

# MODEL SQD

## SQUARE INLINE DIRECT DRIVE CENTRIFUGAL DUCT FAN



### APPLICATION

Model SQD square inline duct mounted fans are available in sizes 6 through 15, moving up to 2,800 CFM, with static pressure capabilities to 1". SQD units are the perfect selection for clean air applications where space is a leading consideration. The compact housing with removable access doors and side discharge capability can be mounted in any orientation. AMCA licensed performance and UL listing assure that you have made a reliable selection.

### CONSTRUCTION

#### Housing

- Heavy-gauge galvanized steel for extra strength.
- Integral inlet and outlet duct collars
- Universal mounting - horizontal, vertical or any angle.
- Easy access for service with removable side panels, without disconnecting duct.

#### Centrifugal Wheel

- All aluminum backward inclined wheel.
- Nonoverloading for safe operation in ducted systems.
- Statically and dynamically balanced for smooth operation.
- SQD 06 has composite wheel.

#### Motors

- Single speed totally enclosed are standard.
- All motors are rated for continuous duty.
- Standard motors are permanently sealed ball bearing type.
- SQD06 has an external rotor motor.

### AMCA SEAL



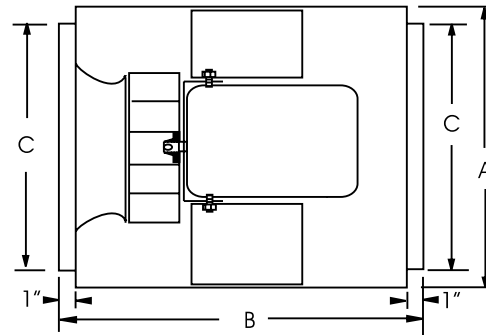
S&P USA Ventilation Systems, LLC., Div. of Soler & Palau Ventilation Group, certifies that the Models SQD shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



UL-705 LISTED POWER VENTILATOR

### DIMENSIONAL DATA

| MODEL SQD | A  | B  | C      | Average Ship Wt. Lbs. |
|-----------|----|----|--------|-----------------------|
| 6         | 13 | 14 | 8 7/8  | 30                    |
| 8         | 16 | 17 | 11 7/8 | 60                    |
| 10        | 19 | 20 | 13 7/8 | 75                    |
| 12        | 23 | 24 | 15 7/8 | 90                    |
| 15        | 28 | 29 | 19 7/8 | 120                   |



### ACCESSORIES

| MODEL SQD | DAMPER |           | DAMPER MOTOR (LOOSE) | VIBRATION ISOLATORS HANGING STYLE |                  | VIBRATION ISOLATORS FLOOR MOUNT |                  | SPEED CONTROL   |                  |           |
|-----------|--------|-----------|----------------------|-----------------------------------|------------------|---------------------------------|------------------|-----------------|------------------|-----------|
|           | OD     | STOCK NO. | STOCK NO.            | RUBBER STOCK NO.                  | SPRING STOCK NO. | RUBBER STOCK NO.                | SPRING STOCK NO. | 115/1/60        |                  | 230/1/60  |
|           |        |           |                      |                                   |                  |                                 |                  | 5 AMP STOCK NO. | 10 AMP STOCK NO. | STOCK NO. |
| 6         | 9      | 411009 ●  | 411611 ●             | VHRSQ06-15 ●                      | VHSSQ06-20 ●     | VFRSQ06-15 ●                    | VFSSQ06-20 ●     | 2727.1 ●        | N/A              | N/A       |
| 8         | 12     | 411012 ●  | 411611 ●             | VHRSQ06-15 ●                      | VHSSQ06-20 ●     | VFRSQ06-15 ●                    | VFSSQ06-20 ●     | 2727.1 ●        | N/A              | 3232.1 ◆  |
| 10        | 14     | 411014 ●  | 411611 ●             | VHRSQ06-15 ●                      | VHSSQ06-20 ●     | VFRSQ06-15 ●                    | VFSSQ06-20 ●     | 2727.1 ●        | 2828.1 ●         | 3232.1 ◆  |
| 12        | 16     | 411016 ●  | 411611 ●             | VHRSQ06-15 ●                      | VHSSQ06-20 ●     | VFRSQ06-15 ●                    | VFSSQ06-20 ●     | 2727.1 ●        | 2828.1 ●         | 3232.1 ◆  |
| 15        | 20     | 411020 ▲  | 411611 ▲             | VHRSQ06-15 ▲                      | VHSSQ06-20 ▲     | VFRSQ06-15 ▲                    | VFSSQ06-20 ▲     | N/A             | 2828.1 ●         | 3232.1 ◆  |

**SPEED CONTROL**      **2727.1 MAX 1/3 HP-5 AMP 120V**  
**2828.1 MAX 1/2 HP-10 AMP 120V**

| Ship Schedules:                |
|--------------------------------|
| ● Next Day Shipment From Stock |
| ▲ 3 Day Shipment From Stock    |
| ◆ 10 Day Shipment              |

ALL DIMENSIONS IN INCHES, WEIGHTS IN POUNDS. OD IS OUTSIDE DIMENSION OF SQUARE DAMPER. DUE TO CONTINUING RESEARCH, S&P RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE. Please refer to the General Catalog or contact the Factory for our Full Line of products available on standard shipping schedules.

MIXED FLOW/CENTRIFUGAL INLINE FANS

**MIXED FLOW/CENTRIFUGAL INLINE FANS**

| <b>MODEL SQD</b> |          |                         |       |                | <b>Square Inline Direct Drive Centrifugal Duct Fan</b> |      |      |      |      |      |      | <b>Ventilator with Totally Enclosed Motor</b> |               |
|------------------|----------|-------------------------|-------|----------------|--|------|------|------|------|------|------|---|---------------|
| MODEL SQD        | MOTOR Hp | MAX BHp                 | RPM   | SONES @ 1/4 SP | CFM at Static Pressure                                 |      |      |      |      |      |      | 115/1/60*                                     | 208-230/1/60* |
|                  |          |                         |       |                | 1/8  | 1/4  | 3/8  | 1/2  | 5/8  | 3/4  | 1    | STOCK NO.                                     | STOCK NO.     |
| 60               | 100 WATT | .95 MAX AMPS @ 115/60/1 | 1250  | 2.2            | 162  | 102  | -    | -    | -    | -    | -    | SQD601AS ●                                    | N/A           |
|                  |          |                         | 1500  | 3.5            | 208  | 174  | -    | -    | -    | -    | -    |   |               |
|                  |          |                         | 1850  | 5.4            | 269  | 245  | 215  | 170  | 130  | -    | -    |   |               |
|                  |          |                         | 2100  | 6.8            | 312  | 290  | 268  | 240  | 201  | 158  | -    |   |               |
|                  |          |                         | 2400  | 8.6            | 362  | 343  | 324  | 304  | 281  | 250  | 176  |   |               |
|                  |          |                         | 2700* | 10.4           | 406  | 389  | 372  | 355  | 337  | 316  | 257  |   |               |
| 825              | 1/4      | 0.18                    | 1050  | 3.8            | 398  | 276  | -    | -    | -    | -    | -    | SQD8251AS ●                                   | SQD8251CS ◆   |
|                  |          |                         | 1200  | 5.4            | 482  | 388  | 259  | -    | -    | -    | -    |   |               |
|                  |          |                         | 1400  | 7.2            | 588  | 514  | 427  | 313  | -    | -    | -    |   |               |
|                  |          |                         | 1550  | 8.5            | 665  | 600  | 528  | 444  | 335  | -    | -    |   |               |
|                  |          |                         | 1740* | 10.5           | 763  | 706  | 646  | 580  | 504  | 412  | -    |   |               |
| 1025             | 1/4      | 0.16                    | 900   | 4.5            | 692  | 514  | -    | -    | -    | -    | -    | SQD10251AS ▲                                  | SQD10251CS ◆  |
|                  |          |                         | 1000  | 6.0            | 804  | 651  | 434  | -    | -    | -    | -    |   |               |
|                  |          |                         | 1050  | 6.8            | 858  | 714  | 547  | -    | -    | -    | -    |   |               |
|                  |          |                         | 1150* | 8.3            | 964  | 836  | 698  | 473  | -    | -    | -    |   |               |
| 1050             | 1/2      | 0.38                    | 1050  | 6.0            | 845  | 703  | 524  | -    | -    | -    | -    | SQD10501AS ●                                  | SQD10501CS ◆  |
|                  |          |                         | 1200  | 8.1            | 1000   | 883  | 748  | 584  | -    | -    | -    |   |               |
|                  |          |                         | 1350  | 10.1           | 1151   | 1050 | 940  | 815  | 667  | -    | -    |   |               |
|                  |          |                         | 1450  | 11.2           | 1250   | 1158 | 1058 | 949  | 826  | 680  | -    |   |               |
|                  |          |                         | 1650  | 13.9           | 1445   | 1366 | 1283 | 1194 | 1098 | 993  | 740  |   |               |
|                  |          |                         | 1710* | 14.7           | 1505   | 1430 | 1350 | 1266 | 1175 | 1078 | 852  |   |               |
| 1225             | 1/4      | 0.19                    | 900   | 6.0            | 1051   | 809  | 529  | -    | -    | -    | -    | SQD12251AS ▲                                  | SQD12251CS ◆  |
|                  |          |                         | 1000  | 7.6            | 1216   | 1003 | 774  | -    | -    | -    | -    |   |               |
|                  |          |                         | 1050  | 8.4            | 1297   | 1096 | 883  | 640  | -    | -    | -    |   |               |
|                  |          |                         | 1100  | 9.3            | 1377   | 1187 | 986  | 767  | -    | -    | -    |   |               |
|                  |          |                         | 1120* | 9.7            | 1410   | 1224 | 1028 | 817  | -    | -    | -    |   |               |
| 1250             | 1/2      | 0.55                    | 950   | 6.4            | 1129   | 920  | 654  | -    | -    | -    | -    | SQD12501AS ●                                  | SQD12501CS ◆  |
|                  |          |                         | 1050  | 7.8            | 1287   | 1106 | 890  | 651  | -    | -    | -    |   |               |
|                  |          |                         | 1300  | 11.9           | 1673   | 1526 | 1380 | 1215 | 1020 | 825  | -    |   |               |
|                  |          |                         | 1500  | 15.6           | 1975   | 1844 | 1719 | 1591 | 1451 | 1292 | 950  |   |               |
|                  |          |                         | 1620* | 17.7           | 2159   | 2033 | 1918 | 1802 | 1680 | 1548 | 1237 |   |               |
| 1550             | 1/2      | 0.51                    | 700   | 6.1            | 1517   | 1174 | 793  | -    | -    | -    | -    | SQD15501AS ▲                                  | SQD15501CS ◆  |
|                  |          |                         | 800   | 8.0            | 1839   | 1515 | 1233 | 833  | -    | -    | -    |   |               |
|                  |          |                         | 900   | 10.2           | 2152   | 1849 | 1585 | 1335 | 994  | -    | -    |   |               |
|                  |          |                         | 1000  | 12.7           | 2456   | 2178 | 1924 | 1695 | 1469 | 1187 | -    |   |               |
|                  |          |                         | 1060* | 14.6           | 2658   | 2399 | 2151 | 1928 | 1719 | 1501 | -    |   |               |

\* True motor speed - other speeds based on speed control use.

Performance certified is for installation Type B-free inlet, ducted outlet.  
 Power ratings (BHP) do not include transmission losses.  
 Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Installation Type A: free inlet hemispherical sone levels.

Use 5 AMP Speed Control for motors 1/3 HP and smaller.  
 Use 10 AMP Speed Control for motors 1/2.

Please refer to the General Catalog or contact the Factory for our Full Line of products available on standard shipping schedules.