 10-GPE  | 18"     | 14 1/8" | 21 1/2" | 14 1/8" | 3 5/8" | 6 3/8" | 8"     | 8"          | 6"     | 3/4" | 14"       | 10" | 2"      |
| 12, 12-GP, 12-GPE   | 24"     | 14 1/8" | 27 1/2" | 14 1/8" | 1"     | 1"     | 8"     | 22"         | 6"     | 3/4" | 20"       | 10" | 2"      |
| Z101                | 24"     | 14 1/8" | 27 1/2" | 14 1/8" | 1"     | 1"     | 8"     | 22"         | 6"     | 3/4" | 20"       | 10" | 2"      |
| Z102                | 24"     | 14 1/8" | 27 1/2" | 14 1/8" | 1"     | 1"     | 8"     | 22"         | 6"     | 3/4" | 20"       | 10" | 2"      |
| Z121                | 24"     | 14 1/8" | 27 1/2" | 14 1/8" | 1"     | 1"     | 8"     | 22"         | 6"     | 3/4" | 20"       | 10" | 2"      |

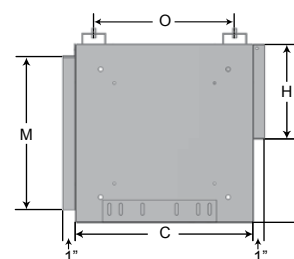
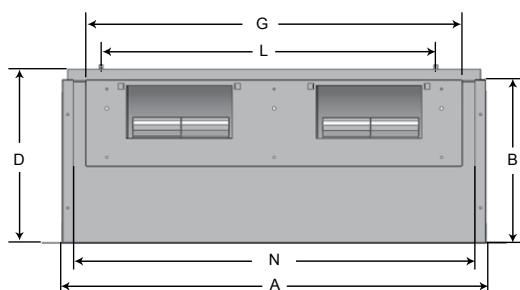
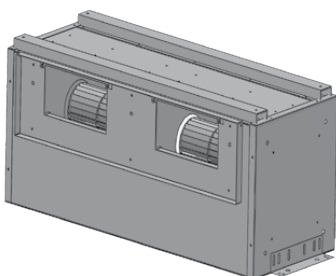
| Model                  | Max. Watts | Amps | RPM  | SP                               | 0.000" | 0.125" | 0.250" | 0.375" | 0.500" | 0.625" | 0.750" | 1.000" | 1.250" | 1.500" |
|------------------------|------------|------|------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Z3H (TDA)              | 42         | 0.5  | 1550 | CFM                              | 107    | 81     | -      | -      | -      | -      | -      | -      | -      | -      |
|                        |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 1.7    | 1.9    | -      | -      | -      | -      | -      | -      | -      | -      |
|                        |            |      |      | SPHERICAL SONES <sup>4</sup>     | 0.8    | 0.9    | -      | -      | -      | -      | -      | -      | -      | -      |
| Z5H (TDA)              | 83         | 1    | 1550 | CFM                              | 199    | 171    | 143    | 104    | -      | -      | -      | -      | -      | -      |
|                        |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 1.9    | 2      | 2.1    | 2.1    | -      | -      | -      | -      | -      | -      |
|                        |            |      |      | SPHERICAL SONES <sup>4</sup>     | 0.9    | 1.0    | 1.2    | 1.3    | -      | -      | -      | -      | -      | -      |
| Z6S (TDA) <sup>5</sup> | 46         | 0.6  | 1050 | CFM                              | 127    | 93     | 66     | -      | -      | -      | -      | -      | -      | -      |
|                        |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 0.9    | 1.2    | 1.6    | -      | -      | -      | -      | -      | -      | -      |
|                        |            |      |      | SPHERICAL SONES <sup>4</sup>     | 0.3    | 0.5    | 0.8    | -      | -      | -      | -      | -      | -      | -      |
| Z6H (TDA) <sup>5</sup> | 108        | 1.4  | 1550 | CFM                              | 227    | 192    | 157    | 113    | -      | -      | -      | -      | -      | -      |
|                        |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 2.7    | 2.7    | 2.8    | 2.9    | -      | -      | -      | -      | -      | -      |
|                        |            |      |      | SPHERICAL SONES <sup>4</sup>     | 1.8    | 1.7    | 1.8    | 2.0    | -      | -      | -      | -      | -      | -      |
| Z8S (TDA) <sup>6</sup> | 75         | 1    | 1050 | CFM                              | 255    | 228    | 208    | 190    | 165    | 139    | 110    | -      | -      | -      |
|                        |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 1.8    | 1.9    | 2.4    | 2.8    | 3.3    | 3.6    | 3.7    | -      | -      | -      |
|                        |            |      |      | SPHERICAL SONES <sup>4</sup>     | 0.8    | 1.0    | 1.4    | 1.9    | 2.3    | 2.6    | 2.8    | -      | -      | -      |
| Z81S (TDA)             | 84         | 0.9  | 1050 | CFM                              | 307    | 274    | 252    | 228    | 198    | 152    | 95     | -      | -      | -      |
|                        |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 2.2    | 2.2    | 2.5    | 2.9    | 3.1    | 3.3    | 3.5    | -      | -      | -      |
|                        |            |      |      | SPHERICAL SONES <sup>4</sup>     | 1.2    | 1.1    | 1.4    | 1.8    | 2.1    | 2.3    | 2.6    | -      | -      | -      |
| Z8H (TDA) <sup>6</sup> | 132        | 1.6  | 1550 | CFM                              | 402    | 376    | 350    | 335    | 318    | 301    | 277    | -      | -      | -      |
|                        |            |      |      | HEMISPHERICAL SONES <sup>3</sup> | 4.1    | 3.9    | 3.9    | 4.2    | 4.4    | 4.6    | 4.9    | -      | -      | -      |
|                        |            |      |      | SPHERICAL SONES <sup>4</sup>     | 3.1    | 2.9    | 2.9    | 3.2    | 3.5    | 3.8    | 4.1    | -      | -      | -      |

## Z3 - Z12 (TDA) | CEILING FANS

| Model                   | Max. Watts     | Amps | RPM  | SP                               | 0.000" | 0.125" | 0.250" | 0.375" | 0.500" | 0.625" | 0.750" | 1.000" | 1.250" | 1.500" |
|-------------------------|----------------|------|------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Z10S (TDA) <sup>7</sup> | 234            | 2.5  | 1050 | CFM                              | 456    | 423    | 391    | 367    | 350    | 337    | 320    | 268    | 128    | -      |
|                         |                |      |      | HEMISPHERICAL SONES <sup>3</sup> | 4.1    | 4.5    | 4.7    | 4.9    | 5.2    | 5.4    | 5.7    | 6.2    | 6.4    | -      |
|                         |                |      |      | SPHERICAL SONES <sup>4</sup>     | 3.0    | 3.4    | 3.7    | 3.9    | 4.2    | 4.5    | 4.8    | 5.2    | 5.4    | -      |
| Z101S (TDA)             | 152            | 1.6  | 1050 | CFM                              | 609    | 521    | 438    | 373    | 272    | 130    | -      | -      | -      | -      |
|                         |                |      |      | HEMISPHERICAL SONES <sup>3</sup> | 3.2    | 3.4    | 4.3    | 4.6    | 5.2    | 5.6    | -      | -      | -      | -      |
|                         |                |      |      | SPHERICAL SONES <sup>4</sup>     | 2.2    | 2.3    | 3.2    | 3.5    | 4.0    | 4.4    | -      | -      | -      | -      |
| Z10H (TDA) <sup>7</sup> | 372            | 3.6  | 1550 | CFM                              | 700    | 661    | 626    | 593    | 558    | 528    | 504    | 455    | 368    | -      |
|                         |                |      |      | HEMISPHERICAL SONES <sup>3</sup> | 8      | 8      | 7.9    | 7.9    | 8      | 8.2    | 8.1    | 8      | 7.8    | -      |
|                         |                |      |      | SPHERICAL SONES <sup>4</sup>     | 7.0    | 6.8    | 6.8    | 6.8    | 6.9    | 7.0    | 6.9    | 6.6    | 6.3    | -      |
| Z102S (TDA)             | 273            | 4.5  | 1050 | CFM                              | 780    | 720    | 660    | 592    | 336    | -      | -      | -      | -      | -      |
|                         |                |      |      | HEMISPHERICAL SONES <sup>3</sup> | 4.6    | 5.7    | 5.6    | 4.8    | 4.7    | -      | -      | -      | -      | -      |
|                         |                |      |      | SPHERICAL SONES <sup>4</sup>     | 3.5    | 4.5    | 4.6    | 3.8    | 3.7    | -      | -      | -      | -      | -      |
| Z12S (TDA)              | 263            | 2.9  | 1050 | CFM                              | 886    | 829    | 786    | 735    | 660    | 526    | 180    | -      | -      | -      |
|                         |                |      |      | HEMISPHERICAL SONES <sup>3</sup> | 5.5    | 5.7    | 5.6    | 5.8    | 5.7    | 5.3    | 4.7    | -      | -      | -      |
|                         |                |      |      | SPHERICAL SONES <sup>4</sup>     | 4.4    | 4.5    | 4.5    | 4.7    | 4.5    | 4.2    | 3.7    | -      | -      | -      |
| Z121S (TDA)             | 344            | 3.6  | 1050 | CFM                              | 1089   | 1043   | 981    | 899    | 802    | 672    | 404    | -      | -      | -      |
|                         |                |      |      | HEMISPHERICAL SONES <sup>3</sup> | 6.5    | 6.5    | 6.3    | 6      | 5.7    | 5.3    | 4.4    | -      | -      | -      |
|                         |                |      |      | SPHERICAL SONES <sup>4</sup>     | 5.2    | 5.3    | 5.1    | 4.9    | 4.6    | 4.1    | 3.3    | -      | -      | -      |
| Z102H (TDA)             | 810 (BHP 0.53) | 7.5  | 1550 | CFM                              | 1397   | 1348   | 1301   | 1253   | 1206   | 1162   | 1121   | 1034   | 916    | 611    |
|                         |                |      |      | HEMISPHERICAL SONES <sup>3</sup> | 10.7   | 10.5   | 10.7   | 10.6   | 10.4   | 10.1   | 9.9    | 9.6    | 9.4    | 9      |
|                         |                |      |      | SPHERICAL SONES <sup>4</sup>     | 9.3    | 9.1    | 9.3    | 9.1    | 9.0    | 8.7    | 8.4    | 8.2    | 7.9    | 7.5    |
| Z12H (TDA)              | 810 (BHP 0.53) | 7.9  | 1550 | CFM                              | 1519   | 1475   | 1430   | 1386   | 1343   | 1300   | 1254   | 1146   | 1017   | 697    |
|                         |                |      |      | HEMISPHERICAL SONES <sup>3</sup> | 12.7   | 12.4   | 12.2   | 11.7   | 11.5   | 11.2   | 10.9   | 10.5   | 10.2   | 9.6    |
|                         |                |      |      | SPHERICAL SONES <sup>4</sup>     | 10.9   | 10.7   | 10.5   | 10.1   | 9.9    | 9.6    | 9.3    | 9.0    | 8.5    | 8.1    |

- (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 loudness values in fan sones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation type B: free inlet hemispherical sone levels.
- (5) 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.
- (6) Specify discharge configuration. Standard types are RA, TD, TDA and TDA-RA.
- (7) When ordered with a 115V, ODP motor, Z6S and Z6H is the same unit shipped with dual speed motor.
- (8) When ordered with a 115V, ODP motor, Z8S and Z8H is the same unit shipped with dual speed motor.
- (9) When ordered with a 115V, ODP motor, Z10S and Z10H is the same unit shipped with dual speed motor.

# Z14 & Z15 | LARGE CAPACITY CEILING FANS



| Model | A       | B       | C       | D       | L       | O      | Outlet  |        | Inlet   |         | Wheel Dia | Wheel Circ. |
|-------|---------|---------|---------|---------|---------|--------|---------|--------|---------|---------|-----------|-------------|
|       |         |         |         |         |         |        | G       | H      | M       | N       |           |             |
| Z14   | 38"     | 14 1/2" | 14 1/2" | 15 1/2" | 30 1/2" | 7 5/8" | 33 3/4" | 7 3/4" | 12 1/2" | 36"     | 8"        | 2.09'       |
| Z15   | 45 1/2" | 16 1/2" | 16 1/2" | 17 1/2" | 34 1/2" | 10"    | 41 1/4" | 9 3/4" | 14 1/2" | 43 1/2" | 9"        | 2.36'       |

| Model                       | RPM  | SP                           | 0.100" | 0.125" | 0.250" | 0.375" | 0.500" | 0.625" | 0.750" | 0.875" | 1.00" |
|-----------------------------|------|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Z14<br>(115/1/60<br>1/2 HP) | 1150 | CFM                          | 2200   | 2195   | 2050   | 1870   | 1685   | 1425   | 880    | 285    | -     |
|                             |      | SPHERICAL SONES <sup>3</sup> | 6.8    | 6.7    | 6.3    | 6.0    | 5.6    | 5.4    | 5.2    | 5.0    | -     |
|                             |      | BHP                          | 0.56   | 0.56   | 0.54   | 0.49   | 0.45   | 0.39   | 0.26   | 0.15   | -     |
|                             | 1060 | CFM                          | 2025   | 2015   | 1835   | 1645   | 1400   | 880    | -      | -      | -     |
|                             |      | SPHERICAL SONES <sup>3</sup> | 6.0    | 6.0    | 5.6    | 5.3    | 5.0    | 4.8    | -      | -      | -     |
|                             |      | BHP                          | 0.44   | 0.43   | 0.4    | 0.36   | 0.33   | 0.22   | -      | -      | -     |
|                             | 980  | CFM                          | 1865   | 1845   | 1630   | 1410   | 1015   | 280    | -      | -      | -     |
|                             |      | SPHERICAL SONES <sup>3</sup> | 5.4    | 5.3    | 5.0    | 4.7    | 4.4    | 4.2    | -      | -      | -     |
|                             |      | BHP                          | 0.34   | 0.34   | 0.31   | 0.28   | 0.2    | 0.1    | -      | -      | -     |
|                             | 880  | CFM                          | 1660   | 1605   | 1375   | 1055   | 255    | -      | -      | -      | -     |
|                             |      | SPHERICAL SONES <sup>3</sup> | 4.6    | 4.5    | 4.3    | 4.0    | 3.7    | -      | -      | -      | -     |
|                             |      | BHP                          | 0.25   | 0.24   | 0.21   | 0.17   | 0.07   | -      | -      | -      | -     |

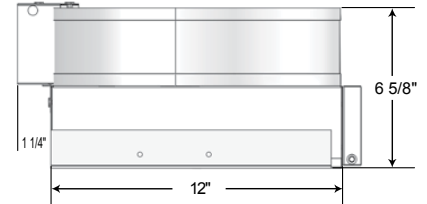
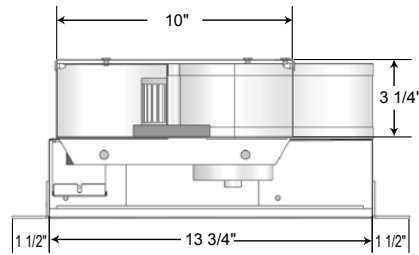
- (1) Speed (RPM) shown is nominal. Performance is based on actual speed of test.
- (2) Performance certified is for installation type B - Free Inlet, Ducted Outlet.
- (3) Performance ratings do not include the effects of appurtenances.
- (4) The sound ratings shown are for loudness values in spherical 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.
- (5) Other speeds listed are obtainable by using Lek-Trol™ model LT40 for Z14 fan units and Lek-Trol™ LT35 for Z15 fan units.
- (6) The AMCA Certified Seal applies to air performance ratings only.

# Z14 & Z15 | LARGE CAPACITY CEILING FANS

| Model                     | RPM  | SP                           | 0.100" | 0.125" | 0.250" | 0.375" | 0.500" | 0.625" | 0.750" | 0.875" | 1.00" |
|---------------------------|------|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Z15<br>(230/1/60<br>1 HP) | 1030 | CFM                          | 3290   | 3260   | 3100   | 2920   | 2720   | 2510   | 2260   | 1930   | 1140  |
|                           |      | SPHERICAL SONES <sup>3</sup> | 8.3    | 8.2    | 7.8    | 7.4    | 7.0    | 6.6    | 6.5    | 6.4    | 6.2   |
|                           |      | BHP                          | 1.1    | 1.1    | 1.05   | 1      | 0.96   | 0.91   | 0.85   | 0.75   | 0.52  |
|                           | 1000 | CFM                          | 3185   | 3155   | 2990   | 2800   | 2590   | 2365   | 2085   | 1625   | -     |
|                           |      | SPHERICAL SONES <sup>3</sup> | 7.7    | 7.7    | 7.3    | 6.9    | 6.5    | 6.1    | 6.0    | 5.9    | -     |
|                           |      | BHP                          | 1      | 1      | 0.95   | 0.91   | 0.86   | 0.81   | 0.73   | 0.61   | -     |
|                           | 950  | CFM                          | 3015   | 2980   | 2805   | 2600   | 2375   | 2115   | 1755   | -      | -     |
|                           |      | SPHERICAL SONES <sup>3</sup> | 6.8    | 6.8    | 6.4    | 6.1    | 5.7    | 5.4    | 5.2    | -      | -     |
|                           |      | BHP                          | 0.86   | 0.85   | 0.81   | 0.77   | 0.72   | 0.66   | 0.56   | -      | -     |
|                           | 880  | CFM                          | 2775   | 2735   | 2535   | 2305   | 2045   | 1715   | -      | -      | -     |
|                           |      | SPHERICAL SONES <sup>3</sup> | 5.6    | 5.5    | 5.2    | 4.9    | 4.6    | 4.3    | -      | -      | -     |
|                           |      | BHP                          | 0.68   | 4.6    | 0.63   | 0.59   | 0.54   | 0.46   | -      | -      | -     |

- (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 do not include the effects of appurtenances.
- (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.
- (5) Other speeds listed are obtainable by using Lek-Trol™ model LT40 for Z14 fan units and Lek-Trol™ LT35 for Z15 fan units.
- (6) The AMCA Certified Seal applies to air performance ratings only.

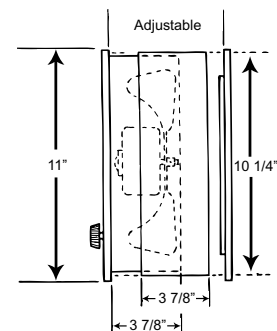
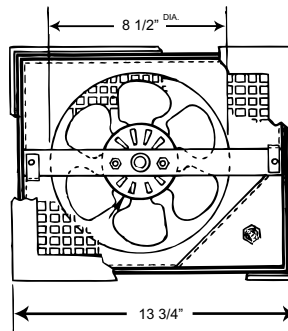
# ZT & ZJ1 | LOW PROFILE CEILING FANS



| Model | Max. Watts | Motor<br>60Hz AC | Motor RPM | SP                           | 0.0" | .10" | .125" | .250" | .375" | .500" | .625" | 0.750" |
|-------|------------|------------------|-----------|------------------------------|------|------|-------|-------|-------|-------|-------|--------|
| ZT    | 60         | 115/1            | 1400      | CFM                          | 69   | 60   | 58    | 48    | 33    | 12    | –     | –      |
|       |            |                  |           | SPHERICAL SONES <sup>4</sup> | 1.3  | 1.5  | 1.5   | 1.8   | 2.0   | 2.3   | –     | –      |
|       |            |                  |           | RPM                          | 1250 | 1285 | 1290  | 1345  | 1395  | 1430  | –     | –      |
| ZJ1   | 125        | 115/1            | 1200      | CFM                          | 149  | 156  | 157   | 158   | 160   | 153   | 138   | 117    |
|       |            |                  |           | SPHERICAL SONES <sup>4</sup> | 1.2  | 1.5  | 1.6   | 1.9   | 2.2   | 2.5   | 2.8   | 3.1    |
|       |            |                  |           | RPM                          | 760  | 1000 | 1020  | 1150  | 1240  | 1360  | 1450  | 1520   |

- (1) Speed (RPM) shown is nominal. Performance is based on actual speed of test.
- (2) Performance certified is for installation type A - Free Inlet, Free Outlet.
- (3) Performance ratings include the effects of 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 A: free inlet spherical sone levels.
- (5) The AMCA Certified Seal applies to air performance ratings only.

# TRANSFAN | TRANSFER FAN

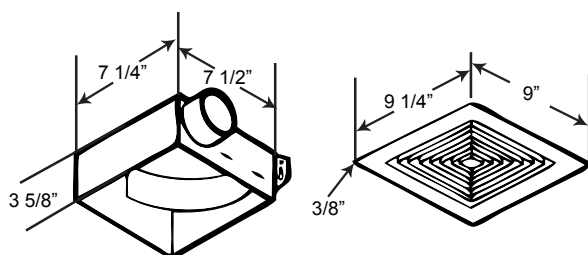


| Model | Max Watts | Motor 50/60 Hz AC | Motor RPM | Fan Capacity - CFM               |       |       |       |       |
|-------|-----------|-------------------|-----------|----------------------------------|-------|-------|-------|-------|
| TF8   | 60        | 115/1             | 1250      | SP                               | 0.000 | 0.050 | 0.100 | 0.200 |
|       |           |                   |           | CFM                              | 255   | 231   | 178   | 132   |
|       |           |                   |           | HEMISPHERICAL SONES <sup>1</sup> | 2.3   | 2.2   | 1.9   | 1.8   |
|       |           |                   |           | SPHERICAL SONES <sup>2</sup>     | 1.0   | 1.0   | 0.9   | 0.8   |

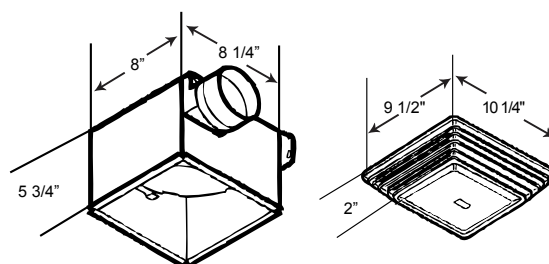
- (1) Speed (RPM) shown is nominal. Performance is based on actual speed of test.
- (2) Performance certified is for installation type A - Free Inlet, Free Outlet.
- (3) Performance ratings include the effects of an inlet and outlet grilles in the airstream.
- (4) The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation type A: free inlet hemispherical sone levels.
- (5) 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 A: free inlet spherical sone levels.
- (6) Transfan is not AMCA certified.



# Z1, ZL1, & ZL2 | CEILING FANS WITH LIGHT



Zephyr | Z1

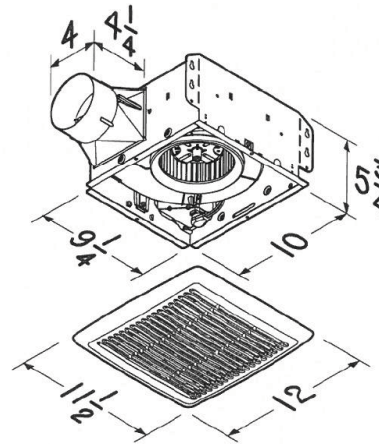


Zephyr Light | ZL1, ZL2

| Model | SONES at 0.0" Ps | Spherical SONES at 0.0" Ps | CFM at Static Pressure (Ps - Inches of H2O) |       |       |       |       |       | Volts | Watts | Nominal RPM |
|-------|------------------|----------------------------|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------------|
|       |                  |                            | 0.000                                       | 0.100 | 0.125 | 0.250 | 0.375 | 0.500 |       |       |             |
| Z1    | 3.4              | 2.3                        | 56                                          | 51    | 50    | 46    | 41    | 32    | 120   | 55    | 1700        |
| ZL1   | 1.9              | 1.8                        | 62                                          | 51    | 49    | 32    | 9     | -     | 120   | 30    | 1070        |
| ZL2   | 4.0              | 3.4                        | 97                                          | 87    | 84    | 69    | 50    | 19    | 120   | 50    | 1380        |

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

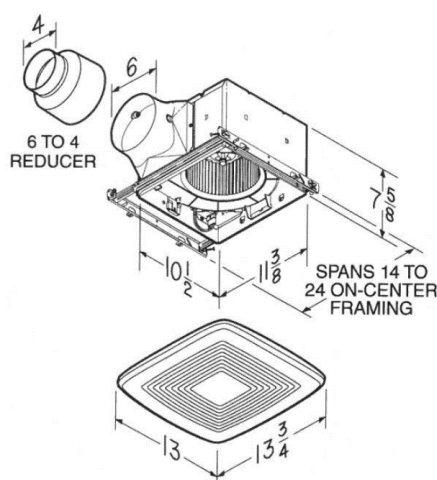
## Z2 | LOW FLOW CEILING FAN



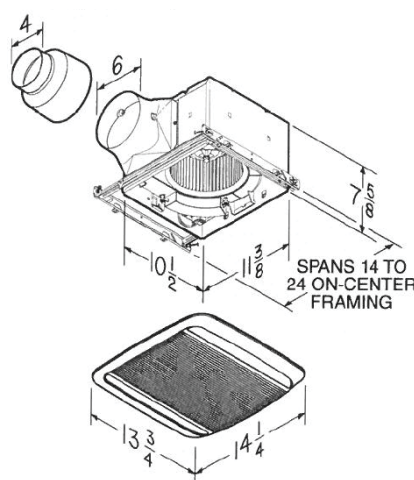
| Model | Performance @ Static Pressure (SP) - Inches Water Gauge |       |           |       |       |           |       |           |       |           |       | Volts | Hz. | Nominal RPM |
|-------|---------------------------------------------------------|-------|-----------|-------|-------|-----------|-------|-----------|-------|-----------|-------|-------|-----|-------------|
|       | 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.

# ZQ80(L)-GPE AND ZQ110(L)-GPE DIMENSIONS AND PERFORMANCE



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.

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- 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

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