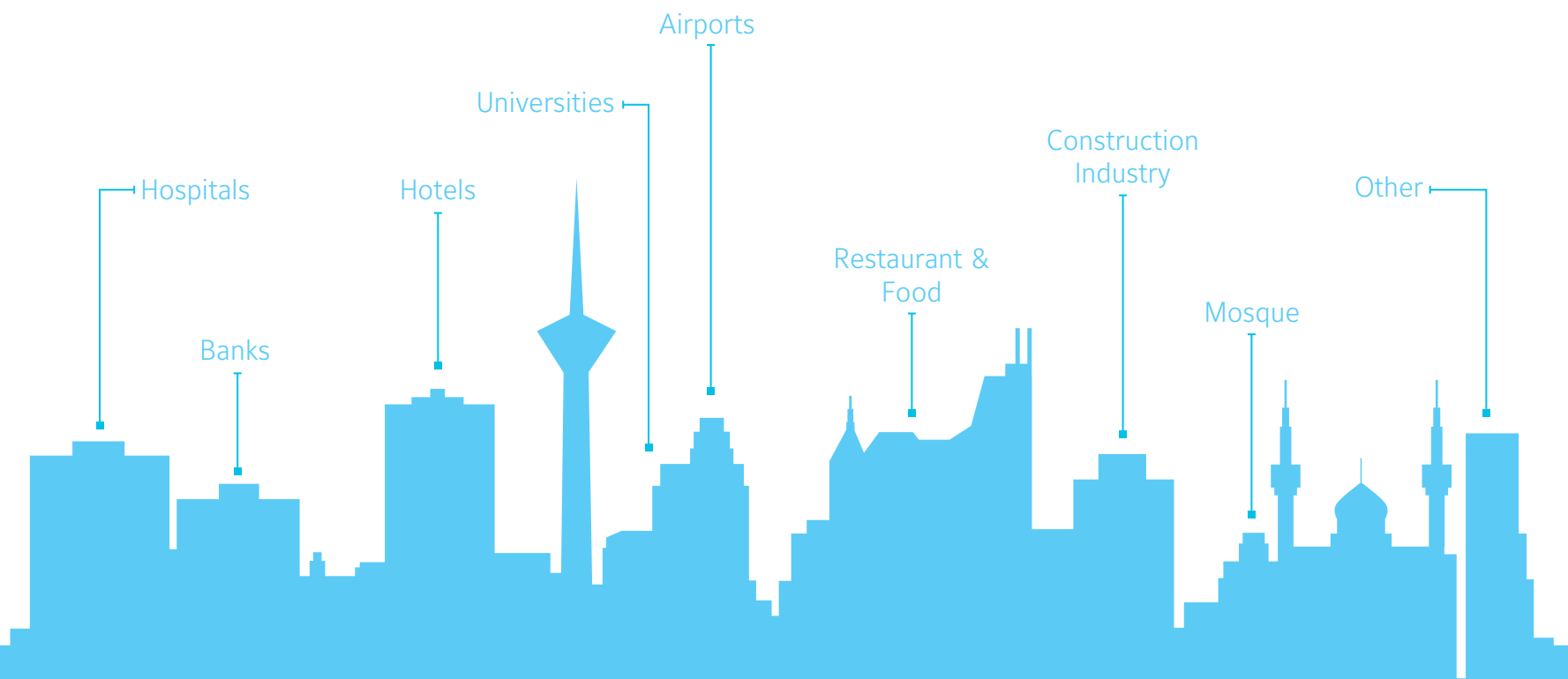




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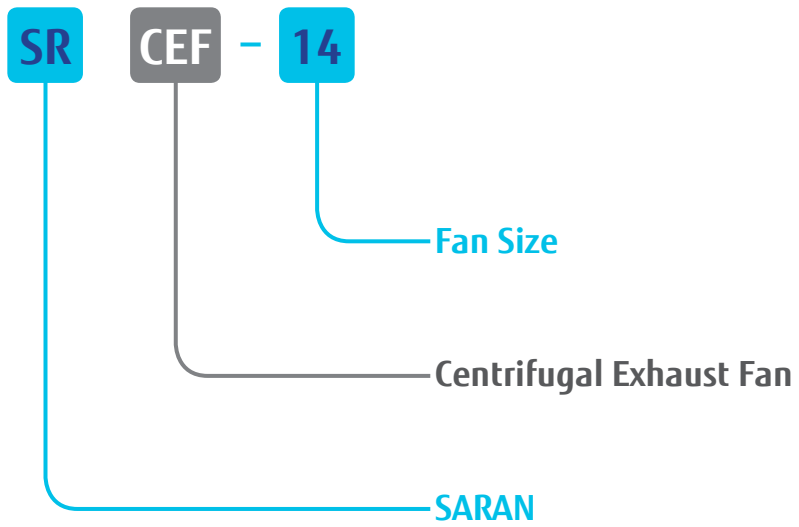


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NOMENCLATURE



Introduction

Saran SWSI Centrifugal Exhaust Fans (Utility Fans) are an excellent choice for general exhaust and supply requirements of commercial and light industrial applications. They are suitable for indoor and outdoor usage, with the addition of a weather cover to enclose the motor and drives. Fan housings are made of heavy gauge galvanized steel and continuously welded to insure longer operating life. The impellers are forward curved type that statically and dynamically balanced for stable non-surge operation.

They are available in two direct drive models covering a flow range from 500 to 3000 CFM and eight belt driven models covering a flow range from 900 to 12000 CFM.

Main Features:

- Heavy gauge galvanized casing and impeller
- Fully welded, high strength and leak-tightness fan housings
- High efficiency forward curved impeller for quiet operation
- Integral motor cover suitable for outdoor installation
- Ability to equipped with damper
- Space saving and light weight
- Low power consumption
- Quick electrical connections
- Application Flexibility (Up blast and top horizontal (front) discharge configuration)

Selection Considerations

For appropriate selection of Saran SWSI Centrifugal Exhaust Fans, strongly recommended to use suggested fan outlet velocity (table-1) in unit selection.

Table 1: Suggested Fan Outlet Velocity (FPM)

| Static Pressure (IN.WG) | Residential Purpose | | Industrial Purpose | |
|-------------------------|---------------------|------|--------------------|------|
| | MIN | MAX | MIN | MAX |
| 0.5 | 800 | 1700 | 1200 | 2200 |
| 0.75 | 900 | 1800 | 1400 | 2400 |
| 1 | 900 | 2000 | 1600 | 2600 |
| 1.5 | 1000 | 2000 | 1800 | 2800 |
| 2 | 1100 | 2000 | 2000 | 3000 |
| 2.5 | 1200 | 2200 | 2100 | 3200 |
| 3 | 1300 | 2400 | 2200 | 3300 |

Table 2: Fan Outlet Area

| Models | Outlet Area (Sq.ft) | Models | Outlet Area (Sq.ft) |
|----------|---------------------|----------|---------------------|
| SRCEF-11 | 0.72 | SRCEF-19 | 2.09 |
| SRCEF-13 | 0.82 | SRCEF-22 | 2.54 |
| SRCEF-14 | 1.2 | SRCEF-26 | 3.33 |
| SRCEF-16 | 1.33 | SRCEF-29 | 4.12 |
| SRCEF-17 | 1.54 | SRCEF-32 | 4.96 |

Performance Correction Factors:

Saran SWSI Centrifugal Exhaust Fans rating data presented in the "Performance Data" curves and tables are based on standard air temperature of 70°F and density of 0.075 lbs/ft³ at sea level, So for other condition, following performance correction factors shall be attended in unit selection:

Table 3: Performance Correction Factors

| Temperature (°F) | Altitude (Feet) | | | | | | | |
|------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
| | 0 | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 |
| 0 | 1.152 | 1.110 | 1.071 | 1.032 | 0.995 | 0.958 | 0.923 | 0.889 |
| 50 | 1.040 | 1.002 | 0.966 | 0.931 | 0.898 | 0.865 | 0.833 | 0.802 |
| 100 | 0.946 | 0.912 | 0.879 | 0.848 | 0.817 | 0.787 | 0.758 | 0.730 |
| 150 | 0.869 | 0.838 | 0.807 | 0.779 | 0.750 | 0.723 | 0.696 | 0.670 |
| 200 | 0.803 | 0.775 | 0.746 | 0.720 | 0.694 | 0.668 | 0.644 | 0.620 |
| 250 | 0.746 | 0.720 | 0.694 | 0.669 | 0.644 | 0.621 | 0.598 | 0.576 |
| 300 | 0.697 | 0.678 | 0.648 | 0.625 | 0.602 | 0.580 | 0.559 | 0.538 |
| 350 | 0.654 | 0.631 | 0.608 | 0.586 | 0.565 | 0.544 | 0.524 | 0.505 |



Selection Example

Given:

Required Air Flow Rate: 4650 CFM

Static Pressure Drop = 1 IN.W.G

Altitude: 4000 feet

Air Temperature: 150°F

Application type = Industrial purpose

Step1: Appropriate Fan Outlet Area Calculation

In first step we need to calculate appropriate fan outlet area based on our application type and required static pressure drop. By referring to table1, we can see average suggested fan outlet velocity in our condition (S.P. = 1 IN.W.G and Industrial purpose) is 2100 FPM, so we have:

$$\text{Appropriate Fan Outlet Area} = \frac{\text{Air Flow Rate (CFM)}}{\text{Suggested Fan Outlet Velocity (FPM)}} = \frac{4650}{2100} = 2.21 \text{ SqFt}$$

Step2: Appropriate Fan Selection

By referring to table2, we can see outlet area of SRCEF-22 is nearest value to obtained fan outlet area in pervious step, so we select this model in this problem.

Step3: Performance Adjustment Factors Consideration

Because of Saran SWSI Centrifugal Exhaust Fans rating data presented in the "Performance Data" curves and tables are based on standard air temperature of 70°F and density of 0.075 lbs/ft³ at sea level, for our condition in this problem, we shall be consider denoted correction factors in table3, so we have:

$$\text{Equivalent S.P.} = \frac{\text{Required S.P.}}{\text{Correction Factor (Table3)}} = \frac{1.00}{0.75} = 1.33 \text{ IN.WG}$$

Step4: Fan Speed and Motor Power Determining

By referring to performance table of SRCEF-22, we can see required fan speed and motor power in our conditions (Air Flow Rate = 4650 CFM & Equivalent S.P.=1.33 IN.WG) are 520 RPM and 1.67 HP, respectively. In order to determine the motor power at the specified condition, we shall be multiply the required equivalent BHP by the obtained correction factor in pervious step, so we have:

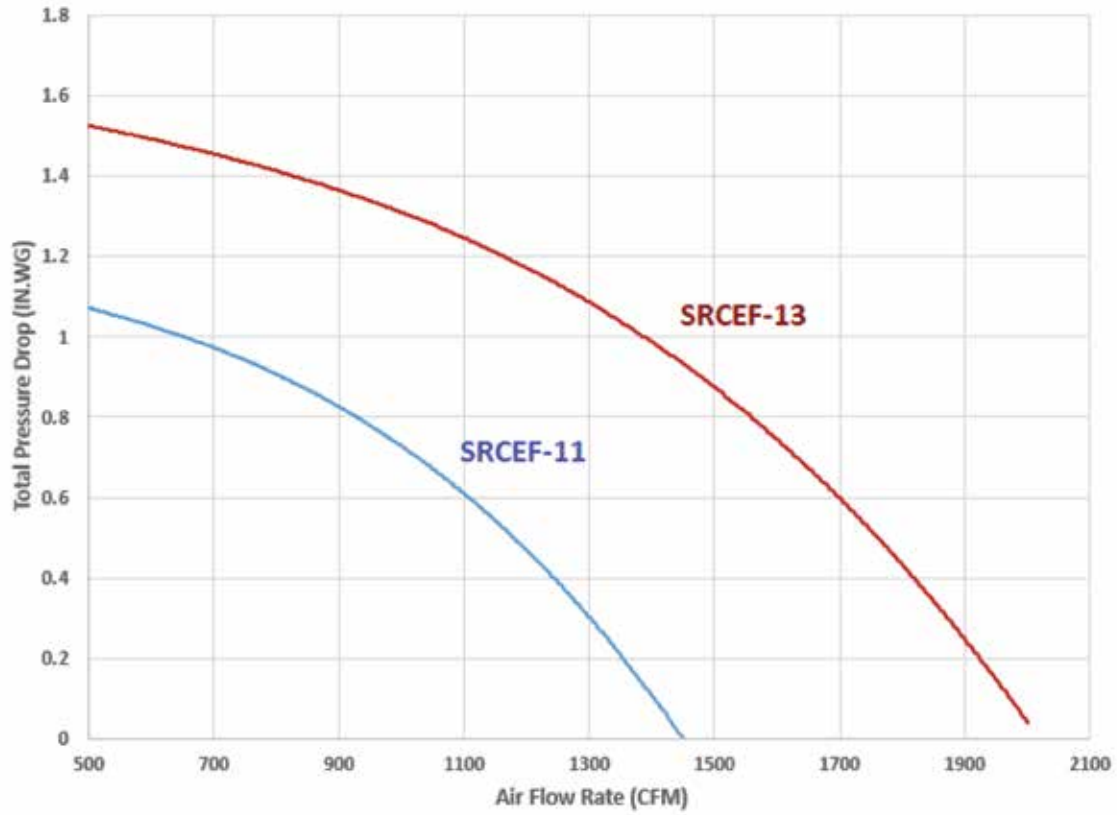
$$\text{BHP} = 1.67 \times 0.75 = 1.25$$

Because of BHP values in belt driven fans performance tables, indicate the fan absorbed power. In order to determine motor power required multiply the BHP by a factor of 1.25, so required motor power will be:

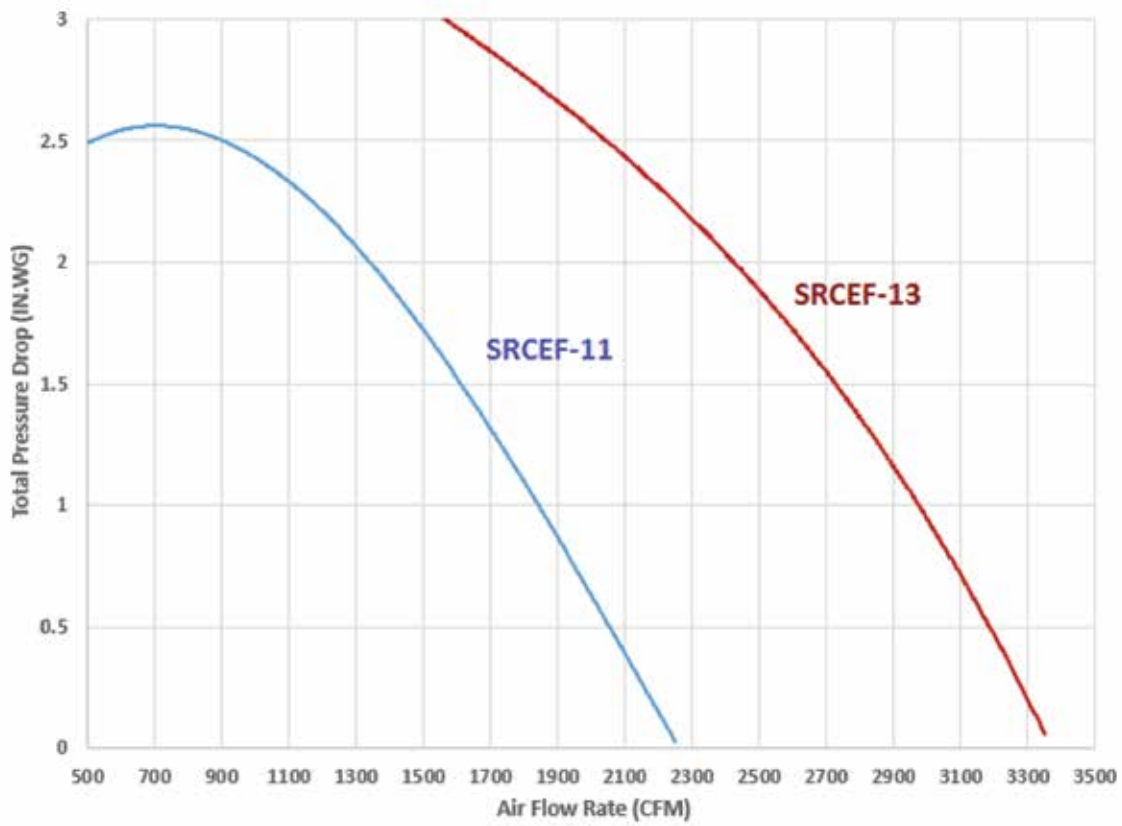
$$\text{Motor power required} = \text{BHP} \times 1.25 = 1.25 \times 1.25 = 1.56 \text{ HP} \approx 2 \text{ HP}$$

Performance Data (Direct Drive Type)

Performance Curve of Direct Drive Centrifugal Exhaust Fans (900 RPM)



Performance Curve of Direct Drive Centrifugal Exhaust Fans (1400 RPM)



Performance Data (Belt Driven Type)

Table 4a: Performance Data (SRCEF-14)

| Air Flow Rate (CFM) | Outlet Velocity (FPM) | 0.5 InWG | | 0.75 InWG | | 1.0 InWG | | 1.25 InWG | | 1.5 InWG | | 2.0 InWG | | 2.5 InWG | |
|---------------------|-----------------------|----------|------|-----------|------|----------|------|-----------|------|----------|------|----------|------|----------|------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 900 | 750 | 489 | 0.12 | 596 | 0.18 | | | | | | | | | | |
| 1000 | 833 | 501 | 0.14 | 597 | 0.19 | 682 | 0.25 | | | | | | | | |
| 1200 | 1000 | 532 | 0.18 | 611 | 0.24 | 690 | 0.31 | 760 | 0.38 | 840 | 0.46 | | | | |
| 1400 | 1166 | 570 | 0.25 | 640 | 0.31 | 706 | 0.38 | 773 | 0.45 | 842 | 0.54 | 972 | 0.72 | | |
| 1600 | 1333 | 611 | 0.32 | 676 | 0.39 | 735 | 0.47 | 793 | 0.54 | 852 | 0.63 | 972 | 0.82 | 1084 | 1.02 |
| 1800 | 1500 | 653 | 0.42 | 715 | 0.50 | 771 | 0.58 | 824 | 0.66 | 875 | 0.74 | 979 | 0.93 | 1086 | 1.15 |
| 2000 | 1666 | 696 | 0.53 | 757 | 0.62 | 811 | 0.71 | 860 | 0.80 | 907 | 0.88 | 1000 | 1.08 | 1094 | 1.29 |
| 2200 | 1833 | 739 | 0.66 | 799 | 0.77 | 851 | 0.86 | 899 | 0.96 | 944 | 1.05 | 1029 | 1.25 | 1113 | 1.47 |
| 2400 | 2000 | | | 842 | 0.94 | 893 | 1.04 | 939 | 1.14 | 983 | 1.24 | 1064 | 1.46 | 1141 | 1.68 |
| 2600 | 2166 | | | 885 | 1.12 | 935 | 1.24 | 981 | 1.35 | 1023 | 1.46 | 1101 | 1.69 | 1174 | 1.92 |
| 2800 | 2250 | | | | | 979 | 1.47 | 1023 | 1.59 | 1065 | 1.71 | 1141 | 1.96 | 1211 | 2.20 |
| 3000 | 2333 | | | | | 1023 | 1.72 | 1066 | 1.86 | 1107 | 1.99 | 1181 | 2.25 | 1249 | 2.51 |
| 3200 | 2666 | | | | | | | 1109 | 2.17 | 1149 | 2.30 | 1222 | 2.58 | 1289 | 2.85 |
| 3400 | 2833 | | | | | | | 1152 | 2.49 | 1192 | 2.65 | 1264 | 2.94 | 1330 | 3.23 |
| 3600 | 3000 | | | | | | | | | 1236 | 3.03 | 1307 | 3.34 | 1371 | 3.65 |
| 3800 | 3166 | | | | | | | | | 1280 | 3.44 | 1349 | 3.78 | 1413 | 4.10 |
| 4000 | 3333 | | | | | | | | | | | 1393 | 4.26 | 1456 | 4.60 |
| 4200 | 3500 | | | | | | | | | | | 1437 | 4.78 | 1498 | 5.14 |
| 4400 | 3666 | | | | | | | | | | | 1481 | 5.33 | 1541 | 5.73 |
| 4600 | 3833 | | | | | | | | | | | | | 1585 | 6.36 |
| 4700 | 3916 | | | | | | | | | | | | | 1607 | 6.69 |

| Volume of Air (CFM) | Outlet Velocity (FPM) | 3.0 InWG | | 3.5 InWG | | 4.0 InWG | | 5.0 InWG | | 6.0 InWG | | 7.0 InWG | | 8.0 InWG | |
|---------------------|-----------------------|----------|------|----------|------|----------|------|----------|-------|----------|------|----------|-------|----------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 900 | 750 | | | | | | | | | | | | | | |
| 1000 | 833 | | | | | | | | | | | | | | |
| 1200 | 1000 | | | | | | | | | | | | | | |
| 1400 | 1166 | | | | | | | | | | | | | | |
| 1500 | 1333 | | | | | | | | | | | | | | |
| 1800 | 1500 | 1186 | 1.37 | | | | | | | | | | | | |
| 2000 | 1666 | 1189 | 1.53 | 1280 | 1.77 | | | | | | | | | | |
| 2200 | 1833 | 1199 | 1.70 | 1285 | 1.96 | 1368 | 2.22 | | | | | | | | |
| 2400 | 2000 | 1219 | 1.92 | 1296 | 2.18 | 1376 | 2.45 | 1531 | 3.04 | | | | | | |
| 2600 | 2166 | 1246 | 2.17 | 1317 | 2.43 | 1389 | 2.70 | 1535 | 3.31 | | | | | | |
| 2800 | 2250 | 1278 | 2.45 | 1344 | 2.72 | 1410 | 2.99 | 1544 | 3.60 | 1682 | 4.25 | | | | |
| 3000 | 2333 | 1313 | 2.77 | 1376 | 3.05 | 1438 | 3.33 | 1561 | 3.92 | 1687 | 4.61 | 1811 | 5.31 | | |
| 3200 | 2666 | 1351 | 3.13 | 1411 | 3.41 | 1470 | 3.71 | 1585 | 4.32 | 1702 | 4.99 | 1820 | 5.72 | 1937 | 6.48 |
| 3400 | 2833 | 1391 | 3.53 | 1449 | 3.82 | 1505 | 4.12 | 1614 | 4.75 | 1723 | 5.43 | 1833 | 6.15 | 1945 | 6.94 |
| 3600 | 3000 | 1431 | 3.96 | 1488 | 4.27 | 1542 | 4.58 | 1647 | 5.23 | 1750 | 5.91 | 1853 | 6.65 | 1957 | 7.43 |
| 3800 | 3166 | 1472 | 4.43 | 1528 | 4.76 | 1581 | 5.09 | 1682 | 5.76 | 1780 | 6.46 | 1877 | 7.19 | 1975 | 7.98 |
| 4000 | 3333 | 1514 | 4.94 | 1569 | 5.29 | 1621 | 5.63 | 1720 | 6.33 | 1814 | 7.05 | 1906 | 7.80 | 1999 | 8.58 |
| 4200 | 3500 | 1558 | 5.50 | 1610 | 5.86 | 1661 | 6.22 | 1758 | 6.95 | 1849 | 7.69 | 1938 | 8.46 | 2027 | 9.25 |
| 4400 | 3666 | 1598 | 6.10 | 1652 | 6.48 | 1703 | 6.86 | 1798 | 7.62 | 1887 | 8.39 | 1973 | 9.17 | 2058 | 9.98 |
| 4600 | 3833 | 1641 | 6.75 | 1694 | 7.15 | 1745 | 7.55 | 1838 | 8.34 | 1925 | 9.13 | 2009 | 9.94 | 2091 | 10.77 |
| 4700 | 3916 | 1663 | 7.09 | 1716 | 7.50 | 1766 | 7.90 | 1859 | 8.071 | 1945 | 9.52 | 2028 | 10.34 | 2109 | 11.18 |

NOTE
 Outlet Area= 1.2ft² Wheel Dia.=14.625Inch Tip Speed=RPM×3.85
 Max Wheel RPM: Des.1= 1558, Des.2= 1818, Des.3= 2078

Performance Data (Belt Driven Type)

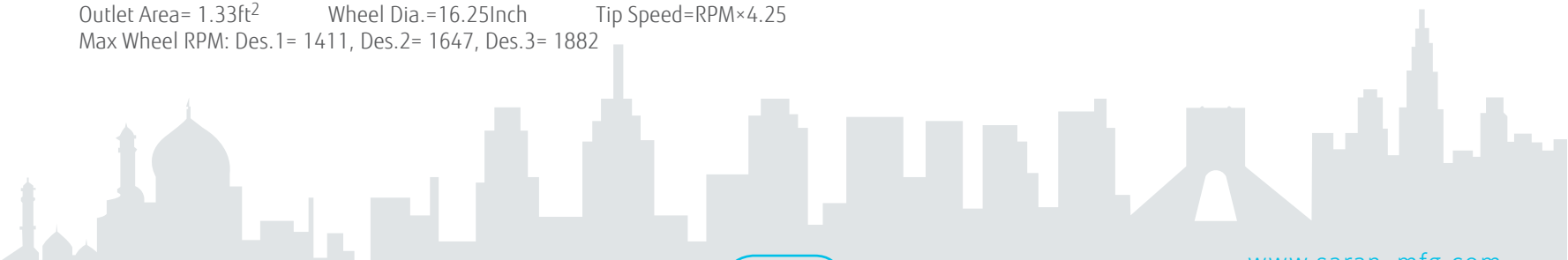
Table 4b: Performance Data (SRCEF-16)

| Air Flow Rate (CFM) | Outlet Velocity (FPM) | 0.5 InWG | | 0.75 InWG | | 1 InWG | | 1.25 InWG | | 1.5 InWG | | 2 InWG | | 2.5 InWG | |
|---------------------|-----------------------|----------|------|-----------|------|--------|------|-----------|------|----------|------|--------|------|----------|------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 1000 | 752 | 432 | 0.13 | 583 | 0.20 | | | | | | | | | | |
| 1100 | 827 | 437 | 0.14 | 533 | 0.21 | 621 | 0.29 | | | | | | | | |
| 1300 | 977 | 452 | 0.18 | 532 | 0.25 | 614 | 0.33 | 689 | 0.42 | 768 | 0.52 | | | | |
| 1500 | 1128 | 476 | 0.23 | 545 | 0.30 | 614 | 0.38 | 685 | 0.48 | 756 | 0.58 | 887 | 0.80 | | |
| 1700 | 1278 | 504 | 0.29 | 566 | 0.37 | 626 | 0.45 | 687 | 0.54 | 750 | 0.64 | 874 | 0.88 | | |
| 1900 | 1428 | 533 | 0.37 | 592 | 0.45 | 646 | 0.53 | 700 | 0.63 | 755 | 0.73 | 866 | 0.96 | 972 | 1.22 |
| 2100 | 1579 | 563 | 0.45 | 620 | 0.54 | 671 | 0.63 | 720 | 0.73 | 768 | 0.83 | 867 | 1.06 | 968 | 1.33 |
| 2300 | 1729 | | | 649 | 0.65 | 698 | 0.75 | 744 | 0.85 | 788 | 0.96 | 877 | 1.19 | 968 | 1.45 |
| 2500 | 1880 | | | 679 | 0.78 | 726 | 0.88 | 770 | 0.99 | 812 | 1.10 | 894 | 1.34 | 976 | 1.60 |
| 2700 | 2030 | | | 709 | 0.92 | 756 | 1.04 | 798 | 1.15 | 838 | 1.27 | 915 | 1.51 | 990 | 1.78 |
| 2900 | 2180 | | | 740 | 1.08 | 786 | 1.21 | 828 | 1.33 | 866 | 1.46 | 939 | 1.71 | 1010 | 1.98 |
| 3100 | 2331 | | | | | 817 | 1.40 | 858 | 1.53 | 895 | 1.67 | 966 | 1.93 | 1033 | 2.21 |
| 3300 | 2481 | | | | | 847 | 1.60 | 888 | 1.75 | 925 | 1.90 | 994 | 2.18 | 1058 | 2.47 |
| 3500 | 2631 | | | | | | | 918 | 2.00 | 955 | 2.15 | 1022 | 2.45 | 1084 | 2.75 |
| 3700 | 2782 | | | | | | | 949 | 2.26 | 985 | 2.43 | 1052 | 2.74 | 1112 | 3.06 |
| 3900 | 2932 | | | | | | | | | 1016 | 2.74 | 1082 | 3.06 | 1141 | 3.40 |
| 4100 | 3083 | | | | | | | | | 1048 | 3.05 | 1112 | 3.41 | 1170 | 3.76 |
| 4300 | 3233 | | | | | | | | | | | 1142 | 3.79 | 1200 | 4.16 |
| 4500 | 3383 | | | | | | | | | | | 1173 | 4.20 | 1230 | 4.58 |
| 4700 | 3534 | | | | | | | | | | | 1204 | 4.62 | 1261 | 5.04 |
| 4900 | 3684 | | | | | | | | | | | | | 1291 | 5.52 |

| Volume of Air (CFM) | Outlet Velocity (FPM) | 3.0 InWG | | 3.5 InWG | | 4.0 InWG | | 5.0 InWG | | 6.0 InWG | | 7.0 InWG | | 8.0 InWG | |
|---------------------|-----------------------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 1000 | 752 | | | | | | | | | | | | | | |
| 1100 | 827 | | | | | | | | | | | | | | |
| 1300 | 977 | | | | | | | | | | | | | | |
| 1500 | 1128 | | | | | | | | | | | | | | |
| 1700 | 1278 | | | | | | | | | | | | | | |
| 1900 | 1428 | | | | | | | | | | | | | | |
| 2100 | 1579 | 1065 | 1.62 | 1165 | 1.94 | | | | | | | | | | |
| 2300 | 1729 | 1060 | 1.75 | 1153 | 2.07 | 1240 | 2.40 | | | | | | | | |
| 2500 | 1880 | 1060 | 1.89 | 1145 | 2.21 | 1230 | 2.56 | | | | | | | | |
| 2700 | 2030 | 1067 | 2.07 | 1144 | 2.38 | 1223 | 2.73 | 1377 | 3.47 | | | | | | |
| 2900 | 2180 | 1080 | 2.27 | 1151 | 2.58 | 1224 | 2.92 | 1370 | 3.68 | 1513 | 4.50 | | | | |
| 3100 | 2331 | 1098 | 2.50 | 1164 | 2.82 | 1231 | 3.16 | 1367 | 3.90 | 1504 | 4.74 | | | | |
| 3300 | 2481 | 1119 | 2.77 | 1181 | 3.08 | 1243 | 3.42 | 1369 | 4.17 | 1498 | 5.00 | 1624 | 5.89 | | |
| 3500 | 2631 | 1144 | 3.06 | 1202 | 3.38 | 1260 | 3.72 | 1377 | 4.46 | 1497 | 5.29 | 1619 | 6.19 | 1738 | 7.16 |
| 3700 | 2782 | 1170 | 3.38 | 1225 | 3.71 | 1281 | 4.06 | 1391 | 4.80 | 1503 | 5.62 | 1617 | 6.52 | 1732 | 7.50 |
| 3900 | 2932 | 1197 | 3.73 | 1251 | 4.07 | 1303 | 4.43 | 1408 | 5.17 | 1513 | 5.99 | 1620 | 6.89 | 1728 | 7.86 |
| 4100 | 3083 | 1225 | 4.11 | 1277 | 4.47 | 1328 | 4.83 | 1427 | 5.59 | 1527 | 6.41 | 1628 | 7.30 | 1730 | 8.26 |
| 4300 | 3233 | 1254 | 4.52 | 1305 | 4.89 | 1354 | 5.26 | 1450 | 6.04 | 1544 | 6.87 | 1640 | 7.76 | 1736 | 8.71 |
| 4500 | 3383 | 1283 | 4.96 | 1333 | 5.35 | 1382 | 5.73 | 1474 | 6.53 | 1565 | 7.37 | 1655 | 8.26 | 1747 | 9.22 |
| 4700 | 3534 | 1313 | 5.44 | 1362 | 5.83 | 1410 | 6.24 | 1500 | 7.06 | 1587 | 7.91 | 1674 | 8.81 | 1760 | 9.77 |
| 4900 | 3684 | 1343 | 5.94 | 1392 | 6.36 | 1438 | 6.77 | 1527 | 7.62 | 1611 | 8.49 | 1694 | 9.41 | 1777 | 10.37 |

NOTE

Outlet Area= 1.33ft² Wheel Dia.=16.25Inch Tip Speed=RPM×4.25
 Max Wheel RPM: Des.1= 1411, Des.2= 1647, Des.3= 1882



Performance Data (Belt Driven Type)

Table 4c: Performance Data (SRCEF-17)

| Volume of Air (CFM) | Outlet Velocity (FPM) | 0.5 InWG | | 0.75 InWG | | 1.0 InWG | | 1.25 InWG | | 1.5 InWG | | 2.0 InWG | | 2.5 InWG | |
|---------------------|-----------------------|----------|------|-----------|------|----------|------|-----------|------|----------|------|----------|------|----------|------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 1250 | 814 | 393 | 0.16 | 487 | 0.24 | | | | | | | | | | |
| 1375 | 896 | 399 | 0.18 | 484 | 0.26 | 560 | 0.36 | | | | | | | | |
| 1625 | 1059 | 415 | 0.23 | 485 | 0.31 | 557 | 0.41 | 623 | 0.52 | 693 | 0.63 | | | | |
| 1875 | 1221 | 439 | 0.29 | 499 | 0.38 | 560 | 0.48 | 622 | 0.59 | 685 | 0.72 | 802 | 0.98 | | |
| 2125 | 1384 | 465 | 0.38 | 521 | 0.47 | 574 | 0.57 | 627 | 0.68 | 682 | 0.81 | 792 | 1.09 | 895 | 1.40 |
| 2375 | 1547 | 493 | 0.47 | 546 | 0.57 | 594 | 0.68 | 641 | 0.79 | 689 | 0.92 | 786 | 1.20 | 885 | 1.52 |
| 2625 | 1710 | 522 | 0.59 | 573 | 0.70 | 618 | 0.81 | 661 | 0.93 | 704 | 1.06 | 790 | 1.34 | 879 | 1.66 |
| 2875 | 1873 | 550 | 0.71 | 601 | 0.84 | 644 | 0.97 | 685 | 1.09 | 724 | 1.22 | 802 | 1.50 | 882 | 1.82 |
| 3125 | 2036 | | | 629 | 1.01 | 672 | 1.14 | 711 | 1.28 | 748 | 1.41 | 820 | 1.70 | 892 | 2.02 |
| 3375 | 2199 | | | 657 | 1.20 | 700 | 1.34 | 738 | 1.49 | 773 | 1.63 | 841 | 1.83 | 908 | 2.26 |
| 3625 | 2361 | | | 686 | 1.40 | 728 | 1.57 | 766 | 1.73 | 800 | 1.88 | 865 | 2.19 | 927 | 2.52 |
| 3875 | 2524 | | | | | 756 | 1.82 | 794 | 1.99 | 828 | 2.15 | 891 | 2.49 | 950 | 2.83 |
| 4125 | 2687 | | | | | 785 | 2.09 | 822 | 2.28 | 856 | 2.46 | 917 | 2.81 | 974 | 3.16 |
| 4375 | 2850 | | | | | | | 851 | 2.61 | 884 | 2.79 | 945 | 3.16 | 1000 | 3.54 |
| 4625 | 3013 | | | | | | | 880 | 2.95 | 913 | 3.16 | 973 | 3.55 | 1027 | 3.94 |
| 4875 | 3176 | | | | | | | | | 942 | 3.56 | 1001 | 3.98 | 1054 | 4.39 |
| 5125 | 3339 | | | | | | | | | 927 | 3.98 | 1029 | 4.43 | 1082 | 4.87 |
| 5375 | 3502 | | | | | | | | | | | 1058 | 4.93 | 1111 | 5.39 |
| 5625 | 3665 | | | | | | | | | | | 1087 | 5.47 | 1139 | 5.95 |
| 5875 | 3827 | | | | | | | | | | | 1116 | 6.03 | 1167 | 6.55 |
| 6125 | 3990 | | | | | | | | | | | | | 1196 | 7.19 |

| Volume of Air (CFM) | Outlet Velocity (FPM) | 3.0 InWG | | 3.5 InWG | | 4.0 InWG | | 5.0 InWG | | 6.0 InWG | | 7.0 InWG | | 8.0 InWG | |
|---------------------|-----------------------|----------|------|----------|------|----------|------|----------|-------|----------|-------|----------|-------|----------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 1250 | 814 | | | | | | | | | | | | | | |
| 1375 | 896 | | | | | | | | | | | | | | |
| 1625 | 1059 | | | | | | | | | | | | | | |
| 1875 | 1221 | | | | | | | | | | | | | | |
| 2125 | 1384 | | | | | | | | | | | | | | |
| 2375 | 1547 | 977 | 1.87 | | | | | | | | | | | | |
| 2625 | 1710 | 968 | 2.01 | 1053 | 2.39 | | | | | | | | | | |
| 2875 | 1873 | 963 | 2.18 | 1044 | 2.56 | 1121 | 2.97 | | | | | | | | |
| 3125 | 2036 | 965 | 2.37 | 1040 | 2.76 | 1114 | 3.17 | | | | | | | | |
| 3375 | 2199 | 975 | 2.61 | 1043 | 2.99 | 1111 | 3.40 | 1246 | 4.30 | | | | | | |
| 3625 | 2361 | 989 | 2.88 | 1052 | 3.26 | 1115 | 3.67 | 1243 | 4.58 | 1370 | 5.57 | | | | |
| 3875 | 2524 | 1008 | 3.19 | 1066 | 3.57 | 1124 | 3.98 | 1243 | 4.88 | 1364 | 5.89 | | | | |
| 4125 | 2687 | 1029 | 3.54 | 1084 | 3.92 | 1138 | 4.34 | 1248 | 5.023 | 1361 | 6.23 | 1472 | 7.31 | | |
| 4375 | 2850 | 1053 | 3.92 | 1105 | 4.32 | 1156 | 4.74 | 1259 | 5.63 | 1363 | 6.63 | 1470 | 7.72 | 1574 | 8.87 |
| 4625 | 3013 | 1078 | 4.35 | 1128 | 4.75 | 1177 | 5.18 | 1273 | 6.08 | 1371 | 7.07 | 1471 | 8.15 | 1572 | 9.33 |
| 4875 | 3176 | 1104 | 4.81 | 1152 | 5.23 | 1199 | 5.67 | 1291 | 6.58 | 1383 | 7.57 | 1477 | 8.65 | 1572 | 9.81 |
| 5125 | 3339 | 1131 | 5.31 | 1178 | 5.75 | 1223 | 6.20 | 1311 | 7.13 | 1398 | 8.13 | 1487 | 9.20 | 1576 | 10.28 |
| 5375 | 3502 | 1159 | 5.85 | 1205 | 6.31 | 1249 | 6.77 | 1333 | 7.73 | 1417 | 8.74 | 1500 | 9.81 | 1585 | 10.97 |
| 5625 | 3665 | 1187 | 6.43 | 1232 | 6.91 | 1275 | 7.39 | 1357 | 8.37 | 1437 | 9.40 | 1571 | 10.49 | 1597 | 11.64 |
| 5875 | 3827 | 1215 | 7.05 | 1260 | 7.55 | 1302 | 8.05 | 1382 | 9.07 | 1459 | 10.12 | 1536 | 11.22 | 1612 | 12.38 |
| 6125 | 3990 | 1243 | 7.72 | 1288 | 8.37 | 1329 | 8.76 | 1408 | 9.81 | 1483 | 10.88 | 1557 | 12.00 | 1630 | 13.17 |

NOTE — Outlet Area=1.54ft² Wheel Dia.=17.875Inch Tip Speed=RPM×4.69
 Max Wheel RPM: Des.1= 1279, Des.2= 1492, Des.3= 1706

Performance Data (Belt Driven Type)

Table 4d: Performance Data (SRCEF-19)

| Air Flow Rate (CFM) | Outlet Velocity (FPM) | 0.5 InWG | | 0.75 InWG | | 1.0 InWG | | 1.25 InWG | | 1.5 InWG | | 2.0 InWG | | 2.5 InWG | |
|---------------------|-----------------------|----------|------|-----------|------|----------|------|-----------|------|----------|------|----------|------|----------|------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 1500 | 718 | 374 | 0.20 | 467 | 0.31 | | | | | | | | | | |
| 1650 | 789 | 371 | 0.21 | 463 | 0.33 | 542 | 0.46 | 606 | 0.59 | | | | | | |
| 1950 | 933 | 371 | 0.26 | 455 | 0.38 | 534 | 0.52 | 602 | 0.67 | 663 | 0.82 | | | | |
| 2250 | 1076 | 381 | 0.31 | 452 | 0.43 | 526 | 0.58 | 595 | 0.74 | 657 | 0.91 | 766 | 1.26 | | |
| 2550 | 1220 | 396 | 0.39 | 458 | 0.51 | 522 | 0.65 | 587 | 0.82 | 649 | 1.00 | 760 | 1.38 | 856 | 1.78 |
| 2850 | 1364 | 413 | 0.47 | 471 | 0.60 | 526 | 0.74 | 583 | 0.91 | 641 | 1.09 | 752 | 1.50 | 850 | 1.93 |
| 3150 | 1507 | 432 | 0.58 | 486 | 0.72 | 537 | 0.86 | 587 | 1.02 | 639 | 1.20 | 744 | 1.62 | 842 | 2.08 |
| 3450 | 1651 | 452 | 0.69 | 504 | 0.85 | 552 | 1.00 | 597 | 1.17 | 643 | 1.34 | 738 | 1.75 | 833 | 2.23 |
| 3750 | 1749 | | | 522 | 1.00 | 568 | 1.16 | 611 | 1.34 | 653 | 1.51 | 738 | 1.92 | 826 | 2.39 |
| 4050 | 1938 | | | 541 | 1.17 | 586 | 1.34 | 627 | 1.53 | 666 | 1.71 | 744 | 2.11 | 824 | 2.57 |
| 4350 | 2081 | | | 562 | 1.36 | 604 | 1.55 | 644 | 1.74 | 682 | 1.93 | 755 | 2.35 | 828 | 2.80 |
| 4650 | 2225 | | | | | 623 | 1.78 | 662 | 1.98 | 699 | 2.18 | 768 | 2.61 | 836 | 3.06 |
| 4950 | 2368 | | | | | 644 | 2.03 | 680 | 2.25 | 716 | 2.46 | 784 | 2.90 | 847 | 3.37 |
| 5250 | 2512 | | | | | | | 700 | 2.54 | 734 | 2.76 | 800 | 3.22 | 861 | 3.70 |
| 5550 | 2655 | | | | | | | 721 | 2.85 | 754 | 3.10 | 817 | 3.57 | 877 | 4.07 |
| 5850 | 2799 | | | | | | | | | 774 | 3.45 | 835 | 3.96 | 893 | 4.48 |
| 6150 | 2943 | | | | | | | | | | | 853 | 4.37 | 910 | 4.91 |
| 6450 | 3086 | | | | | | | | | | | 873 | 4.83 | 928 | 5.38 |
| 6750 | 3230 | | | | | | | | | | | 893 | 5.32 | 947 | 5.39 |
| 7050 | 3373 | | | | | | | | | | | 914 | 5.84 | 965 | 6.44 |
| 7350 | 3517 | | | | | | | | | | | | | 985 | 7.03 |

| Volume of Air (CFM) | Outlet Velocity (FPM) | 3.0 InWG | | 3.5 InWG | | 4.0 InWG | | 5.0 InWG | | 6.0 InWG | | 7.0 InWG | | 8.0 InWG | |
|---------------------|-----------------------|----------|------|----------|------|----------|------|----------|-------|----------|-------|----------|-------|----------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 1500 | 718 | | | | | | | | | | | | | | |
| 1650 | 789 | | | | | | | | | | | | | | |
| 1950 | 933 | | | | | | | | | | | | | | |
| 2250 | 1076 | | | | | | | | | | | | | | |
| 2550 | 1220 | | | | | | | | | | | | | | |
| 2850 | 1364 | 937 | 2.37 | | | | | | | | | | | | |
| 3150 | 1507 | 931 | 2.56 | 1010 | 3.04 | | | | | | | | | | |
| 3450 | 1651 | 923 | 2.74 | 1004 | 3.26 | 1079 | 3.79 | | | | | | | | |
| 3750 | 1749 | 914 | 2.91 | 996 | 3.47 | 1072 | 4.03 | | | | | | | | |
| 4050 | 1938 | 906 | 3.10 | 987 | 3.67 | 1064 | 4.27 | 1203 | 5.49 | | | | | | |
| 4350 | 2081 | 903 | 3.31 | 979 | 3.88 | 1054 | 4.50 | 1195 | 5.79 | 1320 | 7.12 | | | | |
| 4650 | 2225 | 905 | 3.57 | 975 | 4.13 | 1047 | 4.74 | 1186 | 6.08 | 1312 | 7.47 | 1425 | 8.90 | | |
| 4950 | 2368 | 911 | 3.87 | 976 | 4.42 | 1043 | 5.02 | 1176 | 6.37 | 1303 | 7.82 | 1418 | 9.32 | | |
| 5250 | 2512 | 921 | 4.21 | 981 | 4.76 | 1043 | 5.35 | 1196 | 6.68 | 1294 | 8.17 | 1410 | 9.73 | 1519 | 11.32 |
| 5550 | 2655 | 934 | 4.59 | 990 | 5.14 | 1048 | 5.72 | 1166 | 7.04 | 1285 | 8.52 | 1401 | 10.13 | 1510 | 11.79 |
| 5850 | 2799 | 948 | 5.01 | 1002 | 5.57 | 1056 | 6.15 | 1166 | 7.44 | 1279 | 8.91 | 1392 | 10.53 | 1501 | 12.25 |
| 6150 | 2943 | 964 | 5.46 | 1016 | 6.03 | 1067 | 6.62 | 1170 | 7.91 | 1276 | 9.36 | 1385 | 10.97 | 1491 | 12.71 |
| 6450 | 3086 | 981 | 5.95 | 1031 | 6.54 | 1081 | 7.14 | 1178 | 8.43 | 1277 | 9.86 | 1380 | 11.45 | 1483 | 13.19 |
| 6750 | 3230 | 998 | 6.48 | 1047 | 7.08 | 1095 | 7.70 | 1188 | 9.00 | 1282 | 10.42 | 1378 | 11.99 | 1477 | 13.71 |
| 7050 | 3373 | 1016 | 7.04 | 1064 | 7.67 | 1111 | 8.30 | 1200 | 9.62 | 1289 | 11.04 | 1381 | 12.59 | 1474 | 14.29 |
| 7350 | 3517 | 1034 | 7.64 | 1082 | 8.29 | 1127 | 8.94 | 1214 | 10.29 | 1300 | 11.72 | 1386 | 13.26 | 1474 | 14.94 |

NOTE —
 Outlet Area=2.09ft² Wheel Dia.=19.5Inch Tip Speed=RPM×5.1
 Max Wheel RPM: Des.1= 1176, Des.2= 1372, Des.3= 1569

Performance Data (Belt Driven Type)

Table 4e: Performance Data (SRCEF-22)

| Volume of Air (CFM) | Outlet Velocity (FPM) | 0.5 InWG | | 0.75 InWG | | 1.0 InWG | | 1.25 InWG | | 1.5 InWG | | 2.0 InWG | | 2.5 InWG | |
|---------------------|-----------------------|----------|------|-----------|------|----------|------|-----------|------|----------|------|----------|-------|----------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 2250 | 887 | 314 | 0.29 | 393 | 0.46 | | | | | | | | | | |
| 2500 | 986 | 315 | 0.33 | 389 | 0.49 | 454 | 0.68 | | | | | | | | |
| 3000 | 1183 | 322 | 0.41 | 385 | 0.58 | 447 | 0.78 | 503 | 0.99 | 558 | 1.22 | | | | |
| 3500 | 1381 | 337 | 0.54 | 390 | 0.71 | 444 | 0.91 | 498 | 1.13 | 550 | 1.37 | 644 | 1.91 | | |
| 4000 | 1578 | 355 | 0.69 | 403 | 0.87 | 449 | 1.07 | 497 | 1.30 | 544 | 1.55 | 636 | 2.11 | 719 | 2.71 |
| 4500 | 1775 | 376 | 0.88 | 420 | 1.07 | 461 | 1.28 | 503 | 1.51 | 545 | 1.76 | 629 | 2.32 | 710 | 2.95 |
| 5000 | 1972 | 398 | 1.12 | 439 | 1.32 | 478 | 1.54 | 515 | 1.77 | 552 | 2.02 | 628 | 2.58 | 703 | 3.22 |
| 5500 | 2170 | 421 | 1.38 | 460 | 1.61 | 496 | 1.84 | 531 | 2.08 | 565 | 2.34 | 633 | 2.91 | 701 | 3.54 |
| 6000 | 2367 | | | 482 | 1.95 | 516 | 2.19 | 549 | 2.45 | 580 | 2.72 | 643 | 3.30 | 705 | 3.94 |
| 6500 | 2564 | | | 505 | 2.35 | 537 | 2.60 | 569 | 2.87 | 598 | 3.15 | 656 | 3.75 | 713 | 4.39 |
| 7000 | 2761 | | | 530 | 2.78 | 559 | 3.07 | 589 | 3.35 | 618 | 3.64 | 673 | 4.26 | 726 | 4.92 |
| 7500 | 2958 | | | | | 583 | 3.61 | 611 | 3.90 | 638 | 4.20 | 691 | 4.84 | 741 | 5.52 |
| 8000 | 3156 | | | | | 607 | 4.18 | 634 | 4.52 | 660 | 4.83 | 710 | 5.49 | 759 | 6.19 |
| 8500 | 3353 | | | | | | | 658 | 5.21 | 682 | 5.53 | 730 | 6.21 | 777 | 6.94 |
| 9000 | 3550 | | | | | | | 682 | 5.94 | 705 | 6.32 | 752 | 7.02 | 797 | 7.76 |
| 9500 | 3747 | | | | | | | | | 728 | 7.14 | 774 | 7.91 | 817 | 8.67 |
| 10000 | 3945 | | | | | | | | | | | 796 | 8.89 | 838 | 9.67 |
| 10500 | 4142 | | | | | | | | | | | 820 | 9.96 | 860 | 10.77 |
| 11000 | 4340 | | | | | | | | | | | 844 | 11.08 | 882 | 11.91 |
| 11500 | 4536 | | | | | | | | | | | | | | |
| 12000 | 4738 | | | | | | | | | | | | | | |

| Volume of Air (CFM) | Outlet Velocity (FPM) | 3.0 InWG | | 3.5 InWG | | 4.0 InWG | | 5.0 InWG | | 6.0 InWG | | 7.0 InWG | | 8.0 InWG | |
|---------------------|-----------------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 2250 | 887 | | | | | | | | | | | | | | |
| 2500 | 986 | | | | | | | | | | | | | | |
| 3000 | 1183 | | | | | | | | | | | | | | |
| 3500 | 1381 | | | | | | | | | | | | | | |
| 4000 | 1578 | | | | | | | | | | | | | | |
| 4500 | 1775 | 785 | 3.63 | | | | | | | | | | | | |
| 5000 | 1972 | 777 | 3.93 | 846 | 4.66 | | | | | | | | | | |
| 5500 | 2170 | 770 | 4.25 | 838 | 5.02 | 902 | 5.80 | | | | | | | | |
| 6000 | 2367 | 768 | 4.64 | 831 | 5.40 | 894 | 6.23 | | | | | | | | |
| 6500 | 2564 | 771 | 5.09 | 829 | 5.86 | 888 | 6.68 | 999 | 8.46 | | | | | | |
| 7000 | 2761 | 779 | 5.63 | 833 | 6.39 | 886 | 7.21 | 995 | 9.02 | 1099 | 10.98 | | | | |
| 7500 | 2958 | 791 | 6.24 | 840 | 7.01 | 890 | 7.83 | 992 | 9.63 | 1092 | 11.63 | 1188 | 13.76 | | |
| 8000 | 3156 | 805 | 6.93 | 851 | 7.71 | 898 | 8.54 | 992 | 10.33 | 1087 | 12.33 | 1181 | 14.50 | | |
| 8500 | 3353 | 821 | 7.70 | 865 | 8.49 | 909 | 9.33 | 996 | 11.13 | 1086 | 13.12 | 1175 | 15.29 | 1262 | 17.58 |
| 9000 | 3550 | 839 | 8.55 | 881 | 9.36 | 922 | 10.21 | 1005 | 12.03 | 1088 | 14.02 | 1172 | 16.18 | 1257 | 18.52 |
| 9500 | 3747 | 858 | 9.48 | 899 | 10.32 | 938 | 11.19 | 1016 | 13.03 | 1094 | 15.02 | 1173 | 17.18 | 1254 | 19.51 |
| 10000 | 3945 | 878 | 10.50 | 917 | 11.36 | 955 | 12.25 | 1030 | 14.13 | 1103 | 16.14 | 1178 | 18.30 | 1254 | 20.62 |
| 10500 | 4142 | 898 | 11.61 | 936 | 12.50 | 973 | 13.41 | 1045 | 15.32 | 1115 | 17.36 | 1186 | 19.53 | 1257 | 21.85 |
| 11000 | 4340 | 920 | 12.83 | 956 | 13.73 | 992 | 14.67 | 1061 | 16.62 | 1129 | 18.69 | 1196 | 20.89 | 1264 | 23.21 |
| 11500 | 4536 | 942 | 14.15 | 977 | 15.07 | 1012 | 16.03 | 1079 | 18.03 | 1145 | 20.14 | 1209 | 22.36 | 1273 | 24.69 |
| 12000 | 4738 | 964 | 15.57 | 998 | 16.52 | 1032 | 17.49 | 1098 | 19.54 | 1161 | 21.69 | 1223 | 23.94 | 1285 | 26.30 |

NOTE —
 Outlet Area=2.54ft² Wheel Dia.=22.75Inch Tip Speed=RPM×5.95
 Max Wheel RPM: Des.1= 1008, Des.2= 1176, Des.3= 1344

Performance Data (Belt Driven Type)

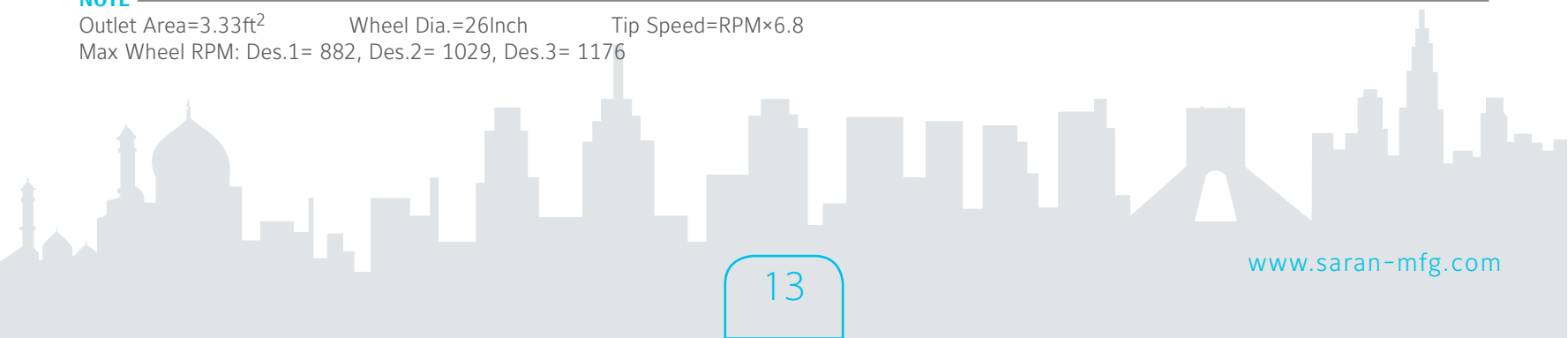
Table 4f: Performance Data (SRCEF-26)

| Volume of Air (CFM) | Outlet Velocity (FPM) | 0.5 InWG | | 0.75 InWG | | 1.0 InWG | | 1.25 InWG | | 1.5 InWG | | 2.0 InWG | | 2.5 InWG | |
|---------------------|-----------------------|----------|------|-----------|------|----------|------|-----------|------|----------|------|----------|-------|----------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 3000 | 902 | 267 | 0.37 | 336 | 0.58 | | | | | | | | | | |
| 3250 | 977 | 268 | 0.40 | 332 | 0.64 | 392 | 0.59 | | | | | | | | |
| 3750 | 1128 | 274 | 0.49 | 327 | 0.69 | 383 | 0.94 | 435 | 1.22 | | | | | | |
| 4250 | 1278 | 284 | 0.60 | 330 | 0.80 | 378 | 1.04 | 427 | 1.32 | 473 | 1.61 | | | | |
| 4750 | 1428 | 297 | 0.74 | 338 | 0.95 | 379 | 1.18 | 422 | 1.45 | 466 | 1.76 | 551 | 2.47 | | |
| 5250 | 1579 | 311 | 0.90 | 349 | 1.12 | 386 | 1.36 | 424 | 1.62 | 462 | 1.91 | 542 | 2.62 | 619 | 3.45 |
| 5750 | 1729 | 326 | 1.09 | 362 | 1.33 | 396 | 1.57 | 430 | 1.84 | 464 | 2.12 | 536 | 2.80 | 609 | 3.62 |
| 6250 | 1880 | 342 | 1.31 | 376 | 1.57 | 407 | 1.83 | 439 | 2.10 | 470 | 2.38 | 534 | 3.04 | 601 | 3.82 |
| 6750 | 2030 | 358 | 1.56 | 390 | 1.83 | 421 | 2.11 | 450 | 2.39 | 479 | 2.69 | 536 | 3.34 | 597 | 4.09 |
| 7250 | 2180 | 375 | 1.83 | 406 | 2.14 | 435 | 2.43 | 462 | 2.73 | 489 | 3.04 | 543 | 3.69 | 597 | 4.43 |
| 7750 | 2331 | | | 422 | 2.48 | 449 | 2.79 | 476 | 3.10 | 501 | 3.43 | 552 | 4.10 | 602 | 4.83 |
| 8250 | 2481 | | | 438 | 2.86 | 465 | 3.19 | 490 | 3.52 | 515 | 3.86 | 562 | 4.55 | 609 | 5.30 |
| 8750 | 2631 | | | 464 | 3.26 | 481 | 3.62 | 505 | 3.98 | 529 | 4.33 | 574 | 5.06 | 619 | 5.82 |
| 9250 | 2782 | | | | | 497 | 4.10 | 520 | 4.48 | 543 | 4.85 | 587 | 5.61 | 629 | 6.39 |
| 9750 | 2932 | | | | | 513 | 4.63 | 536 | 5.03 | 558 | 5.42 | 601 | 6.21 | 641 | 7.02 |
| 10500 | 3158 | | | | | 539 | 5.19 | 560 | 5.96 | 582 | 6.38 | 622 | 7.23 | 660 | 8.09 |
| 11500 | 3458 | | | | | | | 610 | 7.26 | 614 | 7.82 | 652 | 8.75 | 688 | 9.68 |
| 12500 | 3760 | | | | | | | | | 664 | 9.38 | 684 | 10.50 | 718 | 11.50 |
| 13500 | 4060 | | | | | | | | | | | 716 | 12.50 | 749 | 13.58 |
| 14500 | 4361 | | | | | | | | | | | 749 | 14.63 | 797 | 15.78 |
| 15500 | 4661 | | | | | | | | | | | | | | |

| Volume of Air (CFM) | Outlet Velocity (FPM) | 3.0 InWG | | 3.5 InWG | | 4.0 InWG | | 5.0 InWG | | 6.0 InWG | | 7.0 InWG | | 8.0 InWG | |
|---------------------|-----------------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 3000 | 902 | | | | | | | | | | | | | | |
| 3250 | 977 | | | | | | | | | | | | | | |
| 3750 | 1128 | | | | | | | | | | | | | | |
| 4250 | 1278 | | | | | | | | | | | | | | |
| 4750 | 1428 | | | | | | | | | | | | | | |
| 5250 | 1579 | | | | | | | | | | | | | | |
| 5750 | 1729 | | | | | | | | | | | | | | |
| 6250 | 1880 | 665 | 4.71 | | | | | | | | | | | | |
| 6750 | 2030 | 659 | 4.97 | 719 | 5.94 | | | | | | | | | | |
| 7250 | 2180 | 654 | 5.28 | 712 | 6.24 | 768 | 7.27 | | | | | | | | |
| 7750 | 2331 | 654 | 5.66 | 707 | 6.58 | 761 | 7.62 | | | | | | | | |
| 8250 | 2481 | 657 | 6.11 | 706 | 7.01 | 756 | 8.01 | 856 | 10.27 | | | | | | |
| 8750 | 2631 | 663 | 6.63 | 708 | 7.52 | 754 | 8.49 | 850 | 10.72 | | | | | | |
| 9250 | 2782 | 671 | 7.22 | 713 | 8.10 | 756 | 9.05 | 845 | 11.22 | 935 | 13.70 | | | | |
| 9750 | 2932 | 681 | 7.87 | 721 | 8.75 | 761 | 9.70 | 844 | 11.82 | 929 | 14.28 | 1017 | 16.66 | | |
| 10500 | 3158 | 698 | 8.97 | 735 | 9.88 | 772 | 10.84 | 848 | 12.93 | 925 | 15.30 | 1005 | 17.99 | 1080 | 20.76 |
| 11500 | 3458 | 723 | 10.62 | 758 | 11.59 | 792 | 12.58 | 859 | 14.67 | 928 | 16.98 | 1000 | 19.55 | 1071 | 22.41 |
| 12500 | 3760 | 751 | 12.52 | 783 | 13.55 | 815 | 14.59 | 877 | 16.75 | 940 | 19.06 | 1003 | 21.56 | 1068 | 24.31 |
| 13500 | 4060 | 781 | 14.67 | 811 | 15.77 | 841 | 16.87 | 900 | 19.14 | 958 | 21.50 | 1015 | 24.00 | 1073 | 26.69 |
| 14500 | 4361 | 811 | 17.09 | 841 | 18.26 | 869 | 19.44 | 925 | 21.83 | 979 | 24.28 | 1032 | 26.83 | 1086 | 29.52 |
| 15500 | 4661 | 843 | 19.80 | 871 | 21.05 | 899 | 22.30 | 952 | 24.83 | 1003 | 27.40 | 1053 | 30.04 | 1104 | 32.77 |

NOTE

Outlet Area=3.33ft² Wheel Dia.=26Inch Tip Speed=RPM×6.8
 Max Wheel RPM: Des.1= 882, Des.2= 1029, Des.3= 1176



Performance Data (Belt Driven Type)

Table 4g: Performance Data (SRCEF-29)

| Volume of Air (CFM) | Outlet Velocity (FPM) | 0.5 InWG | | 0.75 InWG | | 1.0 InWG | | 1.25 InWG | | 1.5 InWG | | 2.0 InWG | | 2.5 InWG | |
|---------------------|-----------------------|----------|------|-----------|------|----------|------|-----------|------|----------|-------|----------|-------|----------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 4000 | 960 | 237 | 0.49 | 296 | 0.76 | | | | | | | | | | |
| 4250 | 1020 | 238 | 0.53 | 293 | 0.79 | 346 | 1.12 | | | | | | | | |
| 4750 | 1140 | 243 | 0.62 | 291 | 0.87 | 340 | 1.18 | 388 | 1.55 | | | | | | |
| 5250 | 1260 | 261 | 0.73 | 292 | 0.98 | 336 | 1.28 | 381 | 1.64 | 424 | 2.04 | | | | |
| 5750 | 1380 | 259 | 0.86 | 297 | 1.11 | 339 | 1.40 | 376 | 1.75 | 417 | 2.15 | | | | |
| 6250 | 1501 | 268 | 1.01 | 304 | 1.27 | 339 | 1.57 | 375 | 1.90 | 412 | 2.29 | 487 | 3.19 | | |
| 6750 | 1621 | 278 | 1.18 | 312 | 1.46 | 344 | 1.76 | 377 | 2.09 | 411 | 2.46 | 481 | 3.35 | 548 | 4.40 |
| 7250 | 1741 | 289 | 1.37 | 321 | 1.67 | 351 | 1.98 | 381 | 2.31 | 412 | 2.67 | 476 | 3.53 | 541 | 4.57 |
| 7750 | 1861 | 300 | 1.59 | 331 | 1.90 | 359 | 2.22 | 387 | 2.56 | 416 | 2.92 | 474 | 3.76 | 535 | 4.76 |
| 8500 | 2041 | 317 | 1.96 | 346 | 2.30 | 373 | 2.65 | 399 | 3.01 | 425 | 3.38 | 477 | 4.21 | 531 | 5.17 |
| 9500 | 2281 | 342 | 2.49 | 368 | 2.93 | 393 | 3.31 | 417 | 3.70 | 440 | 4.10 | 487 | 4.94 | 533 | 5.87 |
| 10500 | 2521 | | | 391 | 3.67 | 414 | 4.09 | 437 | 4.52 | 459 | 4.94 | 501 | 5.83 | 543 | 6.77 |
| 11500 | 2761 | | | 415 | 4.47 | 436 | 5.00 | 458 | 5.46 | 479 | 5.93 | 518 | 6.88 | 556 | 7.86 |
| 12500 | 3001 | | | | | 460 | 5.98 | 480 | 6.56 | 500 | 7.06 | 537 | 8.08 | 573 | 9.11 |
| 13500 | 3241 | | | | | | | 503 | 7.81 | 522 | 8.35 | 557 | 9.44 | 591 | 10.54 |
| 14500 | 3481 | | | | | | | 526 | 9.14 | 544 | 9.80 | 578 | 10.97 | 611 | 12.14 |
| 15500 | 3721 | | | | | | | | | 567 | 11.35 | 600 | 12.68 | 631 | 13.93 |
| 16500 | 3961 | | | | | | | | | | | 623 | 14.59 | 653 | 15.91 |
| 17500 | 4202 | | | | | | | | | | | 646 | 16.70 | 675 | 18.10 |
| 18500 | 4442 | | | | | | | | | | | 669 | 18.93 | 697 | 20.39 |
| 19500 | 4682 | | | | | | | | | | | | | | |

| Volume of Air (CFM) | Outlet Velocity (FPM) | 3.0 InWG | | 3.5 InWG | | 4.0 InWG | | 5.0 InWG | | 6.0 InWG | | 7.0 InWG | | 8.0 InWG | |
|---------------------|-----------------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 4000 | 960 | | | | | | | | | | | | | | |
| 4250 | 1020 | | | | | | | | | | | | | | |
| 4750 | 1140 | | | | | | | | | | | | | | |
| 5250 | 1260 | | | | | | | | | | | | | | |
| 5750 | 1380 | | | | | | | | | | | | | | |
| 6250 | 1501 | | | | | | | | | | | | | | |
| 6750 | 1621 | | | | | | | | | | | | | | |
| 7250 | 1741 | | | | | | | | | | | | | | |
| 7750 | 1861 | 597 | 5.76 | | | | | | | | | | | | |
| 8500 | 2041 | 587 | 6.29 | 638 | 7.44 | | | | | | | | | | |
| 9500 | 2281 | 581 | 6.93 | 631 | 8.13 | 677 | 9.33 | | | | | | | | |
| 10500 | 2521 | 584 | 7.81 | 628 | 8.95 | 672 | 10.21 | 759 | 12.98 | | | | | | |
| 11500 | 2761 | 594 | 8.90 | 633 | 10.02 | 672 | 11.23 | 753 | 14.01 | 830 | 17.08 | | | | |
| 12500 | 3001 | 608 | 10.19 | 643 | 11.32 | 678 | 12.52 | 750 | 15.19 | 825 | 18.28 | 897 | 21.63 | | |
| 13500 | 3241 | 624 | 11.67 | 656 | 12.83 | 689 | 14.04 | 754 | 16.68 | 822 | 19.66 | 891 | 23.03 | 958 | 26.61 |
| 14500 | 3481 | 642 | 13.34 | 672 | 14.55 | 703 | 15.80 | 763 | 18.45 | 824 | 21.37 | 887 | 24.62 | 952 | 28.24 |
| 15500 | 3721 | 661 | 15.19 | 690 | 16.47 | 719 | 17.77 | 775 | 20.48 | 832 | 23.39 | 889 | 26.57 | 949 | 30.07 |
| 16500 | 3961 | 681 | 17.25 | 710 | 18.59 | 737 | 19.96 | 790 | 22.75 | 843 | 25.70 | 896 | 28.86 | 951 | 32.28 |
| 17500 | 4202 | 703 | 19.51 | 730 | 20.93 | 756 | 22.36 | 807 | 25.27 | 857 | 28.29 | 907 | 31.47 | 957 | 34.87 |
| 18500 | 4442 | 725 | 21.99 | 750 | 23.49 | 776 | 24.99 | 825 | 28.03 | 872 | 31.15 | 920 | 34.39 | 967 | 37.80 |
| 19500 | 4682 | 747 | 24.71 | 772 | 26.28 | 796 | 27.85 | 844 | 31.04 | 890 | 32.78 | 935 | 37.60 | 979 | 41.05 |

NOTE
 Outlet Area=4.12ft² Wheel Dia.=29.25Inch Tip Speed=RPM×7.65
 Max Wheel RPM: Des.1= 784, Des.2= 915, Des.3= 1045

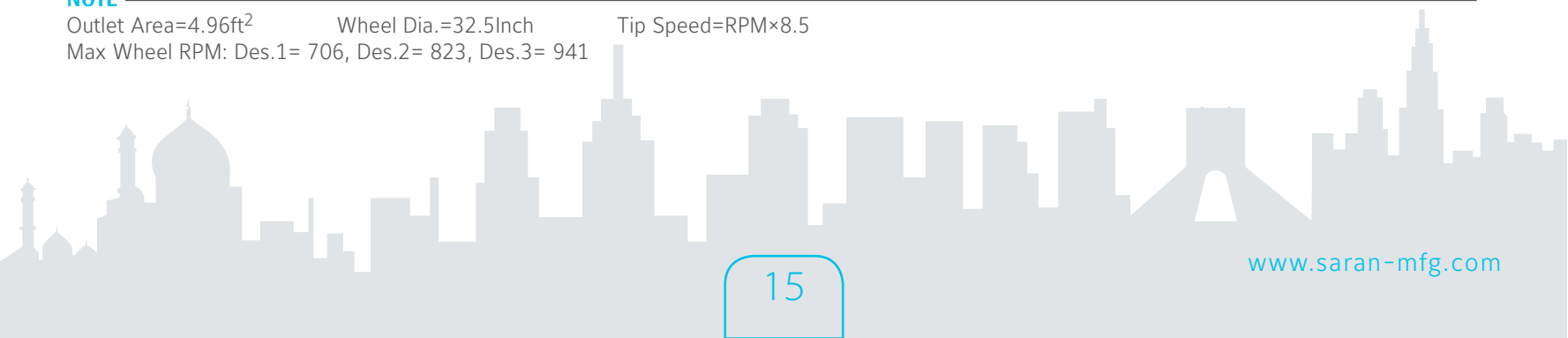
Performance Data (Belt Driven Type)

Table 4h: Performance Data (SRCEF-32)

| Volume of Air (CFM) | Outlet Velocity (FPM) | 0.5 InWG | | 0.75 InWG | | 1.0 InWG | | 1.25 InWG | | 1.5 InWG | | 2.0 InWG | | 2.5 InWG | |
|---------------------|-----------------------|----------|------|-----------|------|----------|------|-----------|-------|----------|-------|----------|-------|----------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 5000 | 1009 | 214 | 0.61 | 266 | 0.94 | | | | | | | | | | |
| 5250 | 1059 | 215 | 0.65 | 264 | 0.97 | 312 | 1.37 | | | | | | | | |
| 5750 | 1160 | 218 | 0.74 | 261 | 1.05 | 307 | 1.44 | 350 | 1.90 | | | | | | |
| 6250 | 1261 | 223 | 0.84 | 262 | 1.15 | 303 | 1.53 | 345 | 1.98 | 385 | 2.50 | | | | |
| 6750 | 1362 | 229 | 0.97 | 264 | 1.27 | 302 | 1.64 | 341 | 2.08 | 379 | 2.58 | | | | |
| 7250 | 1463 | 235 | 1.10 | 268 | 1.42 | 303 | 1.78 | 338 | 2.20 | 374 | 2.69 | | | | |
| 7750 | 1564 | 242 | 1.26 | 274 | 1.58 | 305 | 1.94 | 337 | 2.36 | 371 | 2.83 | 440 | 3.86 | | |
| 8500 | 1715 | 253 | 1.52 | 283 | 1.87 | 312 | 2.24 | 341 | 2.65 | 370 | 3.11 | 432 | 4.20 | 489 | 5.44 |
| 9500 | 1917 | 269 | 1.93 | 297 | 2.32 | 323 | 2.71 | 348 | 3.13 | 374 | 3.58 | 427 | 4.62 | 482 | 5.86 |
| 10500 | 2119 | 285 | 2.42 | 311 | 2.84 | 336 | 3.27 | 359 | 3.71 | 383 | 4.18 | 429 | 5.19 | 478 | 6.38 |
| 11500 | 2321 | 302 | 2.95 | 327 | 3.45 | 350 | 3.92 | 372 | 4.39 | 394 | 4.88 | 436 | 5.91 | 479 | 7.06 |
| 12500 | 2523 | | | 344 | 4.16 | 366 | 4.66 | 386 | 5.17 | 406 | 5.69 | 445 | 6.76 | 484 | 7.91 |
| 13500 | 2725 | | | 360 | 4.92 | 382 | 5.51 | 401 | 6.05 | 420 | 6.60 | 457 | 7.73 | 493 | 8.91 |
| 14500 | 2926 | | | | | 398 | 6.47 | 417 | 7.05 | 435 | 7.64 | 470 | 8.83 | 504 | 10.05 |
| 15500 | 3128 | | | | | 415 | 7.48 | 433 | 8.16 | 451 | 8.79 | 484 | 10.05 | 516 | 11.33 |
| 16500 | 3330 | | | | | | | 450 | 9.41 | 467 | 10.07 | 499 | 11.40 | 530 | 12.75 |
| 17500 | 3530 | | | | | | | 467 | 10.72 | 483 | 11.48 | 514 | 12.89 | 544 | 14.31 |
| 18500 | 3734 | | | | | | | | | 500 | 13.04 | 530 | 14.53 | 558 | 16.02 |
| 19500 | 3935 | | | | | | | | | 517 | 14.68 | 546 | 16.31 | 574 | 17.88 |
| 20500 | 4137 | | | | | | | | | | | 563 | 18.26 | 590 | 19.90 |
| 21500 | 4339 | | | | | | | | | | | 580 | 20.38 | 606 | 22.09 |

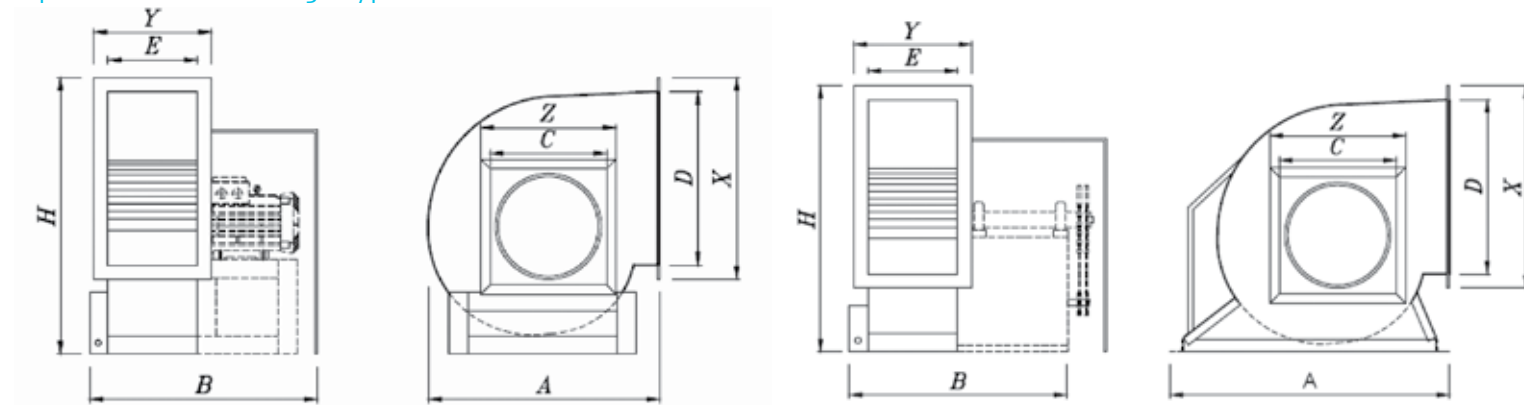
| Volume of Air (CFM) | Outlet Velocity (FPM) | 3.0 InWG | | 3.5 InWG | | 4.0 InWG | | 5.0 InWG | | 6.0 InWG | | 7.0 InWG | | 8.0 InWG | |
|---------------------|-----------------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 5000 | 1009 | | | | | | | | | | | | | | |
| 5250 | 1059 | | | | | | | | | | | | | | |
| 5750 | 1160 | | | | | | | | | | | | | | |
| 6250 | 1261 | | | | | | | | | | | | | | |
| 6750 | 1362 | | | | | | | | | | | | | | |
| 7250 | 1463 | | | | | | | | | | | | | | |
| 7750 | 1564 | | | | | | | | | | | | | | |
| 8500 | 1715 | | | | | | | | | | | | | | |
| 9500 | 1917 | 534 | 7.23 | | | | | | | | | | | | |
| 10500 | 2119 | 527 | 7.75 | 575 | 9.47 | | | | | | | | | | |
| 11500 | 2321 | 523 | 8.37 | 569 | 9.87 | 613 | 11.43 | | | | | | | | |
| 12500 | 2523 | 524 | 9.19 | 565 | 10.62 | 607 | 12.21 | 668 | 15.75 | | | | | | |
| 13500 | 2725 | 529 | 10.18 | 566 | 11.57 | 604 | 13.10 | 681 | 16.61 | | | | | | |
| 14500 | 2926 | 537 | 11.34 | 571 | 12.72 | 605 | 14.21 | 676 | 17.60 | 746 | 21.42 | | | | |
| 15500 | 3128 | 547 | 12.66 | 579 | 14.06 | 610 | 15.54 | 675 | 18.83 | 742 | 22.64 | 807 | 26.83 | | |
| 16500 | 3330 | 559 | 14.14 | 589 | 15.56 | 618 | 17.06 | 678 | 20.31 | 739 | 24.00 | 802 | 28.18 | 865 | 32.71 |
| 17500 | 3532 | 572 | 15.76 | 601 | 17.23 | 628 | 18.76 | 683 | 22.01 | 740 | 25.63 | 799 | 29.69 | 859 | 34.21 |
| 18500 | 3734 | 586 | 17.53 | 613 | 19.07 | 639 | 20.64 | 691 | 23.94 | 745 | 27.52 | 799 | 31.49 | 854 | 35.88 |
| 19500 | 3935 | 600 | 19.47 | 626 | 21.07 | 651 | 22.70 | 701 | 26.06 | 751 | 29.65 | 802 | 33.57 | 853 | 37.86 |
| 20500 | 4137 | 615 | 21.56 | 640 | 23.24 | 665 | 24.92 | 713 | 28.39 | 760 | 32.03 | 807 | 35.93 | 856 | 40.15 |
| 21500 | 4339 | 631 | 23.83 | 655 | 25.57 | 679 | 27.33 | 725 | 30.91 | 770 | 34.63 | 815 | 38.55 | 861 | 42.74 |

NOTE
 Outlet Area=4.96ft² Wheel Dia.=32.5Inch Tip Speed=RPM×8.5
 Max Wheel RPM: Des.1= 706, Des.2= 823, Des.3= 941



Dimensions

Top Horizontal Discharge Type



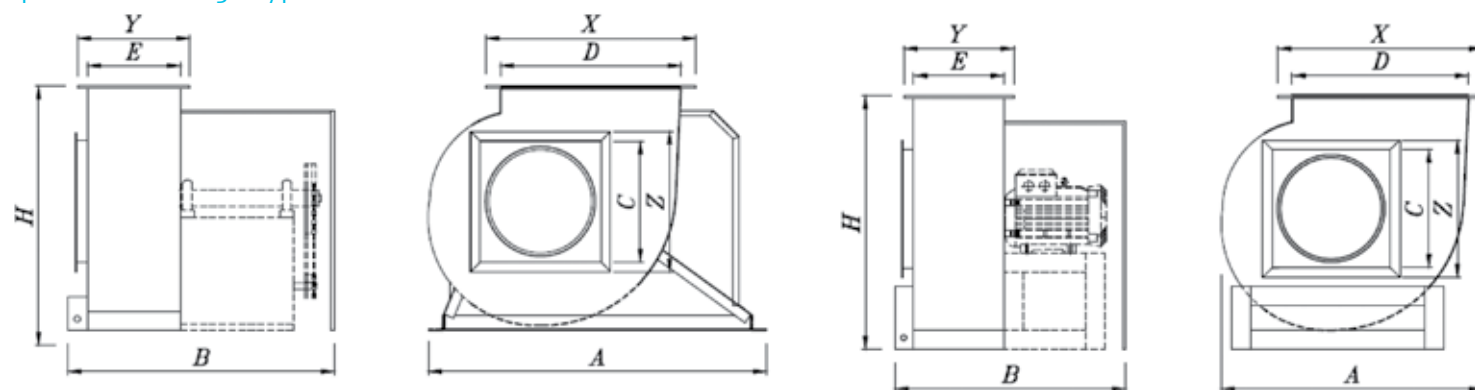
SRCEF-14 ~ SRCEF-32 (Belt Driven Types)

SRCEF-11 & SRCEF-13 (Direct Drive Types)

Table 5a: Top Horizontal Discharge Type Dimensions

| Models | Type | A | B | C | D | E | H | X | Y | Z |
|----------|--------------|------|------|-----|-----|-----|------|------|-----|-----|
| SRCEF 11 | Direct Drive | 487 | 570 | 280 | 370 | 190 | 593 | 430 | 250 | 320 |
| SRCEF 13 | Direct Drive | 545 | 600 | 340 | 420 | 190 | 660 | 480 | 250 | 380 |
| SRCEF 14 | Belt Driven | 810 | 680 | 360 | 470 | 245 | 675 | 530 | 305 | 400 |
| SRCEF 16 | Belt Driven | 830 | 700 | 420 | 520 | 245 | 750 | 580 | 305 | 460 |
| SRCEF 17 | Belt Driven | 890 | 780 | 460 | 570 | 255 | 820 | 630 | 315 | 500 |
| SRCEF 19 | Belt Driven | 940 | 810 | 510 | 615 | 285 | 880 | 675 | 345 | 550 |
| SRCEF 22 | Belt Driven | 1110 | 860 | 570 | 730 | 330 | 1020 | 790 | 390 | 610 |
| SRCEF 26 | Belt Driven | 1250 | 980 | 660 | 830 | 380 | 1230 | 890 | 440 | 700 |
| SRCEF 29 | Belt Driven | 1330 | 1030 | 750 | 910 | 430 | 1375 | 970 | 490 | 790 |
| SRCEF 32 | Belt Driven | 1420 | 1150 | 840 | 990 | 470 | 1510 | 1050 | 530 | 880 |

Up Blast Discharge Type



SRCEF-14 ~ SRCEF-32 (Belt Driven Types)

SRCEF-11 & SRCEF-13 (Direct Drive Types)

Table 5b: Up Blast Discharge Type Dimensions

| Models | Type | A | B | C | D | E | H | X | Y | Z |
|----------|--------------|------|------|-----|-----|-----|------|------|-----|-----|
| SRCEF 11 | Direct Drive | 546 | 570 | 280 | 370 | 190 | 534 | 430 | 250 | 320 |
| SRCEF 13 | Direct Drive | 612 | 600 | 340 | 420 | 190 | 595 | 480 | 250 | 380 |
| SRCEF 14 | Belt Driven | 850 | 680 | 360 | 470 | 245 | 600 | 530 | 305 | 400 |
| SRCEF 16 | Belt Driven | 860 | 700 | 420 | 520 | 245 | 670 | 580 | 305 | 460 |
| SRCEF 17 | Belt Driven | 910 | 780 | 460 | 570 | 255 | 720 | 630 | 315 | 500 |
| SRCEF 19 | Belt Driven | 980 | 810 | 510 | 615 | 285 | 770 | 675 | 345 | 550 |
| SRCEF 22 | Belt Driven | 1180 | 860 | 570 | 730 | 330 | 900 | 790 | 390 | 610 |
| SRCEF 26 | Belt Driven | 1300 | 980 | 660 | 830 | 380 | 1110 | 890 | 440 | 700 |
| SRCEF 29 | Belt Driven | 1420 | 1030 | 750 | 910 | 430 | 1240 | 970 | 490 | 790 |
| SRCEF 32 | Belt Driven | 1500 | 1150 | 840 | 990 | 470 | 1345 | 1050 | 530 | 880 |

NOTE

- All dimensions are mm.
- The above data is subject to change without prior notice.