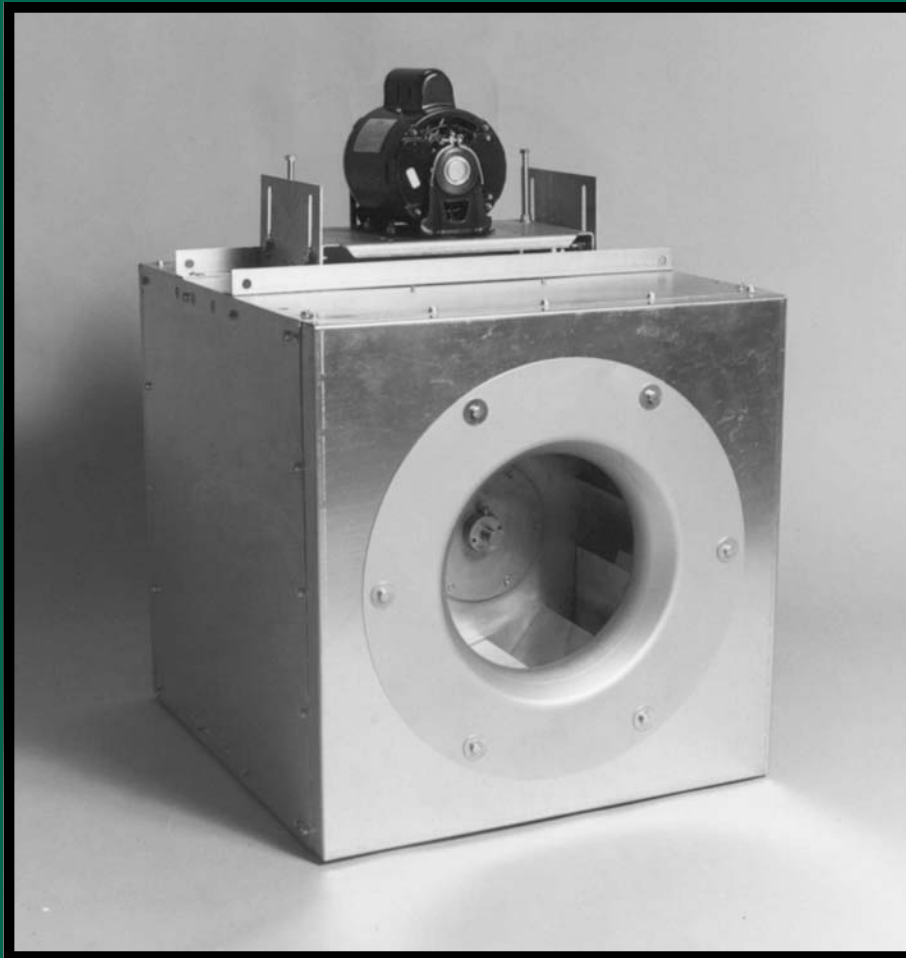




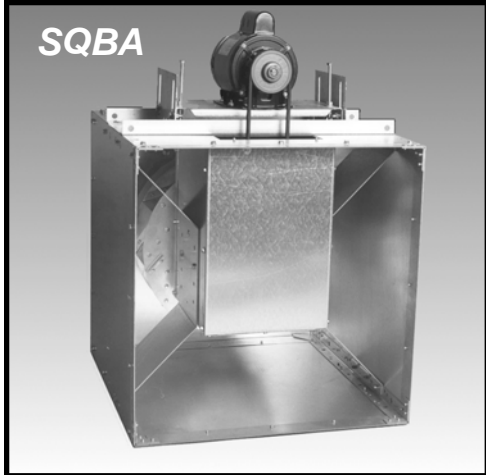
**AMERICAN COOLAIR CORPORATION**



# **Square In-Line Centrifugal Fans**

**TYPE SQBA - BELT DRIVE  
TYPE SQDA - DIRECT DRIVE**

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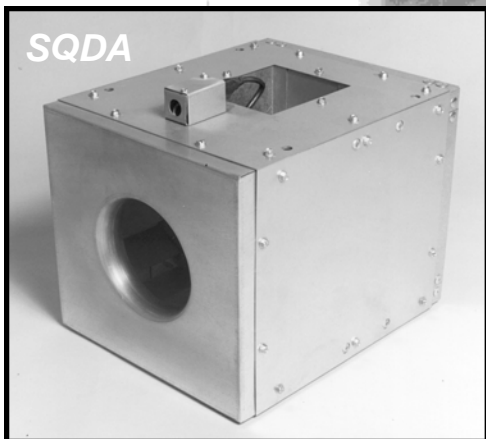


*Sizes 06 to 44  
Flow rates from  
115 to 31,491 CFM  
and 3" Static Pressure*

## BELT DRIVE FANS

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*Sizes 06 to 18  
Flow rates from  
175 to 4,014 CFM  
and 1.25" Static Pressure*

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## STANDARD FEATURES

### SQBA AND SQDA UNITS

**Rigid internal cross bracing system** properly supports drive.

**Out-of-airstream open drip-proof motors** are isolated for protection from exhaust airstream.

**Three side panels are removable** for total access to internal components.

**Aluminum centrifugal wheel** is a non-overloading, backward-inclined design and is computer balanced.

**Overlapping wheel and deep-spun venturi** minimize noise and air turbulence, increasing efficiency.

**Permanently affixed wheel balance weights** assure vibration-free operation.

**Galvanized outer skin** protects against corrosion and matches common duct material.

**AMCA Seal** assures certified rating of air and sound performance.

**UL Listed** for Standard 705.

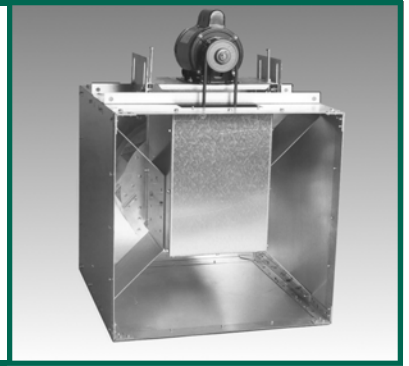
## SQBA

**Safety disconnect switch** is an available option.

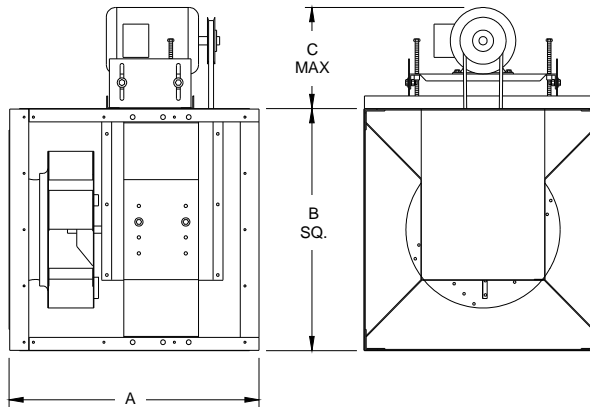
**Belt drive with adjustable motor pulley** for flexibility to match operating requirements.

**Heavy duty pillow-block ball bearings with cast iron housing** are self-aligning and relubricable.

**Adjustable motor base** facilitates maintenance of belt tension.



## SQBA Dimensions



| SIZE  | A                              | B                              | C                              |
|-------|--------------------------------|--------------------------------|--------------------------------|
| 06-10 | 17                             | 14                             | 10 <sup>3</sup> / <sub>4</sub> |
| 12    | 25 <sup>3</sup> / <sub>4</sub> | 18                             | 16 <sup>5</sup> / <sub>8</sub> |
| 13    | 26 <sup>3</sup> / <sub>8</sub> | 20                             | 16 <sup>5</sup> / <sub>8</sub> |
| 15    | 27 <sup>7</sup> / <sub>8</sub> | 23                             | 16 <sup>5</sup> / <sub>8</sub> |
| 16    | 27 <sup>3</sup> / <sub>8</sub> | 25 <sup>1</sup> / <sub>2</sub> | 16 <sup>5</sup> / <sub>8</sub> |
| 18    | 27 <sup>1</sup> / <sub>4</sub> | 28 <sup>1</sup> / <sub>2</sub> | 16 <sup>5</sup> / <sub>8</sub> |
| 20    | 28 <sup>3</sup> / <sub>4</sub> | 30 <sup>1</sup> / <sub>2</sub> | 16 <sup>5</sup> / <sub>8</sub> |
| 24    | 36 <sup>5</sup> / <sub>8</sub> | 36 <sup>1</sup> / <sub>2</sub> | 16 <sup>3</sup> / <sub>4</sub> |
| 30    | 39 <sup>1</sup> / <sub>4</sub> | 45 <sup>1</sup> / <sub>2</sub> | 17 <sup>5</sup> / <sub>8</sub> |
| 36    | 42 <sup>5</sup> / <sub>8</sub> | 56                             | 17 <sup>5</sup> / <sub>8</sub> |
| 44    | 46 <sup>7</sup> / <sub>8</sub> | 68                             | 17 <sup>5</sup> / <sub>8</sub> |

Dimensions in inches

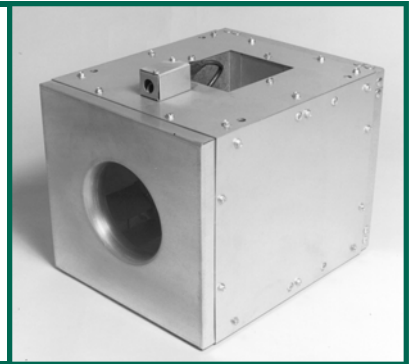
## SQDA

**Disconnect device** with factory mounted and wired junction box is standard.

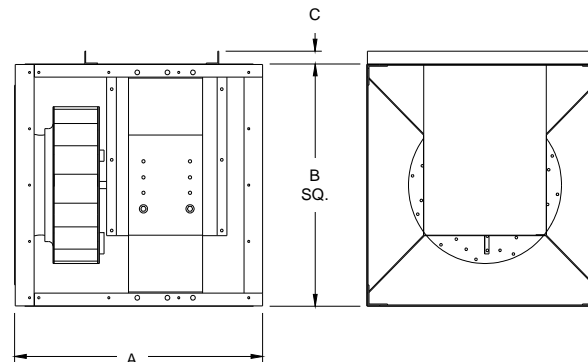
**Direct-drive assembly** reduces maintenance and operating costs.

**Variable speed control** is available on most models.

**Drive compartment** isolates motor from airstream.



## SQDA Dimensions



| SIZE  | A                              | B                              | C                             |
|-------|--------------------------------|--------------------------------|-------------------------------|
| 06-10 | 17                             | 14                             | --                            |
| 12    | 25 <sup>3</sup> / <sub>4</sub> | 18                             | 1 <sup>3</sup> / <sub>8</sub> |
| 13    | 26 <sup>3</sup> / <sub>8</sub> | 20                             | 1 <sup>3</sup> / <sub>8</sub> |
| 15    | 27 <sup>7</sup> / <sub>8</sub> | 23                             | 1 <sup>3</sup> / <sub>8</sub> |
| 16    | 27 <sup>3</sup> / <sub>8</sub> | 25 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> |
| 18    | 27 <sup>1</sup> / <sub>4</sub> | 28 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> |

Dimensions in inches

# SQBA

## Belt Drive Square In-Line Fans

### Applications

The SQBA units are quiet, dependable in-line centrifugal fans recommended for a wide range of general exhaust applications where low, medium and high ranges of air volume and pressure are specified, in both ducted and non-ducted ventilation systems. Applications include virtually all types of light manufacturing, commercial and institutional buildings such as shopping centers, hospitals, schools, hotels, office and apartment buildings, warehouses, airports, bus terminals and many others.

Designed for easy positioning and quick installation, the versatile Square In-Line can be located inside equipment rooms, in ceiling spaces or as parts of O.E.M. equipment.

The advantages of an SQBA belt-drive unit over a direct-drive in-line fan include quieter operation, adjustable performance to suit operating needs and availability of larger volume units.

### Construction

SQBA models feature a housing of durable mill galvanized outer "skin" over a rigid frame which is designed to provide an attractive finish, yet be a rigid unit to resist severe installation and handling conditions commonly encountered. Three of the four sides of the unit are removable, providing access to the internal parts for inspection and maintenance without disturbing the framework.

The overlapping deep-spun venturi minimizes air turbulence and increases efficiency. The aluminum centrifugal wheel is a non-overloading, backward-inclined type, selected for low noise levels. The wheels are computer balanced on state-of-the-art equipment.

The SQBA wheel is secured to a machined aluminum hub with a line bore, which eliminates the need for bushings.

### Drive Mechanism

The SQBA utilizes a standard V-belt drive design with variable pitch cast iron motor pulley for adjusting fan speed. The drive shaft is turned, ground and polished. All components are out of the airstream. The motor support is adjustable for proper tensioning.

### Bearings

Heavy duty pillow-block bearings with cast iron housing are self-aligning and relubricable.

### Motors

The standard motor for SQBA models is open drip-proof construction, located out of the airstream. Totally enclosed, energy efficient, two-speed and explosion-proof motors may also be available. Motor enclosure may affect UL Listing. All motor brands are recognized and serviced nationwide.



Type SQBA ventilators are Listed by Underwriters Laboratory Inc. to US and Canadian safety standards.



American Coolair Corporation, ILG Industries certifies that the Type SQBA PRVs 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.

### Guide Specifications

Duct mounted square in-line fans shall be of the SQBA centrifugal type as manufactured by ILG Industries of American Coolair Corporation (individual models to be listed in fan schedule). Units shall bear the AMCA Certified Ratings Seal for air and sound performance. Housing and rigid frame of the fans to be galvanized steel, with wheel and venturi overlapping for efficient operation. Three sides of the unit are to be removable for access to the inside fan components and drive.

Drive mechanism shall incorporate a V-belt drive with cast iron motor pulley. Drive shaft shall be turned, ground and polished. The centrifugal wheel shall be heavy gauge aluminum with backward-inclined, non-overloading blades and be computer balanced.

Bearings shall be self-aligning and have fittings for relubrication.

Motor shall be open drip-proof construction, NEMA design B with minimum service factor of 1.15. Adjustable motor pulley shall be provided to allow for field adjustment and system balance. Motor shall be mounted on an adjustable steel mounting bracket. Motor shall be mounted to allow easy access to the cast iron variable pitch drive pulley.

(Safety disconnect switch, backdraft damper, epoxy coating and other accessories shall be listed in the fan schedule.)

# SQBA06-SQBA08 Performance Data

| <b>SQBA06</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | <b>CFM at Static Pressure</b> |      |      | RPM Range |        |        | RPM |        |      |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------------|------|------|-----------|--------|--------|-----|--------|------|
| 0.00          |      | .125 |      | .250 |      | .375 |      | .500 |      | .625 |      | .750 |      | 1.00 |      | 1.25                          |      | 1.50 |           | 1/4 D1 | 1/4 D2 |     | 1/4 D3 |      |
| BHP           | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP                           | Sone | BHP  | Sone      | BHP    | Sone   |     |        |      |
| 267           |      | 203  |      | 113  |      |      |      |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        | 986  |
| 0.02          | 3.3  | 0.02 | 2.6  | 0.02 | 2.1  |      |      |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 294           |      | 237  |      | 168  |      |      |      |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1085 |
| 0.02          | 4.0  | 0.02 | 3.4  | 0.02 | 3.0  |      |      |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 317           |      | 267  |      | 206  |      | 115  |      |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1171 |
| 0.03          | 4.8  | 0.03 | 4.3  | 0.03 | 3.8  | 0.02 | 3.4  |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 351           |      | 309  |      | 252  |      | 187  |      |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1294 |
| 0.03          | 5.9  | 0.03 | 5.5  | 0.03 | 5.1  | 0.03 | 4.7  |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 384           |      | 349  |      | 294  |      | 246  |      | 173  |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1417 |
| 0.04          | 6.9  | 0.05 | 6.4  | 0.05 | 6.1  | 0.05 | 5.7  | 0.05 | 5.4  |      |      |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 401           |      | 369  |      | 316  |      | 270  |      | 208  |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1479 |
| 0.05          | 7.4  | 0.05 | 7.0  | 0.05 | 6.6  | 0.05 | 6.2  | 0.05 | 5.9  |      |      |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 434           |      | 406  |      | 358  |      | 314  |      | 269  |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1602 |
| 0.06          | 8.5  | 0.06 | 8.2  | 0.07 | 7.9  | 0.07 | 7.4  | 0.07 | 7.1  |      |      |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 484           |      | 461  |      | 422  |      | 378  |      | 341  |      | 299  |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1787 |
| 0.09          | 10.3 | 0.09 | 10.0 | 0.09 | 9.8  | 0.09 | 9.4  | 0.09 | 9.0  | 0.09 | 8.8  |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 501           |      | 479  |      | 443  |      | 399  |      | 362  |      | 325  |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1848 |
| 0.10          | 11.0 | 0.10 | 10.7 | 0.10 | 10.5 | 0.10 | 10.1 | 0.10 | 9.7  | 0.10 | 9.4  |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 534           |      | 514  |      | 483  |      | 442  |      | 405  |      | 371  |      | 333  |      |      |      |                               |      |      |           |        |        |     |        | 1971 |
| 0.12          | 12.4 | 0.12 | 12.1 | 0.12 | 11.9 | 0.12 | 11.7 | 0.12 | 11.2 | 0.12 | 10.9 | 0.12 | 10.7 |      |      |                               |      |      |           |        |        |     |        |      |
| 568           |      | 549  |      | 523  |      | 485  |      | 448  |      | 415  |      | 383  |      |      |      |                               |      |      |           |        |        |     |        | 2095 |
| 0.14          | 14.1 | 0.14 | 13.8 | 0.15 | 13.6 | 0.15 | 13.5 | 0.15 | 13.2 | 0.15 | 12.7 | 0.15 | 12.4 |      |      |                               |      |      |           |        |        |     |        |      |

| <b>SQBA08</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | <b>CFM at Static Pressure</b> |      |      | RPM Range |        |        | RPM |        |      |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------------|------|------|-----------|--------|--------|-----|--------|------|
| 0.00          |      | .125 |      | .250 |      | .375 |      | .500 |      | .625 |      | .750 |      | 1.00 |      | 1.25                          |      | 1.50 |           | 1/4 D1 | 1/4 D2 |     | 1/4 D3 |      |
| BHP           | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP                           | Sone | BHP  | Sone      | BHP    | Sone   |     |        |      |
| 369           |      | 316  |      | 223  |      |      |      |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        | 986  |
| 0.02          | 3.4  | 0.02 | 3.0  | 0.02 | 2.8  |      |      |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 406           |      | 359  |      | 293  |      |      |      |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1085 |
| 0.02          | 4.2  | 0.02 | 3.9  | 0.02 | 3.6  |      |      |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 439           |      | 395  |      | 344  |      | 238  |      |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1171 |
| 0.03          | 5.1  | 0.03 | 4.9  | 0.03 | 4.5  | 0.03 | 4.2  |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 485           |      | 446  |      | 404  |      | 337  |      |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1294 |
| 0.04          | 6.2  | 0.04 | 6.1  | 0.04 | 5.7  | 0.04 | 5.5  |      |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 531           |      | 495  |      | 457  |      | 412  |      | 334  |      |      |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1417 |
| 0.05          | 7.2  | 0.05 | 7.1  | 0.05 | 6.8  | 0.05 | 6.5  | 0.05 | 6.3  |      |      |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 554           |      | 520  |      | 484  |      | 445  |      | 379  |      | 267  |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1479 |
| 0.05          | 7.8  | 0.05 | 7.7  | 0.06 | 7.3  | 0.06 | 7.1  | 0.06 | 7.0  | 0.06 | 6.8  |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 600           |      | 568  |      | 536  |      | 502  |      | 456  |      | 388  |      |      |      |      |      |                               |      |      |           |        |        |     |        | 1602 |
| 0.07          | 9.0  | 0.07 | 8.8  | 0.07 | 8.6  | 0.07 | 8.3  | 0.08 | 8.2  | 0.08 | 8.0  |      |      |      |      |                               |      |      |           |        |        |     |        |      |
| 669           |      | 641  |      | 613  |      | 582  |      | 552  |      | 508  |      | 448  |      |      |      |                               |      |      |           |        |        |     |        | 1787 |
| 0.09          | 11.0 | 0.10 | 10.9 | 0.10 | 10.6 | 0.10 | 10.3 | 0.10 | 10.1 | 0.11 | 10.0 | 0.11 | 9.8  |      |      |                               |      |      |           |        |        |     |        |      |
| 692           |      | 665  |      | 638  |      | 608  |      | 579  |      | 543  |      | 488  |      | 305  |      |                               |      |      |           |        |        |     |        | 1848 |
| 0.10          | 11.7 | 0.11 | 11.6 | 0.11 | 11.3 | 0.11 | 11.1 | 0.12 | 10.8 | 0.12 | 10.7 | 0.12 | 10.5 | 0.10 | 10.2 |                               |      |      |           |        |        |     |        |      |
| 738           |      | 712  |      | 687  |      | 661  |      | 632  |      | 604  |      | 564  |      | 446  |      |                               |      |      |           |        |        |     |        | 1971 |
| 0.13          | 13.3 | 0.13 | 13.4 | 0.13 | 13.2 | 0.13 | 12.8 | 0.14 | 12.5 | 0.14 | 12.3 | 0.15 | 12.0 | 0.14 | 11.7 |                               |      |      |           |        |        |     |        |      |
| 785           |      | 760  |      | 736  |      | 712  |      | 686  |      | 660  |      | 631  |      | 538  |      | 383                           |      |      |           |        |        |     |        | 2095 |
| 0.15          | 15.1 | 0.15 | 15.2 | 0.16 | 15.0 | 0.16 | 14.7 | 0.16 | 14.4 | 0.17 | 14.1 | 0.17 | 13.9 | 0.18 | 13.6 | 0.16                          | 13.3 |      |           |        |        |     |        |      |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power ratings (BHP) do not include transmission losses. Bearing losses are included. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.

# SQBA10 Performance Data

| CFM at Static Pressure |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | RPM Range |      |      |      | RPM |          |      |        |        |        |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|------|------|------|-----|----------|------|--------|--------|--------|
| 0.00                   |      | .125 |      | .250 |      | .375 |      | .500 |      | .625 |      | .750 |      | 1.00 |      | 1.25      |      | 1.50 |      |     | Motor HP |      |        |        |        |
| BHP                    | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP       | Sone | BHP  | Sone |     | BHP      | Sone | 1/4 D1 | 1/4 D2 | 1/4 D3 |
| 452                    |      | 376  |      | 312  |      |      |      |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        | 986    |
| 0.02                   | 3.7  | 0.02 | 3.6  | 0.02 | 3.2  |      |      |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        |        |
| 475                    |      | 403  |      | 351  |      |      |      |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        | 1035   |
| 0.02                   | 4.1  | 0.02 | 4.0  | 0.03 | 3.6  |      |      |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        |        |
| 497                    |      | 431  |      | 378  |      |      |      |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        | 1085   |
| 0.02                   | 4.5  | 0.03 | 4.4  | 0.03 | 4.1  |      |      |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        |        |
| 520                    |      | 458  |      | 402  |      |      |      |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        | 1134   |
| 0.03                   | 4.9  | 0.03 | 4.8  | 0.03 | 4.6  |      |      |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        |        |
| 537                    |      | 478  |      | 419  |      | 303  |      |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        | 1171   |
| 0.03                   | 5.2  | 0.03 | 5.2  | 0.04 | 5.0  | 0.03 | 4.5  |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        |        |
| 565                    |      | 511  |      | 449  |      | 407  |      |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        | 1232   |
| 0.03                   | 5.9  | 0.04 | 5.9  | 0.04 | 5.6  | 0.04 | 5.1  |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        |        |
| 593                    |      | 542  |      | 480  |      | 445  |      |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        | 1294   |
| 0.04                   | 6.4  | 0.04 | 6.4  | 0.05 | 6.2  | 0.05 | 5.8  |      |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        |        |
| 621                    |      | 573  |      | 511  |      | 475  |      | 355  |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        | 1355   |
| 0.04                   | 6.9  | 0.05 | 6.9  | 0.05 | 6.9  | 0.06 | 6.5  | 0.05 | 6.2  |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        |        |
| 650                    |      | 604  |      | 544  |      | 505  |      | 465  |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        | 1417   |
| 0.05                   | 7.6  | 0.05 | 7.6  | 0.06 | 7.6  | 0.06 | 7.3  | 0.07 | 6.9  |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        |        |
| 678                    |      | 635  |      | 578  |      | 536  |      | 505  |      |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        | 1479   |
| 0.06                   | 8.2  | 0.06 | 8.2  | 0.07 | 8.2  | 0.07 | 8.0  | 0.08 | 7.7  |      |      |      |      |      |      |           |      |      |      |     |          |      |        |        |        |
| 706                    |      | 664  |      | 612  |      | 566  |      | 537  |      | 446  |      |      |      |      |      |           |      |      |      |     |          |      |        |        | 1540   |
| 0.06                   | 8.8  | 0.07 | 8.9  | 0.08 | 8.9  | 0.08 | 8.9  | 0.09 | 8.4  | 0.08 | 8.2  |      |      |      |      |           |      |      |      |     |          |      |        |        |        |
| 735                    |      | 695  |      | 647  |      | 597  |      | 567  |      | 534  |      |      |      |      |      |           |      |      |      |     |          |      |        |        | 1602   |
| 0.07                   | 9.6  | 0.08 | 9.6  | 0.08 | 9.6  | 0.09 | 9.7  | 0.09 | 9.3  | 0.10 | 9.0  |      |      |      |      |           |      |      |      |     |          |      |        |        |        |
| 762                    |      | 724  |      | 680  |      | 628  |      | 597  |      | 570  |      | 441  |      |      |      |           |      |      |      |     |          |      |        |        | 1663   |
| 0.08                   | 10.2 | 0.09 | 10.3 | 0.09 | 10.3 | 0.10 | 10.5 | 0.10 | 10.1 | 0.11 | 9.7  | 0.10 | 9.6  |      |      |           |      |      |      |     |          |      |        |        |        |
| 791                    |      | 754  |      | 713  |      | 660  |      | 627  |      | 602  |      | 561  |      |      |      |           |      |      |      |     |          |      |        |        | 1725   |
| 0.09                   | 10.9 | 0.10 | 11.0 | 0.10 | 10.9 | 0.11 | 11.1 | 0.11 | 10.9 | 0.12 | 10.4 | 0.12 | 10.2 |      |      |           |      |      |      |     |          |      |        |        |        |
| 819                    |      | 784  |      | 745  |      | 694  |      | 657  |      | 632  |      | 605  |      |      |      |           |      |      |      |     |          |      |        |        | 1787   |
| 0.10                   | 11.6 | 0.11 | 11.7 | 0.11 | 11.7 | 0.12 | 11.7 | 0.13 | 11.6 | 0.13 | 11.2 | 0.14 | 10.8 |      |      |           |      |      |      |     |          |      |        |        |        |
| 847                    |      | 813  |      | 776  |      | 728  |      | 688  |      | 662  |      | 638  |      |      |      |           |      |      |      |     |          |      |        |        | 1848   |
| 0.11                   | 12.3 | 0.12 | 12.4 | 0.12 | 12.4 | 0.13 | 12.4 | 0.14 | 12.4 | 0.14 | 12.0 | 0.15 | 11.6 |      |      |           |      |      |      |     |          |      |        |        |        |
| 876                    |      | 843  |      | 807  |      | 763  |      | 720  |      | 692  |      | 669  |      | 491  |      |           |      |      |      |     |          |      |        |        | 1910   |
| 0.12                   | 13.0 | 0.13 | 13.1 | 0.14 | 13.1 | 0.14 | 13.1 | 0.15 | 13.1 | 0.16 | 12.8 | 0.16 | 12.4 | 0.15 | 11.9 |           |      |      |      |     |          |      |        |        |        |
| 904                    |      | 872  |      | 838  |      | 797  |      | 752  |      | 722  |      | 699  |      | 622  |      |           |      |      |      |     |          |      |        |        | 1971   |
| 0.14                   | 13.7 | 0.14 | 13.8 | 0.15 | 13.8 | 0.16 | 13.8 | 0.16 | 13.8 | 0.17 | 13.6 | 0.18 | 13.2 | 0.18 | 12.6 |           |      |      |      |     |          |      |        |        |        |
| 932                    |      | 901  |      | 869  |      | 831  |      | 785  |      | 752  |      | 729  |      | 679  |      |           |      |      |      |     |          |      |        |        | 2033   |
| 0.15                   | 14.4 | 0.15 | 14.6 | 0.16 | 14.6 | 0.17 | 14.5 | 0.18 | 14.6 | 0.18 | 14.5 | 0.19 | 14.0 | 0.20 | 13.3 |           |      |      |      |     |          |      |        |        |        |
| 961                    |      | 931  |      | 899  |      | 864  |      | 819  |      | 784  |      | 759  |      | 716  |      |           |      |      |      |     |          |      |        |        | 2095   |
| 0.16                   | 15.3 | 0.17 | 15.4 | 0.18 | 15.5 | 0.18 | 15.4 | 0.19 | 15.4 | 0.20 | 15.3 | 0.21 | 15.0 | 0.22 | 14.1 |           |      |      |      |     |          |      |        |        |        |
| 989                    |      | 959  |      | 929  |      | 896  |      | 853  |      | 815  |      | 789  |      | 748  |      | 586       |      |      |      |     |          |      |        |        | 2156   |
| 0.18                   | 16.2 | 0.18 | 16.3 | 0.19 | 16.4 | 0.20 | 16.4 | 0.21 | 16.3 | 0.22 | 16.2 | 0.22 | 15.9 | 0.23 | 15.0 | 0.22      | 14.5 |      |      |     |          |      |        |        |        |
| 1017                   |      | 989  |      | 959  |      | 928  |      | 888  |      | 848  |      | 820  |      | 779  |      | 715       |      |      |      |     |          |      |        |        | 2218   |
| 0.19                   | 17.1 | 0.20 | 17.2 | 0.21 | 17.3 | 0.22 | 17.4 | 0.23 | 17.3 | 0.23 | 17.0 | 0.24 | 16.8 | 0.25 | 16.0 | 0.26      | 15.3 |      |      |     |          |      |        |        |        |
| 1045                   |      | 1018 |      | 989  |      | 959  |      | 923  |      | 881  |      | 851  |      | 809  |      | 764       |      | 500  |      |     |          |      |        |        | 2280   |
| 0.21                   | 18.1 | 0.22 | 18.2 | 0.22 | 18.3 | 0.23 | 18.4 | 0.24 | 18.3 | 0.25 | 18.1 | 0.26 | 17.8 | 0.27 | 16.9 | 0.28      | 16.1 | 0.23 | 15.8 |     |          |      |        |        |        |
| 1073                   |      | 1047 |      | 1019 |      | 990  |      | 956  |      | 915  |      | 882  |      | 838  |      | 800       |      | 604  |      |     |          |      |        |        | 2341   |
| 0.23                   | 19.1 | 0.23 | 19.2 | 0.24 | 19.3 | 0.25 | 19.4 | 0.26 | 19.4 | 0.27 | 19.2 | 0.28 | 18.8 | 0.29 | 18.0 | 0.30      | 17.0 | 0.28 | 16.7 |     |          |      |        |        |        |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories)

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.

# SQBA12 Performance Data

| CFM at Static Pressure |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | RPM Range<br>Motor HP |      |     |     |   |       | RPM  |  |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|------|-----|-----|---|-------|------|--|
| .125                   |      | .250 |      | .375 |      | .500 |      | .750 |      | 1.00 |      | 1.50 |      | 2.00 |      | 2.50 |      | 3.00 |      | 1/4                   | 1/3  | 1/2 | 3/4 | 1 | 1 1/2 |      |  |
| BHP                    | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP                   | Sone |     |     |   |       |      |  |
| 985                    |      | 889  |      | 788  |      | 661  |      |      |      |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1078 |  |
| 0.10                   | 6.5  | 0.11 | 6.2  | 0.11 | 6.2  | 0.11 | 6.0  |      |      |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1042                   |      | 953  |      | 860  |      | 746  |      |      |      |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1132 |  |
| 0.11                   | 7.1  | 0.12 | 6.7  | 0.13 | 6.9  | 0.13 | 6.6  |      |      |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1155                   |      | 1080 |      | 993  |      | 904  |      | 682  |      |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1240 |  |
| 0.15                   | 8.5  | 0.16 | 7.9  | 0.17 | 8.1  | 0.17 | 8.0  | 0.17 | 7.4  |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1211                   |      | 1142 |      | 1058 |      | 976  |      | 769  |      |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1294 |  |
| 0.16                   | 9.3  | 0.18 | 8.6  | 0.19 | 8.7  | 0.19 | 8.8  | 0.19 | 8.3  |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1323                   |      | 1261 |      | 1186 |      | 1111 |      | 937  | 736  |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1402 |  |
| 0.21                   | 10.8 | 0.22 | 10.2 | 0.23 | 10.0 | 0.24 | 10.3 | 0.25 | 9.9  | 0.24 | 9.1  |      |      |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1378                   |      | 1318 |      | 1249 |      | 1175 |      | 1017 | 826  |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1455 |  |
| 0.23                   | 11.7 | 0.25 | 11.1 | 0.26 | 10.7 | 0.27 | 10.9 | 0.28 | 10.7 | 0.27 | 10.2 |      |      |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1434                   |      | 1376 |      | 1312 |      | 1239 |      | 1093 | 911  |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1509 |  |
| 0.26                   | 12.6 | 0.27 | 12.0 | 0.28 | 11.4 | 0.29 | 11.6 | 0.31 | 11.6 | 0.30 | 11.1 |      |      |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1489                   |      | 1433 |      | 1373 |      | 1303 |      | 1166 | 995  |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1563 |  |
| 0.28                   | 13.3 | 0.30 | 12.8 | 0.31 | 12.1 | 0.32 | 12.2 | 0.34 | 12.4 | 0.34 | 11.8 |      |      |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1545                   |      | 1490 |      | 1434 |      | 1367 |      | 1236 | 1079 |      |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1617 |  |
| 0.31                   | 14.1 | 0.33 | 13.6 | 0.34 | 13.0 | 0.36 | 12.9 | 0.37 | 13.1 | 0.38 | 12.7 |      |      |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1601                   |      | 1547 |      | 1494 |      | 1431 |      | 1304 | 1161 | 812  |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1671 |  |
| 0.34                   | 14.8 | 0.36 | 14.4 | 0.38 | 13.9 | 0.39 | 13.7 | 0.41 | 13.9 | 0.42 | 13.5 | 0.40 | 12.2 |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1656                   |      | 1603 |      | 1553 |      | 1494 |      | 1370 | 1238 | 916  |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1725 |  |
| 0.38                   | 15.6 | 0.39 | 15.2 | 0.41 | 14.7 | 0.43 | 14.5 | 0.45 | 14.7 | 0.46 | 14.5 | 0.45 | 13.1 |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1711                   |      | 1660 |      | 1611 |      | 1557 |      | 1435 | 1312 | 1007 |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1779 |  |
| 0.41                   | 16.6 | 0.43 | 16.1 | 0.45 | 15.6 | 0.46 | 15.3 | 0.49 | 15.5 | 0.50 | 15.4 | 0.49 | 14.3 |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1767                   |      | 1716 |      | 1669 |      | 1618 |      | 1499 | 1384 | 1092 |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1833 |  |
| 0.45                   | 17.5 | 0.47 | 17.1 | 0.49 | 16.5 | 0.50 | 16.1 | 0.53 | 16.3 | 0.55 | 16.4 | 0.54 | 15.4 |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1822                   |      | 1772 |      | 1727 |      | 1678 |      | 1564 | 1453 | 1177 |      |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1887 |  |
| 0.49                   | 18.3 | 0.51 | 18.0 | 0.53 | 17.5 | 0.55 | 17.1 | 0.57 | 17.0 | 0.59 | 17.3 | 0.60 | 16.4 |      |      |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1932                   |      | 1884 |      | 1841 |      | 1797 |      | 1692 | 1586 | 1344 | 1063 |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 1995 |  |
| 0.57                   | 20   | 0.60 | 19.9 | 0.62 | 19.5 | 0.64 | 19.0 | 0.67 | 18.6 | 0.69 | 19.0 | 0.71 | 18.3 | 0.69 | 16.9 |      |      |      |      |                       |      |     |     |   |       |      |  |
| 1987                   |      | 1939 |      | 1896 |      | 1854 |      | 1754 | 1650 | 1424 | 1152 |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 2048 |  |
| 0.62                   | 21   | 0.64 | 21   | 0.66 | 20   | 0.68 | 19.9 | 0.72 | 19.4 | 0.74 | 19.8 | 0.77 | 19.3 | 0.75 | 18.3 |      |      |      |      |                       |      |     |     |   |       |      |  |
| 2042                   |      | 1995 |      | 1953 |      | 1912 |      | 1818 | 1714 | 1501 | 1238 |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 2102 |  |
| 0.67                   | 22   | 0.69 | 22   | 0.71 | 21   | 0.74 | 21   | 0.77 | 20   | 0.80 | 21   | 0.83 | 20   | 0.82 | 19.5 |      |      |      |      |                       |      |     |     |   |       |      |  |
| 2097                   |      | 2050 |      | 2009 |      | 1969 |      | 1880 | 1778 | 1576 | 1323 |      |      |      |      |      |      |      |      |                       |      |     |     |   |       | 2156 |  |
| 0.72                   | 23   | 0.74 | 23   | 0.77 | 22   | 0.79 | 22   | 0.83 | 21   | 0.86 | 21   | 0.89 | 22   | 0.89 | 21   |      |      |      |      |                       |      |     |     |   |       |      |  |
| 2152                   |      | 2106 |      | 2065 |      | 2027 |      | 1942 | 1842 | 1649 | 1407 | 1151 |      |      |      |      |      |      |      |                       |      |     |     |   |       | 2210 |  |
| 0.77                   | 24   | 0.80 | 24   | 0.82 | 23   | 0.85 | 23   | 0.89 | 22   | 0.92 | 22   | 0.96 | 23   | 0.96 | 22   | 0.94 | 20   |      |      |                       |      |     |     |   |       |      |  |
| 2207                   |      | 2162 |      | 2121 |      | 2084 |      | 2003 | 1906 | 1719 | 1491 | 1246 |      |      |      |      |      |      |      |                       |      |     |     |   |       | 2264 |  |
| 0.83                   | 25   | 0.86 | 25   | 0.88 | 25   | 0.90 | 24   | 0.95 | 23   | 0.98 | 23   | 1.03 | 24   | 1.04 | 22.6 | 1.02 | 22   |      |      |                       |      |     |     |   |       |      |  |
| 2261                   |      | 2217 |      | 2178 |      | 2140 |      | 2063 | 1970 | 1788 | 1574 | 1334 |      |      |      |      |      |      |      |                       |      |     |     |   |       | 2318 |  |
| 0.89                   | 26   | 0.92 | 26   | 0.94 | 26   | 0.97 | 25   | 1.01 | 24   | 1.05 | 24   | 1.10 | 25   | 1.11 | 24   | 1.10 | 23   |      |      |                       |      |     |     |   |       |      |  |
| 2383                   |      | 2340 |      | 2302 |      | 2266 |      | 2195 | 2111 | 1936 | 1749 | 1522 | 1292 |      |      |      |      |      |      |                       |      |     |     |   |       | 2438 |  |
| 1.03                   | 28   | 1.06 | 28   | 1.09 | 28   | 1.11 | 28   | 1.16 | 27   | 1.20 | 26   | 1.26 | 27   | 1.29 | 26   | 1.29 | 26   | 1.26 | 24   |                       |      |     |     |   |       |      |  |
| 2446                   |      | 2404 |      | 2366 |      | 2331 |      | 2262 | 2183 | 2010 | 1835 | 1619 | 1398 |      |      |      |      |      |      |                       |      |     |     |   |       | 2500 |  |
| 1.11                   | 30   | 1.14 | 30   | 1.17 | 29   | 1.19 | 29   | 1.25 | 28   | 1.29 | 27   | 1.35 | 28   | 1.39 | 28   | 1.39 | 27   | 1.37 | 26   |                       |      |     |     |   |       |      |  |
| 2510                   |      | 2469 |      | 2431 |      | 2396 |      | 2330 | 2255 | 2086 | 1919 | 1716 | 1499 |      |      |      |      |      |      |                       |      |     |     |   |       | 2563 |  |
| 1.20                   | 31   | 1.23 | 31   | 1.25 | 31   | 1.28 | 30   | 1.34 | 29   | 1.38 | 28   | 1.45 | 29   | 1.50 | 29   | 1.50 | 28   | 1.48 | 27   |                       |      |     |     |   |       |      |  |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.

# SQBA13 Performance Data

| CFM at Static Pressure |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | RPM Range |      |      |      |          |     | RPM |     |   |    |      |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|------|------|------|----------|-----|-----|-----|---|----|------|
| .125                   |      | .250 |      | .375 |      | .500 |      | .750 |      | 1.00 |      | 1.50 |      | 2.00 |      | 2.50      |      | 3.00 |      | Motor HP |     |     |     |   |    |      |
| BHP                    | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP       | Sone | BHP  | Sone | 1/4      | 1/3 | 1/2 | 3/4 | 1 | 1½ |      |
| 1513                   |      | 1418 |      | 1316 |      | 1203 |      | 916  |      |      |      |      |      |      |      |           |      |      |      |          |     |     |     |   |    | 1132 |
| 0.18                   | 8.9  | 0.19 | 8.4  | 0.20 | 8.0  | 0.21 | 7.8  | 0.21 | 7.3  |      |      |      |      |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 1594                   |      | 1504 |      | 1408 |      | 1304 |      | 1045 |      |      |      |      |      |      |      |           |      |      |      |          |     |     |     |   |    | 1186 |
| 0.20                   | 9.8  | 0.21 | 9.2  | 0.23 | 8.9  | 0.24 | 8.6  | 0.24 | 8.2  |      |      |      |      |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 1675                   |      | 1589 |      | 1499 |      | 1402 |      | 1171 |      |      |      |      |      |      |      |           |      |      |      |          |     |     |     |   |    | 1240 |
| 0.23                   | 10.8 | 0.24 | 10.2 | 0.26 | 9.8  | 0.27 | 9.5  | 0.28 | 9.1  |      |      |      |      |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 1755                   |      | 1673 |      | 1588 |      | 1497 |      | 1288 |      | 1025 |      |      |      |      |      |           |      |      |      |          |     |     |     |   |    | 1294 |
| 0.26                   | 11.8 | 0.27 | 11.1 | 0.29 | 10.7 | 0.30 | 10.4 | 0.31 | 10.1 | 0.31 | 9.7  |      |      |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 1834                   |      | 1757 |      | 1675 |      | 1590 |      | 1398 |      | 1156 |      |      |      |      |      |           |      |      |      |          |     |     |     |   |    | 1348 |
| 0.29                   | 12.8 | 0.31 | 12.2 | 0.32 | 11.7 | 0.34 | 11.4 | 0.35 | 11.1 | 0.35 | 10.7 |      |      |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 1914                   |      | 1839 |      | 1762 |      | 1681 |      | 1503 |      | 1284 |      |      |      |      |      |           |      |      |      |          |     |     |     |   |    | 1402 |
| 0.33                   | 13.7 | 0.34 | 13.0 | 0.36 | 12.5 | 0.37 | 12.2 | 0.39 | 11.9 | 0.40 | 11.6 |      |      |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 1992                   |      | 1920 |      | 1846 |      | 1769 |      | 1602 |      | 1404 |      |      |      |      |      |           |      |      |      |          |     |     |     |   |    | 1455 |
| 0.36                   | 14.5 | 0.38 | 13.8 | 0.40 | 13.3 | 0.41 | 12.9 | 0.44 | 12.6 | 0.45 | 12.3 |      |      |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 2071                   |      | 2002 |      | 1931 |      | 1857 |      | 1700 |      | 1519 |      |      |      |      |      |           |      |      |      |          |     |     |     |   |    | 1509 |
| 0.40                   | 15.3 | 0.42 | 14.6 | 0.44 | 14.1 | 0.45 | 13.8 | 0.48 | 13.3 | 0.50 | 13.1 |      |      |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 2150                   |      | 2083 |      | 2015 |      | 1945 |      | 1795 |      | 1628 |      | 1196 |      |      |      |           |      |      |      |          |     |     |     |   |    | 1563 |
| 0.45                   | 16.2 | 0.47 | 15.5 | 0.48 | 15.0 | 0.50 | 14.6 | 0.53 | 14.1 | 0.55 | 13.8 | 0.55 | 13.2 |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 2228                   |      | 2165 |      | 2099 |      | 2031 |      | 1889 |      | 1732 |      | 1335 |      |      |      |           |      |      |      |          |     |     |     |   |    | 1617 |
| 0.49                   | 17.0 | 0.51 | 16.4 | 0.53 | 15.9 | 0.55 | 15.4 | 0.58 | 14.9 | 0.60 | 14.6 | 0.61 | 14.1 |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 2307                   |      | 2245 |      | 2182 |      | 2117 |      | 1981 |      | 1833 |      | 1464 |      |      |      |           |      |      |      |          |     |     |     |   |    | 1671 |
| 0.54                   | 17.9 | 0.56 | 17.2 | 0.58 | 16.7 | 0.60 | 16.3 | 0.64 | 15.8 | 0.66 | 15.5 | 0.68 | 14.9 |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 2385                   |      | 2326 |      | 2265 |      | 2202 |      | 2072 |      | 1932 |      | 1590 |      |      |      |           |      |      |      |          |     |     |     |   |    | 1725 |
| 0.60                   | 18.7 | 0.62 | 18.1 | 0.64 | 17.6 | 0.66 | 17.2 | 0.69 | 16.7 | 0.72 | 16.5 | 0.74 | 15.9 |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 2464                   |      | 2406 |      | 2347 |      | 2287 |      | 2162 |      | 2028 |      | 1712 |      |      |      |           |      |      |      |          |     |     |     |   |    | 1779 |
| 0.65                   | 19.6 | 0.67 | 19.0 | 0.69 | 18.5 | 0.71 | 18.1 | 0.75 | 17.7 | 0.79 | 17.4 | 0.82 | 17.0 |      |      |           |      |      |      |          |     |     |     |   |    |      |
| 2542                   |      | 2486 |      | 2429 |      | 2371 |      | 2250 |      | 2122 |      | 1828 |      | 1457 |      |           |      |      |      |          |     |     |     |   |    | 1833 |
| 0.71                   | 20   | 0.73 | 19.8 | 0.76 | 19.4 | 0.78 | 19.1 | 0.82 | 18.6 | 0.85 | 18.3 | 0.89 | 17.9 | 0.89 | 17.2 |           |      |      |      |          |     |     |     |   |    |      |
| 2620                   |      | 2566 |      | 2511 |      | 2454 |      | 2338 |      | 2215 |      | 1939 |      | 1589 |      |           |      |      |      |          |     |     |     |   |    | 1887 |
| 0.78                   | 21   | 0.80 | 21   | 0.82 | 20   | 0.84 | 19.9 | 0.88 | 19.4 | 0.92 | 19.1 | 0.97 | 18.7 | 0.97 | 18.2 |           |      |      |      |          |     |     |     |   |    |      |
| 2698                   |      | 2645 |      | 2592 |      | 2537 |      | 2425 |      | 2307 |      | 2046 |      | 1717 |      |           |      |      |      |          |     |     |     |   |    | 1941 |
| 0.84                   | 23   | 0.87 | 22   | 0.89 | 21   | 0.91 | 21   | 0.95 | 20   | 1.00 | 19.9 | 1.05 | 19.5 | 1.06 | 19.1 |           |      |      |      |          |     |     |     |   |    |      |
| 2816                   |      | 2766 |      | 2715 |      | 2663 |      | 2556 |      | 2444 |      | 2201 |      | 1908 |      | 1559      |      |      |      |          |     |     |     |   |    | 2023 |
| 0.95                   | 24   | 0.98 | 24   | 1.00 | 23   | 1.02 | 23   | 1.07 | 22   | 1.11 | 22   | 1.18 | 21   | 1.20 | 21   | 1.19      | 20   |      |      |          |     |     |     |   |    |      |
| 2895                   |      | 2846 |      | 2797 |      | 2746 |      | 2643 |      | 2535 |      | 2303 |      | 2029 |      | 1701      |      |      |      |          |     |     |     |   |    | 2078 |
| 1.03                   | 25   | 1.06 | 25   | 1.08 | 24   | 1.10 | 24   | 1.15 | 23   | 1.20 | 23   | 1.27 | 22   | 1.30 | 22   | 1.30      | 21   |      |      |          |     |     |     |   |    |      |
| 2975                   |      | 2927 |      | 2879 |      | 2830 |      | 2729 |      | 2625 |      | 2402 |      | 2145 |      | 1832      |      |      |      |          |     |     |     |   |    | 2133 |
| 1.12                   | 27   | 1.14 | 26   | 1.16 | 26   | 1.19 | 25   | 1.24 | 25   | 1.28 | 24   | 1.36 | 24   | 1.40 | 23   | 1.40      | 23   |      |      |          |     |     |     |   |    |      |
| 3054                   |      | 3007 |      | 2960 |      | 2913 |      | 2815 |      | 2714 |      | 2500 |      | 2257 |      | 1962      |      | 1619 |      |          |     |     |     |   |    | 2188 |
| 1.20                   | 28   | 1.23 | 27   | 1.25 | 27   | 1.28 | 26   | 1.33 | 26   | 1.38 | 25   | 1.46 | 25   | 1.51 | 24   | 1.52      | 24   | 1.49 | 23   |          |     |     |     |   |    |      |
| 3131                   |      | 3086 |      | 3040 |      | 2994 |      | 2899 |      | 2801 |      | 2594 |      | 2363 |      | 2088      |      | 1777 |      |          |     |     |     |   |    | 2242 |
| 1.29                   | 29   | 1.32 | 29   | 1.34 | 28   | 1.37 | 28   | 1.42 | 27   | 1.47 | 26   | 1.56 | 26   | 1.62 | 26   | 1.63      | 25   | 1.63 | 24   |          |     |     |     |   |    |      |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories)  
 Power ratings (BHP) do not include transmission losses. Bearing losses are included.  
 The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.



# SQBA15 Performance Data

| CFM at Static Pressure |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | RPM Range<br>Motor HP |     |     |     |   |    | RPM |      |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|-----|-----|-----|---|----|-----|------|
| .125                   |      | .250 |      | .375 |      | .500 |      | .750 |      | 1.00 |      | 1.50 |      | 2.00 |      | 2.50 |      | 3.00 |                       | 1/3 | 1/2 | 3/4 | 1 | 1½ |     | 2    |
| BHP                    | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone                  |     |     |     |   |    |     |      |
| 2042                   |      | 1942 |      | 1837 |      | 1712 |      | 1410 |      |      |      |      |      |      |      |      |      |      |                       |     |     |     |   |    |     | 1119 |
| 0.27                   | 12.1 | 0.29 | 11.2 | 0.31 | 10.7 | 0.32 | 9.9  | 0.32 | 8.7  |      |      |      |      |      |      |      |      |      |                       |     |     |     |   |    |     |      |
| 2136                   |      | 2040 |      | 1942 |      | 1827 |      | 1548 |      | 1210 |      |      |      |      |      |      |      |      |                       |     |     |     |   |    |     | 1166 |
| 0.30                   | 13.0 | 0.32 | 12.1 | 0.34 | 11.6 | 0.35 | 10.8 | 0.37 | 9.6  | 0.36 | 8.9  |      |      |      |      |      |      |      |                       |     |     |     |   |    |     |      |
| 2228                   |      | 2135 |      | 2042 |      | 1937 |      | 1678 |      | 1378 |      |      |      |      |      |      |      |      |                       |     |     |     |   |    |     | 1212 |
| 0.34                   | 13.9 | 0.36 | 13.0 | 0.38 | 12.5 | 0.39 | 11.9 | 0.41 | 10.5 | 0.41 | 9.9  |      |      |      |      |      |      |      |                       |     |     |     |   |    |     |      |
| 2322                   |      | 2232 |      | 2144 |      | 2046 |      | 1807 |      | 1528 |      |      |      |      |      |      |      |      |                       |     |     |     |   |    |     | 1259 |
| 0.38                   | 14.8 | 0.40 | 13.9 | 0.42 | 13.4 | 0.44 | 12.9 | 0.46 | 11.5 | 0.46 | 11.0 |      |      |      |      |      |      |      |                       |     |     |     |   |    |     |      |
| 2413                   |      | 2326 |      | 2241 |      | 2150 |      | 1929 |      | 1666 |      |      |      |      |      |      |      |      |                       |     |     |     |   |    |     | 1305 |
| 0.42                   | 15.8 | 0.44 | 14.8 | 0.46 | 14.3 | 0.48 | 14.1 | 0.51 | 12.6 | 0.51 | 12.2 |      |      |      |      |      |      |      |                       |     |     |     |   |    |     |      |
| 2507                   |      | 2422 |      | 2340 |      | 2255 |      | 2050 |      | 1803 |      |      |      |      |      |      |      |      |                       |     |     |     |   |    |     | 1352 |
| 0.46                   | 16.8 | 0.49 | 15.8 | 0.51 | 15.2 | 0.53 | 15.1 | 0.56 | 13.8 | 0.57 | 13.4 |      |      |      |      |      |      |      |                       |     |     |     |   |    |     |      |
| 2600                   |      | 2518 |      | 2438 |      | 2357 |      | 2167 |      | 1936 |      |      |      |      |      |      |      |      |                       |     |     |     |   |    |     | 1399 |
| 0.51                   | 17.8 | 0.53 | 16.9 | 0.56 | 16.2 | 0.58 | 16.1 | 0.61 | 15.1 | 0.63 | 14.5 |      |      |      |      |      |      |      |                       |     |     |     |   |    |     |      |
| 2784                   |      | 2706 |      | 2631 |      | 2557 |      | 2390 |      | 2188 |      | 1713 |      |      |      |      |      |      |                       |     |     |     |   |    |     | 1492 |
| 0.61                   | 19.8 | 0.64 | 18.9 | 0.67 | 18.3 | 0.69 | 18.0 | 0.73 | 17.7 | 0.76 | 16.7 | 0.77 | 16.0 |      |      |      |      |      |                       |     |     |     |   |    |     |      |
| 2876                   |      | 2800 |      | 2728 |      | 2656 |      | 2499 |      | 2311 |      | 1862 |      |      |      |      |      |      |                       |     |     |     |   |    |     | 1539 |
| 0.67                   | 21   | 0.70 | 20   | 0.73 | 19.3 | 0.76 | 19.0 | 0.80 | 19.0 | 0.83 | 17.8 | 0.84 | 17.3 |      |      |      |      |      |                       |     |     |     |   |    |     |      |
| 2967                   |      | 2893 |      | 2822 |      | 2752 |      | 2604 |      | 2427 |      | 2001 |      |      |      |      |      |      |                       |     |     |     |   |    |     | 1585 |
| 0.73                   | 22   | 0.76 | 21   | 0.79 | 20   | 0.82 | 19.9 | 0.87 | 20.3 | 0.90 | 19.0 | 0.92 | 18.7 |      |      |      |      |      |                       |     |     |     |   |    |     |      |
| 3059                   |      | 2987 |      | 2918 |      | 2850 |      | 2709 |      | 2543 |      | 2139 |      | 1632 |      |      |      |      |                       |     |     |     |   |    |     | 1632 |
| 0.80                   | 23   | 0.83 | 22   | 0.86 | 21   | 0.89 | 21   | 0.94 | 22   | 0.97 | 20   | 1.01 | 20   | 0.98 | 19.1 |      |      |      |                       |     |     |     |   |    |     |      |
| 3150                   |      | 3079 |      | 3011 |      | 2946 |      | 2810 |      | 2654 |      | 2271 |      | 1825 |      |      |      |      |                       |     |     |     |   |    |     | 1678 |
| 0.87                   | 24   | 0.90 | 23   | 0.93 | 22   | 0.96 | 22   | 1.01 | 23   | 1.05 | 22   | 1.09 | 21   | 1.09 | 21   |      |      |      |                       |     |     |     |   |    |     |      |
| 3291                   |      | 3223 |      | 3158 |      | 3094 |      | 2966 |      | 2823 |      | 2472 |      | 2065 |      |      |      |      |                       |     |     |     |   |    |     | 1750 |
| 0.98                   | 26   | 1.01 | 25   | 1.04 | 24   | 1.08 | 24   | 1.14 | 24   | 1.18 | 24   | 1.23 | 23   | 1.24 | 23   |      |      |      |                       |     |     |     |   |    |     |      |
| 3383                   |      | 3317 |      | 3253 |      | 3191 |      | 3067 |      | 2931 |      | 2600 |      | 2211 |      |      |      |      |                       |     |     |     |   |    |     | 1797 |
| 1.06                   | 27   | 1.09 | 27   | 1.12 | 26   | 1.16 | 25   | 1.22 | 25   | 1.27 | 26   | 1.33 | 24   | 1.34 | 24   |      |      |      |                       |     |     |     |   |    |     |      |
| 3569                   |      | 3505 |      | 3444 |      | 3385 |      | 3268 |      | 3144 |      | 2848 |      | 2492 |      | 2097 |      |      |                       |     |     |     |   |    |     | 1892 |
| 1.23                   | 29   | 1.27 | 29   | 1.30 | 28   | 1.34 | 27   | 1.40 | 27   | 1.46 | 28   | 1.53 | 26   | 1.57 | 26   | 1.57 | 25   |      |                       |     |     |     |   |    |     |      |
| 3661                   |      | 3599 |      | 3539 |      | 3480 |      | 3366 |      | 3248 |      | 2967 |      | 2627 |      | 2253 |      |      |                       |     |     |     |   |    |     | 1939 |
| 1.32                   | 30   | 1.36 | 30   | 1.39 | 29   | 1.43 | 28   | 1.50 | 28   | 1.56 | 28   | 1.64 | 26   | 1.68 | 27   | 1.69 | 26   |      |                       |     |     |     |   |    |     |      |
| 3753                   |      | 3692 |      | 3633 |      | 3576 |      | 3464 |      | 3350 |      | 3084 |      | 2759 |      | 2401 |      | 1924 |                       |     |     |     |   |    |     | 1986 |
| 1.42                   | 31   | 1.46 | 31   | 1.49 | 30   | 1.53 | 29   | 1.60 | 28   | 1.67 | 29   | 1.76 | 27   | 1.80 | 27   | 1.81 | 27   | 1.75 | 26                    |     |     |     |   |    |     |      |
| 3846                   |      | 3787 |      | 3729 |      | 3673 |      | 3564 |      | 3453 |      | 3200 |      | 2891 |      | 2547 |      | 2155 |                       |     |     |     |   |    |     | 2034 |
| 1.52                   | 32   | 1.56 | 32   | 1.60 | 31   | 1.64 | 30   | 1.71 | 29   | 1.78 | 30   | 1.88 | 29   | 1.93 | 28   | 1.95 | 28   | 1.94 | 27                    |     |     |     |   |    |     |      |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power ratings (BHP) do not include transmission losses. Bearing losses are included. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.

# SQBA16 Performance Data

| CFM at Static Pressure |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | RPM Range |      |      |      |          | RPM |   |    |     |      |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|------|------|------|----------|-----|---|----|-----|------|
| .125                   |      | .250 |      | .375 |      | .500 |      | .750 |      | 1.00 |      | 1.50 |      | 2.00 |      | 2.50      |      | 3.00 |      | Motor HP |     |   |    |     |      |
| BHP                    | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP       | Sone | BHP  | Sone | 1/2      | 3/4 | 1 | 1½ | 2   |      |
| 1991                   | 1868 | 1730 | 1495 |      |      |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    | 807 |      |
| 0.20                   | 9.6  | 0.21 | 8.6  | 0.23 | 7.8  | 0.23 | 7.6  |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 2096                   | 1973 | 1858 | 1644 |      |      |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 844  |
| 0.23                   | 10.5 | 0.24 | 9.4  | 0.26 | 8.5  | 0.26 | 8.3  |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 2202                   | 2078 | 1974 | 1794 |      |      |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 881  |
| 0.26                   | 11.4 | 0.27 | 10.3 | 0.29 | 9.3  | 0.30 | 8.9  |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 2307                   | 2182 | 2084 | 1945 | 1483 |      |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 918  |
| 0.29                   | 12.1 | 0.31 | 11.2 | 0.32 | 10.1 | 0.33 | 9.5  | 0.32 | 8.9  |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 2410                   | 2284 | 2189 | 2076 | 1682 |      |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 954  |
| 0.32                   | 12.9 | 0.34 | 12.1 | 0.36 | 11.0 | 0.37 | 10.2 | 0.37 | 9.6  |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 2515                   | 2388 | 2295 | 2198 | 1841 |      |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 991  |
| 0.36                   | 13.9 | 0.38 | 13.0 | 0.40 | 11.8 | 0.41 | 11.0 | 0.42 | 10.3 |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 2620                   | 2493 | 2400 | 2311 | 1991 | 1447 |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1028 |
| 0.40                   | 14.8 | 0.42 | 14.0 | 0.44 | 12.8 | 0.45 | 11.8 | 0.47 | 11.0 | 0.43 | 10.3 |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 2722                   | 2595 | 2502 | 2418 | 2136 | 1740 |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1064 |
| 0.44                   | 15.7 | 0.46 | 15.0 | 0.48 | 13.9 | 0.50 | 12.7 | 0.52 | 11.8 | 0.50 | 11.0 |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 2827                   | 2701 | 2607 | 2526 | 2289 | 1939 |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1101 |
| 0.48                   | 16.6 | 0.51 | 16.0 | 0.53 | 15.0 | 0.55 | 13.7 | 0.58 | 12.7 | 0.57 | 12.0 |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 2931                   | 2806 | 2711 | 2632 | 2434 | 2100 |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1138 |
| 0.53                   | 17.6 | 0.56 | 17.0 | 0.58 | 16.1 | 0.60 | 14.9 | 0.63 | 13.7 | 0.64 | 13.1 |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 3033                   | 2909 | 2813 | 2735 | 2562 | 2247 |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1174 |
| 0.58                   | 18.6 | 0.61 | 18.0 | 0.63 | 17.2 | 0.65 | 16.1 | 0.69 | 14.8 | 0.70 | 14.3 |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 3137                   | 3014 | 2917 | 2840 | 2683 | 2395 |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1211 |
| 0.64                   | 19.6 | 0.67 | 19.1 | 0.69 | 18.2 | 0.71 | 17.4 | 0.75 | 16.1 | 0.77 | 15.5 |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 3240                   | 3120 | 3022 | 2944 | 2798 | 2546 |      |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1248 |
| 0.69                   | 21   | 0.72 | 20   | 0.75 | 19.4 | 0.78 | 18.7 | 0.82 | 17.3 | 0.84 | 16.1 |      |      |      |      |           |      |      |      |          |     |   |    |     |      |
| 3344                   | 3225 | 3127 | 3049 | 2908 | 2698 | 1996 |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1285 |
| 0.76                   | 22   | 0.79 | 21   | 0.82 | 21   | 0.84 | 20   | 0.88 | 18.8 | 0.92 | 17.9 | 0.87 | 16.8 |      |      |           |      |      |      |          |     |   |    |     |      |
| 3497                   | 3382 | 3283 | 3204 | 3069 | 2905 | 2335 |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1340 |
| 0.85                   | 23   | 0.89 | 23   | 0.92 | 23   | 0.95 | 22   | 0.99 | 21   | 1.03 | 19.8 | 1.03 | 18.8 |      |      |           |      |      |      |          |     |   |    |     |      |
| 3603                   | 3490 | 3392 | 3311 | 3179 | 3033 | 2506 |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1378 |
| 0.93                   | 25   | 0.96 | 25   | 0.99 | 24   | 1.02 | 24   | 1.07 | 23   | 1.11 | 21   | 1.13 | 20   |      |      |           |      |      |      |          |     |   |    |     |      |
| 3706                   | 3596 | 3497 | 3416 | 3284 | 3151 | 2659 |      |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1415 |
| 1.00                   | 26   | 1.04 | 26   | 1.07 | 26   | 1.10 | 26   | 1.15 | 24   | 1.19 | 23   | 1.23 | 22   |      |      |           |      |      |      |          |     |   |    |     |      |
| 3809                   | 3701 | 3603 | 3521 | 3390 | 3263 | 2808 | 2032 |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1452 |
| 1.08                   | 28   | 1.12 | 28   | 1.15 | 28   | 1.18 | 27   | 1.24 | 26   | 1.28 | 25   | 1.33 | 23   | 1.20 | 23   |           |      |      |      |          |     |   |    |     |      |
| 3911                   | 3806 | 3708 | 3626 | 3494 | 3374 | 2957 | 2347 |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1489 |
| 1.16                   | 30   | 1.20 | 30   | 1.24 | 30   | 1.27 | 29   | 1.33 | 28   | 1.37 | 27   | 1.43 | 25   | 1.36 | 25   |           |      |      |      |          |     |   |    |     |      |
| 4017                   | 3913 | 3817 | 3734 | 3602 | 3485 | 3112 | 2593 |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1527 |
| 1.25                   | 31   | 1.29 | 31   | 1.33 | 31   | 1.36 | 31   | 1.42 | 30   | 1.47 | 28   | 1.54 | 26   | 1.51 | 25   |           |      |      |      |          |     |   |    |     |      |
| 4119                   | 4018 | 3922 | 3839 | 3706 | 3592 | 3265 | 2774 |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1564 |
| 1.34                   | 32   | 1.38 | 32   | 1.42 | 32   | 1.46 | 32   | 1.52 | 31   | 1.57 | 29   | 1.65 | 27   | 1.64 | 26   |           |      |      |      |          |     |   |    |     |      |
| 4221                   | 4122 | 4028 | 3944 | 3810 | 3699 | 3411 | 2935 |      |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1601 |
| 1.44                   | 33   | 1.48 | 33   | 1.52 | 33   | 1.56 | 33   | 1.62 | 32   | 1.68 | 30   | 1.76 | 28   | 1.77 | 27   |           |      |      |      |          |     |   |    |     |      |
| 4323                   | 4226 | 4133 | 4050 | 3915 | 3804 | 3547 | 3087 | 2396 |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1638 |
| 1.54                   | 34   | 1.58 | 34   | 1.62 | 34   | 1.66 | 34   | 1.73 | 33   | 1.78 | 32   | 1.88 | 29   | 1.91 | 28   | 1.76      | 28   |      |      |          |     |   |    |     |      |
| 4428                   | 4333 | 4242 | 4158 | 4022 | 3912 | 3676 | 3240 | 2707 |      |      |      |      |      |      |      |           |      |      |      |          |     |   |    |     | 1676 |
| 1.65                   | 35   | 1.69 | 35   | 1.73 | 35   | 1.77 | 35   | 1.84 | 34   | 1.90 | 33   | 2.00 | 30   | 2.04 | 29   |           |      |      |      |          |     |   |    |     |      |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories)

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.

# SQBA18 Performance Data

| CFM at Static Pressure |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | RPM Range<br>Motor HP |      |   |    |   |   | RPM |     |      |  |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|------|---|----|---|---|-----|-----|------|--|
| .125                   |      | .250 |      | .375 |      | .500 |      | .750 |      | 1.00 |      | 1.50 |      | 2.00 |      | 2.50 |      | 3.00 |      | 1/2                   | 3/4  | 1 | 1½ | 2 | 3 |     |     |      |  |
| BHP                    | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP                   | Sone |   |    |   |   |     |     |      |  |
| 2423                   |      | 2252 |      | 2031 |      | 1807 |      |      |      |      |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     | 734 |      |  |
| 0.23                   | 6.6  | 0.25 | 6.3  | 0.27 | 5.8  | 0.27 | 5.4  |      |      |      |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 2561                   |      | 2403 |      | 2202 |      | 1984 |      |      |      |      |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 771  |  |
| 0.26                   | 7.2  | 0.28 | 6.9  | 0.30 | 6.6  | 0.31 | 6.1  |      |      |      |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 2695                   |      | 2546 |      | 2364 |      | 2155 |      |      |      |      |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 807  |  |
| 0.30                   | 7.9  | 0.32 | 7.5  | 0.34 | 7.2  | 0.36 | 6.7  |      |      |      |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 2831                   |      | 2690 |      | 2526 |      | 2329 |      | 1939 |      |      |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 844  |  |
| 0.34                   | 8.5  | 0.36 | 8.2  | 0.39 | 8.0  | 0.40 | 7.5  | 0.41 | 6.8  |      |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 2967                   |      | 2833 |      | 2683 |      | 2500 |      | 2126 |      |      |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 881  |  |
| 0.38                   | 9.3  | 0.41 | 8.9  | 0.43 | 8.7  | 0.45 | 8.3  | 0.47 | 7.4  |      |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 3103                   |      | 2975 |      | 2836 |      | 2668 |      | 2305 |      |      |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 918  |  |
| 0.43                   | 10.0 | 0.46 | 9.7  | 0.48 | 9.4  | 0.51 | 9.1  | 0.53 | 8.1  |      |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 3235                   |      | 3111 |      | 2982 |      | 2828 |      | 2477 |      | 2122 |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 0.48                   | 10.7 | 0.51 | 10.3 | 0.54 | 10.1 | 0.56 | 9.9  | 0.59 | 8.9  | 0.59 | 8.4  |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 954  |  |
| 3369                   |      | 3251 |      | 3128 |      | 2987 |      | 2652 |      | 2324 |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 0.53                   | 11.5 | 0.56 | 11.1 | 0.59 | 10.9 | 0.62 | 10.6 | 0.66 | 9.7  | 0.67 | 9.0  |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 991  |  |
| 3504                   |      | 3390 |      | 3273 |      | 3143 |      | 2826 |      | 2507 |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 0.59                   | 12.3 | 0.62 | 11.9 | 0.66 | 11.7 | 0.68 | 11.5 | 0.73 | 10.7 | 0.75 | 9.7  |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 1028 |  |
| 3635                   |      | 3524 |      | 3412 |      | 3291 |      | 2993 |      | 2680 |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 0.65                   | 13.1 | 0.69 | 12.7 | 0.72 | 12.4 | 0.75 | 12.3 | 0.80 | 11.6 | 0.82 | 10.7 |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 1064 |  |
| 3769                   |      | 3662 |      | 3554 |      | 3440 |      | 3163 |      | 2857 |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 0.72                   | 13.9 | 0.76 | 13.5 | 0.79 | 13.2 | 0.82 | 13.1 | 0.88 | 12.6 | 0.91 | 11.6 |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 1101 |  |
| 3902                   |      | 3799 |      | 3695 |      | 3587 |      | 3329 |      | 3033 |      |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 0.79                   | 14.8 | 0.83 | 14.4 | 0.87 | 14.1 | 0.90 | 13.9 | 0.96 | 13.5 | 1.00 | 12.7 |      |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 1138 |  |
| 4032                   |      | 3932 |      | 3832 |      | 3729 |      | 3488 |      | 3202 |      | 2632 |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 0.86                   | 15.6 | 0.91 | 15.2 | 0.94 | 14.9 | 0.98 | 14.7 | 1.04 | 14.3 | 1.09 | 13.6 | 1.10 | 12.2 |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 1174 |  |
| 4230                   |      | 4134 |      | 4039 |      | 3942 |      | 3723 |      | 3458 |      | 2923 |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 0.99                   | 16.8 | 1.03 | 16.3 | 1.07 | 16.0 | 1.11 | 15.8 | 1.18 | 15.4 | 1.24 | 14.8 | 1.27 | 13.3 |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 1229 |  |
| 4364                   |      | 4270 |      | 4177 |      | 4084 |      | 3878 |      | 3628 |      | 3104 |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 1.08                   | 17.5 | 1.12 | 17.0 | 1.17 | 16.7 | 1.20 | 16.5 | 1.28 | 16.2 | 1.34 | 15.7 | 1.39 | 14.2 |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 1266 |  |
| 4497                   |      | 4406 |      | 4316 |      | 4225 |      | 4030 |      | 3795 |      | 3282 |      |      |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 1.17                   | 18.3 | 1.22 | 17.8 | 1.26 | 17.5 | 1.30 | 17.2 | 1.38 | 16.9 | 1.45 | 16.5 | 1.52 | 15.2 |      |      |      |      |      |      |                       |      |   |    |   |   |     |     | 1303 |  |
| 4629                   |      | 4541 |      | 4453 |      | 4365 |      | 4180 |      | 3959 |      | 3459 |      | 2943 |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 1.27                   | 19.1 | 1.32 | 18.6 | 1.37 | 18.2 | 1.41 | 18.0 | 1.49 | 17.7 | 1.56 | 17.3 | 1.64 | 16.2 | 1.63 | 15.1 |      |      |      |      |                       |      |   |    |   |   |     |     | 1340 |  |
| 4766                   |      | 4680 |      | 4594 |      | 4509 |      | 4331 |      | 4124 |      | 3640 |      | 3164 |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 1.38                   | 20   | 1.43 | 19.5 | 1.48 | 19.1 | 1.52 | 18.8 | 1.60 | 18.5 | 1.68 | 18.1 | 1.78 | 17.1 | 1.79 | 15.9 |      |      |      |      |                       |      |   |    |   |   |     |     | 1378 |  |
| 4898                   |      | 4814 |      | 4731 |      | 4648 |      | 4477 |      | 4282 |      | 3814 |      | 3355 |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 1.49                   | 21   | 1.54 | 20   | 1.59 | 20   | 1.64 | 19.7 | 1.72 | 19.3 | 1.80 | 19.0 | 1.92 | 18.1 | 1.94 | 16.8 |      |      |      |      |                       |      |   |    |   |   |     |     | 1415 |  |
| 5031                   |      | 4949 |      | 4868 |      | 4787 |      | 4622 |      | 4437 |      | 3988 |      | 3536 |      |      |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 1.61                   | 22   | 1.66 | 21   | 1.71 | 21   | 1.76 | 21   | 1.85 | 20   | 1.93 | 19.8 | 2.06 | 19.1 | 2.10 | 17.7 |      |      |      |      |                       |      |   |    |   |   |     |     | 1452 |  |
| 5163                   |      | 5083 |      | 5004 |      | 4925 |      | 4765 |      | 4590 |      | 4160 |      | 3715 |      | 3227 |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 1.73                   | 23   | 1.79 | 22   | 1.84 | 22   | 1.89 | 22   | 1.98 | 21   | 2.06 | 21   | 2.21 | 20.0 | 2.26 | 18.7 | 2.22 | 18.1 |      |      |                       |      |   |    |   |   |     |     | 1489 |  |
| 5263                   |      | 5185 |      | 5107 |      | 5029 |      | 4873 |      | 4704 |      | 4289 |      | 3849 |      | 3406 |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 1.83                   | 23   | 1.88 | 23   | 1.94 | 23   | 1.99 | 22   | 2.08 | 22   | 2.17 | 21   | 2.32 | 20.7 | 2.39 | 19.5 | 2.38 | 18.6 |      |      |                       |      |   |    |   |   |     |     | 1517 |  |
| 5402                   |      | 5326 |      | 5250 |      | 5174 |      | 5023 |      | 4861 |      | 4468 |      | 4036 |      | 3619 |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 1.97                   | 24   | 2.03 | 24   | 2.08 | 24   | 2.14 | 23   | 2.23 | 23   | 2.32 | 22   | 2.49 | 22   | 2.57 | 20.7 | 2.58 | 19.5 |      |      |                       |      |   |    |   |   |     |     | 1556 |  |
| 5538                   |      | 5463 |      | 5389 |      | 5315 |      | 5168 |      | 5013 |      | 4639 |      | 4216 |      | 3810 |      |      |      |                       |      |   |    |   |   |     |     |      |  |
| 2.11                   | 25   | 2.17 | 25   | 2.23 | 24   | 2.29 | 24   | 2.39 | 24   | 2.48 | 23   | 2.65 | 23   | 2.75 | 22   | 2.78 | 21   |      |      |                       |      |   |    |   |   |     |     | 1594 |  |
| 5677                   |      | 5604 |      | 5532 |      | 5460 |      | 5316 |      | 5166 |      | 4813 |      | 4400 |      | 4000 |      | 3549 |      |                       |      |   |    |   |   |     |     |      |  |
| 2.27                   | 26   | 2.33 | 26   | 2.39 | 25   | 2.45 | 25   | 2.55 | 25   | 2.65 | 24   | 2.83 | 24   | 2.95 | 23   | 2.99 | 22   | 2.93 | 21   |                       |      |   |    |   |   |     |     | 1633 |  |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power ratings (BHP) do not include transmission losses. Bearing losses are included. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.

# SQBA20 Performance Data

| CFM at Static Pressure |      |      |      |      |      |      |      |      |      | RPM Range |      |      |      |      | RPM  |      |      |      |      |          |      |     |   |    |   |      |
|------------------------|------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|------|------|------|------|------|----------|------|-----|---|----|---|------|
| .125                   |      | .250 |      | .375 |      | .500 |      | .750 |      | 1.00      |      | 1.50 |      | 2.00 |      | 2.50 |      | 3.00 |      | Motor HP |      |     |   |    |   |      |
| BHP                    | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP       | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP      | Sone | 3/4 | 1 | 1½ | 2 | 3    |
| 4184                   |      | 4001 |      | 3822 |      | 3642 |      | 3225 |      |           |      |      |      |      |      |      |      |      |      |          |      |     |   |    |   | 878  |
| 0.64                   | 14.1 | 0.67 | 11.8 | 0.70 | 10.5 | 0.73 | 9.8  | 0.75 | 9.1  |           |      |      |      |      |      |      |      |      |      |          |      |     |   |    |   |      |
| 4349                   |      | 4172 |      | 4000 |      | 3827 |      | 3443 |      | 2861      |      |      |      |      |      |      |      |      |      |          |      |     |   |    |   | 910  |
| 0.71                   | 15.1 | 0.74 | 12.8 | 0.77 | 11.3 | 0.80 | 10.7 | 0.83 | 9.9  | 0.82      | 8.8  |      |      |      |      |      |      |      |      |          |      |     |   |    |   |      |
| 4577                   |      | 4407 |      | 4242 |      | 4078 |      | 3728 |      | 3275      |      |      |      |      |      |      |      |      |      |          |      |     |   |    |   | 954  |
| 0.82                   | 16.3 | 0.85 | 14.2 | 0.88 | 12.6 | 0.91 | 11.8 | 0.96 | 11.0 | 0.96      | 10.0 |      |      |      |      |      |      |      |      |          |      |     |   |    |   |      |
| 4768                   |      | 4603 |      | 4444 |      | 4286 |      | 3957 |      | 3561      |      |      |      |      |      |      |      |      |      |          |      |     |   |    |   | 991  |
| 0.91                   | 17.3 | 0.95 | 15.4 | 0.98 | 13.7 | 1.01 | 12.9 | 1.06 | 12.0 | 1.08      | 11.1 |      |      |      |      |      |      |      |      |          |      |     |   |    |   |      |
| 5035                   |      | 4878 |      | 4726 |      | 4576 |      | 4270 |      | 3924      |      |      |      |      |      |      |      |      |      |          |      |     |   |    |   | 1043 |
| 1.06                   | 18.8 | 1.10 | 17.2 | 1.13 | 15.4 | 1.17 | 14.4 | 1.23 | 13.4 | 1.26      | 12.7 |      |      |      |      |      |      |      |      |          |      |     |   |    |   |      |
| 5224                   |      | 5073 |      | 4925 |      | 4780 |      | 4487 |      | 4167      |      |      |      |      |      |      |      |      |      |          |      |     |   |    |   | 1080 |
| 1.18                   | 19.9 | 1.21 | 18.3 | 1.25 | 16.6 | 1.29 | 15.4 | 1.35 | 14.5 | 1.39      | 13.8 |      |      |      |      |      |      |      |      |          |      |     |   |    |   |      |
| 5414                   |      | 5267 |      | 5123 |      | 4982 |      | 4701 |      | 4401      |      | 3533 |      |      |      |      |      |      |      |          |      |     |   |    |   | 1117 |
| 1.30                   | 21   | 1.34 | 19.5 | 1.38 | 17.9 | 1.41 | 16.5 | 1.48 | 15.6 | 1.53      | 14.8 | 1.52 | 12.9 |      |      |      |      |      |      |          |      |     |   |    |   |      |
| 5603                   |      | 5460 |      | 5321 |      | 5184 |      | 4913 |      | 4629      |      | 3890 |      |      |      |      |      |      |      |          |      |     |   |    |   | 1154 |
| 1.43                   | 22   | 1.47 | 21   | 1.51 | 19.0 | 1.55 | 17.8 | 1.62 | 16.8 | 1.68      | 16.0 | 1.70 | 14.1 |      |      |      |      |      |      |          |      |     |   |    |   |      |
| 5791                   |      | 5653 |      | 5518 |      | 5385 |      | 5122 |      | 4851      |      | 4191 |      |      |      |      |      |      |      |          |      |     |   |    |   | 1191 |
| 1.57                   | 23   | 1.61 | 22   | 1.65 | 20   | 1.69 | 19.0 | 1.77 | 17.9 | 1.83      | 17.1 | 1.88 | 15.5 |      |      |      |      |      |      |          |      |     |   |    |   |      |
| 5985                   |      | 5851 |      | 5719 |      | 5590 |      | 5335 |      | 5076      |      | 4472 |      |      |      |      |      |      |      |          |      |     |   |    |   | 1229 |
| 1.72                   | 24   | 1.77 | 23   | 1.81 | 22   | 1.85 | 20   | 1.93 | 19.1 | 2.00      | 18.3 | 2.06 | 16.9 |      |      |      |      |      |      |          |      |     |   |    |   |      |
| 6173                   |      | 6043 |      | 5914 |      | 5788 |      | 5541 |      | 5291      |      | 4729 |      | 3763 |      |      |      |      |      |          |      |     |   |    |   | 1266 |
| 1.88                   | 25   | 1.92 | 24   | 1.97 | 23   | 2.01 | 22   | 2.09 | 20   | 2.17      | 19.4 | 2.25 | 18.1 | 2.15 | 16.2 |      |      |      |      |          |      |     |   |    |   |      |
| 6361                   |      | 6234 |      | 6109 |      | 5986 |      | 5745 |      | 5504      |      | 4975 |      | 4219 |      |      |      |      |      |          |      |     |   |    |   | 1303 |
| 2.05                   | 26   | 2.09 | 25   | 2.14 | 24   | 2.18 | 23   | 2.27 | 21   | 2.34      | 20   | 2.45 | 19.1 | 2.42 | 17.1 |      |      |      |      |          |      |     |   |    |   |      |
| 6549                   |      | 6425 |      | 6304 |      | 6184 |      | 5949 |      | 5715      |      | 5214 |      | 4556 |      |      |      |      |      |          |      |     |   |    |   | 1340 |
| 2.22                   | 28   | 2.27 | 27   | 2.32 | 25   | 2.36 | 24   | 2.45 | 22   | 2.53      | 21   | 2.65 | 20   | 2.66 | 18.2 |      |      |      |      |          |      |     |   |    |   |      |
| 6742                   |      | 6621 |      | 6503 |      | 6386 |      | 6157 |      | 5930      |      | 5452 |      | 4860 |      |      |      |      |      |          |      |     |   |    |   | 1378 |
| 2.41                   | 29   | 2.46 | 28   | 2.51 | 27   | 2.56 | 25   | 2.65 | 23   | 2.74      | 22   | 2.87 | 21   | 2.90 | 19.5 |      |      |      |      |          |      |     |   |    |   |      |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories)

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.

# SQBA24 Performance Data

| CFM at Static Pressure |      |       |      |       |      |       |      |       |      |       |      |      |      |      |      |      |      |      |      | RPM Range |     |   |    |   |   |      | RPM |
|------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|------|------|------|------|------|------|-----------|-----|---|----|---|---|------|-----|
| .125                   |      | .250  |      | .375  |      | .500  |      | .750  |      | 1.00  |      | 1.25 |      | 1.50 |      | 2.00 |      | 2.50 |      | Motor HP  |     |   |    |   |   |      |     |
| BHP                    | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | 1/2       | 3/4 | 1 | 1½ | 2 | 3 | 5    |     |
| 4389                   |      | 4038  |      | 3538  |      |       |      |       |      |       |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   | 567  |     |
| 0.34                   | 6.6  | 0.36  | 6.1  | 0.38  | 5.5  |       |      |       |      |       |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   |      |     |
| 4830                   |      | 4504  |      | 4146  |      | 3413  |      |       |      |       |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   | 616  |     |
| 0.43                   | 7.6  | 0.46  | 7.2  | 0.48  | 6.7  | 0.47  | 6.0  |       |      |       |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   |      |     |
| 5055                   |      | 4737  |      | 4413  |      | 3878  |      |       |      |       |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   | 641  |     |
| 0.49                   | 8.2  | 0.51  | 7.8  | 0.53  | 7.4  | 0.54  | 6.7  |       |      |       |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   |      |     |
| 5813                   |      | 5518  |      | 5248  |      | 4947  |      | 3292  |      |       |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   | 726  |     |
| 0.70                   | 10.5 | 0.72  | 10.1 | 0.75  | 9.7  | 0.78  | 9.2  | 0.73  | 8.0  |       |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   |      |     |
| 6256                   |      | 5972  |      | 5717  |      | 5458  |      | 4598  |      |       |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   | 776  |     |
| 0.85                   | 11.9 | 0.88  | 11.5 | 0.91  | 11.1 | 0.94  | 10.7 | 0.96  | 9.4  |       |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   |      |     |
| 6513                   |      | 6235  |      | 5986  |      | 5741  |      | 5049  |      | 2849  |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   | 805  |     |
| 0.95                   | 12.8 | 0.97  | 12.4 | 1.00  | 12.0 | 1.04  | 11.6 | 1.08  | 10.4 | 0.92  | 9.9  |      |      |      |      |      |      |      |      |           |     |   |    |   |   |      |     |
| 6997                   |      | 6731  |      | 6492  |      | 6265  |      | 5738  |      | 4553  |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   | 860  |     |
| 1.16                   | 14.6 | 1.18  | 14.2 | 1.21  | 13.8 | 1.24  | 13.4 | 1.31  | 12.4 | 1.27  | 11.1 |      |      |      |      |      |      |      |      |           |     |   |    |   |   |      |     |
| 7261                   |      | 7000  |      | 6766  |      | 6546  |      | 6068  |      | 5203  |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   | 890  |     |
| 1.28                   | 15.6 | 1.31  | 15.1 | 1.33  | 14.7 | 1.37  | 14.4 | 1.44  | 13.5 | 1.45  | 12.1 |      |      |      |      |      |      |      |      |           |     |   |    |   |   |      |     |
| 7533                   |      | 7278  |      | 7048  |      | 6834  |      | 6390  |      | 5707  |      |      |      |      |      |      |      |      |      |           |     |   |    |   |   | 921  |     |
| 1.42                   | 16.6 | 1.44  | 16.1 | 1.47  | 15.7 | 1.51  | 15.4 | 1.58  | 14.6 | 1.62  | 13.3 |      |      |      |      |      |      |      |      |           |     |   |    |   |   |      |     |
| 7805                   |      | 7555  |      | 7329  |      | 7120  |      | 6700  |      | 6132  |      | 4803 |      |      |      |      |      |      |      |           |     |   |    |   |   | 952  |     |
| 1.57                   | 17.6 | 1.59  | 17.1 | 1.62  | 16.7 | 1.65  | 16.3 | 1.73  | 15.5 | 1.78  | 14.4 | 1.70 | 13.2 |      |      |      |      |      |      |           |     |   |    |   |   |      |     |
| 8067                   |      | 7823  |      | 7601  |      | 7395  |      | 6993  |      | 6499  |      | 5567 |      |      |      |      |      |      |      |           |     |   |    |   |   | 982  |     |
| 1.72                   | 18.5 | 1.74  | 18.1 | 1.77  | 17.6 | 1.81  | 17.2 | 1.88  | 16.5 | 1.95  | 15.4 | 1.93 | 14.1 |      |      |      |      |      |      |           |     |   |    |   |   |      |     |
| 8338                   |      | 8099  |      | 7881  |      | 7679  |      | 7291  |      | 6848  |      | 6123 |      | 4200 |      |      |      |      |      |           |     |   |    |   |   | 1013 |     |
| 1.89                   | 19.5 | 1.91  | 19.0 | 1.94  | 18.6 | 1.97  | 18.2 | 2.05  | 17.5 | 2.13  | 16.6 | 2.14 | 15.2 | 1.93 | 14.5 |      |      |      |      |           |     |   |    |   |   |      |     |
| 8661                   |      | 8428  |      | 8214  |      | 8016  |      | 7642  |      | 7240  |      | 6667 |      | 5484 |      |      |      |      |      |           |     |   |    |   |   | 1050 |     |
| 2.10                   | 21   | 2.12  | 20   | 2.15  | 19.7 | 2.18  | 19.3 | 2.27  | 18.6 | 2.35  | 17.9 | 2.39 | 16.7 | 2.31 | 15.4 |      |      |      |      |           |     |   |    |   |   |      |     |
| 8896                   |      | 8667  |      | 8457  |      | 8261  |      | 7895  |      | 7515  |      | 7015 |      | 6124 |      |      |      |      |      |           |     |   |    |   |   | 1077 |     |
| 2.27                   | 22   | 2.29  | 21   | 2.32  | 21   | 2.35  | 20   | 2.43  | 19.5 | 2.52  | 18.8 | 2.58 | 17.7 | 2.55 | 16.3 |      |      |      |      |           |     |   |    |   |   |      |     |
| 9131                   |      | 8906  |      | 8699  |      | 8506  |      | 8147  |      | 7783  |      | 7337 |      | 6614 |      |      |      |      |      |           |     |   |    |   |   | 1104 |     |
| 2.44                   | 23   | 2.46  | 22   | 2.49  | 22   | 2.52  | 21   | 2.61  | 20   | 2.69  | 19.7 | 2.77 | 18.8 | 2.77 | 17.4 |      |      |      |      |           |     |   |    |   |   |      |     |
| 9365                   |      | 9145  |      | 8941  |      | 8750  |      | 8397  |      | 8047  |      | 7639 |      | 7034 |      |      |      |      |      |           |     |   |    |   |   | 1131 |     |
| 2.63                   | 23   | 2.64  | 23   | 2.67  | 22   | 2.71  | 22   | 2.79  | 21   | 2.88  | 21   | 2.96 | 19.8 | 2.99 | 18.6 |      |      |      |      |           |     |   |    |   |   |      |     |
| 9600                   |      | 9383  |      | 9182  |      | 8994  |      | 8646  |      | 8307  |      | 7929 |      | 7407 |      |      |      |      |      |           |     |   |    |   |   | 1158 |     |
| 2.82                   | 24   | 2.84  | 24   | 2.86  | 23   | 2.90  | 23   | 2.98  | 22   | 3.07  | 22   | 3.16 | 21   | 3.21 | 19.7 |      |      |      |      |           |     |   |    |   |   |      |     |
| 9895                   |      | 9683  |      | 9486  |      | 9301  |      | 8959  |      | 8631  |      | 8280 |      | 7833 |      | 5626 |      |      |      |           |     |   |    |   |   | 1192 |     |
| 3.07                   | 26   | 3.09  | 25   | 3.12  | 24   | 3.15  | 24   | 3.23  | 23   | 3.33  | 23   | 3.42 | 22   | 3.49 | 21   | 3.27 | 19.0 |      |      |           |     |   |    |   |   |      |     |
| 10112                  |      | 9903  |      | 9708  |      | 9526  |      | 9188  |      | 8867  |      | 8530 |      | 8124 |      | 6460 |      |      |      |           |     |   |    |   |   | 1217 |     |
| 3.27                   | 26   | 3.29  | 26   | 3.31  | 25   | 3.35  | 25   | 3.43  | 24   | 3.53  | 23   | 3.62 | 23   | 3.70 | 22   | 3.61 | 19.8 |      |      |           |     |   |    |   |   |      |     |
| 10337                  |      | 10131 |      | 9940  |      | 9760  |      | 9426  |      | 9111  |      | 8787 |      | 8413 |      | 7059 |      |      |      |           |     |   |    |   |   | 1243 |     |
| 3.48                   | 27   | 3.50  | 27   | 3.53  | 26   | 3.56  | 26   | 3.64  | 25   | 3.74  | 24   | 3.84 | 24   | 3.93 | 23   | 3.92 | 21   |      |      |           |     |   |    |   |   |      |     |
| 10553                  |      | 10351 |      | 10162 |      | 9984  |      | 9654  |      | 9344  |      | 9030 |      | 8680 |      | 7523 |      |      |      |           |     |   |    |   |   | 1268 |     |
| 3.70                   | 28   | 3.71  | 28   | 3.74  | 27   | 3.77  | 27   | 3.85  | 26   | 3.95  | 25   | 4.06 | 25   | 4.15 | 24   | 4.20 | 22   |      |      |           |     |   |    |   |   |      |     |
| 10770                  |      | 10571 |      | 10384 |      | 10208 |      | 9881  |      | 9576  |      | 9271 |      | 8939 |      | 7928 |      |      |      |           |     |   |    |   |   | 1293 |     |
| 3.92                   | 29   | 3.94  | 29   | 3.96  | 28   | 3.99  | 28   | 4.08  | 27   | 4.17  | 26   | 4.28 | 26   | 4.38 | 25   | 4.47 | 23   |      |      |           |     |   |    |   |   |      |     |
| 10994                  |      | 10798 |      | 10614 |      | 10440 |      | 10117 |      | 9817  |      | 9519 |      | 9203 |      | 8307 |      | 5775 |      |           |     |   |    |   |   | 1319 |     |
| 4.16                   | 30   | 4.18  | 30   | 4.20  | 29   | 4.23  | 29   | 4.32  | 28   | 4.41  | 27   | 4.52 | 27   | 4.62 | 26   | 4.75 | 24   | 4.33 | 23   |           |     |   |    |   |   |      |     |
| 11210                  |      | 11017 |      | 10836 |      | 10664 |      | 10344 |      | 10047 |      | 9756 |      | 9452 |      | 8643 |      | 6713 |      |           |     |   |    |   |   | 1344 |     |
| 4.40                   | 31   | 4.42  | 31   | 4.44  | 30   | 4.47  | 30   | 4.56  | 29   | 4.65  | 28   | 4.76 | 28   | 4.87 | 27   | 5.02 | 25   | 4.77 | 24   |           |     |   |    |   |   |      |     |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.

# SQBA30 Performance Data

| CFM at Static Pressure |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      | RPM Range<br>Motor HP |      |     |   |       |   |   | RPM |   |       |      |  |
|------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-----------------------|------|-----|---|-------|---|---|-----|---|-------|------|--|
| .125                   |      | .250  |      | .375  |      | .500  |      | .750  |      | 1.00  |      | 1.25  |      | 1.50  |      | 2.00  |      | 2.50                  |      | 3/4 | 1 | 1 1/2 | 2 | 3 |     | 5 | 7 1/2 |      |  |
| BHP                    | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP                   | Sone |     |   |       |   |   |     |   |       |      |  |
| 5949                   |      | 5416  |      | 4187  |      |       |      |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 0.37                   | 5.7  | 0.41  | 5.3  | 0.41  | 4.5  |       |      |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 422  |  |
| 6258                   |      | 5766  |      | 4959  |      |       |      |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 0.42                   | 6.2  | 0.46  | 5.9  | 0.49  | 5.0  |       |      |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 441  |  |
| 6564                   |      | 6106  |      | 5470  |      |       |      |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 0.47                   | 6.7  | 0.52  | 6.4  | 0.55  | 5.6  |       |      |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 460  |  |
| 7173                   |      | 6766  |      | 6273  |      | 5326  |      |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 0.59                   | 7.9  | 0.64  | 7.6  | 0.69  | 7.0  | 0.69  | 6.3  |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 498  |  |
| 7649                   |      | 7275  |      | 6841  |      | 6241  |      |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 0.70                   | 8.9  | 0.75  | 8.6  | 0.80  | 8.1  | 0.84  | 7.3  |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 528  |  |
| 7964                   |      | 7609  |      | 7204  |      | 6693  |      |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 0.78                   | 9.6  | 0.83  | 9.3  | 0.88  | 8.9  | 0.93  | 8.0  |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 548  |  |
| 8295                   |      | 7957  |      | 7578  |      | 7124  |      |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 0.87                   | 10.4 | 0.92  | 10.0 | 0.98  | 9.7  | 1.03  | 9.0  |       |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 569  |  |
| 8984                   |      | 8677  |      | 8340  |      | 7960  |      | 6644  |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 1.08                   | 12.3 | 1.14  | 11.8 | 1.19  | 11.5 | 1.25  | 11.0 | 1.29  | 9.2  |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 613  |  |
| 9311                   |      | 9017  |      | 8696  |      | 8341  |      | 7316  |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 1.19                   | 13.2 | 1.25  | 12.7 | 1.31  | 12.3 | 1.37  | 12.0 | 1.45  | 10.1 |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 634  |  |
| 9701                   |      | 9420  |      | 9116  |      | 8785  |      | 7931  |      |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 1.33                   | 14.2 | 1.39  | 13.8 | 1.45  | 13.4 | 1.52  | 13.1 | 1.62  | 11.3 |       |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 659  |  |
| 10011                  |      | 9740  |      | 9450  |      | 9134  |      | 8362  |      | 6174  |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 1.45                   | 15.1 | 1.52  | 14.6 | 1.58  | 14.3 | 1.64  | 14.0 | 1.76  | 12.4 | 1.67  | 10.9 |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 679  |  |
| 10337                  |      | 10075 |      | 9796  |      | 9496  |      | 8787  |      | 7353  |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 1.59                   | 16.0 | 1.65  | 15.5 | 1.72  | 15.2 | 1.78  | 14.9 | 1.91  | 13.6 | 1.90  | 11.8 |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 700  |  |
| 10631                  |      | 10378 |      | 10109 |      | 9820  |      | 9155  |      | 8061  |      |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 1.72                   | 16.8 | 1.78  | 16.3 | 1.85  | 15.9 | 1.92  | 15.6 | 2.05  | 14.6 | 2.10  | 12.7 |       |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 719  |  |
| 11233                  |      | 10995 |      | 10744 |      | 10477 |      | 9881  |      | 9091  |      | 6794  |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 2.00                   | 18.4 | 2.07  | 17.9 | 2.14  | 17.5 | 2.21  | 17.2 | 2.36  | 16.5 | 2.47  | 14.8 | 2.31  | 13.6 |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 758  |  |
| 11542                  |      | 11311 |      | 11068 |      | 10811 |      | 10243 |      | 9530  |      | 8015  |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 2.16                   | 19.2 | 2.23  | 18.7 | 2.31  | 18.3 | 2.38  | 18.0 | 2.52  | 17.4 | 2.65  | 15.9 | 2.60  | 14.5 |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 778  |  |
| 11896                  |      | 11673 |      | 11438 |      | 11192 |      | 10652 |      | 10002 |      | 8919  |      |       |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 2.36                   | 20   | 2.43  | 19.8 | 2.50  | 19.3 | 2.58  | 18.9 | 2.73  | 18.3 | 2.87  | 17.1 | 2.90  | 15.6 |       |      |       |      |                       |      |     |   |       |   |   |     |   |       | 801  |  |
| 12466                  |      | 12253 |      | 12031 |      | 11799 |      | 11298 |      | 10720 |      | 9943  |      | 8030  |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 2.69                   | 22   | 2.77  | 22   | 2.84  | 21   | 2.92  | 21   | 3.08  | 20   | 3.23  | 19.0 | 3.34  | 17.5 | 3.18  | 16.5 |       |      |                       |      |     |   |       |   |   |     |   |       | 838  |  |
| 13034                  |      | 12831 |      | 12621 |      | 12402 |      | 11932 |      | 11405 |      | 10763 |      | 9687  |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 3.06                   | 24   | 3.14  | 23   | 3.22  | 23   | 3.30  | 22   | 3.46  | 22   | 3.62  | 21   | 3.77  | 19.5 | 3.78  | 18.2 |       |      |                       |      |     |   |       |   |   |     |   |       | 875  |  |
| 13601                  |      | 13408 |      | 13208 |      | 13000 |      | 12558 |      | 12071 |      | 11507 |      | 10746 |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 3.46                   | 26   | 3.54  | 25   | 3.62  | 24   | 3.70  | 24   | 3.87  | 23   | 4.05  | 23   | 4.21  | 22   | 4.31  | 20   |       |      |                       |      |     |   |       |   |   |     |   |       | 912  |  |
| 13893                  |      | 13704 |      | 13508 |      | 13306 |      | 12876 |      | 12407 |      | 11872 |      | 11194 |      |       |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 3.67                   | 27   | 3.76  | 26   | 3.84  | 25   | 3.93  | 25   | 4.10  | 24   | 4.27  | 24   | 4.44  | 23   | 4.58  | 21   |       |      |                       |      |     |   |       |   |   |     |   |       | 931  |  |
| 14321                  |      | 14139 |      | 13950 |      | 13755 |      | 13343 |      | 12896 |      | 12398 |      | 11800 |      | 8614  |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 4.01                   | 28   | 4.09  | 27   | 4.18  | 27   | 4.27  | 26   | 4.45  | 26   | 4.63  | 25   | 4.81  | 24   | 4.96  | 23   | 4.68  | 21   |                       |      |     |   |       |   |   |     |   |       | 959  |  |
| 14582                  |      | 14402 |      | 14217 |      | 14026 |      | 13624 |      | 13190 |      | 12710 |      | 12148 |      | 9744  |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 4.22                   | 29   | 4.31  | 28   | 4.40  | 28   | 4.49  | 27   | 4.67  | 26   | 4.85  | 26   | 5.03  | 25   | 5.20  | 24   | 5.08  | 22   |                       |      |     |   |       |   |   |     |   |       | 976  |  |
| 15102                  |      | 14929 |      | 14751 |      | 14568 |      | 14184 |      | 13772 |      | 13324 |      | 12817 |      | 11173 |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 4.67                   | 31   | 4.76  | 30   | 4.86  | 29   | 4.95  | 29   | 5.13  | 28   | 5.32  | 28   | 5.51  | 27   | 5.70  | 26   | 5.81  | 23   |                       |      |     |   |       |   |   |     |   |       | 1010 |  |
| 15606                  |      | 15439 |      | 15268 |      | 15092 |      | 14723 |      | 14331 |      | 13908 |      | 13441 |      | 12152 |      |                       |      |     |   |       |   |   |     |   |       |      |  |
| 5.14                   | 33   | 5.23  | 32   | 5.33  | 31   | 5.42  | 31   | 5.61  | 30   | 5.81  | 29   | 6.01  | 29   | 6.20  | 28   | 6.45  | 25   |                       |      |     |   |       |   |   |     |   |       | 1043 |  |
| 16125                  |      | 15964 |      | 15799 |      | 15629 |      | 15276 |      | 14901 |      | 14501 |      | 14066 |      | 12970 |      | 10040                 |      |     |   |       |   |   |     |   |       |      |  |
| 5.65                   | 35   | 5.75  | 34   | 5.85  | 33   | 5.94  | 33   | 6.14  | 32   | 6.34  | 31   | 6.55  | 31   | 6.75  | 30   | 7.08  | 27   | 6.70                  | 26   |     |   |       |   |   |     |   |       | 1077 |  |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories)

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.

# SQBA36 Performance Data

| CFM at Static Pressure |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      | RPM Range |      |          |   |    |   |   |   | RPM |     |
|------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-----------|------|----------|---|----|---|---|---|-----|-----|
| .125                   |      | .250  |      | .375  |      | .500  |      | .750  |      | 1.00  |      | 1.25  |      | 1.50  |      | 2.00  |      | 2.50      |      | Motor HP |   |    |   |   |   |     |     |
| BHP                    | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP       | Sone | 3/4      | 1 | 1½ | 2 | 3 | 5 | 7½  | 10  |
| 8143                   |      | 7044  |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 331 |
| 0.52                   | 5.8  | 0.55  | 4.9  |       |      |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 9010                   |      | 8020  |      | 6686  |      |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 359 |
| 0.65                   | 6.9  | 0.69  | 6.1  | 0.72  | 5.7  |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 9595                   |      | 8652  |      | 7571  |      |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 378 |
| 0.76                   | 7.7  | 0.80  | 7.0  | 0.83  | 6.3  |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 10085                  |      | 9173  |      | 8206  |      | 5827  |      |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 394 |
| 0.85                   | 8.3  | 0.90  | 7.7  | 0.93  | 7.0  | 0.88  | 7.0  |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 10788                  |      | 9910  |      | 9043  |      | 7850  |      |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 417 |
| 1.00                   | 9.3  | 1.06  | 8.9  | 1.09  | 8.0  | 1.12  | 7.7  |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 11277                  |      | 10417 |      | 9596  |      | 8594  |      |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 433 |
| 1.12                   | 10.0 | 1.18  | 9.6  | 1.22  | 8.8  | 1.25  | 8.3  |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 11795                  |      | 10951 |      | 10168 |      | 9285  |      |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 450 |
| 1.25                   | 10.9 | 1.31  | 10.5 | 1.36  | 9.7  | 1.39  | 9.1  |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 12738                  |      | 11916 |      | 11185 |      | 10423 |      |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 481 |
| 1.52                   | 12.3 | 1.58  | 12.2 | 1.64  | 11.5 | 1.68  | 10.6 |       |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 13195                  |      | 12381 |      | 11668 |      | 10944 |      | 8738  |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 496 |
| 1.67                   | 13.2 | 1.73  | 13.0 | 1.79  | 12.3 | 1.83  | 11.6 | 1.89  | 10.9 |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 14077                  |      | 13274 |      | 12590 |      | 11920 |      | 10293 |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 525 |
| 1.98                   | 14.6 | 2.03  | 14.6 | 2.11  | 14.1 | 2.16  | 13.3 | 2.23  | 12.3 |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 14532                  |      | 13736 |      | 13063 |      | 12414 |      | 10931 |      |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 540 |
| 2.15                   | 15.4 | 2.20  | 15.4 | 2.28  | 14.9 | 2.34  | 14.2 | 2.41  | 13.1 |       |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 15413                  |      | 14624 |      | 13970 |      | 13353 |      | 12045 |      | 9800  |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 569 |
| 2.51                   | 16.7 | 2.56  | 16.8 | 2.64  | 16.5 | 2.71  | 15.9 | 2.79  | 14.6 | 2.83  | 14.4 |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 16565                  |      | 15785 |      | 15149 |      | 14563 |      | 13387 |      | 11921 |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 607 |
| 3.05                   | 18.5 | 3.08  | 18.6 | 3.17  | 18.4 | 3.25  | 18.0 | 3.36  | 16.7 | 3.44  | 16.1 |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 16991                  |      | 16212 |      | 15581 |      | 15004 |      | 13864 |      | 12517 |      |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 621 |
| 3.27                   | 19.2 | 3.30  | 19.3 | 3.38  | 19.2 | 3.47  | 18.7 | 3.58  | 17.6 | 3.66  | 16.7 |       |      |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 17840                  |      | 17065 |      | 16442 |      | 15880 |      | 14798 |      | 13610 |      | 11844 |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 649 |
| 3.74                   | 21   | 3.75  | 21   | 3.83  | 21   | 3.93  | 20   | 4.07  | 19.2 | 4.14  | 18.2 | 4.24  | 18.0 |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 18687                  |      | 17916 |      | 17302 |      | 16752 |      | 15713 |      | 14626 |      | 13254 |      |       |      |       |      |           |      |          |   |    |   |   |   |     | 677 |
| 4.25                   | 22   | 4.25  | 22   | 4.32  | 22   | 4.42  | 22   | 4.59  | 21   | 4.68  | 19.9 | 4.77  | 19.4 |       |      |       |      |           |      |          |   |    |   |   |   |     |     |
| 19143                  |      | 18373 |      | 17761 |      | 17217 |      | 16197 |      | 15151 |      | 13900 |      | 11540 |      |       |      |           |      |          |   |    |   |   |   |     | 692 |
| 4.54                   | 23   | 4.53  | 23   | 4.61  | 23   | 4.70  | 23   | 4.88  | 22   | 4.98  | 21   | 5.07  | 20   | 5.04  | 20   |       |      |           |      |          |   |    |   |   |   |     |     |
| 19930                  |      | 19163 |      | 18556 |      | 18020 |      | 17029 |      | 16040 |      | 14931 |      | 13372 |      |       |      |           |      |          |   |    |   |   |   |     | 718 |
| 5.08                   | 24   | 5.06  | 24   | 5.12  | 25   | 5.22  | 24   | 5.42  | 23   | 5.54  | 22   | 5.62  | 22   | 5.74  | 21   |       |      |           |      |          |   |    |   |   |   |     |     |
| 20323                  |      | 19558 |      | 18953 |      | 18421 |      | 17442 |      | 16476 |      | 15418 |      | 14029 |      |       |      |           |      |          |   |    |   |   |   |     | 731 |
| 5.36                   | 25   | 5.33  | 25   | 5.40  | 25   | 5.50  | 25   | 5.70  | 24   | 5.83  | 23   | 5.91  | 22   | 6.03  | 22   |       |      |           |      |          |   |    |   |   |   |     |     |
| 21109                  |      | 20349 |      | 19747 |      | 19220 |      | 18263 |      | 17337 |      | 16356 |      | 15183 |      |       |      |           |      |          |   |    |   |   |   |     | 757 |
| 5.96                   | 26   | 5.92  | 27   | 5.97  | 27   | 6.07  | 27   | 6.29  | 26   | 6.44  | 25   | 6.54  | 24   | 6.64  | 24   |       |      |           |      |          |   |    |   |   |   |     |     |
| 21927                  |      | 21168 |      | 20569 |      | 20048 |      | 19110 |      | 18217 |      | 17295 |      | 16259 |      |       |      |           |      |          |   |    |   |   |   |     | 784 |
| 6.64                   | 28   | 6.57  | 28   | 6.62  | 28   | 6.71  | 28   | 6.94  | 28   | 7.12  | 27   | 7.23  | 26   | 7.32  | 25   |       |      |           |      |          |   |    |   |   |   |     |     |
| 22743                  |      | 21989 |      | 21391 |      | 20875 |      | 19953 |      | 19086 |      | 18211 |      | 17263 |      | 14345 |      |           |      |          |   |    |   |   |   |     | 811 |
| 7.36                   | 30   | 7.28  | 30   | 7.31  | 30   | 7.40  | 30   | 7.63  | 30   | 7.84  | 28   | 7.97  | 28   | 8.06  | 27   | 8.25  | 26   |           |      |          |   |    |   |   |   |     |     |
| 23225                  |      | 22475 |      | 21877 |      | 21363 |      | 20450 |      | 19598 |      | 18744 |      | 17837 |      | 15328 |      |           |      |          |   |    |   |   |   |     | 827 |
| 7.81                   | 31   | 7.72  | 31   | 7.74  | 31   | 7.83  | 31   | 8.06  | 31   | 8.28  | 30   | 8.43  | 29   | 8.53  | 28   | 8.77  | 27   |           |      |          |   |    |   |   |   |     |     |
| 23707                  |      | 22960 |      | 22365 |      | 21852 |      | 20946 |      | 20106 |      | 19273 |      | 18399 |      | 16149 |      |           |      |          |   |    |   |   |   |     | 843 |
| 8.28                   | 32   | 8.18  | 32   | 8.20  | 32   | 8.28  | 32   | 8.51  | 32   | 8.74  | 31   | 8.90  | 30   | 9.01  | 29   | 9.25  | 28   |           |      |          |   |    |   |   |   |     |     |
| 24191                  |      | 23444 |      | 22852 |      | 22341 |      | 21441 |      | 20613 |      | 19797 |      | 18952 |      | 16884 |      |           |      |          |   |    |   |   |   |     | 859 |
| 8.77                   | 33   | 8.65  | 33   | 8.66  | 34   | 8.74  | 34   | 8.98  | 33   | 9.22  | 32   | 9.39  | 31   | 9.51  | 30   | 9.75  | 29   |           |      |          |   |    |   |   |   |     |     |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power ratings (BHP) do not include transmission losses. Bearing losses are included. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.

# SQBA44 Performance Data

| CFM at Static Pressure |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      | RPM Range |      |          |    |   |   |   | RPM |     |     |  |
|------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-----------|------|----------|----|---|---|---|-----|-----|-----|--|
| .125                   |      | .250  |      | .375  |      | .500  |      | .625  |      | .750  |      | 1.00  |      | 1.25  |      | 1.50  |      | 2.00      |      | Motor HP |    |   |   |   |     |     |     |  |
| BHP                    | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP       | Sone | 1        | 1½ | 2 | 3 | 5 |     | 7½  | 10  |  |
| 10597                  |      | 8532  |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 245 |  |
| 0.58                   | 4.8  | 0.61  | 4.2  |       |      |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 265 |  |
| 11737                  |      | 10036 |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 288 |  |
| 0.72                   | 5.7  | 0.76  | 4.9  |       |      |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 302 |  |
| 13031                  |      | 11523 |      | 9227  |      |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 330 |  |
| 0.91                   | 6.9  | 0.97  | 5.9  | 0.99  | 5.7  |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 348 |  |
| 13813                  |      | 12378 |      | 10614 |      |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 365 |  |
| 1.04                   | 7.6  | 1.11  | 6.7  | 1.14  | 6.2  |       |      |       |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 379 |  |
| 15370                  |      | 14034 |      | 12659 |      | 10299 |      |       |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 398 |  |
| 1.34                   | 9.1  | 1.42  | 8.4  | 1.46  | 7.5  | 1.49  | 7.4  |       |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 416 |  |
| 16366                  |      | 15074 |      | 13818 |      | 12195 |      |       |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 444 |  |
| 1.57                   | 10.0 | 1.65  | 9.5  | 1.71  | 8.5  | 1.75  | 8.1  |       |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 472 |  |
| 17305                  |      | 16044 |      | 14866 |      | 13510 |      | 10780 |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 494 |  |
| 1.80                   | 11.1 | 1.89  | 10.6 | 1.96  | 9.7  | 2.00  | 9.0  | 1.98  | 9.0  |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 515 |  |
| 18079                  |      | 16837 |      | 15707 |      | 14480 |      | 12716 |      |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 537 |  |
| 2.01                   | 11.9 | 2.10  | 11.7 | 2.18  | 10.7 | 2.22  | 9.8  | 2.27  | 9.6  |       |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 566 |  |
| 19126                  |      | 17907 |      | 16828 |      | 15713 |      | 14354 |      | 11332 |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 580 |  |
| 2.32                   | 13.1 | 2.41  | 12.9 | 2.51  | 12.1 | 2.55  | 11.2 | 2.60  | 10.7 | 2.52  | 10.8 |       |      |       |      |       |      |           |      |          |    |   |   |   |     | 603 |     |  |
| 20118                  |      | 18915 |      | 17874 |      | 16832 |      | 15663 |      | 14014 |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     | 623 |  |
| 2.65                   | 14.2 | 2.74  | 14.2 | 2.84  | 13.5 | 2.90  | 12.5 | 2.94  | 11.9 | 3.00  | 11.7 |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 21660                  |      | 20476 |      | 19477 |      | 18515 |      | 17506 |      | 16327 |      |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 3.22                   | 16.0 | 3.29  | 16.1 | 3.41  | 15.6 | 3.50  | 14.8 | 3.55  | 14.0 | 3.60  | 13.5 |       |      |       |      |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 23201                  |      | 22031 |      | 21063 |      | 20155 |      | 19239 |      | 18252 |      | 15279 |      |       |      |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 3.86                   | 17.8 | 3.93  | 17.9 | 4.05  | 17.6 | 4.16  | 17.0 | 4.23  | 16.2 | 4.28  | 15.5 | 4.39  | 15.2 |       |      |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 24410                  |      | 23248 |      | 22300 |      | 21424 |      | 20558 |      | 19658 |      | 17404 |      |       |      |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 4.43                   | 19.3 | 4.48  | 19.4 | 4.61  | 19.2 | 4.73  | 18.7 | 4.82  | 17.9 | 4.88  | 17.2 | 5.00  | 16.5 |       |      |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 25565                  |      | 24408 |      | 23474 |      | 22622 |      | 21794 |      | 20951 |      | 19020 |      |       |      |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 5.03                   | 21   | 5.06  | 21   | 5.18  | 21   | 5.32  | 20   | 5.43  | 19.7 | 5.50  | 18.9 | 5.61  | 17.9 |       |      |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 26773                  |      | 25623 |      | 24701 |      | 23869 |      | 23072 |      | 22274 |      | 20546 |      | 18086 |      |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 5.70                   | 22   | 5.72  | 23   | 5.84  | 23   | 5.98  | 22   | 6.11  | 22   | 6.20  | 21   | 6.31  | 19.7 | 6.46  | 19.3 |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 28366                  |      | 27222 |      | 26311 |      | 25501 |      | 24735 |      | 23982 |      | 22420 |      | 20541 |      |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 6.69                   | 24   | 6.68  | 25   | 6.79  | 25   | 6.94  | 24   | 7.08  | 24   | 7.20  | 23   | 7.34  | 22   | 7.48  | 21   |       |      |           |      |          |    |   |   |   |     |     |     |  |
| 29135                  |      | 27994 |      | 27088 |      | 26285 |      | 25532 |      | 24796 |      | 23293 |      | 21568 |      | 18941 |      |           |      |          |    |   |   |   |     |     |     |  |
| 7.21                   | 25   | 7.18  | 26   | 7.29  | 26   | 7.43  | 25   | 7.58  | 25   | 7.71  | 24   | 7.88  | 23   | 8.00  | 22   | 8.14  | 22   |           |      |          |    |   |   |   |     |     |     |  |
| 30394                  |      | 29260 |      | 28361 |      | 27571 |      | 26834 |      | 26122 |      | 24696 |      | 23145 |      | 21144 |      |           |      |          |    |   |   |   |     |     |     |  |
| 8.11                   | 27   | 8.06  | 27   | 8.15  | 27   | 8.30  | 27   | 8.46  | 27   | 8.61  | 26   | 8.81  | 25   | 8.93  | 24   | 9.11  | 23   |           |      |          |    |   |   |   |     |     |     |  |
| 31491                  |      | 30362 |      | 29467 |      | 28685 |      | 27960 |      | 27266 |      | 25893 |      | 24446 |      | 22724 |      |           |      |          |    |   |   |   |     |     |     |  |
| 8.96                   | 28   | 8.89  | 29   | 8.97  | 29   | 9.11  | 29   | 9.28  | 28   | 9.43  | 28   | 9.67  | 27   | 9.81  | 26   | 9.96  | 25   |           |      |          |    |   |   |   |     |     |     |  |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power ratings (BHP) do not include transmission losses. Bearing losses are included. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.



# SQDA

## Direct Drive Square In-Line Fans

### Applications

The SQDA units are quiet, dependable in-line centrifugal fans recommended for a wide range of general exhaust applications where low to medium ranges of air volume and pressure are specified, in both ducted and non-ducted ventilation systems. Applications include virtually all types of light manufacturing, commercial and institutional buildings such as shopping centers, hospitals, schools, hotels, office and apartment buildings, warehouses, airports, bus terminals and many others.

Designed for easy positioning and quick installation, the versatile Square In-Line can be located inside equipment rooms, in ceiling spaces or as parts of O.E.M. equipment.

The advantages of a SQDA direct-drive over a belt-drive in-line unit include lower maintenance requirements, reduced risks of lower performance levels as a result of loosened belts, and lower operating costs.

### Construction

SQDA models feature a housing of durable mill galvanized outer "skin" over a rigid frame which is designed to provide an attractive finish, yet be a rigid unit to resist severe installation and handling conditions commonly encountered. Three of the four sides of the unit are removable, providing access to the internal parts for inspection and maintenance without disturbing the framework.

The overlapping deep-spun venturi minimizes air turbulence and increases efficiency. The aluminum centrifugal wheel is a non-overloading, backward-inclined type, selected for low noise levels. Backplate fins draw cool air through the motor compartment. The wheels are computer balanced on state-of-the-art equipment.

The SQDA wheel is secured to a machined aluminum hub with a line bore, which eliminates the need for bushings.

### Drive Mechanism

SQDA models have all the advantages of a direct-drive assembly. There are no belts, bearings or pulleys to consume power or require maintenance.

### Motors

The standard motor for most SQDA models is open construction, located out of the airstream. Totally enclosed, energy efficient, two-speed and explosion-proof motors may also be available. Motor enclosure may affect UL Listing. All motor brands are recognized and serviced nationwide.



Type SQDA ventilators are Listed by Underwriters Laboratory Inc. to US and Canadian safety standards.



American Coolair Corporation, ILG Industries certifies that the Type SQDA PRVs 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.

### Guide Specifications

Duct mounted square in-line fans shall be of the SQDA centrifugal type as manufactured by ILG Industries of American Coolair Corporation (individual models to be listed in fan schedule). Units shall bear the AMCA Certified Ratings Seal for air and sound performance. Housing and rigid frame of the fans to be galvanized steel, with wheel and venturi overlapping for efficient operation. Three sides of the unit are to be removable for access to the inside fan components and drive.

Drive construction shall be of the direct-drive design. The line bore hub shall be mounted onto the backplate of the centrifugal wheel. The centrifugal wheel shall be heavy gauge aluminum with backward -inclined, non-overloading blades and be computer balanced.

Motor shall be open construction, NEMA design B. The unit shall be equipped with a safety disconnect device. Optional variable speed control on most models allows for field adjustment and system balance.

(Backdraft damper, epoxy coating and other accessories shall be listed in the fan schedule.)

# SQDA06 - SQDA12 Performance Data

| SQDA06                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Motor HP | Speed Controllable | RPM |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--------------------|-----|
| CFM at Static Pressure |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |                    |     |
| 0.00                   |      | .125 |      | .250 |      | .375 |      | .500 |      | .625 |      | .750 |      | 1.00 |      | 1.25     |                    |     |
| BHP                    | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP      | Sone               |     |
| 298                    |      | 242  |      | 175  |      |      |      |      |      |      |      |      |      |      |      |          |                    |     |
| 0.02                   | 4.2  | 0.02 | 3.6  | 0.02 | 3.1  |      |      |      |      |      |      |      |      |      |      |          |                    |     |
| 434                    |      | 406  |      | 358  |      | 313  |      | 268  |      |      |      |      |      |      |      |          |                    |     |
| 0.06                   | 8.5  | 0.06 | 8.2  | 0.07 | 7.9  | 0.07 | 7.4  | 0.07 | 7.1  |      |      |      |      |      |      |          |                    |     |
| 447                    |      | 421  |      | 375  |      | 331  |      | 289  |      |      |      |      |      |      |      |          |                    |     |
| 0.07                   | 9.0  | 0.07 | 8.7  | 0.07 | 8.4  | 0.07 | 7.9  | 0.07 | 7.6  |      |      |      |      |      |      |          |                    |     |
| 474                    |      | 450  |      | 409  |      | 365  |      | 327  |      | 282  |      |      |      |      |      |          |                    |     |
| 0.08                   | 9.9  | 0.08 | 9.6  | 0.09 | 9.4  | 0.09 | 9.0  | 0.09 | 8.6  | 0.09 | 8.4  |      |      |      |      |          |                    |     |

| SQDA08                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Motor HP | Speed Controllable | RPM |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--------------------|-----|
| CFM at Static Pressure |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |                    |     |
| 0.00                   |      | .125 |      | .250 |      | .375 |      | .500 |      | .625 |      | .750 |      | 1.00 |      | 1.25     |                    |     |
| BHP                    | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP      | Sone               |     |
| 412                    |      | 365  |      | 303  |      |      |      |      |      |      |      |      |      |      |      |          |                    |     |
| 0.02                   | 4.3  | 0.02 | 4.0  | 0.03 | 3.8  |      |      |      |      |      |      |      |      |      |      |          |                    |     |
| 580                    |      | 548  |      | 514  |      | 479  |      | 425  |      |      |      |      |      |      |      |          |                    |     |
| 0.06                   | 8.5  | 0.06 | 8.3  | 0.07 | 8.0  | 0.07 | 7.7  | 0.07 | 7.7  |      |      |      |      |      |      |          |                    |     |
| 609                    |      | 577  |      | 546  |      | 512  |      | 470  |      |      |      |      |      |      |      |          |                    |     |
| 0.07                   | 9.3  | 0.07 | 9.1  | 0.07 | 8.8  | 0.08 | 8.5  | 0.08 | 8.5  |      |      |      |      |      |      |          |                    |     |
| 655                    |      | 626  |      | 598  |      | 566  |      | 534  |      | 485  |      |      |      |      |      |          |                    |     |
| 0.09                   | 10.6 | 0.09 | 10.5 | 0.09 | 10.2 | 0.10 | 9.9  | 0.10 | 9.7  | 0.10 | 9.6  |      |      |      |      |          |                    |     |

| SQDA10                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Motor HP | Speed Controllable | RPM |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--------------------|-----|
| CFM at Static Pressure |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |                    |     |
| 0.00                   |      | .125 |      | .250 |      | .375 |      | .500 |      | .625 |      | .750 |      | 1.00 |      | 1.25     |                    |     |
| BHP                    | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP      | Sone               |     |
| 504                    |      | 439  |      | 385  |      |      |      |      |      |      |      |      |      |      |      |          |                    |     |
| 0.02                   | 4.6  | 0.03 | 4.5  | 0.03 | 4.2  |      |      |      |      |      |      |      |      |      |      |          |                    |     |
| 688                    |      | 645  |      | 590  |      | 546  |      | 516  |      |      |      |      |      |      |      |          |                    |     |
| 0.06                   | 8.4  | 0.06 | 8.4  | 0.07 | 8.4  | 0.08 | 8.3  | 0.08 | 7.9  |      |      |      |      |      |      |          |                    |     |
| 722                    |      | 681  |      | 632  |      | 583  |      | 554  |      |      |      |      |      |      |      |          |                    |     |
| 0.07                   | 9.3  | 0.07 | 9.3  | 0.08 | 9.3  | 0.09 | 9.3  | 0.09 | 8.9  |      |      |      |      |      |      |          |                    |     |
| 802                    |      | 766  |      | 726  |      | 674  |      | 639  |      | 614  |      | 581  |      |      |      |          |                    |     |
| 0.10                   | 11.2 | 0.10 | 11.3 | 0.11 | 11.2 | 0.11 | 11.3 | 0.12 | 11.2 | 0.12 | 10.7 | 0.13 | 10.5 |      |      |          |                    |     |

| SQDA12                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Motor HP | Speed Controllable | RPM |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--------------------|-----|
| CFM at Static Pressure |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |                    |     |
| 0.00                   |      | .125 |      | .250 |      | .375 |      | .500 |      | .625 |      | .750 |      | 1.00 |      | 1.25     |                    |     |
| BHP                    | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP      | Sone               |     |
| 1022                   |      | 928  |      | 826  |      | 713  |      |      |      |      |      |      |      |      |      |          |                    |     |
| 0.07                   | 6.3  | 0.09 | 5.9  | 0.09 | 5.7  | 0.10 | 5.5  |      |      |      |      |      |      |      |      |          |                    |     |
| 1721                   |      | 1656 |      | 1603 |      | 1553 |      | 1494 |      | 1430 |      | 1370 |      | 1238 |      | 1078     |                    |     |
| 0.36                   | 15.9 | 0.38 | 15.6 | 0.39 | 15.2 | 0.41 | 14.7 | 0.43 | 14.5 | 0.44 | 14.6 | 0.45 | 14.7 | 0.46 | 14.5 | 0.46     | 14.0               |     |
| 1746                   |      | 1682 |      | 1630 |      | 1580 |      | 1523 |      | 1460 |      | 1400 |      | 1273 |      | 1117     |                    |     |
| 0.37                   | 16.3 | 0.39 | 16.1 | 0.41 | 15.6 | 0.43 | 15.1 | 0.44 | 14.9 | 0.45 | 14.9 | 0.47 | 15.1 | 0.48 | 14.9 | 0.48     | 14.4               |     |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).  
 The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.

# SQDA13 - SQDA18 Performance Data

| <b>SQDA13</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | <b>CFM at Static Pressure</b> |      |     | Motor HP  | Speed Controllable | RPM |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------------|------|-----|-----------|--------------------|-----|
| 0.00          |      | .125 |      | .250 |      | .375 |      | .500 |      | .625 |      | .750 |      | 1.00 |      | 1.25                          |      |     |           |                    |     |
| BHP           | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP                           | Sone |     |           |                    |     |
| 1594          |      | 1503 |      | 1407 |      | 1304 |      | 1189 |      |      |      |      |      |      |      |                               |      | 1/5 | Yes       | 1125               |     |
| 0.16          | 9.6  | 0.17 | 8.8  | 0.19 | 8.3  | 0.20 | 7.9  | 0.20 | 7.7  |      |      |      |      |      |      |                               |      | 3/4 | No        | 1750               |     |
| 2479          |      | 2422 |      | 2363 |      | 2303 |      | 2242 |      | 2178 |      | 2114 |      | 1976 |      | 1825                          |      |     |           |                    |     |
| 0.60          | 19.8 | 0.62 | 19.1 | 0.64 | 18.5 | 0.66 | 18.0 | 0.68 | 17.6 | 0.70 | 17.4 | 0.72 | 17.2 | 0.75 | 16.9 | 0.77                          | 16.7 |     |           |                    |     |
| 2479          |      | 2422 |      | 2363 |      | 2303 |      | 2242 |      | 2178 |      | 2114 |      | 1976 |      | 1825                          |      | 1   | Yes (ESM) | 1750               |     |
| 0.60          | 19.8 | 0.62 | 19.1 | 0.64 | 18.5 | 0.66 | 18.0 | 0.68 | 17.6 | 0.70 | 17.4 | 0.72 | 17.2 | 0.75 | 16.9 | 0.77                          | 16.7 |     |           |                    |     |

| <b>SQDA15</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | <b>CFM at Static Pressure</b> |      |     | Motor HP  | Speed Controllable | RPM |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------------|------|-----|-----------|--------------------|-----|
| 0.00          |      | .125 |      | .250 |      | .375 |      | .500 |      | .625 |      | .750 |      | 1.00 |      | 1.25                          |      |     |           |                    |     |
| BHP           | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP                           | Sone |     |           |                    |     |
| 2065          |      | 1954 |      | 1850 |      | 1737 |      | 1600 |      | 1443 |      |      |      |      |      |                               |      | 1/3 | Yes       | 1075               |     |
| 0.22          | 12.7 | 0.24 | 11.3 | 0.26 | 10.4 | 0.27 | 10.0 | 0.28 | 9.0  | 0.29 | 8.4  |      |      |      |      |                               |      |     |           |                    |     |
| 3026          |      | 2947 |      | 2873 |      | 2801 |      | 2731 |      | 2659 |      | 2581 |      | 2402 |      | 2195                          |      | 1   | Yes (ESM) | 1575               |     |
| 0.69          | 23   | 0.72 | 22   | 0.75 | 21   | 0.78 | 20   | 0.81 | 20   | 0.83 | 20   | 0.85 | 20   | 0.88 | 18.8 | 0.90                          | 18.5 |     |           |                    |     |
| 3314          |      | 3242 |      | 3173 |      | 3107 |      | 3043 |      | 2978 |      | 2912 |      | 2765 |      | 2595                          |      | 1   | No        | 1725               |     |
| 0.91          | 26   | 0.94 | 25   | 0.97 | 25   | 1.00 | 24   | 1.03 | 23   | 1.06 | 23   | 1.09 | 24   | 1.14 | 23   | 1.16                          | 22   |     |           |                    |     |

| <b>SQDA16</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | <b>CFM at Static Pressure</b> |      |     | Motor HP | Speed Controllable | RPM |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------------|------|-----|----------|--------------------|-----|
| 0.00          |      | .125 |      | .250 |      | .375 |      | .500 |      | .625 |      | .750 |      | 1.00 |      | 1.25                          |      |     |          |                    |     |
| BHP           | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP                           | Sone |     |          |                    |     |
| 2226          |      | 2042 |      | 1919 |      | 1794 |      | 1568 |      |      |      |      |      |      |      |                               |      | 1/2 | No       | 825                |     |
| 0.19          | 10.4 | 0.21 | 10.1 | 0.23 | 9.0  | 0.24 | 8.2  | 0.24 | 7.9  |      |      |      |      |      |      |                               |      |     |          |                    |     |
| 3077          |      | 2937 |      | 2812 |      | 2717 |      | 2638 |      | 2556 |      | 2442 |      | 2108 |      | 1540                          |      | 1   | No       | 1140               |     |
| 0.51          | 18.0 | 0.53 | 17.7 | 0.56 | 17.0 | 0.58 | 16.1 | 0.60 | 14.9 | 0.62 | 14.2 | 0.64 | 13.8 | 0.64 | 13.2 | 0.58                          | 12.5 |     |          |                    |     |

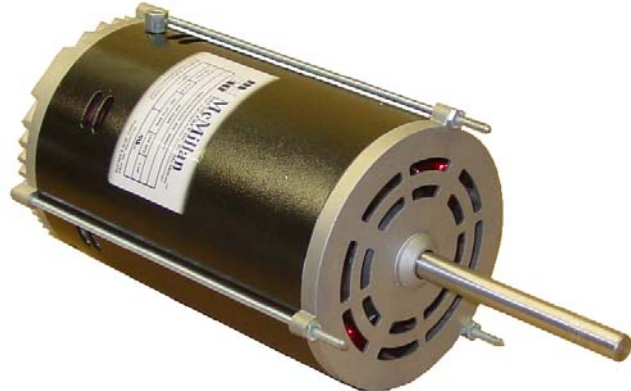
| <b>SQDA18</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | <b>CFM at Static Pressure</b> |      |     | Motor HP | Speed Controllable | RPM |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------------|------|-----|----------|--------------------|-----|
| 0.00          |      | .125 |      | .250 |      | .375 |      | .500 |      | .625 |      | .750 |      | 1.00 |      | 1.25                          |      |     |          |                    |     |
| BHP           | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP  | Sone | BHP                           | Sone |     |          |                    |     |
| 2905          |      | 2761 |      | 2616 |      | 2444 |      | 2240 |      | 2041 |      | 1830 |      |      |      |                               |      | 1/2 | No       | 825                |     |
| 0.28          | 8.9  | 0.32 | 8.2  | 0.34 | 7.9  | 0.36 | 7.6  | 0.38 | 7.1  | 0.39 | 6.7  | 0.38 | 6.5  |      |      |                               |      |     |          |                    |     |
| 4014          |      | 3910 |      | 3806 |      | 3703 |      | 3595 |      | 3475 |      | 3338 |      | 3042 |      | 2757                          |      | 1   | No       | 1140               |     |
| 0.75          | 15.4 | 0.79 | 14.8 | 0.83 | 14.4 | 0.87 | 14.1 | 0.90 | 13.9 | 0.94 | 13.8 | 0.97 | 13.6 | 1.01 | 12.7 | 1.02                          | 11.9 |     |          |                    |     |

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values show for installation Type B: free inlet fan sone levels.

# EnergySaver Motors

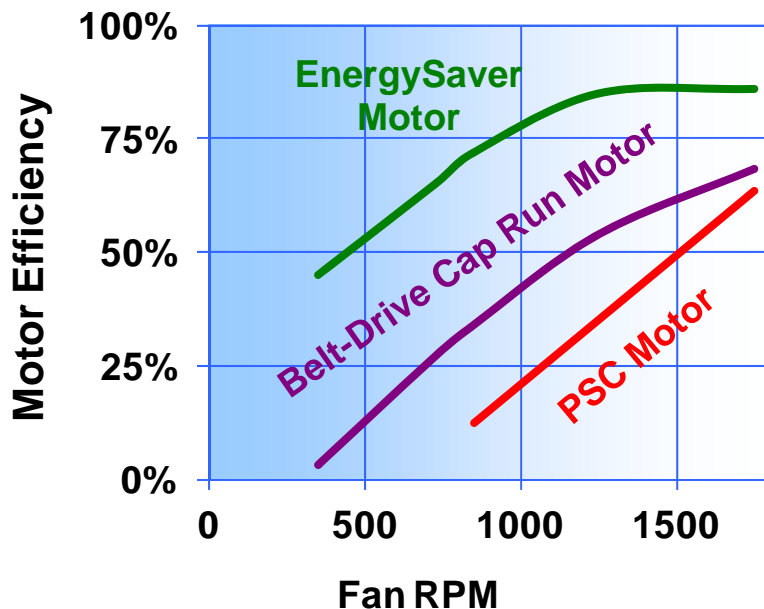
American Coolair is proud to introduce our new line of *EnergySaver* motors. These electronically commutated (EC) motors are controllable to 20% of nameplate speed and provide premium efficiency throughout their speed range.

When compared to the standard permanent split capacitor (PSC) motors, *EnergySaver* motors can provide energy savings of 50% or more! Each *EnergySaver* motor comes standard with a manual speed controller on the unit. An optional dial speed controller can be specified and shipped loose for remote field mounting.



Most *EnergySaver* motors may also be specified for use with either a variable pressure control (VPC) or variable temperature control (VTC). The VPC features a remotely mounted pressure sensor which is connected to the motor controller. Motor speed is then automatically adjusted based on the system status as indicated by the pressure sensor. Once set and tuned for the system, the VPC allows for fully automated ventilation control. The VTC connects the motor to a thermostat to control the fan speed based on air temperature.

*EnergySaver* motors are available for SQDA06 - SQDA15.



Data based on Size 12 fans using 1/2 HP, 1750 RPM motors

- Available on SQDA 06-15
- Electronically commutated, super-efficient motors
- Standard manual or optional automated speed control from 100% down to 20% of motor nameplate speed
- Up to 50% in energy savings

# Installation

Most SQBA and SQDA in-line centrifugal fans are shipped fully assembled and ready for installation. Always inspect equipment for transit damage before accepting delivery to assure a valid claim. Special handling and storage procedures are required if unit is to remain idle for a long time prior to installation.

## Placement

For convenience in wiring and service, it is recommended that the fans be installed so that the motor is easily accessible. In addition, belt-driven units should be accessibly installed for maintenance and servicing of belts, bearings, and pulleys.

## Mounting

SQBA and SQDA in-line centrifugal fans may be mounted in any orientation within a system of ductwork. All fans should be rigidly mounted in such a manner that the unit is adequately supported by either the ductwork or by ceiling/floor supports.

The SQBA and SQDA units are designed with slip-fit duct connectors as standard. Flexible duct connections or transition pieces may be used in mounting the fan. However, make sure that proper duct design is maintained so as not to obstruct airflow. For ease of installation, mounting flanges and round duct connectors are available. See pages 22-23.

## Inspection

- **Check centrifugal wheel** for free rotation.
- **Check belt** for proper tension. (SQBA)
- **Check bearings** for proper and secure locking to drive shaft. (SQBA)
- **Check motor and fan sheave faces** for proper alignment. (SQBA)
- **Check circuit phase, voltage and wiring connection** against that shown on motor nameplate.
- **Check direction of fan rotation** for proper air flow.
- **After one week of operation, check belt** for proper tension. (SQBA)

# Maintenance

Units should be checked monthly for the first two or three months and periodically thereafter. On all SQBA and SQDA units, three of the four side panels are removable for ease in cleaning and maintenance.

## Cleaning and Adjustment

Units should be cleaned periodically to remove accumulated dust, dirt, and other foreign matter which may collect on the blades or other parts. Fans should be checked for eroded parts which should be replaced to avoid structural damage and possible failure.

On belt drive units, belt wear, tension, and alignment should be checked. Note that belt and/or pulley misalignment will cause excessive belt wear and premature failure. This check of the drive components should be made frequently during the first 24-48 hours of the fan's operation.

## Lubrication

Proper lubrication is the most important maintenance requirement. Fan bearings on belt drive units should be lubricated annually or more frequently depending on usage and operating conditions. For best results, use a #2 consistency lithium base grease such as Shell Alvania #2 lubricant or equivalent.

Motor bearings should be lubricated according to the motor manufacturer's instructions.

## Adjustment of Variable Pitch Pulley and Belt (SQBA)

Variable pitch pulley may be adjusted within catalog RPM range to alter performance. However, adjustment beyond catalog RPM range may cause motor overload and possible premature motor failure. Pulley alignment and belt tension should be adjusted if necessary. Inspection every 6 to 12 months is recommended.

### WARNING



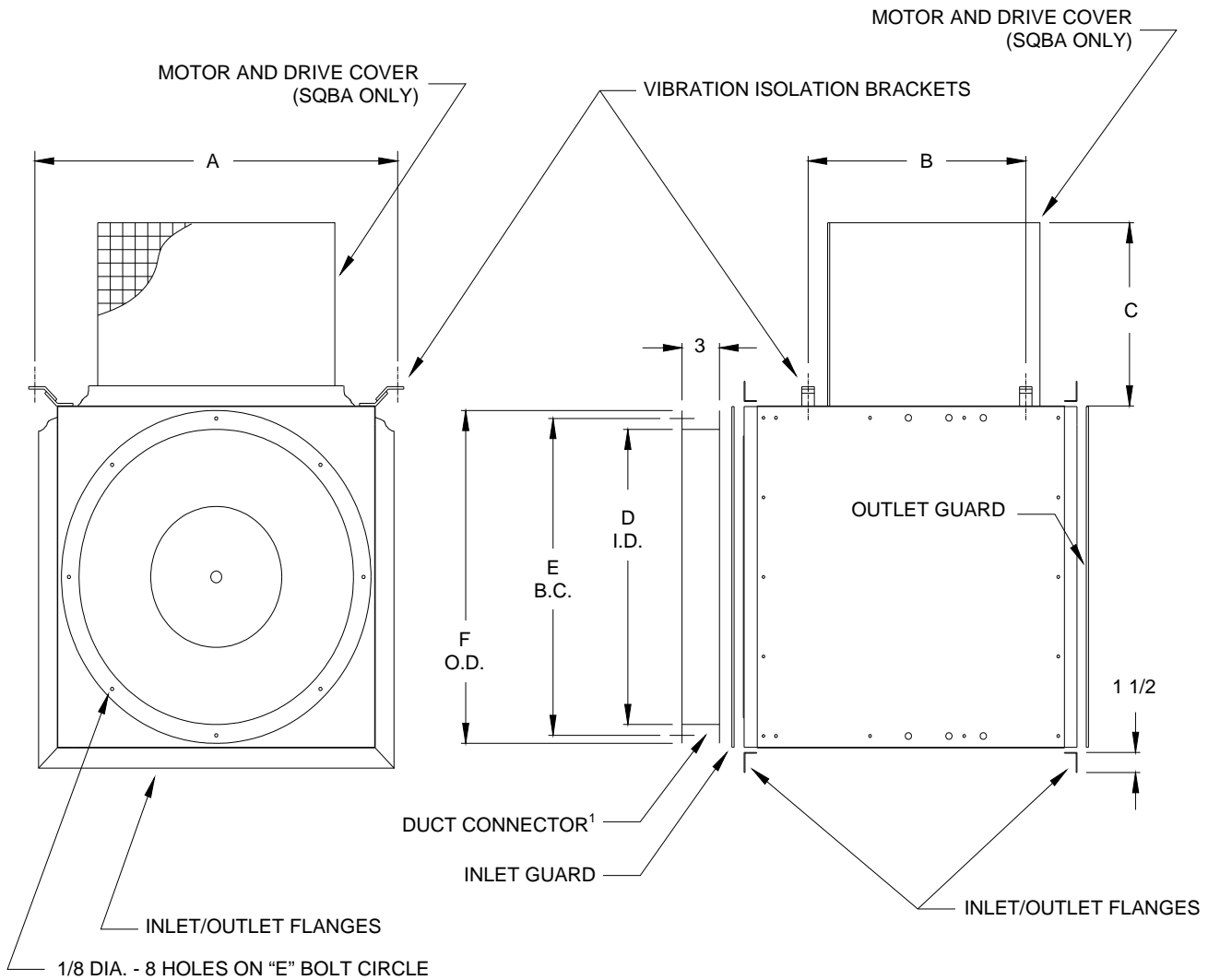
### CAUTION

**DO NOT** INSTALL FAN WITH MOVING PARTS WITHIN 8 FEET OF FLOOR OR GRADE LEVEL WITHOUT A GUARD THAT COMPLIES WITH OSHA REGULATIONS. **DO NOT** USE UNLESS ELECTRICAL WIRING COMPLIES WITH ALL APPLICABLE CODES. **DO NOT** WIRE WITHOUT PROVIDING FOR A POWER SOURCE DISCONNECT AT THE FAN ITSELF. **DO NOT** SERVICE EXCEPT BY A QUALIFIED MAINTENANCE TECHNICIAN AND ONLY AFTER DISCONNECTING THE POWER SOURCE. FAILURE TO OBSERVE THESE PRECAUTIONS CAN RESULT IN SERIOUS INJURY OR DEATH.

To convert air performance (CFM and SP) and power (BHP) to metric units, multiply CFM x .000472 to obtain cubic meters per second (m<sup>3</sup>/s). Multiply SP x 248.36 to obtain pascals (Pa). Multiply BHP x .7457 to obtain kilowatts (kW).

**Example:** 3904 CFM x .000472 = 1.8427 m<sup>3</sup>/s  
0.125 SP x 248.36 = 31.05 Pa  
0.886 BHP x .7457 = 0.661 kW

# SQBA and SQDA Accessory Details



| Unit                   | A       | B        | C <sup>2</sup> | D <sup>1</sup> | E <sup>1</sup> | F <sup>1</sup> |
|------------------------|---------|----------|----------------|----------------|----------------|----------------|
| SQDA06, SQDA08, SQDA10 | 17 5/8  | 10       | —              | —              | —              | —              |
| SQBA06, SQBA08, SQBA10 | 17 5/8  | 10       | 11 3/4         | —              | —              | —              |
| SQBA12, SQDA12         | 21 9/16 | 17 13/16 | 17 3/4         | —              | —              | —              |
| SQBA13, SQDA13         | 23 9/16 | 17 7/16  | 17 3/4         | —              | —              | —              |
| SQBA15, SQDA15         | 26 9/16 | 18 13/16 | 17 3/4         | 18             | 19 5/8         | 20 13/16       |
| SQBA16, SQDA16         | 29 1/16 | 17 7/16  | 17 3/4         | 22             | 23 5/8         | 24 13/16       |
| SQBA18, SQDA18         | 32 1/16 | 18 13/16 | 17 3/4         | 22             | 23 5/8         | 24 13/16       |
| SQBA20                 | 34 1/16 | 19 3/4   | 17 3/4         | 22             | 23 5/8         | 24 13/16       |
| SQBA24                 | 40      | 26 3/4   | 18 3/4         | 26             | 27 5/8         | 28 13/16       |
| SQBA30                 | 49      | 29 7/16  | 18 3/4         | 36             | 37 11/16       | 38 7/8         |
| SQBA36                 | 59 1/2  | 32 13/16 | 18 3/4         | 36             | 37 11/16       | 38 7/8         |
| SQBA44                 | 71 1/2  | 37 1/4   | 18 3/4         | 45             | 46 11/16       | 47 7/8         |

1 -- The duct connector accessory is not available on unit sizes 13 and smaller.  
 2 -- Motor and drive cover dimensions apply to type SQBA fans only.

# SQBA and SQDA Options and Accessories

## Inlet and Outlet Flanges

Heavy gauge galvanized steel flanges are available to simplify duct attachment.

## Inlet and Outlet Guards

Both inlet and outlet guards are available to prevent the entry of foreign material into the fan.

## Special Motors

Two-speed, totally enclosed, energy efficient and explosion-proof motors for hazardous locations may be available for many models. Motor enclosure may affect UL listing.

Energy Saver (electronically commutated) motors are available for SQDA fans, sizes 06 through 15. These motors are controllable to 20% of nameplate speed and provide premium efficiency throughout their speed range. For more information see Pg. 20.

## Backdraft Dampers

Gravity or motor operated backdraft dampers are available. They are aluminum construction and designed for duct installation.

## Drive Guard

A heavy gauge steel and PVC coated wire mesh guard is available to protect the drive components on SQBA units.

## Protective Coatings

Fan units are not recommended for exhausting air of a corrosive nature. However, special protective coatings are available where units may be exposed to corrosive conditions. Parts requiring painting are processed through the American Coolair five-stage pretreatment system prior to the application of any coatings to insure maximum finish adhesion. These parts use a thermosetting epoxy powder paint with an average thickness of 3 mils and baked at 400° F to a smooth, hard continuous finish. Consult your ILG Industries representative for available coatings.

## Vibration Isolators

Vibration isolators reduce sound and vibration transmission to the fan support structure. Isolators are available in spring type for hanging installations, and rubber-in-shear type for bottom mounting.

## Duct Connector

Round duct connector is available on some SQBA and SQDA units to accommodate round duct attachment.

## Variable Inlet Vanes

Variable Inlet Vanes (VIV) are available for controlling air flow in an efficient manner.

## Internal Insulation

One inch thick insulation on the interior of the fan housing for both sound attenuation and prevention of condensation.

## Safety Disconnects

Safety disconnects cut power to motor for servicing of unit. A disconnect switch is an accessory available on SQBA units, and is shipped loose for field installation. An optional wiring harness is available to connect the motor to the switch at the junction box. All SQDA units have a disconnect device with a factory mounted and wired junction box as standard.

## Motor and Drive Cover

Combination motor cover and drive guard made of heavy gauge galvanized steel and PVC coated wire is available to protect both the motor and drive components on SQBA units.

## Speed Controller (for select SQDA models only)

Solid state speed controller provides capability to change performance and speed ranging from 50% to 100% of fan capacity. This permits adjustment for fine tuning and balancing the ventilation system (see performance tables).

## SQBA Specification Checklist

- General in-line units for low, medium, and high ranges of air volume and pressure in commercial, institutional, and light manufacturing buildings.
- Centrifugal design with advantages of compact, attractive appearance, quiet operation, and performance against higher static pressures.
- Variable pitch motor pulley allows for speed adjustment.
- Motor base is adjustable to provide proper belt tension and alignment.
- Galvanized steel exterior over galvanized steel frame provides a high degree of rigidity.
- Deep-spun, overlapping, one-piece venturi minimizes noise, reduces air turbulence and improves efficiency.
- Aluminum centrifugal wheel is quiet, non-overloading, backward-inclined design and is computer balanced.
- Standard open drip-proof motor is out of the airstream for protection.
- Heavy duty pillow-block bearings with cast iron housing are self-aligning and relubricable.
- AMCA Seal assures certified rating of sound and air performance.

## SQDA Specification Checklist

- General in-line units for low to medium ranges of air volume and pressure in commercial, institutional, and light manufacturing buildings.
- Centrifugal design with advantages of compact, attractive appearance, quiet operation, and performance against higher static pressures.
- Direct-drive advantages of minimal maintenance and operating costs.
- Galvanized steel exterior over galvanized steel frame provides a high degree of rigidity.
- Deep-spun, overlapping, one piece venturi minimizes noise, reduces air turbulence, and improves efficiency.
- Aluminum centrifugal wheel is quiet, non-overloading, backward-inclined design and is computer balanced.
- Standard open motor is out of the airstream for protection.
- Safety disconnect device allows power to be cut for servicing of the unit.
- Fans are factory run and tested prior to shipment to ensure dependable operation.
- AMCA Seal assures certified rating of sound and air performance.

## Limited Warranty

In the sale of its products, American Coolair Corporation agrees to correct, by repairs or replacement, any defects in workmanship or material that may develop under proper and normal use during the period of one year from the date of shipment from the factory. Any product or part proving, upon American Coolair's examination, to be defective during limited warranty period will be repaired or replaced, at American Coolair's option, f.o.b. factory, without charge.

Deterioration or wear caused by chemicals, abrasive action or excessive heat shall not constitute defects.

Motors are guaranteed only to the extent of the manufacturer's warranty. American Coolair's limited warranty does not apply to any of its products or parts that have been subject to accidental damage, misuse by the user, unauthorized alterations, improper installation or electrical wiring, or lack of proper lubrication or other service requirements as established by American Coolair.

Repairs or replacements provided under the above terms shall constitute fulfillment of all American Coolair's obligations with respect to limited warranty.

THE LIMITED WARRANTY STATED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, STATUTORY OR IMPLIED, INCLUDING WITHOUT LIMITATION THAT OF MERCHANTABILITY AND FITNESS.

NO LIABILITY FOR REINSTALLATION COST OR FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY NATURE IS ASSUMED OR SHALL BE IMPOSED UPON AMERICAN COOLAIR.



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