



# Exact Replacement Roof Exhaust Fan

## MODEL RFC



**Matching the Old Standard Saves on Installation Time**

# MODEL RFC

## BELT DRIVE FORWARD CURVED ROOF FAN



### **MODEL FEATURES**

- Rated up to 7,750 CFM in static pressure applications up to 2-1/2" w.g.
- 6 sizes ranging from 7 to 18
- Single DWDI forward curved blower assembly with the motor located in the air stream
- Belt drives permit easy performance adjustments when needed
- Can be used in both horizontal & vertical air flow positions
- Removable top panel easy access for service
- AMCA Air & Sound Certified

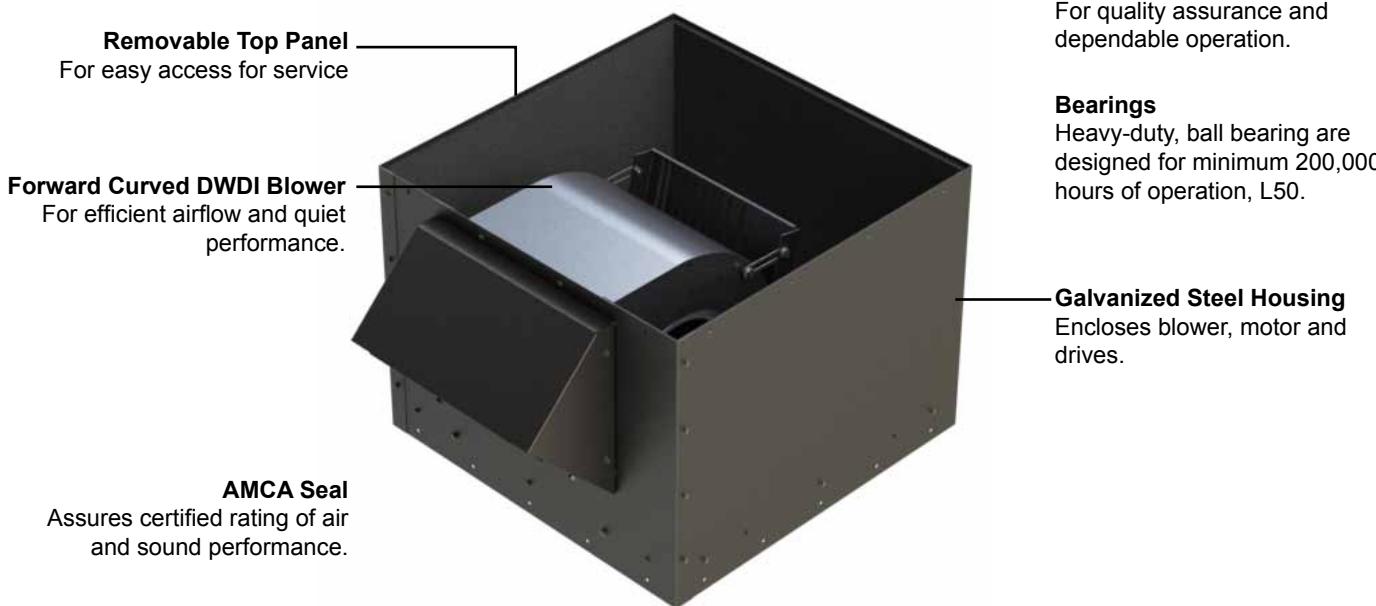
### **MODEL OVERVIEW**

S&P's Forward Curved Belt Driven Roof Fans are designed to exhaust air up to 7,7500 CFM in high static pressure applications up to 2-1/2". The galvanized steel exterior provides an attractive appearance. Belt drive results in lower operating RPM and sound levels, making the Model RFC well suited to applications where quiet operation is important. Belt drive also permits easy performance adjustments when needed to balance the total ventilation system.

The RFC was designed with several features to make life easier for the user. These features include: removable top panel , adjustable motor pulleys for easy field adjusting, and tight seals. A wide range of accessories and motors are available to meet special applications.

RFCs are primarily used for the exhaust of relatively clean air from a wide range of commercial, industrial and institutional environments such as schools, hospitals, and high-rise buildings/ apartments and many others.

### **STANDARD CONSTRUCTION FEATURES**



**2 year fan housing warranty, 1 year motor warranty**

All specifications are subject to change without notice unless approved in submittal by Soler & Palau.

## **CONSTRUCTION/SPECIFICATION CHECKLIST**

### **Fan Housing**

- Statically and dynamically balanced forward curved wheel
- 12-gauge galvanized steel blower plate/discharge opening
- 18-gauge galvanized steel housing
- Prepunched mounting holes
- Conduit opening for wiring from below unit
- ½" fiberglass insulation standard
- Built-in birdscreen standard
- Built-in backdraft damper standard

### **Drives**

- Adjustable motor pulleys are standard
- Sized for minimum 150% of drive horsepower
- Machined cast iron adjustable motor pulleys
- Pivoting motor plate for belt tensioning
- Nonstatic oil resistant V-belts

### **Bearings**

- Heavy-duty bearings are designed for minimum 200,000 hour life, L50
- Bearings are sealed and prelubricated

### **Motors**

- 1 year warranty.
- Brands are nationally recognized and locally serviced
- Single speed open drip-proof are standard
- Totally enclosed and two-speed motors are available
- All motors are rated for continuous duty
- 182T and larger motors shipped unmounted for field installation

### **Certifications**

- AMCA Seal for Air & Sound

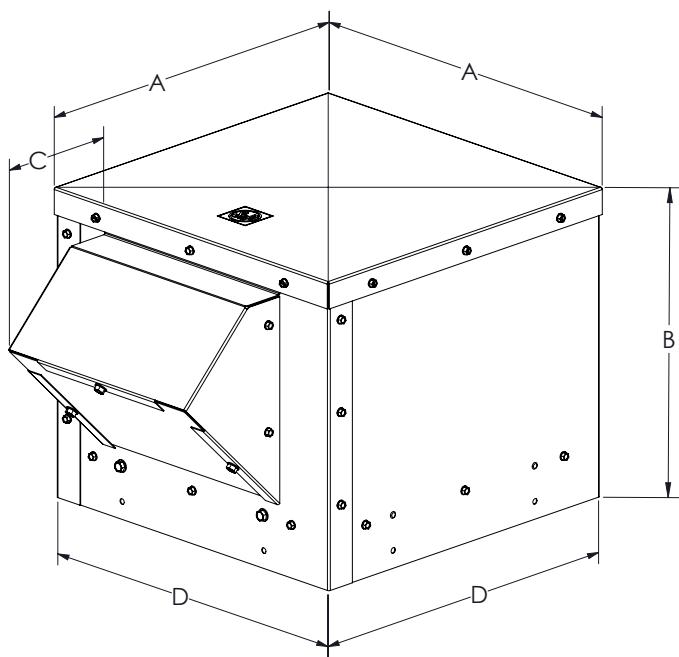
### **Entire Fan Unit**

- Factory assembled and tested prior to shipment for quality assurance

## **OPTIONS/ACCESSORIES**

**Roof Curb:** Prefabricated heavy-gauge galvanized steel, clip lock, 14" high (other heights are also available) with 1-1/2" wood nailing. Assures perfect fit of fan to roof opening. Options include burglar bars, single or double pitch construction and hinged curbs for easy duct access. Welded & custom curbs available.

## DIMENSIONAL DATA



| Model | A      | B      | C      | D* | Shaft Dia. |
|-------|--------|--------|--------|----|------------|
| 7     | 20-1/2 | 17-3/8 | 7      | 20 | 3/4        |
| 9     | 24-1/2 | 19-7/8 | 7-3/8  | 24 | 3/4        |
| 10    | 28-1/2 | 22     | 8-3/8  | 28 | 3/4        |
| 12    | 32-1/2 | 25-1/8 | 8-3/4  | 32 | 1          |
| 15    | 36-1/2 | 28-7/8 | 9-7/8  | 36 | 1          |
| 18    | 40-1/2 | 34-1/8 | 11-1/2 | 40 | 1          |

\*D is inside dimension

Dimensions in Inches

## PERFORMANCE DATA

### RFC07

| CFM  | OV   |       | Static Pressure in Inches (w.g.) |      |      |      |      |       |      |       |
|------|------|-------|----------------------------------|------|------|------|------|-------|------|-------|
|      |      |       | 1/8                              | 1/4  | 1/2  | 3/4  | 1    | 1-1/2 | 2    | 2-1/2 |
| 300  | 1192 | RPM   | 630                              | 808  | 1099 | 1332 | 1530 | 1860  | 2137 | 2379  |
|      |      | BHP   | 0.03                             | 0.05 | 0.10 | 0.16 | 0.23 | 0.39  | 0.56 | 0.75  |
|      |      | Sones | 2.3                              | 3.5  | 6.1  | 8.4  | 10.3 | 14.2  | 17.9 | 21    |
| 400  | 1590 | RPM   | 722                              | 871  | 1132 | 1354 | 1549 | 1879  | 2159 | -     |
|      |      | BHP   | 0.05                             | 0.07 | 0.13 | 0.20 | 0.28 | 0.45  | 0.64 | -     |
|      |      | Sones | 3.6                              | 4.4  | 6.6  | 8.7  | 10.6 | 14.6  | 18.3 | -     |
| 500  | 1987 | RPM   | 829                              | 956  | 1186 | 1391 | 1576 | 1899  | 2177 | -     |
|      |      | BHP   | 0.08                             | 0.10 | 0.17 | 0.25 | 0.33 | 0.52  | 0.72 | -     |
|      |      | Sones | 4.6                              | 5.6  | 7.4  | 9.2  | 11.1 | 15.0  | 18.6 | -     |
| 600  | 2385 | RPM   | 944                              | 1056 | 1259 | 1445 | 1617 | 1926  | -    | -     |
|      |      | BHP   | 0.11                             | 0.15 | 0.22 | 0.31 | 0.40 | 0.60  | -    | -     |
|      |      | Sones | 5.7                              | 7.1  | 8.6  | 10.0 | 11.8 | 15.4  | -    | -     |
| 700  | 2782 | RPM   | 1064                             | 1164 | 1346 | 1514 | 1673 | 1964  | -    | -     |
|      |      | BHP   | 0.17                             | 0.20 | 0.29 | 0.38 | 0.48 | 0.69  | -    | -     |
|      |      | Sones | 7.0                              | 8.3  | 9.8  | 11.2 | 12.7 | 16.0  | -    | -     |
| 800  | 3180 | RPM   | 1187                             | 1278 | 1443 | 1597 | 1743 | -     | -    | -     |
|      |      | BHP   | 0.23                             | 0.28 | 0.37 | 0.47 | 0.57 | -     | -    | -     |
|      |      | Sones | 8.4                              | 9.5  | 11.6 | 12.7 | 14.0 | -     | -    | -     |
| 900  | 3577 | RPM   | 1313                             | 1396 | 1548 | 1689 | 1823 | -     | -    | -     |
|      |      | BHP   | 0.32                             | 0.37 | 0.47 | 0.58 | 0.69 | -     | -    | -     |
|      |      | Sones | 9.9                              | 10.7 | 13.2 | 14.5 | 15.5 | -     | -    | -     |
| 1000 | 3975 | RPM   | 1440                             | 1516 | 1657 | 1788 | -    | -     | -    | -     |
|      |      | BHP   | 0.43                             | 0.48 | 0.59 | 0.71 | -    | -     | -    | -     |
|      |      | Sones | 11.5                             | 12.3 | 14.4 | 16.4 | -    | -     | -    | -     |
| 1100 | 4372 | RPM   | 1569                             | 1639 | 1770 | -    | -    | -     | -    | -     |
|      |      | BHP   | 0.55                             | 0.61 | 0.74 | -    | -    | -     | -    | -     |
|      |      | Sones | 13.3                             | 14.0 | 15.8 | -    | -    | -     | -    | -     |
| 1200 | 4769 | RPM   | 1698                             | -    | -    | -    | -    | -     | -    | -     |
|      |      | BHP   | 0.71                             | -    | -    | -    | -    | -     | -    | -     |
|      |      | Sones | 15.2                             | -    | -    | -    | -    | -     | -    | -     |

Power Ratings (BHP) does not include transmission losses.

Performance certified is for installation type A - free inlet, free outlet.

Performance ratings include the effects of the outlet hood and screen, but do not include the effects of the backdraft dampers or other appurtenances (accessories).

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



S&P, Div. of Soler & Palau Ventilation Group, certifies that the Models RFC 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.

**RFC09**

| CFM  | OV   |       | Static Pressure in Inches (w.g.) |      |      |      |      |       |   |       |
|------|------|-------|----------------------------------|------|------|------|------|-------|---|-------|
|      |      |       | 1/8                              | 1/4  | 1/2  | 3/4  | 1    | 1-1/2 | 2 | 2-1/2 |
| 300  | 680  | RPM   | 461                              | -    | -    | -    | -    | -     | - | -     |
|      |      | BHP   | 0.02                             | -    | -    | -    | -    | -     | - | -     |
|      |      | Sones | 1.2                              | -    | -    | -    | -    | -     | - | -     |
| 400  | 906  | RPM   | 474                              | -    | -    | -    | -    | -     | - | -     |
|      |      | BHP   | 0.03                             | -    | -    | -    | -    | -     | - | -     |
|      |      | Sones | 1.3                              | -    | -    | -    | -    | -     | - | -     |
| 500  | 1133 | RPM   | 507                              | 658  | -    | -    | -    | -     | - | -     |
|      |      | BHP   | 0.04                             | 0.07 | -    | -    | -    | -     | - | -     |
|      |      | Sones | 1.8                              | 3.2  | -    | -    | -    | -     | - | -     |
| 600  | 1359 | RPM   | 551                              | 680  | -    | -    | -    | -     | - | -     |
|      |      | BHP   | 0.05                             | 0.08 | -    | -    | -    | -     | - | -     |
|      |      | Sones | 2.5                              | 3.6  | -    | -    | -    | -     | - | -     |
| 700  | 1586 | RPM   | 601                              | 714  | 929  | -    | -    | -     | - | -     |
|      |      | BHP   | 0.07                             | 0.10 | 0.18 | -    | -    | -     | - | -     |
|      |      | Sones | 3.2                              | 4.1  | 6.4  | -    | -    | -     | - | -     |
| 800  | 1812 | RPM   | 654                              | 756  | 948  | 1132 | -    | -     | - | -     |
|      |      | BHP   | 0.09                             | 0.13 | 0.21 | 0.31 | -    | -     | - | -     |
|      |      | Sones | 3.9                              | 4.7  | 6.7  | 9.2  | -    | -     | - | -     |
| 900  | 2039 | RPM   | 710                              | 804  | 977  | 1145 | 1306 | -     | - | -     |
|      |      | BHP   | 0.12                             | 0.16 | 0.24 | 0.34 | 0.47 | -     | - | -     |
|      |      | Sones | 4.8                              | 5.5  | 7.2  | 9.4  | 11.4 | -     | - | -     |
| 1000 | 2266 | RPM   | 767                              | 854  | 1013 | 1166 | 1316 | -     | - | -     |
|      |      | BHP   | 0.16                             | 0.20 | 0.29 | 0.39 | 0.51 | -     | - | -     |
|      |      | Sones | 5.7                              | 6.3  | 7.9  | 9.7  | 11.6 | -     | - | -     |
| 1100 | 2492 | RPM   | 825                              | 908  | 1055 | 1196 | 1334 | 1599  | - | -     |
|      |      | BHP   | 0.20                             | 0.25 | 0.34 | 0.44 | 0.56 | 0.86  | - | -     |
|      |      | Sones | 6.5                              | 7.2  | 8.7  | 10.2 | 11.9 | 16.1  | - | -     |
| 1200 | 2719 | RPM   | 884                              | 963  | 1101 | 1231 | 1359 | 1608  | - | -     |
|      |      | BHP   | 0.26                             | 0.30 | 0.40 | 0.51 | 0.63 | 0.92  | - | -     |
|      |      | Sones | 7.5                              | 8.1  | 9.5  | 10.9 | 12.3 | 16.3  | - | -     |
| 1300 | 2945 | RPM   | 944                              | 1019 | 1150 | 1272 | 1391 | 1624  | - | -     |
|      |      | BHP   | 0.32                             | 0.37 | 0.47 | 0.58 | 0.70 | 0.99  | - | -     |
|      |      | Sones | 8.4                              | 9.1  | 10.4 | 11.6 | 13.0 | 16.7  | - | -     |
| 1400 | 3172 | RPM   | 1004                             | 1076 | 1201 | 1316 | 1427 | -     | - | -     |
|      |      | BHP   | 0.38                             | 0.44 | 0.55 | 0.67 | 0.79 | -     | - | -     |
|      |      | Sones | 9.5                              | 10.2 | 11.3 | 12.4 | 13.8 | -     | - | -     |
| 1500 | 3398 | RPM   | 1065                             | 1134 | 1254 | 1363 | 1468 | -     | - | -     |
|      |      | BHP   | 0.46                             | 0.52 | 0.64 | 0.76 | 0.89 | -     | - | -     |
|      |      | Sones | 10.7                             | 11.3 | 12.2 | 13.3 | 14.7 | -     | - | -     |
| 1600 | 3625 | RPM   | 1125                             | 1193 | 1308 | 1412 | -    | -     | - | -     |
|      |      | BHP   | 0.55                             | 0.62 | 0.75 | 0.87 | -    | -     | - | -     |
|      |      | Sones | 11.8                             | 12.3 | 13.3 | 14.4 | -    | -     | - | -     |
| 1700 | 3851 | RPM   | 1187                             | 1252 | 1363 | 1463 | -    | -     | - | -     |
|      |      | BHP   | 0.65                             | 0.73 | 0.86 | 0.99 | -    | -     | - | -     |
|      |      | Sones | 12.9                             | 13.4 | 14.4 | 15.5 | -    | -     | - | -     |
| 1800 | 4078 | RPM   | 1249                             | 1312 | 1419 | -    | -    | -     | - | -     |
|      |      | BHP   | 0.76                             | 0.84 | 0.99 | -    | -    | -     | - | -     |
|      |      | Sones | 14.0                             | 14.5 | 15.5 | -    | -    | -     | - | -     |
| 1900 | 4304 | RPM   | 1310                             | 1372 | -    | -    | -    | -     | - | -     |
|      |      | BHP   | 0.89                             | 0.97 | -    | -    | -    | -     | - | -     |
|      |      | Sones | 15.2                             | 15.6 | -    | -    | -    | -     | - | -     |



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Power Ratings (BHP) does not include transmission losses.  
 Performance certified is for installation type A - free inlet, free outlet.  
 Performance ratings include the effects of the outlet hood and screen, but do not include the effects of the backdraft dampers or other appurtenances (accessories).  
 The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.

**RFC10**

| CFM  | OV   |       | Static Pressure in Inches (w.g.) |      |      |      |      |       |      |       |
|------|------|-------|----------------------------------|------|------|------|------|-------|------|-------|
|      |      |       | 1/8                              | 1/4  | 1/2  | 3/4  | 1    | 1-1/2 | 2    | 2-1/2 |
| 400  | 680  | RPM   | 392                              | -    | -    | -    | -    | -     | -    | -     |
|      |      | BHP   | 0.03                             | -    | -    | -    | -    | -     | -    | -     |
|      |      | Sones | 1.4                              | -    | -    | -    | -    | -     | -    | -     |
| 500  | 850  | RPM   | 400                              | -    | -    | -    | -    | -     | -    | -     |
|      |      | BHP   | 0.03                             | -    | -    | -    | -    | -     | -    | -     |
|      |      | Sones | 1.6                              | -    | -    | -    | -    | -     | -    | -     |
| 600  | 1020 | RPM   | 418                              | 556  | -    | -    | -    | -     | -    | -     |
|      |      | BHP   | 0.04                             | 0.07 | -    | -    | -    | -     | -    | -     |
|      |      | Sones | 1.9                              | 3.5  | -    | -    | -    | -     | -    | -     |
| 700  | 1190 | RPM   | 442                              | 565  | -    | -    | -    | -     | -    | -     |
|      |      | BHP   | 0.05                             | 0.08 | -    | -    | -    | -     | -    | -     |
|      |      | Sones | 2.3                              | 3.7  | -    | -    | -    | -     | -    | -     |
| 800  | 1360 | RPM   | 470                              | 581  | 785  | -    | -    | -     | -    | -     |
|      |      | BHP   | 0.06                             | 0.10 | 0.18 | -    | -    | -     | -    | -     |
|      |      | Sones | 2.8                              | 4.0  | 6.9  | -    | -    | -     | -    | -     |
| 900  | 1530 | RPM   | 501                              | 602  | 790  | -    | -    | -     | -    | -     |
|      |      | BHP   | 0.08                             | 0.11 | 0.20 | -    | -    | -     | -    | -     |
|      |      | Sones | 3.3                              | 4.4  | 7.0  | -    | -    | -     | -    | -     |
| 1000 | 1700 | RPM   | 535                              | 627  | 801  | 962  | -    | -     | -    | -     |
|      |      | BHP   | 0.10                             | 0.14 | 0.23 | 0.34 | -    | -     | -    | -     |
|      |      | Sones | 3.9                              | 4.8  | 7.2  | 9.9  | -    | -     | -    | -     |
| 1100 | 1870 | RPM   | 569                              | 655  | 816  | 968  | -    | -     | -    | -     |
|      |      | BHP   | 0.13                             | 0.16 | 0.26 | 0.37 | -    | -     | -    | -     |
|      |      | Sones | 4.5                              | 5.4  | 7.5  | 10.0 | -    | -     | -    | -     |
| 1200 | 2040 | RPM   | 605                              | 686  | 835  | 978  | 1113 | -     | -    | -     |
|      |      | BHP   | 0.16                             | 0.20 | 0.29 | 0.40 | 0.53 | -     | -    | -     |
|      |      | Sones | 5.2                              | 6.0  | 8.0  | 10.2 | 12.5 | -     | -    | -     |
| 1300 | 2211 | RPM   | 642                              | 718  | 858  | 992  | 1120 | -     | -    | -     |
|      |      | BHP   | 0.19                             | 0.23 | 0.33 | 0.45 | 0.58 | -     | -    | -     |
|      |      | Sones | 5.9                              | 6.6  | 8.5  | 10.5 | 12.7 | -     | -    | -     |
| 1400 | 2381 | RPM   | 679                              | 751  | 883  | 1009 | 1131 | 1359  | -    | -     |
|      |      | BHP   | 0.23                             | 0.28 | 0.38 | 0.50 | 0.63 | 0.94  | -    | -     |
|      |      | Sones | 6.6                              | 7.3  | 9.1  | 10.9 | 13.0 | 17.9  | -    | -     |
| 1500 | 2551 | RPM   | 716                              | 785  | 911  | 1030 | 1145 | 1364  | -    | -     |
|      |      | BHP   | 0.27                             | 0.33 | 0.43 | 0.55 | 0.69 | 1.00  | -    | -     |
|      |      | Sones | 7.3                              | 8.0  | 9.8  | 11.4 | 13.4 | 18.0  | -    | -     |
| 1600 | 2721 | RPM   | 754                              | 821  | 940  | 1053 | 1162 | 1372  | 1569 | -     |
|      |      | BHP   | 0.32                             | 0.38 | 0.49 | 0.62 | 0.75 | 1.07  | 1.44 | -     |
|      |      | Sones | 8.1                              | 8.8  | 10.4 | 11.9 | 13.9 | 18.2  | 23   | -     |
| 1700 | 2891 | RPM   | 793                              | 856  | 971  | 1078 | 1182 | 1383  | -    | -     |
|      |      | BHP   | 0.38                             | 0.44 | 0.56 | 0.69 | 0.82 | 1.14  | -    | -     |
|      |      | Sones | 8.8                              | 9.6  | 11.1 | 12.6 | 14.5 | 18.5  | -    | -     |
| 1800 | 3061 | RPM   | 831                              | 893  | 1003 | 1105 | 1204 | 1396  | -    | -     |
|      |      | BHP   | 0.44                             | 0.51 | 0.63 | 0.76 | 0.91 | 1.23  | -    | -     |
|      |      | Sones | 9.7                              | 10.5 | 11.8 | 13.3 | 15.1 | 18.9  | -    | -     |
| 1900 | 3231 | RPM   | 871                              | 930  | 1035 | 1133 | 1228 | 1412  | -    | -     |
|      |      | BHP   | 0.51                             | 0.58 | 0.71 | 0.85 | 1.00 | 1.32  | -    | -     |
|      |      | Sones | 10.7                             | 11.4 | 12.5 | 14.1 | 15.8 | 19.5  | -    | -     |
| 2000 | 3401 | RPM   | 910                              | 967  | 1069 | 1163 | 1254 | 1431  | -    | -     |
|      |      | BHP   | 0.59                             | 0.66 | 0.80 | 0.94 | 1.09 | 1.42  | -    | -     |
|      |      | Sones | 11.7                             | 12.2 | 13.4 | 14.9 | 16.5 | 20    | -    | -     |
| 2100 | 3571 | RPM   | 949                              | 1005 | 1103 | 1194 | 1282 | -     | -    | -     |
|      |      | BHP   | 0.67                             | 0.75 | 0.90 | 1.05 | 1.20 | -     | -    | -     |
|      |      | Sones | 12.5                             | 13.0 | 14.2 | 15.8 | 17.3 | -     | -    | -     |
| 2200 | 3741 | RPM   | 989                              | 1043 | 1138 | 1226 | 1310 | -     | -    | -     |
|      |      | BHP   | 0.77                             | 0.85 | 1.00 | 1.16 | 1.32 | -     | -    | -     |
|      |      | Sones | 13.5                             | 14.0 | 15.2 | 16.6 | 18.1 | -     | -    | -     |
| 2300 | 3911 | RPM   | 1028                             | 1081 | 1174 | 1259 | 1340 | -     | -    | -     |
|      |      | BHP   | 0.87                             | 0.95 | 1.12 | 1.28 | 1.44 | -     | -    | -     |
|      |      | Sones | 14.5                             | 15.0 | 16.0 | 17.5 | 19.0 | -     | -    | -     |
| 2400 | 4081 | RPM   | 1068                             | 1119 | 1210 | 1292 | -    | -     | -    | -     |
|      |      | BHP   | 0.98                             | 1.07 | 1.24 | 1.41 | -    | -     | -    | -     |
|      |      | Sones | 15.4                             | 16.0 | 17.1 | 18.4 | -    | -     | -    | -     |
| 2500 | 4251 | RPM   | 1108                             | 1158 | 1246 | -    | -    | -     | -    | -     |
|      |      | BHP   | 1.10                             | 1.19 | 1.37 | -    | -    | -     | -    | -     |
|      |      | Sones | 16.5                             | 17.1 | 18.0 | -    | -    | -     | -    | -     |
| 2600 | 4421 | RPM   | 1148                             | 1197 | -    | -    | -    | -     | -    | -     |
|      |      | BHP   | 1.22                             | 1.32 | -    | -    | -    | -     | -    | -     |
|      |      | Sones | 17.5                             | 18.1 | -    | -    | -    | -     | -    | -     |
| 2700 | 4591 | RPM   | 1189                             | 1236 | -    | -    | -    | -     | -    | -     |
|      |      | BHP   | 1.36                             | 1.47 | -    | -    | -    | -     | -    | -     |
|      |      | Sones | 18.5                             | 19.1 | -    | -    | -    | -     | -    | -     |

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Power Ratings (BHP) does not include transmission losses.  
 Performance certified is for installation type A - free inlet, free outlet.  
 Performance ratings include the effects of the outlet hood and screen, but do not include the effects of the backdraft dampers or other appurtenances (accessories).  
 The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.

## RFC12

| CFM  | OV   |       | Static Pressure in Inches (w.g.) |      |      |      |      |       |      |       |
|------|------|-------|----------------------------------|------|------|------|------|-------|------|-------|
|      |      |       | 1/8                              | 1/4  | 1/2  | 3/4  | 1    | 1-1/2 | 2    | 2-1/2 |
| 1200 | 1487 | RPM   | 418                              | 511  | 672  | 806  | 922  | 1116  | 1278 | 1419  |
|      |      | BHP   | 0.10                             | 0.14 | 0.25 | 0.38 | 0.53 | 0.87  | 1.24 | 1.64  |
|      |      | Sones | 3.1                              | 4.4  | 7.2  | 9.5  | 11.6 | 16.1  | 20   | 24    |
| 1400 | 1735 | RPM   | 457                              | 540  | 688  | 818  | 932  | 1126  | 1290 | 1433  |
|      |      | BHP   | 0.14                             | 0.19 | 0.30 | 0.44 | 0.60 | 0.95  | 1.34 | 1.77  |
|      |      | Sones | 4.0                              | 5.1  | 7.6  | 9.8  | 11.9 | 16.4  | 21   | 25    |
| 1600 | 1982 | RPM   | 498                              | 574  | 710  | 833  | 943  | 1136  | 1300 | 1444  |
|      |      | BHP   | 0.19                             | 0.25 | 0.37 | 0.51 | 0.67 | 1.04  | 1.45 | 1.90  |
|      |      | Sones | 4.9                              | 5.9  | 8.2  | 10.1 | 12.2 | 16.8  | 21   | 25    |
| 1800 | 2230 | RPM   | 541                              | 611  | 737  | 852  | 958  | 1146  | 1309 | -     |
|      |      | BHP   | 0.26                             | 0.32 | 0.45 | 0.59 | 0.76 | 1.14  | 1.57 | -     |
|      |      | Sones | 5.9                              | 6.9  | 8.8  | 10.7 | 12.6 | 17.2  | 21   | -     |
| 2000 | 2478 | RPM   | 585                              | 650  | 767  | 875  | 975  | 1158  | 1319 | -     |
|      |      | BHP   | 0.34                             | 0.40 | 0.54 | 0.70 | 0.87 | 1.26  | 1.70 | -     |
|      |      | Sones | 6.9                              | 7.9  | 9.6  | 11.3 | 13.2 | 17.6  | 22   | -     |
| 2200 | 2726 | RPM   | 630                              | 691  | 801  | 902  | 997  | 1172  | 1330 | -     |
|      |      | BHP   | 0.43                             | 0.50 | 0.65 | 0.82 | 0.99 | 1.39  | 1.85 | -     |
|      |      | Sones | 8.1                              | 9.0  | 10.4 | 12.1 | 14.0 | 18.1  | 22   | -     |
| 2400 | 2974 | RPM   | 675                              | 733  | 837  | 932  | 1022 | 1190  | -    | -     |
|      |      | BHP   | 0.54                             | 0.62 | 0.79 | 0.96 | 1.14 | 1.55  | -    | -     |
|      |      | Sones | 9.3                              | 10.0 | 11.4 | 12.9 | 14.8 | 18.7  | -    | -     |
| 2600 | 3221 | RPM   | 721                              | 776  | 874  | 964  | 1050 | 1210  | -    | -     |
|      |      | BHP   | 0.67                             | 0.76 | 0.94 | 1.12 | 1.31 | 1.73  | -    | -     |
|      |      | Sones | 10.4                             | 11.1 | 12.4 | 14.0 | 15.8 | 19.5  | -    | -     |
| 2800 | 3469 | RPM   | 768                              | 821  | 914  | 999  | 1081 | 1234  | -    | -     |
|      |      | BHP   | 0.82                             | 0.92 | 1.11 | 1.30 | 1.50 | 1.94  | -    | -     |
|      |      | Sones | 11.6                             | 12.3 | 13.7 | 15.2 | 16.9 | 20    | -    | -     |
| 3000 | 3717 | RPM   | 815                              | 865  | 954  | 1036 | 1113 | -     | -    | -     |
|      |      | BHP   | 0.99                             | 1.10 | 1.31 | 1.51 | 1.72 | -     | -    | -     |
|      |      | Sones | 12.9                             | 13.7 | 15.1 | 16.6 | 18.0 | -     | -    | -     |
| 3200 | 3965 | RPM   | 863                              | 910  | 996  | 1074 | 1148 | -     | -    | -     |
|      |      | BHP   | 1.19                             | 1.31 | 1.53 | 1.74 | 1.96 | -     | -    | -     |
|      |      | Sones | 14.6                             | 15.2 | 16.6 | 17.9 | 19.4 | -     | -    | -     |
| 3400 | 4213 | RPM   | 910                              | 956  | 1038 | 1113 | -    | -     | -    | -     |
|      |      | BHP   | 1.41                             | 1.53 | 1.77 | 2.00 | -    | -     | -    | -     |
|      |      | Sones | 16.1                             | 16.8 | 18.0 | 19.4 | -    | -     | -    | -     |

Power Ratings (BHP) does not include transmission losses.

Performance certified is for installation type A - free inlet, free outlet.

Performance ratings include the effects of the outlet hood and screen, but do not include the effects of the backdraft dampers or other appurtenances (accessories).

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



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## RFC15

| CFM  | OV   |       | Static Pressure in Inches (w.g.) |      |      |      |      |       |      |       |
|------|------|-------|----------------------------------|------|------|------|------|-------|------|-------|
|      |      |       | 1/8                              | 1/4  | 1/2  | 3/4  | 1    | 1-1/2 | 2    | 2-1/2 |
| 1500 | 1425 | RPM   | 349                              | 427  | 561  | 672  | 767  | 927   | 1060 | 1176  |
|      |      | BHP   | 0.11                             | 0.16 | 0.29 | 0.43 | 0.60 | 0.96  | 1.37 | 1.81  |
|      |      | Sones | 3.0                              | 4.3  | 7.2  | 9.6  | 12.4 | 16.8  | 21   | 25    |
| 1750 | 1663 | RPM   | 381                              | 451  | 575  | 682  | 776  | 936   | 1071 | 1188  |
|      |      | BHP   | 0.16                             | 0.21 | 0.34 | 0.50 | 0.67 | 1.06  | 1.49 | 1.96  |
|      |      | Sones | 3.8                              | 4.9  | 7.6  | 9.9  | 12.8 | 17.2  | 22   | 26    |
| 2000 | 1901 | RPM   | 415                              | 479  | 594  | 695  | 787  | 945   | 1080 | 1199  |
|      |      | BHP   | 0.22                             | 0.28 | 0.42 | 0.58 | 0.76 | 1.17  | 1.62 | 2.11  |
|      |      | Sones | 4.7                              | 5.7  | 8.3  | 10.5 | 13.2 | 17.6  | 22   | 27    |
| 2250 | 2138 | RPM   | 451                              | 510  | 616  | 712  | 800  | 955   | 1089 | 1208  |
|      |      | BHP   | 0.29                             | 0.36 | 0.51 | 0.67 | 0.86 | 1.29  | 1.76 | 2.28  |
|      |      | Sones | 5.7                              | 6.7  | 8.9  | 11.2 | 13.7 | 18.0  | 23   | 27    |
| 2500 | 2376 | RPM   | 488                              | 543  | 641  | 731  | 815  | 966   | 1099 | 1217  |
|      |      | BHP   | 0.38                             | 0.45 | 0.61 | 0.79 | 0.98 | 1.42  | 1.92 | 2.45  |
|      |      | Sones | 6.7                              | 7.8  | 9.6  | 12.1 | 14.4 | 18.5  | 23   | 28    |
| 2750 | 2613 | RPM   | 525                              | 577  | 669  | 754  | 833  | 979   | 1109 | 1227  |
|      |      | BHP   | 0.48                             | 0.57 | 0.74 | 0.92 | 1.13 | 1.58  | 2.09 | 2.64  |
|      |      | Sones | 7.8                              | 9.0  | 10.7 | 13.1 | 15.1 | 19.2  | 24   | 28    |
| 3000 | 2851 | RPM   | 563                              | 612  | 699  | 779  | 854  | 994   | 1121 | 1237  |
|      |      | BHP   | 0.61                             | 0.70 | 0.89 | 1.08 | 1.29 | 1.76  | 2.28 | 2.85  |
|      |      | Sones | 9.0                              | 10.0 | 12.0 | 14.2 | 16.0 | 19.9  | 24   | 29    |
| 3250 | 3088 | RPM   | 602                              | 648  | 730  | 806  | 878  | 1012  | 1135 | -     |
|      |      | BHP   | 0.75                             | 0.86 | 1.06 | 1.26 | 1.48 | 1.96  | 2.50 | -     |
|      |      | Sones | 10.2                             | 11.1 | 13.3 | 15.3 | 17.0 | 21    | 25   | -     |
| 3500 | 3326 | RPM   | 641                              | 685  | 763  | 835  | 903  | 1031  | 1150 | -     |
|      |      | BHP   | 0.92                             | 1.03 | 1.25 | 1.47 | 1.70 | 2.20  | 2.75 | -     |
|      |      | Sones | 11.3                             | 12.5 | 14.7 | 16.5 | 18.1 | 22    | 26   | -     |
| 3750 | 3564 | RPM   | 680                              | 722  | 796  | 865  | 930  | 1053  | -    | -     |
|      |      | BHP   | 1.11                             | 1.24 | 1.47 | 1.70 | 1.94 | 2.46  | -    | -     |
|      |      | Sones | 12.7                             | 14.0 | 15.9 | 17.7 | 19.2 | 23    | -    | -     |
| 4000 | 3801 | RPM   | 720                              | 760  | 831  | 897  | 959  | 1077  | -    | -     |
|      |      | BHP   | 1.33                             | 1.47 | 1.71 | 1.96 | 2.21 | 2.75  | -    | -     |
|      |      | Sones | 14.4                             | 15.5 | 17.3 | 18.9 | 20   | 24    | -    | -     |
| 4250 | 4039 | RPM   | 760                              | 798  | 866  | 929  | 989  | -     | -    | -     |
|      |      | BHP   | 1.58                             | 1.72 | 1.99 | 2.25 | 2.51 | -     | -    | -     |
|      |      | Sones | 16.0                             | 16.9 | 18.6 | 20   | 22   | -     | -    | -     |
| 4500 | 4276 | RPM   | 800                              | 837  | 902  | 963  | 1020 | -     | -    | -     |
|      |      | BHP   | 1.86                             | 2.01 | 2.29 | 2.57 | 2.85 | -     | -    | -     |
|      |      | Sones | 17.5                             | 18.4 | 19.9 | 21   | 23   | -     | -    | -     |
| 4750 | 4514 | RPM   | 841                              | 875  | 939  | 997  | -    | -     | -    | -     |
|      |      | BHP   | 2.17                             | 2.33 | 2.63 | 2.92 | -    | -     | -    | -     |
|      |      | Sones | 18.9                             | 19.7 | 21   | 23   | -    | -     | -    | -     |
| 5000 | 4751 | RPM   | 881                              | 915  | 976  | -    | -    | -     | -    | -     |
|      |      | BHP   | 2.51                             | 2.68 | 3.00 | -    | -    | -     | -    | -     |
|      |      | Sones | 20                               | 21   | 23   | -    | -    | -     | -    | -     |



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Performance certified is for installation type A - free inlet, free outlet.

Performance ratings include the effects of the outlet hood and screen, but do not include the effects of the backdraft dampers or other appurtenances (accessories).

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## RFC18

| CFM  | OV   |       | Static Pressure in Inches (w.g.) |      |      |      |      |       |      |       |
|------|------|-------|----------------------------------|------|------|------|------|-------|------|-------|
|      |      |       | 1/8                              | 1/4  | 1/2  | 3/4  | 1    | 1-1/2 | 2    | 2-1/2 |
| 3000 | 2175 | RPM   | 379                              | 427  | 517  | 600  | 680  | 809   | 925  | 1027  |
|      |      | BHP   | 0.36                             | 0.46 | 0.67 | 0.90 | 1.16 | 1.74  | 2.37 | 3.05  |
|      |      | Sones | 5.5                              | 6.5  | 9.4  | 13.2 | 16.9 | 22    | 27   | 34    |
| 3250 | 2357 | RPM   | 403                              | 448  | 532  | 611  | 687  | 817   | 930  | 1032  |
|      |      | BHP   | 0.44                             | 0.54 | 0.76 | 1.01 | 1.28 | 1.88  | 2.53 | 3.24  |
|      |      | Sones | 6.3                              | 7.2  | 10.1 | 13.9 | 17.2 | 22    | 28   | 34    |
| 3500 | 2538 | RPM   | 428                              | 469  | 548  | 624  | 694  | 825   | 935  | 1037  |
|      |      | BHP   | 0.54                             | 0.64 | 0.87 | 1.13 | 1.41 | 2.03  | 2.70 | 3.43  |
|      |      | Sones | 7.1                              | 7.9  | 10.9 | 14.6 | 17.5 | 23    | 28   | 35    |
| 3750 | 2719 | RPM   | 452                              | 491  | 566  | 638  | 705  | 833   | 944  | 1042  |
|      |      | BHP   | 0.65                             | 0.76 | 1.00 | 1.27 | 1.55 | 2.19  | 2.89 | 3.64  |
|      |      | Sones | 7.9                              | 8.7  | 11.7 | 15.3 | 17.9 | 23    | 29   | 35    |
| 4000 | 2900 | RPM   | 477                              | 514  | 585  | 653  | 718  | 842   | 952  | 1048  |
|      |      | BHP   | 0.77                             | 0.89 | 1.14 | 1.41 | 1.71 | 2.37  | 3.09 | 3.86  |
|      |      | Sones | 8.8                              | 9.8  | 12.7 | 16.0 | 18.5 | 24    | 29   | 35    |
| 4250 | 3082 | RPM   | 503                              | 537  | 604  | 669  | 732  | 849   | 960  | 1057  |
|      |      | BHP   | 0.91                             | 1.03 | 1.29 | 1.58 | 1.89 | 2.56  | 3.30 | 4.09  |
|      |      | Sones | 9.9                              | 10.9 | 13.7 | 16.6 | 19.1 | 24    | 30   | 36    |
| 4500 | 3263 | RPM   | 528                              | 561  | 625  | 687  | 746  | 859   | 967  | 1065  |
|      |      | BHP   | 1.06                             | 1.19 | 1.47 | 1.76 | 2.08 | 2.77  | 3.53 | 4.34  |
|      |      | Sones | 11.1                             | 12.2 | 14.9 | 17.4 | 19.6 | 24    | 30   | 37    |
| 4750 | 3444 | RPM   | 554                              | 585  | 646  | 705  | 762  | 871   | 975  | 1073  |
|      |      | BHP   | 1.23                             | 1.37 | 1.66 | 1.96 | 2.29 | 3.00  | 3.78 | 4.61  |
|      |      | Sones | 12.5                             | 13.5 | 15.9 | 18.1 | 20   | 25    | 31   | 37    |
| 5000 | 3626 | RPM   | 580                              | 610  | 668  | 724  | 779  | 884   | 984  | 1081  |
|      |      | BHP   | 1.42                             | 1.56 | 1.86 | 2.18 | 2.52 | 3.25  | 4.05 | 4.90  |
|      |      | Sones | 13.9                             | 15.0 | 16.8 | 18.9 | 21   | 26    | 31   | 38    |
| 5250 | 3807 | RPM   | 606                              | 634  | 690  | 744  | 797  | 898   | 995  | -     |
|      |      | BHP   | 1.63                             | 1.78 | 2.09 | 2.42 | 2.77 | 3.52  | 4.33 | -     |
|      |      | Sones | 15.4                             | 16.4 | 17.7 | 19.7 | 22   | 26    | 32   | -     |
| 5500 | 3988 | RPM   | 632                              | 659  | 712  | 764  | 815  | 913   | 1007 | -     |
|      |      | BHP   | 1.86                             | 2.02 | 2.34 | 2.68 | 3.04 | 3.81  | 4.64 | -     |
|      |      | Sones | 17.0                             | 17.5 | 18.8 | 21   | 23   | 27    | 33   | -     |
| 5750 | 4169 | RPM   | 659                              | 685  | 735  | 785  | 834  | 929   | 1020 | -     |
|      |      | BHP   | 2.11                             | 2.27 | 2.61 | 2.96 | 3.33 | 4.12  | 4.97 | -     |
|      |      | Sones | 18.2                             | 18.7 | 19.8 | 21   | 23   | 28    | 33   | -     |
| 6000 | 4351 | RPM   | 685                              | 710  | 759  | 807  | 854  | 946   | -    | -     |
|      |      | BHP   | 2.38                             | 2.55 | 2.90 | 3.26 | 3.64 | 4.46  | -    | -     |
|      |      | Sones | 19.3                             | 19.9 | 21   | 22   | 24   | 29    | -    | -     |
| 6250 | 4532 | RPM   | 712                              | 736  | 783  | 829  | 874  | 963   | -    | -     |
|      |      | BHP   | 2.68                             | 2.85 | 3.22 | 3.59 | 3.98 | 4.81  | -    | -     |
|      |      | Sones | 21                               | 21   | 22   | 23   | 25   | 30    | -    | -     |
| 6500 | 4713 | RPM   | 738                              | 761  | 807  | 851  | 895  | -     | -    | -     |
|      |      | BHP   | 3.00                             | 3.18 | 3.55 | 3.94 | 4.35 | -     | -    | -     |
|      |      | Sones | 22                               | 22   | 23   | 24   | 26   | -     | -    | -     |
| 6750 | 4894 | RPM   | 765                              | 787  | 831  | 874  | 916  | -     | -    | -     |
|      |      | BHP   | 3.34                             | 3.53 | 3.92 | 4.32 | 4.73 | -     | -    | -     |
|      |      | Sones | 23                               | 23   | 24   | 26   | 27   | -     | -    | -     |
| 7000 | 5076 | RPM   | 792                              | 813  | 855  | 897  | -    | -     | -    | -     |
|      |      | BHP   | 3.71                             | 3.91 | 4.31 | 4.72 | -    | -     | -    | -     |
|      |      | Sones | 24                               | 25   | 26   | 27   | -    | -     | -    | -     |
| 7250 | 5257 | RPM   | 818                              | 839  | 880  | -    | -    | -     | -    | -     |
|      |      | BHP   | 4.11                             | 4.31 | 4.73 | -    | -    | -     | -    | -     |
|      |      | Sones | 26                               | 26   | 27   | -    | -    | -     | -    | -     |
| 7500 | 5438 | RPM   | 845                              | 865  | -    | -    | -    | -     | -    | -     |
|      |      | BHP   | 4.54                             | 4.75 | -    | -    | -    | -     | -    | -     |
|      |      | Sones | 27                               | 27   | -    | -    | -    | -     | -    | -     |
| 7750 | 5620 | RPM   | 872                              | -    | -    | -    | -    | -     | -    | -     |
|      |      | BHP   | 4.99                             | -    | -    | -    | -    | -     | -    | -     |
|      |      | Sones | 28                               | -    | -    | -    | -    | -     | -    | -     |



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