# Centrifugal Fans, Non-Overloading, Backward Inclined

## MVA, MVZ, MVX & MVW Series with laminar blades
## MAVA, MAVZ & MAVX Series with aerofoil blades

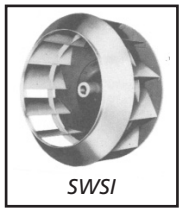
**Features**
The combination of scientifically designed aerofoil or laminar ( single thickness) blades with the highly desirable non-overloading power characteristic of backward inclined blades produce fans that offers the ultimate in high efficiency and quiet operation.


Laminar


Aerofoil

The laminar bladed fan is used for general purpose applications and can tolerate very light dust load while the higher efficiency aerofoil bladed fan is used to achieve substancial power saving in large sized fans. The aerofoil bladed series are only suitable for clean air applications.

Both single width single inlet (SWSI) and double width double inlet (DWDI) fans are available. For DWDI fans delivering twice the volume at the same static pressure, multiply fan RPM by 1.01, and multiply fan absorbed power by 2.04.


SWSI


DWDI

The above fans are custom built to optimise the mechanical design to achieve excellent performance that will assist our customers to find competitive solutions to their air movement problems. All the fan components are liberally sized to ensure long trouble free life.

The mechanical design can be tailored to meet different operating conditions ie. temperature, corrosion, noise, dust load, humidity, abrasion, space limitation etc. The fan handing can be adapted to meet your specific requirement without restrictions.

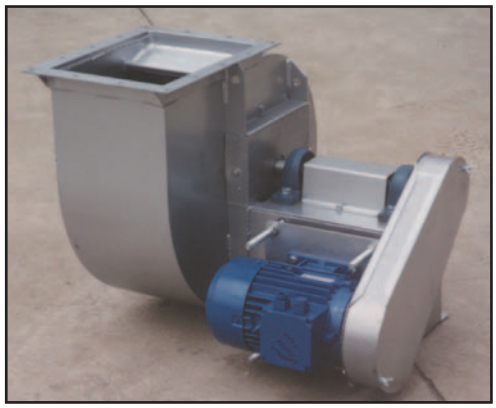
**Construction**
Casing - Heavy welded construction from plate steel. Side plates stiffened to prevent drumming. Scroll designed to optimise fan pressure developed by impeller.
Impeller - ruggedly built, welded mild steel construction, dynamically balanced to International Standard ISO 1940, to ensure smooth running without vibration.
Pedestal - top & sides fabricated from heavy mild steel plate.

**Optional Extras**
Silencers, lagged casing, filters, guards, dampers, inlet boxes, variable inlet vanes, anti-vibration mounts, matching flanges, flexible connections, wear plates on impeller and housing, split housing, corrosive resistant coatings, stainless steel housing & impeller, anti-sparking construction.

**Applications**
General air handling, pneumatic conveying, pollution control, ventilation, drying, cooling, exhausting, extraction of fumes, chemical processing, combustion, food processing etc.

*MAVA 320 fan, Arr.1, 45kw c/w discharge damper, silencer and elbow. Grain dust collection system.*


*MVZ 630 Fan, Arr.8, Coupling Driven, 300kw*



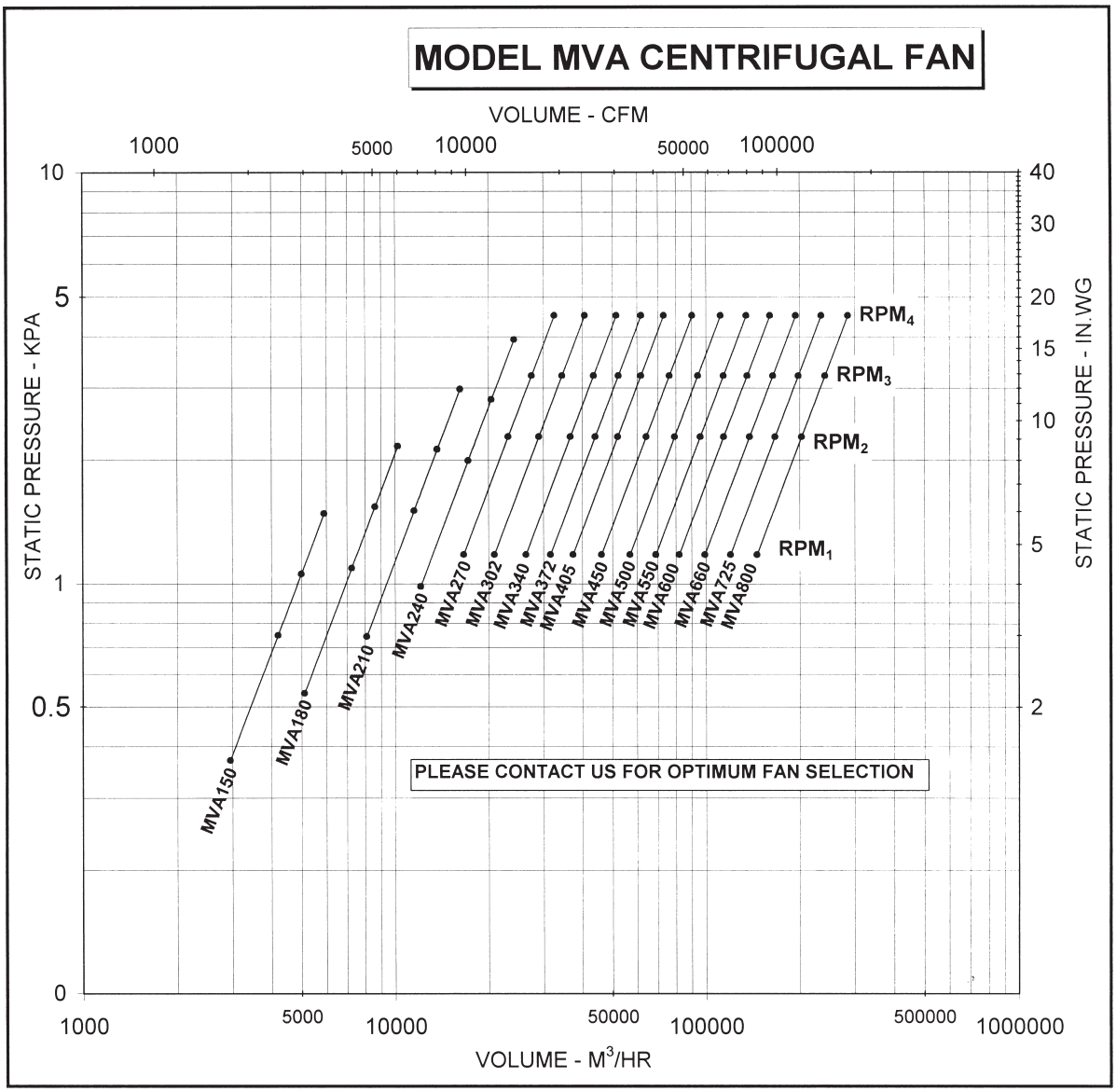
*MVZ 191 Fan, Arr. 9 with cooling fin for high temperature*

*MVW 360 Fans, Arr. 1, 75kw*

*MVX 240 Fan, Arr. 9, 7.5kw*

*MAVA 540 Fan, Arr.3, DWDI, 90kw c/w discharge damper*

*MVZ 340 (75kw), MVX 340 (55kw) and MVX 240 (30kw) Fans, Arr. 1 c/w discharge silencers*




| MODEL NO. | IMP. DIAM. | EFF. % | RPM = Fan Speed ; M/S = Outlet Velocity ; KW = Absorbed Power ; dBA = Inlet or Outlet Noise @ 1 m | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $RPM_1$ | $M/S_1$ | $KW_1$ | $dBA_1$ | $RPM_2$ | $M/S_2$ | $KW_2$ | dBA2 | $RPM_3$ | $M/S_3$ | $KW_3$ | $dBA_3$ | $RPM_4$ | $M/S_4$ | $KW_4$ | $dBA_4$ |
| MVA150 | 380 | 67.1% | 1450 | 6.6 | 0.5 | 68.1 | 2062 | 9.4 | 1.3 | 75.7 | 2449 | 11.2 | 2.2 | 79.5 | 2900 | 13.2 | 3.6 | 83.1 |
| MVA180 | 458 | 68.7% | 1450 | 7.9 | 1.1 | 73.6 | 2062 | 11.3 | 3.2 | 81.2 | 2449 | 13.4 | 5.4 | 85.0 | 2900 | 15.9 | 8.9 | 88.6 |
| MVA210 | 534 | 70.2% | 1450 | 9.3 | 2.4 | 78.1 | 2062 | 21.0 | 6.9 | 85.7 | 2449 | 15.6 | 11.5 | 89.5 | 2900 | 18.5 | 19.1 | 93.1 |
| MVA240 | 610 | 71.8% | 1450 | 10.6 | 4.6 | 81.9 | 2062 | 15.1 | 13.3 | 89.6 | 2449 | 17.9 | 22.2 | 93.3 | 2900 | 21.2 | 36.9 | 97.0 |
| MVA270 | 686 | 73.4% | 1401 | 11.5 | 7.4 | 84.6 | 1949 | 16.0 | 20.0 | 91.7 | 2314 | 19.0 | 33.5 | 95.5 | 2741 | 22.5 | 55.6 | 99.2 |
| MVA302 | 768 | 73.5% | 1250 | 11.5 | 9.3 | 85.5 | 1740 | 16.0 | 25.1 | 92.7 | 2066 | 19.0 | 42.0 | 96.4 | 2446 | 22.5 | 69.7 | 100.1 |
| MVA340 | 864 | 73.5% | 1112 | 11.5 | 11.8 | 86.5 | 1548 | 16.0 | 31.7 | 93.7 | 1838 | 19.0 | 53.0 | 97.4 | 2176 | 22.5 | 88.0 | 101.1 |
| MVA372 | 946 | 73.6% | 1015 | 11.5 | 14.1 | 87.3 | 1413 | 16.0 | 38.0 | 94.5 | 1678 | 19.0 | 63.6 | 98.2 | 1987 | 22.5 | 105.6 | 101.9 |
| MVA405 | 1030 | 73.6% | 934 | 11.5 | 16.7 | 88.0 | 1299 | 16.0 | 44.9 | 95.2 | 1543 | 19.0 | 75.1 | 99.0 | 1827 | 22.5 | 124.8 | 102.6 |
| MVA450 | 1144 | 73.7% | 840 | 11.5 | 20.5 | 88.9 | 1169 | 16.0 | 55.3 | 96.1 | 1389 | 19.0 | 92.7 | 99.8 | 1644 | 22.5 | 153.9 | 103.5 |
| MVA500 | 1270 | 73.7% | 756 | 11.5 | 25.3 | 89.8 | 1052 | 16.0 | 68.3 | 97.0 | 1250 | 19.0 | 114.3 | 100.7 | 1480 | 22.5 | 189.8 | 104.4 |
| MVA550 | 1398 | 73.8% | 688 | 11.5 | 30.6 | 90.6 | 957 | 16.0 | 82.5 | 97.8 | 1136 | 19.0 | 138.2 | 101.5 | 1345 | 22.5 | 229.4 | 105.2 |
| MVA600 | 1524 | 73.9% | 630 | 11.5 | 36.4 | 91.3 | 877 | 16.0 | 98.1 | 98.5 | 1041 | 19.0 | 164.3 | 102.2 | 1233 | 22.5 | 272.8 | 105.9 |
| MVA660 | 1676 | 74.0% | 573 | 11.5 | 44.0 | 92.1 | 797 | 16.0 | 118.6 | 99.3 | 947 | 19.0 | 198.5 | 103.0 | 1121 | 22.5 | 329.7 | 106.7 |
| MVA725 | 1842 | 74.1% | 522 | 11.5 | 53.1 | 92.9 | 726 | 16.0 | 142.9 | 100.1 | 862 | 19.0 | 239.3 | 103.8 | 1021 | 22.5 | 397.3 | 107.5 |
| MVA800 | 2032 | 74.2% | 473 | 11.5 | 64.5 | 93.8 | 658 | 16.0 | 173.7 | 100.9 | 781 | 19.0 | 290.9 | 104.7 | 925 | 22.5 | 483.1 | 108.3 |

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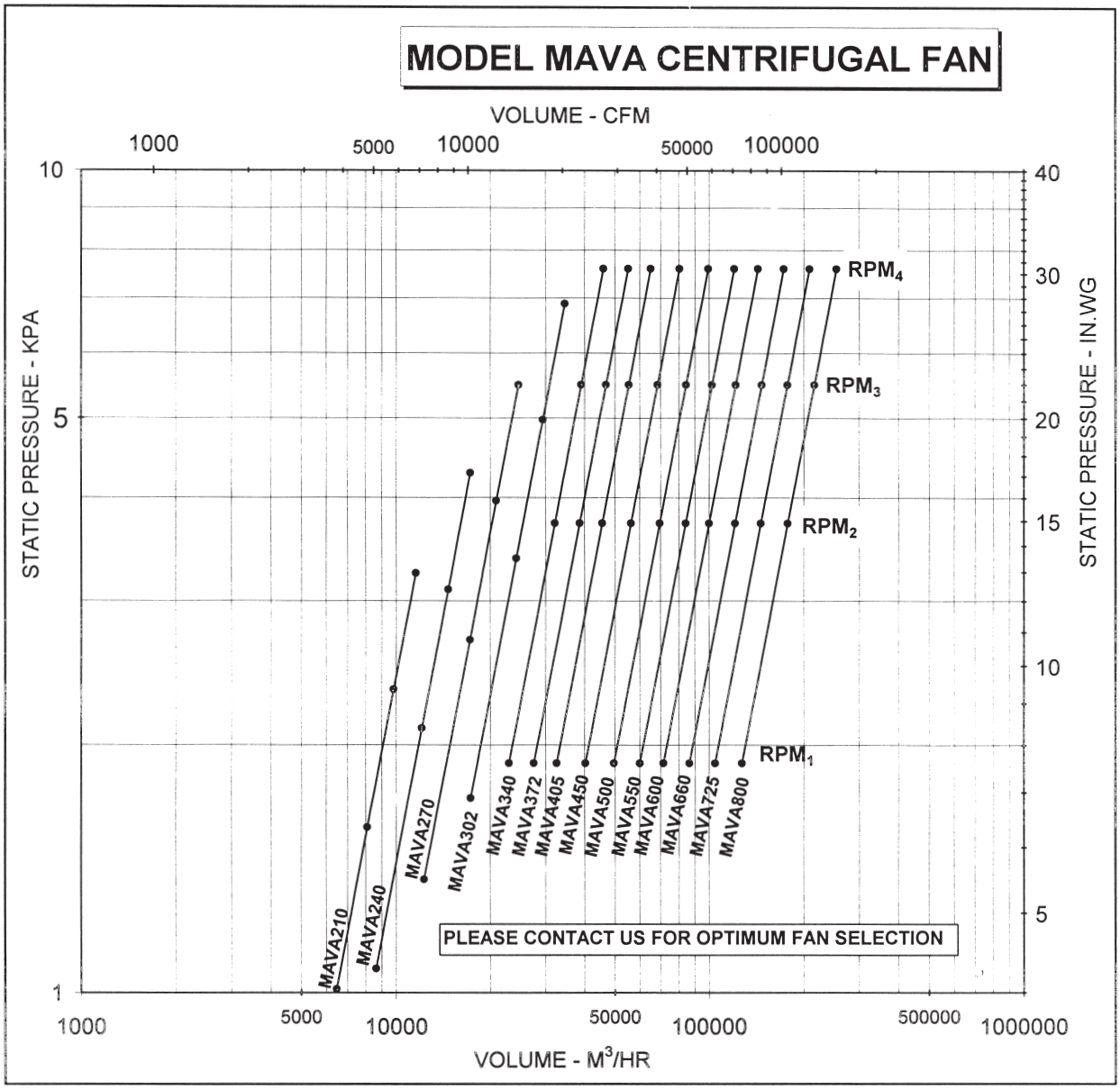
|---|
| Impeller Type : Laminar, Backward Inclined, Non Overloading, Single Width Single Inlet |
| Operating Conditions :Temperature $20^0$ C ; Atm.Pressure 101.325 kPa ; Inlet Air Density 1.2 $kg/m^3$ |
| Fan Peak Absorbed Power(kW) = Fan Absorbed Power(kW) x 1.068 |
| Impeller Tip Speed(m/s) = 5.24 x $10^{-5}$ x Impeller Diameter(mm) x Fan Speed(rpm) |




| MODEL NO. | IMP. DIAM. | EFF. % | RPM = Fan Speed ; M/S = Outlet Velocity ; KW = Absorbed Power ; dBA = Inlet or Outlet Noise @ 1 m | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $RPM_1$ | $M/S_1$ | $KW_1$ | $dBA_1$ | $RPM_2$ | $M/S_2$ | $KW_2$ | dBA2 | $RPM_3$ | $M/S_3$ | $KW_3$ | $dBA_3$ | $RPM_4$ | $M/S_4$ | $KW_4$ | $dBA_4$ |
| MAVA210 | 534 | 78.2% | 1620 | 7.4 | 2.3 | 77.5 | 2030 | 21.0 | 4.6 | 82.4 | 2465 | 11.2 | 8.2 | 86.6 | 2900 | 13.2 | 13.3 | 90.1 |
| MAVA240 | 610 | 80.0% | 1450 | 7.6 | 3.2 | 78.9 | 2030 | 10.6 | 8.8 | 86.2 | 2465 | 12 ^ | 15.8 | 90.4 | 2900 | 15.1 | 25.7 | 94.0 |
| MAVA270 | 686 | 81.8% | 1450 | 8.5 | 5.7 | 82.3 | 2030 | 11.9 | 15.7 | 89.6 | 2465 | 14.5 | 28.2 | 93.8 | 2900 | 17.0 | 45.9 | 97.3 |
| MAVA302 | 768 | 81.9% | 1450 | 9.5 | 10.1 | 85.7 | 2030 | 13.3 | 27.8 | 93.0 | 2465 | 16.2 | 49.7 | 97.2 | 2900 | 19.1 | 81.0 | 100.8 |
| MAVA340 | 864 | 81.9% | 1355 | 10.0 | 14.8 | 87.8 | 1897 | 14.0 | 40.7 | 95.1 | 2304 | 17.0 | 72.8 | 99.3 | 2711 | 20.0 | 118.6 | 102.8 |
| MAVA372 | 946 | 82.0% | 1237 | 10.0 | 17.8 | 88.5 | 1732 | 14.0 | 48.8 | 95.9 | 2103 | 17.0 | 87.3 | 100.1 | 2474 | 20.0 | 142.2 | 103.6 |
| MAVA405 | 1030 | 82.0% | 1138 | 10.0 | 21.0 | 89.3 | 1593 | 14.0 | 57.6 | 96.6 | 1934 | 17.0 | 103.2 | 100.8 | 2276 | 20.0 | 168.0 | 104.4 |
| MAVA450 | 1144 | 82.1% | 1024 | 10.0 | 25.9 | 90.2 | 1434 | 14.0 | 71.1 | 97.5 | 1741 | 17.0 | 127.3 | 101.7 | 2048 | 20.0 | 207.2 | 105.2 |
| MAVA500 | 1270 | 82.2% | 922 | 10.0 | 32.0 | 91.0 | 1290 | 14.0 | 87.7 | 98.3 | 1567 | 17.0 | 157.0 | 102.6 | 1843 | 20.0 | 255.6 | 106.1 |
| MAVA550 | 1398 | 82.2% | 838 | 10.0 | 38.6 | 91.9 | 1173 | 14.0 | 106.0 | 99.2 | 1424 | 17.0 | 189.8 | 103.4 | 1676 | 20.0 | 309.0 | 106.9 |
| MAVA600 | 1524 | 82.3% | 768 | 10.0 | 45.9 | 92.6 | 1075 | 14.0 | 126.0 | 99.9 | 1306 | 17.0 | 225.6 | 104.1 | 1536 | 20.0 | 367.4 | 107.6 |
| MAVA660 | 1676 | 82.4% | 698 | 10.0 | 55.5 | 93.4 | 977 | 14.0 | 152.3 | 100.7 | 1187 | 17.0 | 272.7 | 104.9 | 1396 | 20.0 | 444.0 | 108.4 |
| MAVA725 | 1842 | 82.5% | 636 | 10.0 | 66.9 | 94.2 | 890 | 14.0 | 183.6 | 101.5 | 1080 | 17.0 | 328.6 | 105.7 | 1271 | 20.0 | 535.1 | 109.2 |
| MAVA800 | 2032 | 82.6% | 576 | 10.0 | 81.3 | 95.0 | 806 | 14.0 | 223.2 | 102.3 | 979 | 17.0 | 399.6 | 106.5 | 1152 | 20.0 | 650.7 | 110.1 |

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| Impeller Type : Aerofoil Bladed, Backward Curved, Non Overloading, Single Width Single Inlet |
| Operating Conditions :Temperature $20^0$ C ; Atm.Pressure 101.325 kPa ; Inlet Air Density 1.2 $kg/m^3$ |
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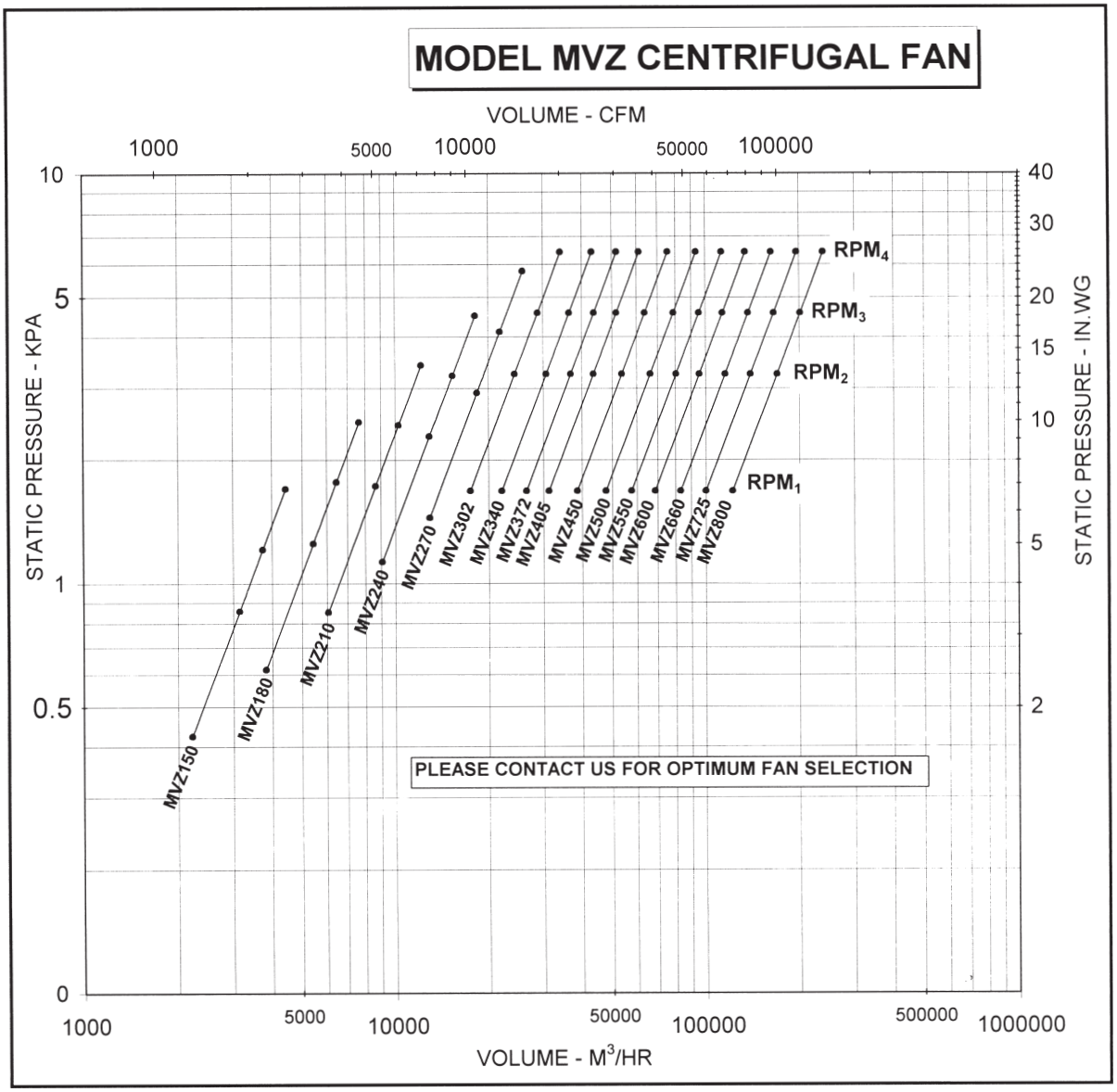


| MODEL NO. | IMP. DIAM. | EFF. % | RPM = Fan Speed ; M/S = Outlet Velocity ; KW = Absorbed Power ; dBA = Inlet or Outlet Noise @ 1 m | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $RPM_1$ | $M/S_1$ | $KW_1$ | $dBA_1$ | $RPM_2$ | $M/S_2$ | $KW_2$ | dBA2 | $RPM_3$ | $M/S_3$ | $KW_3$ | $dBA_3$ | $RPM_4$ | $M/S_4$ | $KW_4$ | $dBA_4$ |
| MVZ150 | 380 | 71.5% | 1450 | 5.9 | 0.4 | 67.6 | 2062 | 8.4 | 1.1 | 75.3 | 2449 | 10.0 | 1.8 | 79.0 | 2900 | 11.9 | 2.9 | 82.7 |
| MVZ180 | 458 | 73.1% | 1450 | 7.1 | 0.9 | 73.1 | 2062 | 10.1 | 2.6 | 80.8 | 2449 | 12.0 | 4.3 | 84.5 | 2900 | 14.2 | 7.2 | 88.2 |
| MVZ210 | 534 | 74.8% | 1450 | 8.3 | 1.9 | 77.6 | 2062 | 21.0 | 5.5 | 85.3 | 2449 | 14.0 | 9.3 | 89.0 | 2900 | 16.6 | 15.4 | 92.7 |
| MVZ240 | 610 | 76.5% | 1450 | 9.5 | 3.7 | 81.5 | 2062 | 13.5 | 10.7 | 89.1 | 2449 | 16.0 | 17.9 | 92.9 | 2900 | 19.0 | 29.8 | 96.5 |
| MVZ270 | 686 | 78.2% | 1450 | 10.7 | 6.6 | 84.8 | 2062 | 15.2 | 19.1 | 92.5 | 2449 | 18.0 | 32.0 | 96.2 | 2900 | 21.3 | 53.1 | 99.9 |
| MVZ302 | 768 | 78.2% | 1395 | 11.5 | 10.4 | 87.4 | 1941 | 16.0 | 28.1 | 94.6 | 2305 | 19.0 | 47.1 | 98.3 | 2729 | 22.5 | 78.1 | 102.0 |
| MVZ340 | 864 | 78.3% | 1241 | 11.5 | 13.2 | 88.4 | 1727 | 16.0 | 35.5 | 95.6 | 2050 | 19.0 | 59.4 | 99.3 | 2428 | 22.5 | 98.6 | 103.0 |
| MVZ372 | 946 | 78.3% | 1133 | 11.5 | 15.8 | 89.2 | 1576 | 16.0 | 42.6 | 96.4 | 1872 | 19.0 | 71.3 | 100.1 | 2216 | 22.5 | 118.3 | 103.8 |
| MVZ405 | 1030 | 78.4% | 1042 | 11.5 | 18.7 | 89.9 | 1450 | 16.0 | 50.3 | 97.1 | 1721 | 19.0 | 84.2 | 100.9 | 2039 | 22.5 | 139.8 | 104.5 |
| MVZ450 | 1144 | 78.5% | 938 | 11.5 | 23.0 | 90.8 | 1305 | 16.0 | 62.0 | 98.0 | 1549 | 19.0 | 103.8 | 101.7 | 1835 | 22.5 | 172.4 | 105.4 |
| MVZ500 | 1270 | 78.5% | 844 | 11.5 | 28.4 | 91.7 | 1174 | 16.0 | 76.5 | 98.9 | 1394 | 19.0 | 128.1 | 102.6 | 1651 | 22.5 | 212.7 | 106.3 |
| MVZ550 | 1398 | 78.6% | 767 | 11.5 | 34.3 | 92.5 | 1067 | 16.0 | 92.5 | 99.7 | 1268 | 19.0 | 154.8 | 103.4 | 1501 | 22.5 | 257.1 | 107.1 |
| MVZ600 | 1524 | 78.7% | 703 | 11.5 | 40.8 | 93.2 | 978 | 16.0 | 109.9 | 100.4 | 1162 | 19.0 | 184.1 | 104.1 | 1376 | 22.5 | 305.7 | 107.8 |
| MVZ660 | 1676 | 78.8% | 639 | 11.5 | 49.3 | 94.0 | 890 | 16.0 | 132.9 | 101.2 | 1056 | 19.0 | 222.5 | 104.9 | 1251 | 22.5 | 369.5 | 108.6 |
| MVZ725 | 1842 | 78.9% | 582 | 11.5 | 59.5 | 94.8 | 810 | 16.0 | 160.1 | 102.0 | 962 | 19.0 | 268.1 | 105.7 | 1139 | 22.5 | 445.3 | 109.4 |
| MVZ800 | 2032 | 79.0% | 527 | 11.5 | 72.3 | 95.7 | 734 | 16.0 | 194.7 | 102.8 | 871 | 19.0 | 326.0 | 106.6 | 1032 | 22.5 | 541.4 | 110.2 |

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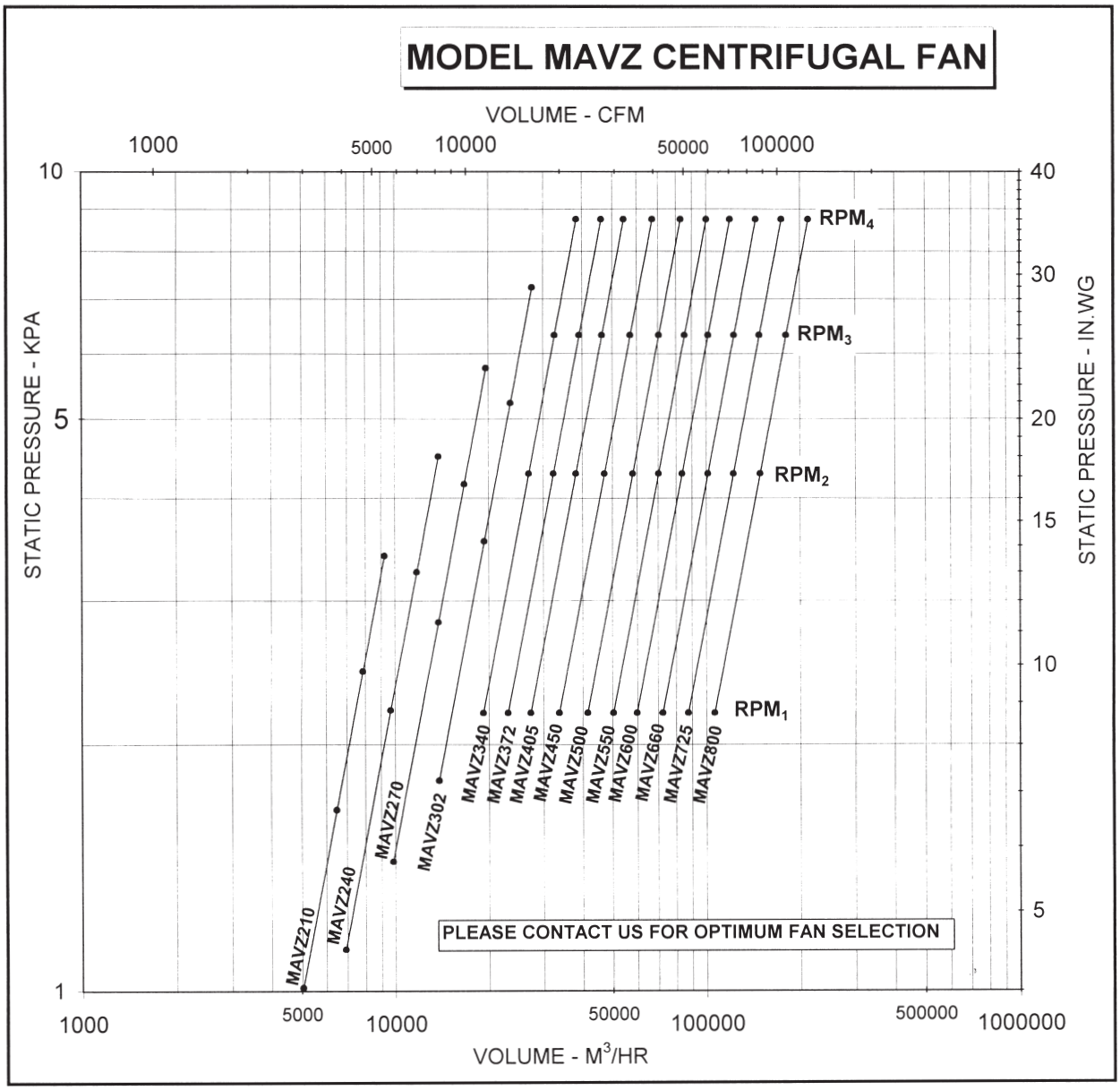
|---|
| Impeller Type : Laminar, Backward Inclined, Non Overloading, Single Width Single Inlet |
| Operating Conditions :Temperature $20^0$ C ; Atm.Pressure 101.325 kPa ; Inlet Air Density 1.2 $kg/m^3$ |
| Fan Peak Absorbed Power(kW) = Fan Absorbed Power(kW) x 1.0843 |
| Impeller Tip Speed(m/s) = 5.24 x $10^{-5}$ x Impeller Diameter(mm) x Fan Speed(rpm) |



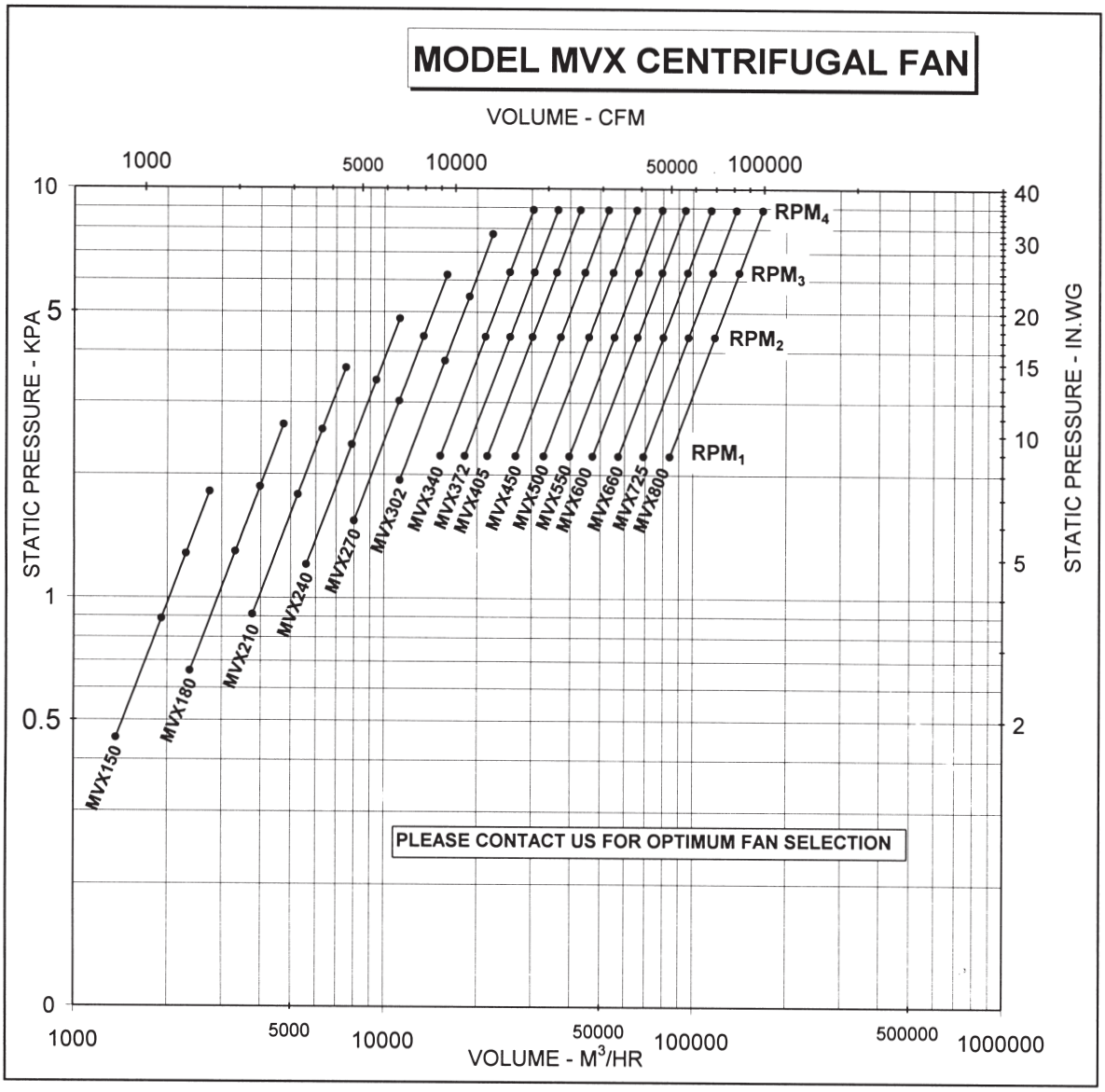

| MODEL NO. | IMP. DIAM. | EFF. % | RPM = Fan Speed ; M/S = Outlet Velocity ; KW = Absorbed Power ; dBA = Inlet or Outlet Noise @ 1 m | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $RPM_1$ | $M/S_1$ | $KW_1$ | $dBA_1$ | $RPM_2$ | $M/S_2$ | $KW_2$ | dBA2 | $RPM_3$ | $M/S_3$ | $KW_3$ | $dBA_3$ | $RPM_4$ | $M/S_4$ | $KW_4$ | $dBA_4$ |
| MAVZ210 | 534 | 81.3% | 1580 | 6.9 | 1.7 | 76.6 | 2030 | 21.0 | 3.7 | 82.1 | 2465 | 10.7 | 6.6 | 86.3 | 2900 | 12.6 | 10.8 | 89.8 |
| MAVZ240 | 610 | 83.1% | 1450 | 7.2 | 2.6 | 78.6 | 2030 | 10.1 | 7.1 | 85.9 | 2465 | 12.3 | 12.8 | 90.1 | 2900 | 14.4 | 20.8 | 93.7 |
| MAVZ270 | 686 | 85.0% | 1450 | 8.1 | 4.6 | 82.0 | 2030 | 11.4 | 12.7 | 89.3 | 2465 | 13.8 | 22.8 | 93.5 | 2900 | 16.3 | 37.1 | 97.0 |
| MAVZ302 | 768 | 85.0% | 1450 | 9.1 | 8.2 | 85.4 | 2030 | 12.7 | 22.5 | 92.7 | 2465 | 15.5 | 40.2 | 96.9 | 2900 | 18.2 | 65.5 | 100.4 |
| MAVZ340 | 864 | 85.1% | 1419 | 10.0 | 13.7 | 88.5 | 1986 | 14.0 | 37.7 | 95.8 | 2412 | 17.0 | 67.5 | 100.0 | 2838 | 20.0 | 110.0 | 103.5 |
| MAVZ372 | 946 | 85.2% | 1295 | 10.0 | 16.5 | 89.2 | 1813 | 14.0 | 45.2 | 96.5 | 2202 | 17.0 | 81.0 | 100.7 | 2590 | 20.0 | 131.9 | 104.3 |
| MAVZ405 | 1030 | 85.2% | 1191 | 10.0 | 19.5 | 90.0 | 1668 | 14.0 | 53.4 | 97.3 | 2025 | 17.0 | 95.7 | 101.5 | 2382 | 20.0 | 155.8 | 105.0 |
| MAVZ450 | 1144 | 85.3% | 1072 | 10.0 | 24.0 | 90.8 | 1501 | 14.0 | 65.9 | 98.2 | 1822 | 17.0 | 118.0 | 102.4 | 2144 | 20.0 | 192.2 | 105.9 |
| MAVZ500 | 1270 | 85.4% | 965 | 10.0 | 29.6 | 91.7 | 1351 | 14.0 | 81.3 | 99.0 | 1640 | 17.0 | 145.6 | 103.2 | 1930 | 20.0 | 237.1 | 106.8 |
| MAVZ550 | 1398 | 85.4% | 877 | 10.0 | 35.8 | 92.5 | 1228 | 14.0 | 98.3 | 99.9 | 1491 | 17.0 | 176.0 | 104.1 | 1754 | 20.0 | 286.6 | 107.6 |
| MAVZ600 | 1524 | 85.5% | 804 | 10.0 | 42.6 | 93.3 | 1126 | 14.0 | 116.9 | 100.6 | 1367 | 17.0 | 209.3 | 104.8 | 1608 | 20.0 | 340.7 | 108.3 |
| MAVZ660 | 1676 | 85.6% | 731 | 10.0 | 51.5 | 94.1 | 1023 | 14.0 | 141.3 | 101.4 | 1243 | 17.0 | 252.9 | 105.6 | 1462 | 20.0 | 411.8 | 109.1 |
| MAVZ725 | 1842 | 85.7% | 665 | 10.0 | 62.0 | 94.8 | 932 | 14.0 | 170.2 | 102.2 | 1131 | 17.0 | 304.8 | 106.4 | 1331 | 20.0 | 496.3 | 109.9 |
| MAVZ800 | 2032 | 85.8% | 603 | 10.0 | 75.4 | 95.7 | 844 | 14.0 | 207.0 | 103.0 | 1025 | 17.0 | 370.6 | 107.2 | 1206 | 20.0 | 603.5 | 110.7 |

Impeller Type : Aerofoil Bladed, Backward Curved, Non Overloading, Single Width Single Inlet

Operating Conditions :Temperature $20^0$ C ; Atm.Pressure 101.325 kPa ; Inlet Air Density 1.2 $kg/m^3$

Fan Peak Absorbed Power(kW) = Fan Absorbed Power(kW) x 1.0473

Impeller Tip Speed(m/s) = 5.24 x $10^{-5}$ x Impeller Diameter(mm) x Fan Speed(rpm)

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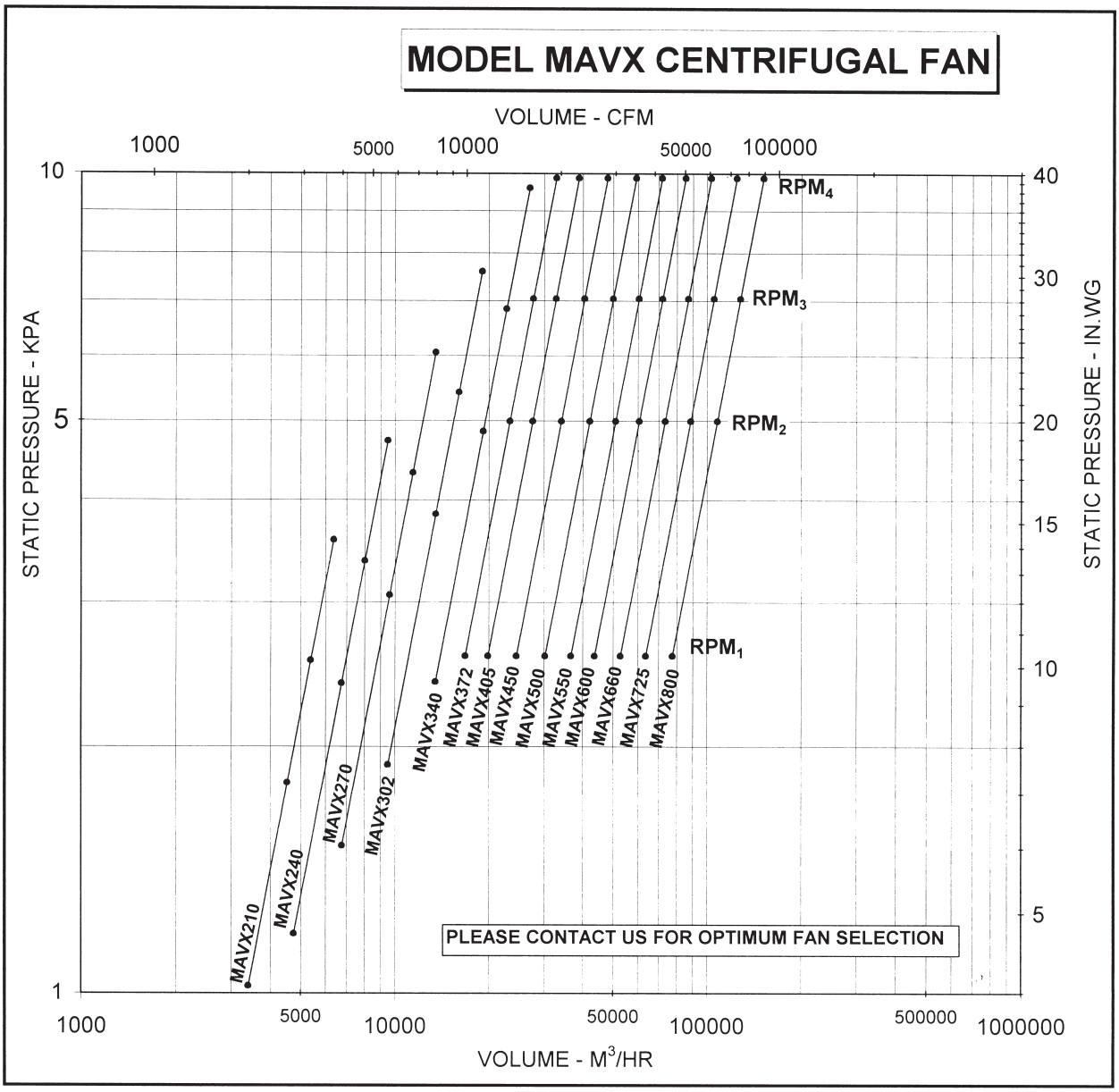
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $RPM_1$ | $M/S_1$ | $KW_1$ | $dBA_1$ | $RPM_2$ | $M/S_2$ | $KW_2$ | dBA2 | $RPM_3$ | $M/S_3$ | $KW_3$ | $dBA_3$ | $RPM_4$ | $M/S_4$ | $KW_4$ | $dBA_4$ |
| MVX150 | 380 | 70.4% | 1450 | 5.8 | 0.2 | 67.7 | 2030 | 8.1 | 0.7 | 75.1 | 2436 | 9.7 | 1.2 | 79.0 | 2900 | 11.6 | 2.0 | 82.8 |
| MVX180 | 458 | 72.0% | 1450 | 6.9 | 0.6 | 73.2 | 2030 | 9.7 | 1.7 | 80.5 | 2436 | 11.7 | 2.9 | 84.5 | 2900 | 13.9 | 4.8 | 88.3 |
| MVX210 | 534 | 73.6% | 1450 | 8.1 | 1.3 | 77.7 | 2030 | 21.0 | 3.5 | 85.0 | 2436 | 13.6 | 6.1 | 89.0 | 2900 | 16.2 | 10.3 | 92.8 |
| MVX240 | 610 | 75.3% | 1450 | 9.3 | 2.5 | 81.6 | 2030 | 13.0 | 6.9 | 88.9 | 2436 | 15.6 | 11.8 | 92.9 | 2900 | 18.5 | 20.0 | 96.6 |
| MVX270 | 686 | 77.0% | 1450 | 10.4 | 4.5 | 85.0 | 2030 | 14.6 | 12.2 | 92.3 | 2436 | 17.5 | 21.1 | 96.2 | 2900 | 20.8 | 35.6 | 100.0 |
| MVX302 | 768 | 77.1% | 1450 | 11.7 | 7.9 | 88.4 | 2030 | 16.3 | 21.6 | 95.7 | 2436 | 19.6 | 37.3 | 99.6 | 2900 | 23.4 | 62.9 | 103.4 |
| MVX340 | 864 | 77.1% | 1381 | 12.5 | 12.2 | 90.9 | 1934 | 17.5 | 33.4 | 98.2 | 2320 | 21.0 | 57.7 | 102.2 | 2762 | 25.0 | 97.4 | 105.9 |
| MVX372 | 946 | 77.2% | 1261 | 12.5 | 14.6 | 91.6 | 1765 | 17.5 | 40.1 | 98.9 | 2118 | 21.0 | 69.3 | 102.9 | 2521 | 25.0 | 116.9 | 106.7 |
| MVX405 | 1030 | 77.2% | 1160 | 12.5 | 17.3 | 92.4 | 1623 | 17.5 | 47.4 | 99.7 | 1948 | 21.0 | 81.8 | 103.7 | 2319 | 25.0 | 138.1 | 107.4 |
| MVX450 | 1144 | 77.3% | 1044 | 12.5 | 21.3 | 93.3 | 1461 | 17.5 | 58.4 | 100.6 | 1753 | 21.0 | 100.9 | 104.5 | 2087 | 25.0 | 170.3 | 108.3 |
| MVX500 | 1270 | 77.3% | 939 | 12.5 | 26.3 | 94.1 | 1315 | 17.5 | 72.1 | 101.4 | 1578 | 21.0 | 124.5 | 105.4 | 1878 | 25.0 | 210.1 | 109.2 |
| MVX550 | 1398 | 77.4% | 854 | 12.5 | 31.7 | 95.0 | 1195 | 17.5 | 87.1 | 102.3 | 1434 | 21.0 | 150.5 | 106.2 | 1708 | 25.0 | 253.9 | 110.0 |
| MVX600 | 1524 | 77.5% | 783 | 12.5 | 37.7 | 95.7 | 1096 | 17.5 | 103.6 | 103.0 | 1315 | 21.0 | 179.0 | 106.9 | 1565 | 25.0 | 301.9 | 110.7 |
| MVX660 | 1676 | 77.6% | 712 | 12.5 | 45.6 | 96.5 | 996 | 17.5 | 125.2 | 103.8 | 1195 | 21.0 | 216.3 | 107.7 | 1423 | 25.0 | 364.9 | 111.5 |
| MVX725 | 1842 | 77.7% | 648 | 12.5 | 55.0 | 97.3 | 907 | 17.5 | 150.8 | 104.6 | 1088 | 21.0 | 260.7 | 108.5 | 1295 | 25.0 | 439.8 | 112.3 |
| MVX800 | 2032 | 77.8% | 587 | 12.5 | 66.8 | 98.1 | 822 | 17.5 | 183.4 | 105.4 | 986 | 21.0 | 316.9 | 109.4 | 1174 | 25.0 | 534.7 | 113.2 |

| |
|---|
| Impeller Type : Laminar, Backward Inclined, Non Overloading, Single Width Single Inlet |
| Operating Conditions :Temperature $20^0$ C ; Atm.Pressure 101.325 kPa ; Inlet Air Density 1.2 $kg/m^3$ |
| Fan Peak Absorbed Power(kW) = Fan Absorbed Power(kW) x 1.215 |
| Impeller Tip Speed(m/s) = 5.24 x $10^{-5}$ x Impeller Diameter(mm) x Fan Speed(rpm) |



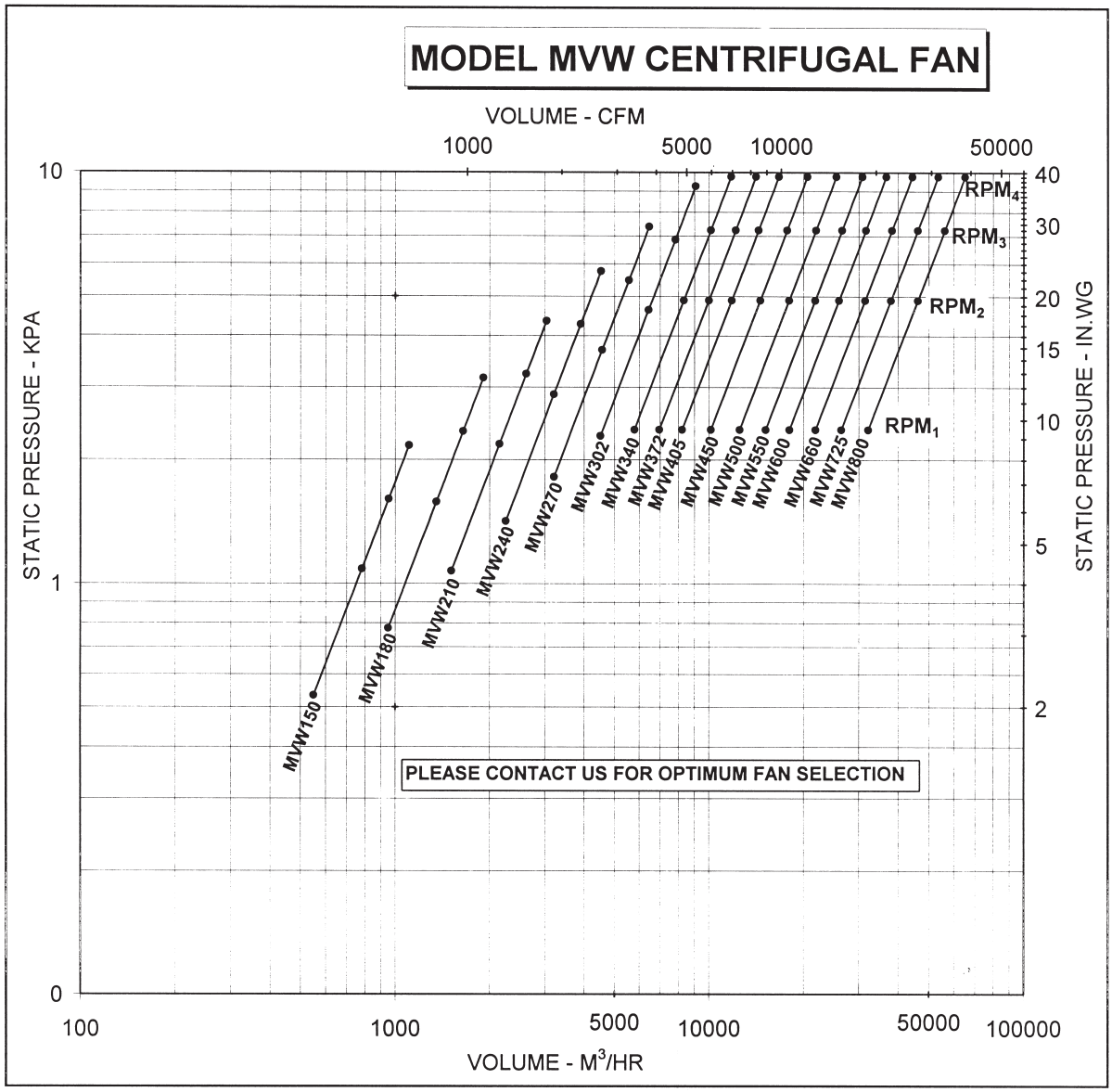

| MODEL NO. | IMP. DIAM. | EFF. % | RPM = Fan Speed ; M/S = Outlet Velocity ; KW = Absorbed Power ; dBA = Inlet or Outlet Noise @ 1 m | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $RPM_1$ | $M/S_1$ | $KW_1$ | $dBA_1$ | $RPM_2$ | $M/S_2$ | $KW_2$ | dBA2 | $RPM_3$ | $M/S_3$ | $KW_3$ | $dBA_3$ | $RPM_4$ | $M/S_4$ | $KW_4$ | $dBA_4$ |
| MAVX210 | 534 | 78.4% | 1550 | 7.3 | 1.2 | 76.5 | 2062 | 21.0 | 2.9 | 82.7 | 2449 | 11.6 | 4.9 | 86.4 | 2900 | 13.7 | 8.1 | 90.1 |
| MAVX240 | 610 | 80.2% | 1450 | 7.8 | 1.9 | 78.9 | 2062 | 11.1 | 5.6 | 86.5 | 2449 | 13.2 | 9.4 | 90.3 | 2900 | 15.7 | 15.6 | 94.0 |
| MAVX270 | 686 | 82.0% | 1450 | 8.8 | 3.5 | 82.3 | 2062 | 12.5 | 10.0 | 89.9 | 2449 | 14.9 | 16.7 | 93.7 | 2900 | 17.6 | 27.8 | 97.3 |
| MAVX302 | 768 | 82.0% | 1450 | 9.9 | 6.1 | 85.7 | 2062 | 14.1 | 17.6 | 93.3 | 2449 | 16.7 | 29.5 | 97.1 | 2900 | 19.8 | 49.1 | 100.7 |
| MAVX340 | 864 | 82.1% | 1450 | 11.1 | 11.0 | 89.2 | 2062 | 15.8 | 31.6 | 96.9 | 2449 | 18.8 | 52.9 | 100.6 | 2900 | 22.2 | 87.9 | 104.3 |
| MAVX372 | 946 | 82.1% | 1372 | 11.5 | 14.7 | 90.8 | 1909 | 16.0 | 39.6 | 98.0 | 2267 | 19.0 | 66.3 | 101.7 | 2685 | 22.5 | 110.0 | 105.4 |
| MAVX405 | 1030 | 82.2% | 1262 | 11.5 | 17.4 | 91.5 | 1756 | 16.0 | 46.7 | 98.7 | 2085 | 19.0 | 78.3 | 102.4 | 2469 | 22.5 | 130.0 | 106.1 |
| MAVX450 | 1144 | 82.3% | 1136 | 11.5 | 21.4 | 92.4 | 1580 | 16.0 | 57.7 | 99.6 | 1877 | 19.0 | 96.5 | 103.3 | 2222 | 22.5 | 160.3 | 107.0 |
| MAVX500 | 1270 | 82.3% | 1022 | 11.5 | 26.4 | 93.3 | 1422 | 16.0 | 71.1 | 100.4 | 1689 | 19.0 | 119.1 | 104.2 | 2000 | 22.5 | 197.8 | 107.9 |
| MAVX550 | 1398 | 82.4% | 929 | 11.5 | 31.9 | 94.1 | 1293 | 16.0 | 86.0 | 101.3 | 1535 | 19.0 | 144.0 | 105.0 | 1818 | 22.5 | 239.1 | 108.7 |
| MAVX600 | 1524 | 82.5% | 852 | 11.5 | 38.0 | 94.8 | 1185 | 16.0 | 102.2 | 102.0 | 1407 | 19.0 | 171.2 | 105.7 | 1667 | 22.5 | 284.2 | 109.4 |
| MAVX660 | 1676 | 82.6% | 774 | 11.5 | 45.9 | 95.6 | 1077 | 16.0 | 123.5 | 102.8 | 1279 | 19.0 | 206.9 | 106.5 | 1515 | 22.5 | 343.5 | 110.2 |
| MAVX725 | 1842 | 82.7% | 705 | 11.5 | 55.3 | 96.4 | 981 | 16.0 | 148.9 | 103.6 | 1165 | 19.0 | 249.3 | 107.3 | 1379 | 22.5 | 414.0 | 111.0 |
| MAVX800 | 2032 | 82.8% | 639 | 11.5 | 67.2 | 97.2 | 889 | 16.0 | 181.0 | 104.4 | 1056 | 19.0 | 303.1 | 108.1 | 1250 | 22.5 | 503.4 | 111.8 |

Impeller Type : Aerofoil Bladed, Backward Curved, Non Overloading, Single Width Single Inlet

Operating Conditions :Temperature $20^0$ C ; Atm.Pressure 101.325 kPa ; Inlet Air Density 1.2 $kg/m^3$

Fan Peak Absorbed Power(kW) = Fan Absorbed Power(kW) x 1.1888

Impeller Tip Speed(m/s) = 5.24 x $10^{-5}$ x Impeller Diameter(mm) x Fan Speed(rpm)



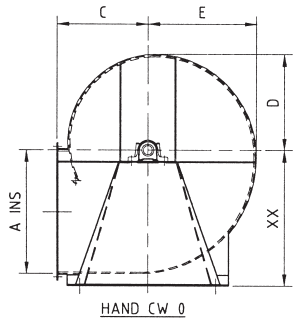

| MODEL NO. | IMP. DIAM. | EFF. % | RPM = Fan Speed ; M/S = Outlet Velocity ; KW = Absorbed Power ; dBA = Inlet or Outlet Noise @ 1 m | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $RPM_1$ | $M/S_1$ | $KW_1$ | $dBA_1$ | $RPM_2$ | $M/S_2$ | $KW_2$ | dBA2 | $RPM_3$ | $M/S_3$ | $KW_3$ | $dBA_3$ | $RPM_4$ | $M/S_4$ | $KW_4$ | $dBA_4$ |
| MVW150 | 380 | 69.4% | 1440 | 7.8 | 0.1 | 67.7 | 2052 | 11.1 | 0.3 | 75.4 | 2498 | 13.5 | 0.6 | 79.7 | 2900 | 15.7 | 1.0 | 82.9 |
| MVW180 | 458 | 70.9% | 1440 | 9.3 | 0.3 | 73.2 | 2052 | 13.3 | 0.8 | 80.9 | 2498 | 16.2 | 1.5 | 85.2 | 2900 | 18.8 | 2.4 | 88.4 |
| MVW210 | 534 | 72.5% | 1440 | 10.9 | 0.6 | 77.7 | 2052 | 21.0 | 1.8 | 85.4 | 2498 | 18.9 | 3.2 | 89.7 | 2900 | 22.0 | 5.1 | 92.9 |
| MVW240 | 610 | 74.2% | 1440 | 12.5 | 1.2 | 81.5 | 2052 | 17.8 | 3.5 | 89.2 | 2498 | 21.6 | 6.3 | 93.5 | 2900 | 25.1 | 9.8 | 96.8 |
| MVW270 | 686 | 75.8% | 1440 | 14.0 | 2.1 | 84.9 | 2052 | 20.0 | 6.2 | 92.6 | 2498 | 24.3 | 11.2 | 96.9 | 2900 | 28.2 | 17.5 | 100.1 |
| MVW302 | 768 | 75.9% | 1440 | 15.7 | 3.8 | 88.3 | 2052 | 22.4 | 10.9 | 96.0 | 2498 | 27.2 | 19.7 | 100.3 | 2900 | 31.6 | 30.8 | 103.6 |
| MVW340 | 864 | 75.9% | 1304 | 16.0 | 5.0 | 89.8 | 1875 | 23.0 | 14.9 | 97.6 | 2283 | 28.0 | 26.9 | 101.9 | 2649 | 32.5 | 42.1 | 105.1 |
| MVW372 | 946 | 76.0% | 1191 | 16.0 | 6.0 | 90.5 | 1711 | 23.0 | 17.9 | 98.4 | 2083 | 28.0 | 32.3 | 102.7 | 2418 | 32.5 | 50.5 | 105.9 |
| MVW405 | 1030 | 76.0% | 1095 | 16.0 | 7.1 | 91.3 | 1574 | 23.0 | 21.2 | 99.1 | 1916 | 28.0 | 38.2 | 103.4 | 2224 | 32.5 | 59.7 | 106.7 |
| MVW450 | 1144 | 76.1% | 985 | 16.0 | 8.8 | 92.1 | 1417 | 23.0 | 26.1 | 100.0 | 1725 | 28.0 | 47.1 | 104.3 | 2002 | 32.5 | 73.6 | 107.5 |
| MVW500 | 1270 | 76.2% | 887 | 16.0 | 10.8 | 93.0 | 1275 | 23.0 | 32.2 | 100.9 | 1552 | 28.0 | 58.1 | 105.2 | 1802 | 32.5 | 90.8 | 108.4 |
| MVW550 | 1398 | 76.2% | 806 | 16.0 | 13.1 | 93.8 | 1159 | 23.0 | 38.9 | 101.7 | 1411 | 28.0 | 70.2 | 106.0 | 1638 | 32.5 | 109.8 | 109.2 |
| MVW600 | 1524 | 76.3% | 739 | 16.0 | 15.6 | 94.5 | 1062 | 23.0 | 46.3 | 102.4 | 1293 | 28.0 | 83.5 | 106.7 | 1501 | 32.5 | 130.5 | 109.9 |
| MVW660 | 1676 | 76.4% | 672 | 16.0 | 18.8 | 95.3 | 966 | 23.0 | 55.9 | 103.2 | 1176 | 28.0 | 100.9 | 107.5 | 1365 | 32.5 | 157.8 | 110.7 |
| MVW725 | 1842 | 76.5% | 612 | 16.0 | 22.7 | 96.1 | 879 | 23.0 | 67.4 | 104.0 | 1070 | 28.0 | 121.6 | 108.3 | 1242 | 32.5 | 190.1 | 111.5 |
| MVW800 | 2032 | 76.6% | 554 | 16.0 | 27.6 | 97.0 | 797 | 23.0 | 81.9 | 104.9 | 970 | 28.0 | 147.8 | 109.1 | 1126 | 32.5 | 231.2 | 112.4 |

| |
|---|
| Impeller Type : Laminar, Backward Inclined, Non Overloading, Single Width Single Inlet |
| Operating Conditions :Temperature $20^0$ C ; Atm.Pressure 101.325 kPa ; Inlet Air Density 1.2 $kg/m^3$ |
| Fan Peak Absorbed Power(kW) = Fan Absorbed Power(kW) x 1.4974 |
| Impeller Tip Speed(m/s) = 5.24 x $10^{-5}$ x Impeller Diameter(mm) x Fan Speed(rpm) |

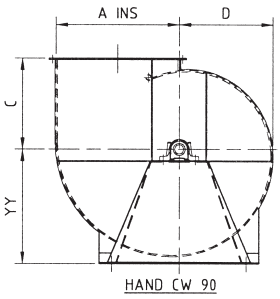
# MVA MAVA FANS
# MVZ MAVZ FANS

## ARR 1 BARE SHAFT

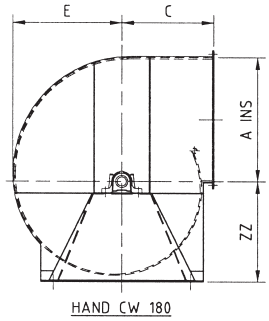
NOTE CLOCKWISE ROTATION SHOWN
FOR ANTI CLOCKWISE ROTATION
SYMMETRICALLY OPPOSITE



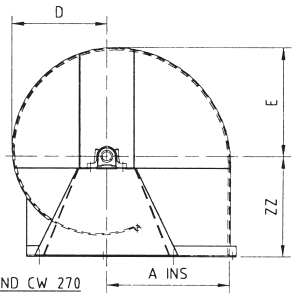
HAND CW 0



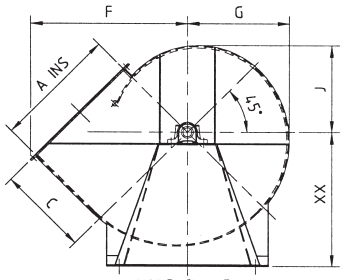
HAND CW 90



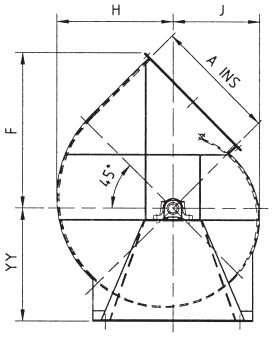
HAND CW 180



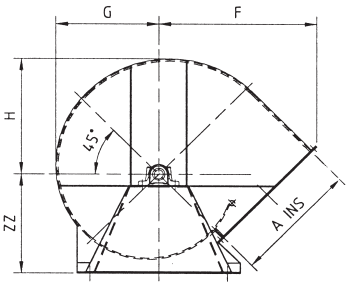
HAND CW 270



HAND CW 45

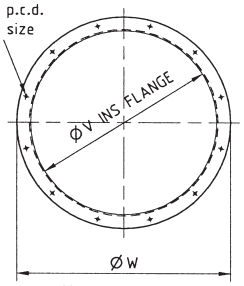


HAND CW 135

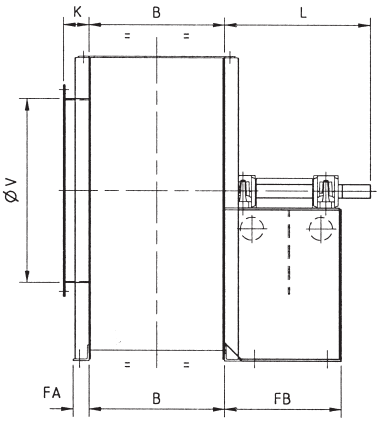


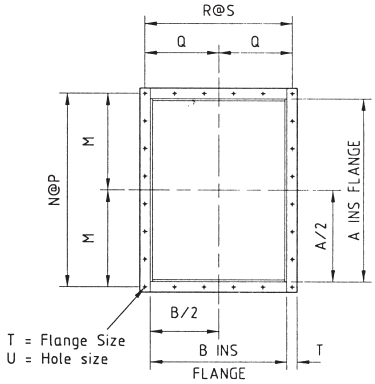
HAND CW 225

X = No of holes
Y = Hole p.c.d.
Z = Hole size



INLET FLANGE DETAIL
(OPTIONAL)



DISCHARGE FLANGE DETAIL

NOTE: SIZE 150 & 180 AVAILABLE MVA & MVZ FANS ONLY.
MVA IDENTICAL TO MAVA DIMENSIONS
MVZ IDENTICAL TO MAVZ DIMENSIONS

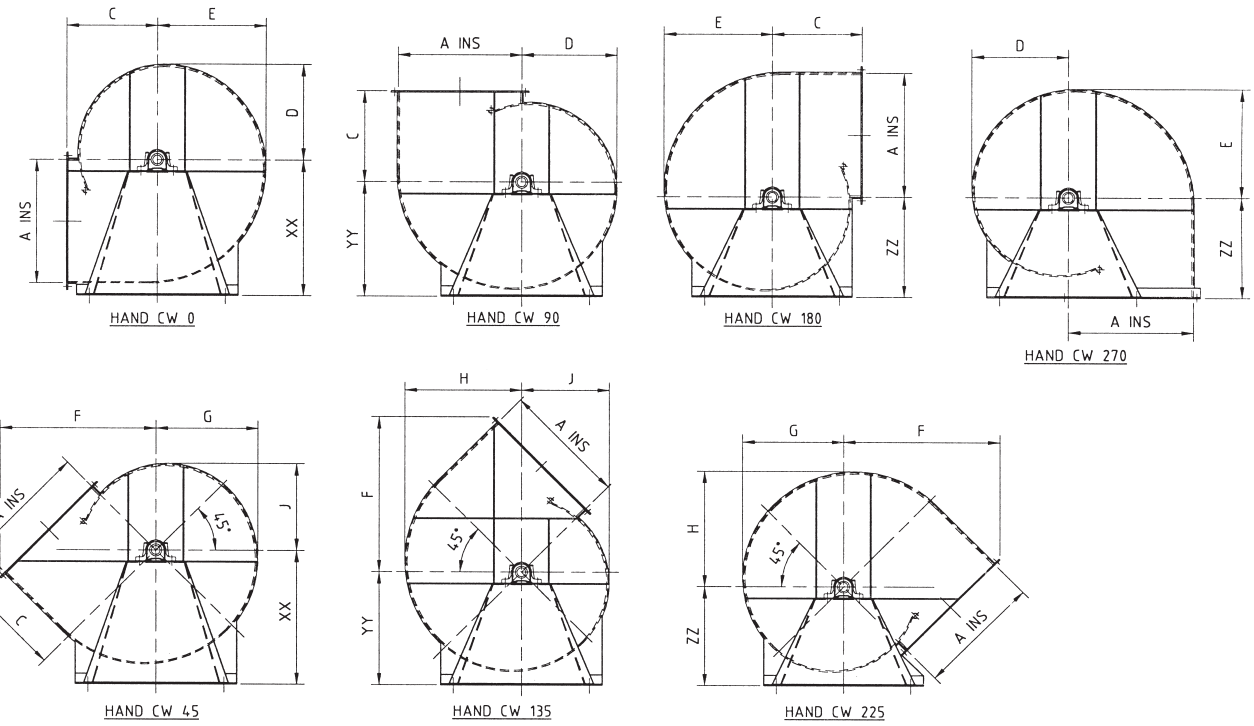
DIMENSIONS SHOULD NOT BE USED FOR CONSTRUCTIONAL PURPOSES WITHOUT OUR CERTIFICATION

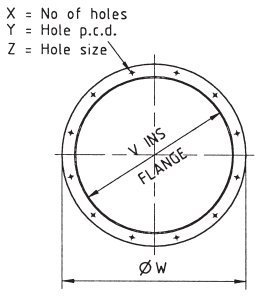
| | GENERAL | | | | | | | | | | | | DISCHARGE FLANGE | | | | | | | | | | INLET FL. | | | | | CENTER HT | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIZE | A | MAVA B | MAVZ B | C | D | E | F | G | H | J | K | L | M | N | P | MAVA Q | MAVZ Q | R | MAVA S | MAVZ S | T | U | V | W | X | Y | Z | XX | YY | ZZ | FA | FB |
| 150 | 410 | 304 | 254 | 300 | 312 | 356 | 530 | 335 | 385 | 288 | 48 | 330 | 228 | 4 | 114 | 177 | 150 | 3 | 118 | 100 | 40 | 11 | 408 | 488 | 8 | 456 | 11 | 480 | 410 | 370 | 40 | 280 |
| 180 | 490 | 364 | 306 | 360 | 376 | 428 | 630 | 404 | 460 | 346 | 78 | 490 | 268 | 4 | 134 | 207 | 177 | 3 | 138 | 118 | 40 | 11 | 490 | 570 | 8 | 538 | 11 | 580 | 480 | 430 | 50 | 410 |
| 210 | 574 | 426 | 356 | 420 | 438 | 500 | 760 | 470 | 537 | 400 | 78 | 500 | 310 | 5 | 124 | 236 | 201 | 4 | 118 | 100 | 40 | 12 | 570 | 650 | 8 | 618 | 12 | 650 | 550 | 490 | 50 | 430 |
| 240 | 656 | 486 | 406 | 475 | 500 | 570 | 835 | 536 | 620 | 468 | 78 | 500 | 350 | 5 | 140 | 266 | 226 | 4 | 133 | 113 | 40 | 12 | 650 | 750 | 12 | 706 | 13 | 740 | 620 | 550 | 50 | 430 |
| 270 | 738 | 546 | 458 | 535 | 562 | 640 | 940 | 610 | 700 | 525 | 102 | 650 | 396 | 6 | 132 | 300 | 254 | 4 | 150 | 127 | 50 | 13 | 730 | 830 | 12 | 786 | 13 | 840 | 690 | 610 | 65 | 540 |
| 302 | 826 | 612 | 512 | 620 | 640 | 730 | 1058 | 686 | 776 | 590 | 102 | 650 | 444 | 6 | 148 | 336 | 284 | 4 | 168 | 142 | 50 | 14 | 816 | 916 | 12 | 872 | 14 | 900 | 770 | 670 | 65 | 540 |
| 340 | 928 | 688 | 576 | 675 | 716 | 816 | 1186 | 766 | 876 | 660 | 102 | 690 | 492 | 6 | 164 | 375 | 315 | 5 | 150 | 126 | 50 | 14 | 918 | 1048 | 12 | 990 | 14 | 1010 | 860 | 760 | 75 | 560 |
| 372 | 1016 | 754 | 632 | 740 | 784 | 894 | 1280 | 836 | 958 | 718 | 120 | 730 | 537 | 6 | 179 | 405 | 345 | 5 | 162 | 138 | 50 | 14 | 1006 | 1136 | 16 | 1078 | 14 | 1120 | 940 | 830 | 75 | 600 |
| 405 | 1106 | 820 | 686 | 840 | 852 | 970 | 1430 | 914 | 1046 | 788 | 120 | 730 | 588 | 8 | 147 | 447 | 378 | 6 | 149 | 126 | 65 | 18 | 1092 | 1222 | 16 | 1162 | 14 | 1200 | 1020 | 900 | 75 | 600 |
| 450 | 1228 | 910 | 762 | 890 | 946 | 1078 | 1544 | 1012 | 1157 | 870 | 120 | 880 | 648 | 8 | 162 | 489 | 417 | 6 | 163 | 139 | 65 | 18 | 1214 | 1344 | 16 | 1286 | 14 | 1340 | 1140 | 1000 | 75 | 720 |
| 500 | 1364 | 1012 | 848 | 990 | 1050 | 1198 | 1720 | 1130 | 1290 | 970 | 120 | 980 | 728 | 8 | 182 | 552 | 468 | 6 | 184 | 156 | 75 | 18 | 1350 | 1480 | 24 | 1422 | 14 | 1500 | 1250 | 1100 | 75 | 810 |
| 550 | 1500 | 1112 | 932 | 1090 | 1156 | 1316 | 1896 | 1250 | 1426 | 1070 | 120 | 980 | 796 | 8 | 199 | 600 | 510 | 6 | 200 | 170 | 75 | 18 | 1486 | 1616 | 24 | 1558 | 14 | 1640 | 1380 | 1220 | 75 | 810 |
| 600 | 1638 | 1214 | 1016 | 1190 | 1260 | 1436 | 2070 | 1370 | 1560 | 1170 | 153 | 1120 | 865 | 10 | 173 | 652 | 552 | 8 | 163 | 138 | 75 | 18 | 1620 | 1770 | 24 | 1710 | 14 | 1760 | 1500 | 1300 | 75 | 950 |
| 660 | 1800 | 1336 | 1118 | 1310 | 1384 | 1578 | 2245 | 1480 | 1690 | 1275 | 153 | 1120 | 945 | 10 | 189 | 712 | 604 | 8 | 178 | 151 | 75 | 18 | 1780 | 1930 | 24 | 1870 | 18 | 1960 | 1640 | 1450 | 100 | 950 |
| 725 | 1978 | 1466 | 1228 | 1450 | 1520 | 1732 | 2460 | 1630 | 1866 | 1400 | 153 | 1160 | 1032 | 12 | 172 | 776 | 660 | 8 | 178 | 165 | 75 | 18 | 1954 | 2104 | 24 | 2044 | 18 | 2130 | 1800 | 1580 | 100 | 990 |
| 800 | 2184 | 1618 | 1356 | 1580 | 1676 | 1910 | 2720 | 1800 | 2060 | 1550 | 153 | 1220 | 1134 | 12 | 189 | 855 | 725 | 10 | 171 | 145 | 75 | 18 | 2156 | 2306 | 24 | 2246 | 18 | 2350 | 2000 | 1760 | 100 | 1110 |

# MVX MAVX FANS

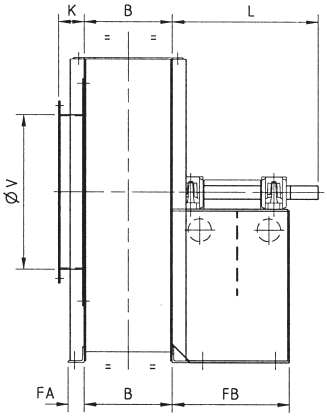
## ARR 1

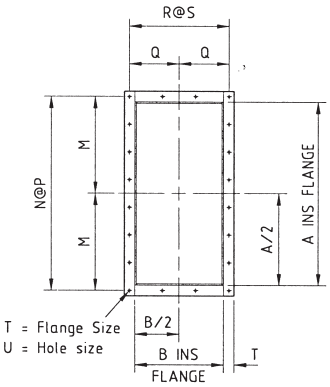
NOTE CLOCKWISE ROTATION SHOWN
FOR ANTI CLOCKWISE ROTATION
SYMMETRICALLY OPPOSITE




INLET FLANGE DETAIL
(OPTIONAL)




DISCHARGE FLANGE DETAIL

NOTE: SIZE 150 & 180 AVAILABLE MVX FANS ONLY.

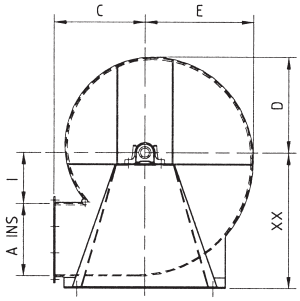
DIMENSIONS SHOULD NOT BE USED FOR CONSTRUCTIONAL PURPOSES WITHOUT OUR CERTIFICATION

| | GENERAL | | | | | | | | | | | DISCHARGE FLANGE | | | | | | | | INLET FL. | | | | | CENTER HT | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIZE | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | S | T | U | V | W | X | Y | Z | XX | YY | ZZ | FA | FB |
| 150 | 380 | 174 | 265 | 268 | 318 | 486 | 294 | 350 | 250 | 48 | 330 | 216 | 3 | 144 | 110 | 2 | 110 | 40 | 11 | 302 | 382 | 8 | 350 | 11 | 450 | 370 | 330 | 40 | 280 |
| 180 | 458 | 208 | 320 | 322 | 380 | 578 | 352 | 420 | 300 | 75 | 490 | 252 | 3 | 168 | 128 | 2 | 128 | 40 | 11 | 362 | 442 | 8 | 410 | 11 | 550 | 430 | 370 | 50 | 410 |
| 210 | 534 | 242 | 370 | 376 | 446 | 670 | 412 | 490 | 350 | 75 | 490 | 290 | 4 | 145 | 144 | 3 | 96 | 40 | 12 | 422 | 502 | 8 | 470 | 12 | 630 | 500 | 430 | 50 | 410 |
| 240 | 610 | 280 | 425 | 430 | 508 | 770 | 472 | 562 | 404 | 75 | 500 | 335 | 5 | 134 | 168 | 3 | 112 | 50 | 12 | 482 | 582 | 12 | 540 | 12 | 720 | 560 | 480 | 50 | 420 |
| 270 | 686 | 312 | 500 | 484 | 572 | 874 | 528 | 630 | 452 | 75 | 650 | 370 | 5 | 148 | 183 | 3 | 122 | 50 | 13 | 560 | 640 | 12 | 596 | 13 | 800 | 630 | 540 | 65 | 540 |
| 302 | 768 | 350 | 540 | 540 | 640 | 960 | 594 | 708 | 598 | 75 | 650 | 408 | 6 | 136 | 204 | 3 | 136 | 50 | 14 | 604 | 704 | 12 | 660 | 13 | 870 | 700 | 600 | 65 | 540 |
| 340 | 864 | 392 | 600 | 608 | 720 | 1070 | 670 | 800 | 572 | 100 | 690 | 462 | 6 | 154 | 225 | 3 | 150 | 50 | 14 | 678 | 778 | 12 | 734 | 13 | 960 | 780 | 670 | 75 | 560 |
| 372 | 946 | 430 | 660 | 666 | 788 | 1170 | 734 | 874 | 626 | 100 | 690 | 501 | 6 | 167 | 244 | 4 | 122 | 50 | 14 | 742 | 842 | 12 | 800 | 14 | 1050 | 850 | 710 | 75 | 560 |
| 405 | 1030 | 468 | 720 | 724 | 858 | 1284 | 776 | 950 | 682 | 100 | 730 | 552 | 8 | 138 | 274 | 4 | 137 | 65 | 18 | 806 | 936 | 12 | 878 | 18 | 1150 | 920 | 770 | 75 | 600 |
| 450 | 1144 | 520 | 800 | 804 | 954 | 1420 | 882 | 1054 | 756 | 120 | 850 | 608 | 8 | 152 | 296 | 4 | 148 | 65 | 18 | 900 | 1030 | 16 | 970 | 18 | 1260 | 1020 | 850 | 75 | 690 |
| 500 | 1270 | 576 | 890 | 894 | 1058 | 1580 | 980 | 1170 | 838 | 120 | 880 | 680 | 8 | 170 | 332 | 4 | 166 | 75 | 18 | 998 | 1128 | 16 | 1070 | 18 | 1400 | 1120 | 950 | 75 | 720 |
| 550 | 1398 | 634 | 970 | 984 | 1164 | 1730 | 1080 | 1288 | 922 | 120 | 980 | 745 | 10 | 149 | 362 | 4 | 181 | 75 | 18 | 1098 | 1228 | 16 | 1170 | 18 | 1530 | 1220 | 1040 | 75 | 810 |
| 600 | 1524 | 690 | 1060 | 1072 | 1270 | 1880 | 1178 | 1406 | 1006 | 120 | 980 | 805 | 10 | 161 | 390 | 5 | 156 | 75 | 18 | 1196 | 1326 | 16 | 1268 | 18 | 1660 | 1330 | 1120 | 75 | 810 |
| 660 | 1676 | 762 | 1170 | 1180 | 1400 | 2066 | 1296 | 1546 | 1106 | 120 | 1060 | 885 | 10 | 177 | 425 | 5 | 170 | 75 | 18 | 1314 | 1444 | 24 | 1386 | 18 | 1810 | 1450 | 1230 | 100 | 890 |
| 725 | 1842 | 836 | 1280 | 1296 | 1536 | 2260 | 1422 | 1700 | 1216 | 120 | 1120 | 966 | 12 | 161 | 465 | 6 | 155 | 75 | 18 | 1442 | 1572 | 24 | 1514 | 18 | 1980 | 1600 | 1350 | 100 | 950 |
| 800 | 2032 | 922 | 1420 | 1430 | 1694 | 2496 | 1570 | 1875 | 1342 | 120 | 1160 | 1062 | 12 | 177 | 507 | 6 | 169 | 75 | 18 | 1590 | 1740 | 24 | 1680 | 18 | 2180 | 1760 | 1480 | 100 | 990 |

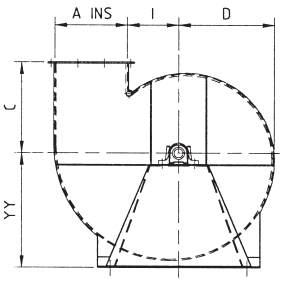
# MVW FANS

## ARR 1 BARE SHAFT

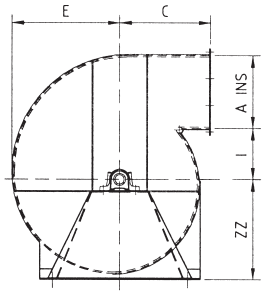
NOTE CLOCKWISE ROTATION SHOWN
FOR ANTI CLOCKWISE ROTATION
SYMMETRICALLY OPPOSITE



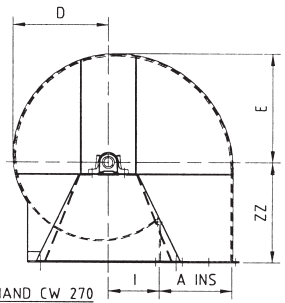

HAND CW 0



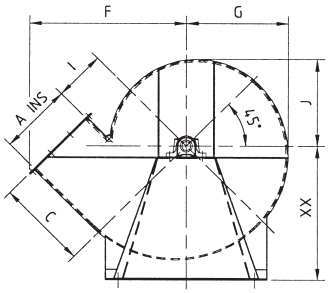

HAND CW 90



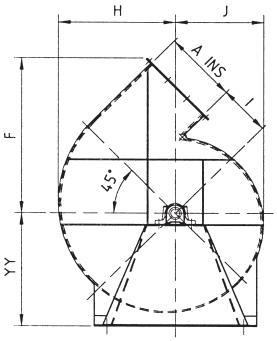

HAND CW 180



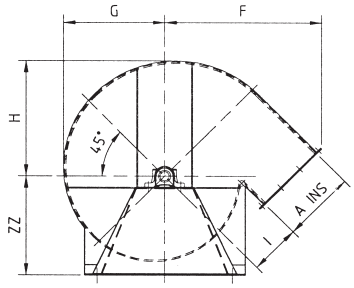

HAND CW 270



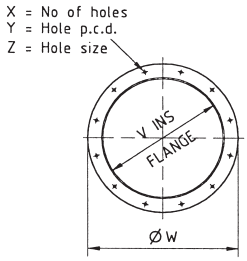

HAND CW 45



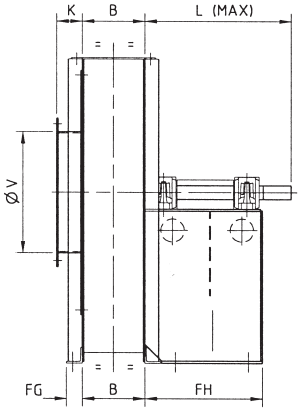

HAND CW 135

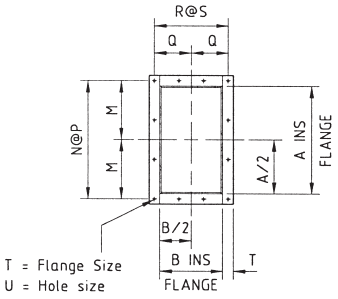



HAND CW 225




INLET FLANGE DETAIL
(OPTIONAL)




DISCHARGE FLANGE DETAIL

DIMENSIONS SHOULD NOT BE USED FOR CONSTRUCTIONAL PURPOSES WITHOUT OUR CERTIFICATION

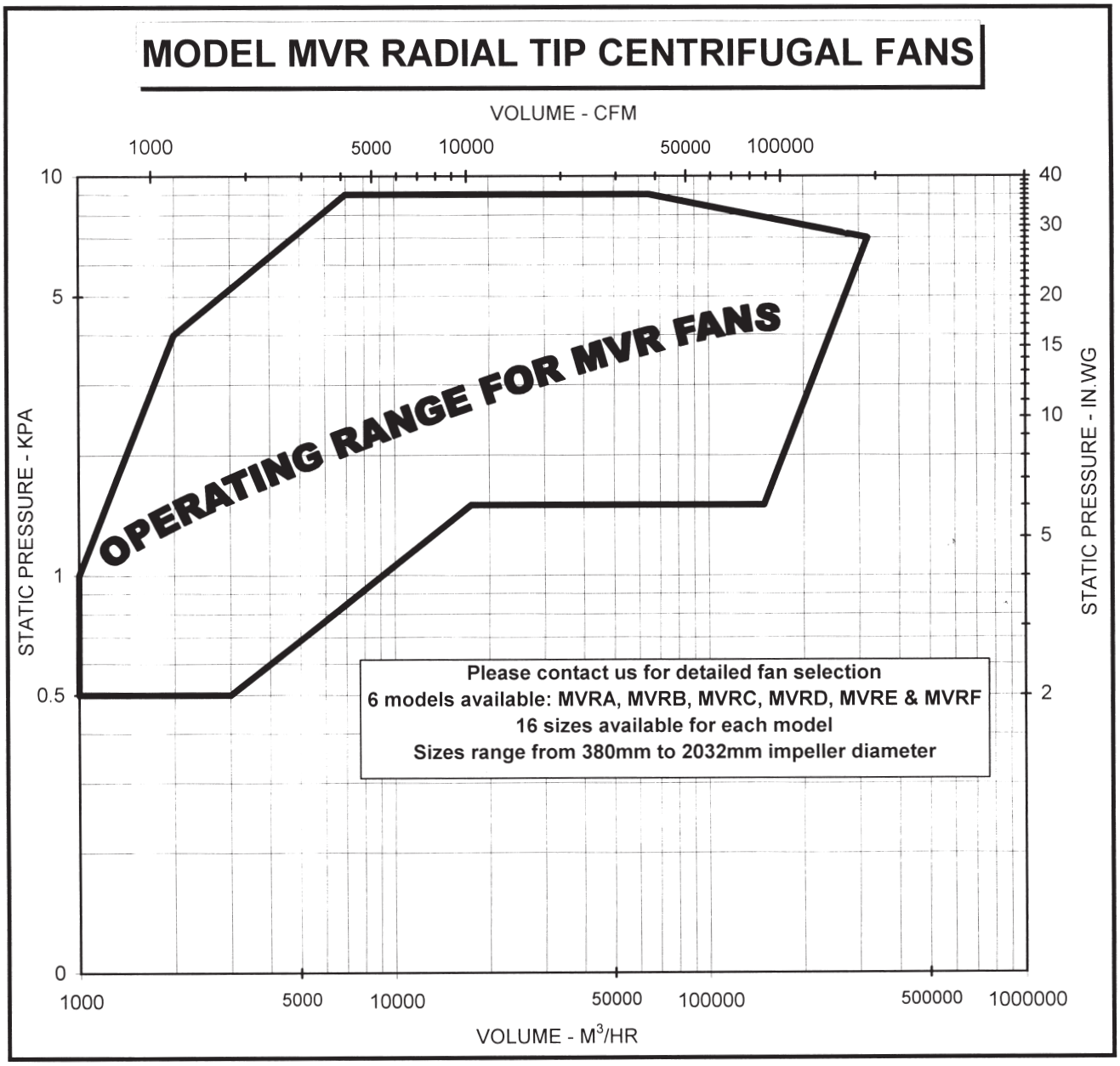
| | GENERAL | | | | | | | | | | | | DISCHARGE FLANGE | | | | | | | | INLET FL. | | | | | CENTER HT | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | P | Q | R | S | T | U | V | W | X | Y | Z | XX | YY | ZZ | FA | FB |
| 150 | 178 | 110 | 270 | 266 | 296 | 452 | 282 | 312 | 148 | 254 | 48 | 330 | 113 | 2 | 113 | 79 | 2 | 79 | 40 | 11 | 220 | 300 | 8 | 268 | 11 | 420 | 340 | 310 | 40 | 280 |
| 180 | 214 | 132 | 325 | 320 | 356 | 542 | 338 | 374 | 178 | 304 | 75 | 330 | 131 | 2 | 131 | 90 | 2 | 90 | 40 | 11 | 258 | 338 | 8 | 306 | 11 | 480 | 400 | 360 | 40 | 280 |
| 210 | 250 | 154 | 380 | 374 | 416 | 620 | 398 | 436 | 208 | 354 | 75 | 330 | 150 | 3 | 100 | 101 | 2 | 101 | 40 | 12 | 306 | 386 | 8 | 354 | 12 | 530 | 460 | 420 | 40 | 280 |
| 240 | 286 | 176 | 440 | 426 | 474 | 715 | 450 | 500 | 236 | 406 | 75 | 330 | 168 | 3 | 112 | 112 | 2 | 112 | 40 | 12 | 346 | 426 | 8 | 394 | 12 | 600 | 520 | 470 | 40 | 280 |
| 270 | 322 | 198 | 490 | 480 | 534 | 798 | 514 | 568 | 266 | 462 | 75 | 500 | 189 | 3 | 126 | 129 | 2 | 129 | 50 | 12 | 390 | 490 | 8 | 450 | 12 | 670 | 580 | 520 | 50 | 400 |
| 302 | 360 | 222 | 550 | 538 | 598 | 890 | 562 | 622 | 298 | 506 | 75 | 500 | 210 | 3 | 140 | 140 | 2 | 140 | 50 | 14 | 436 | 536 | 8 | 492 | 13 | 750 | 640 | 580 | 50 | 400 |
| 340 | 404 | 250 | 620 | 604 | 674 | 1000 | 638 | 708 | 336 | 576 | 85 | 650 | 231 | 3 | 154 | 156 | 3 | 104 | 50 | 14 | 490 | 590 | 8 | 550 | 13 | 840 | 720 | 650 | 65 | 540 |
| 372 | 442 | 274 | 680 | 660 | 736 | 1090 | 700 | 774 | 368 | 630 | 100 | 650 | 249 | 3 | 166 | 165 | 3 | 110 | 50 | 14 | 536 | 636 | 12 | 596 | 14 | 900 | 780 | 700 | 65 | 540 |
| 405 | 480 | 298 | 740 | 722 | 800 | 1190 | 760 | 840 | 400 | 682 | 100 | 690 | 268 | 4 | 134 | 177 | 3 | 118 | 50 | 14 | 582 | 682 | 12 | 642 | 14 | 970 | 850 | 770 | 75 | 560 |
| 450 | 534 | 330 | 820 | 800 | 890 | 1330 | 844 | 934 | 444 | 760 | 100 | 690 | 302 | 4 | 151 | 201 | 3 | 134 | 65 | 18 | 646 | 746 | 12 | 706 | 14 | 1090 | 940 | 850 | 75 | 560 |
| 500 | 594 | 368 | 900 | 888 | 988 | 1470 | 940 | 1040 | 494 | 845 | 100 | 730 | 332 | 4 | 166 | 219 | 3 | 146 | 65 | 18 | 722 | 822 | 12 | 782 | 14 | 1200 | 1040 | 940 | 75 | 600 |
| 550 | 654 | 404 | 1000 | 978 | 1088 | 1610 | 1034 | 1145 | 544 | 930 | 100 | 880 | 365 | 5 | 146 | 237 | 3 | 158 | 65 | 18 | 790 | 920 | 12 | 860 | 14 | 1260 | 1140 | 1030 | 75 | 720 |
| 600 | 714 | 440 | 1090 | 1066 | 1186 | 1750 | 1130 | 1250 | 592 | 1015 | 100 | 980 | 400 | 5 | 160 | 266 | 4 | 133 | 75 | 18 | 864 | 994 | 16 | 936 | 18 | 1430 | 1240 | 1120 | 75 | 810 |
| 660 | 784 | 486 | 1190 | 1172 | 1304 | 1920 | 1240 | 1370 | 652 | 1116 | 120 | 1060 | 438 | 6 | 146 | 288 | 4 | 144 | 75 | 18 | 950 | 1080 | 16 | 1020 | 18 | 1580 | 1360 | 1230 | 75 | 890 |
| 725 | 860 | 534 | 1320 | 1288 | 1432 | 2104 | 1360 | 1505 | 716 | 1225 | 120 | 1120 | 474 | 6 | 158 | 312 | 4 | 156 | 75 | 18 | 1042 | 1172 | 16 | 1112 | 18 | 1720 | 1500 | 1340 | 100 | 950 |
| 800 | 950 | 588 | 1450 | 1420 | 1580 | 2312 | 1502 | 1662 | 790 | 1352 | 120 | 1160 | 519 | 6 | 173 | 340 | 4 | 170 | 75 | 18 | 1148 | 1278 | 16 | 1220 | 18 | 1860 | 1650 | 1480 | 100 | 990 |

# MVR Series
# Radial Tip Centrifugal Fans

The MVR range of radial tip centrifugal fans are similar in contruction to the laminar bladed centrifugal fans. However the impeller blades are curved at the leading edge while the blade tips are radial to provide a self-cleaning action.

Radial tip centrifugal fans are used mainly in large sizes (above 750 mm wheel diameter) for light to moderate loading of dust, dirt, powder, flakes, process exhausts and industrial applications involving hot gases. The radial tip is an important feature in the presence of dust, fly ash etc. Material buildup on the blade, which causes unbalance and vibration is avoided. Wear plates for abrasive particles can be supplied.

MVR fans do not have the non-overloading characteristics and have a steadily rising power curve.

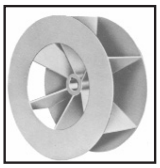


# M Series
# Dust Fans

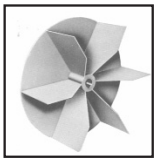
Rugged construction provides long trouble free performance under arduous conditions.
The impellers have radial blades which are easy to clean and prevent material build-up or deposit. Its rigid construction from heavy steel plate will ensure many years of trouble free service.

Radial bladed fans produce a power curve which is almost a straight line rising from a minimum at zero flow to a maximum at maximum flow. These fans normally do not surge or pulsate at low volumes. At high speeds they tend to be noisy.

**Types Of Impellers And Applications:**



**Type M Impeller** - the radial blades are welded to the backplate and front shroud. This impeller is suitable for air containing granular material, sawdust, grain, particle laden industrial process air or gases.



**Type L Impeller** - the radial blades are welded to the backplate with an open front. This impeller is designed for handling long stringy material, fibrous material such as textile scrap, wool, wood shavings and paper trim segments. It is not suitable for continuous paper trim handling.

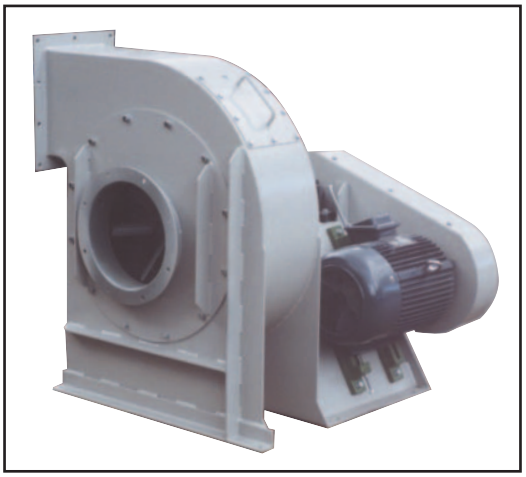
**Type O Impeller (paddle)** - the radial blades are welded to a heavy duty steel hub. This impeller is designed for heavy or abrasive dust, conveying of air or gases containing sticky material that would have a tendency to build up on other types of impellers. The paddle design facilitates coating or attaching replaceable bolt-on wear plates.

**Chopper Impeller** - the radial blades are welded to a conical backplate with an open front. This impeller has polished surfaces and is designed for handling continuous paper trim. The blades of the impeller have sharp and hardened cutting edges, which can be supplied as a bolt-on option.

**Construction**
Casing - heavy welded construction from plate steel. Side plates stiffened to prevent drumming. Scroll designed to optimise fan pressure developed by impeller.
Pedestal - top & sides fabricated from heavy mild steel plate.

**Optional Extras**
Anti-vibration mounts, matching flanges, split housing, corrosive resistant coatings, stainless steel housing & impeller, anti-sparking construction, high temperature construction.

*Arr. 1 Belt Driven*



*Chopper Fan with Cutting Edges on Impeller, Arr. 9*

# M SERIES DUST FANS - RADIAL BLADED

**MODEL M09**

Impeller Diameter : 398 mm  Inlet Diam.(O.D.) = 236 mm  Inlet Area(Inside) = 0.041 m2

Outlet(Outside) = 228 mm x 190 mm  Outlet Area(Inside) = 0.041 $m^2$  Tip Speed (m/s) = 0.0208 X RPM

| $M^3$/HR | | 1839 | | 2207 | | 2575 | | 2943 | | 3311 | | 3679 | | 4047 | | 4415 | | 4782 | | 5150 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O.VEL. M/S | | 12.5 | | 15.0 | | 17.5 | | 20.0 | | 22.5 | | 25.0 | | 27.5 | | 30.0 | | 32.5 | | 35.0 | |
| CFM | | 1083 | | 1299 | | 1516 | | 1732 | | 1949 | | 2165 | | 2382 | | 2598 | | 2815 | | 3031 | |
| O.V. FT/MIN | | 2461 | | 2953 | | 3445 | | 3937 | | 4429 | | 4921 | | 5413 | | 5906 | | 6398 | | 6890 | |
| KPA | IN.WG | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW |
| 1 | 4 | 1834 | 0.8 | 1909 | 1.0 | 1998 | 1.3 | 2091 | 1.5 | 2196 | 1.9 | 2301 | 2.3 | 2419 | 2.8 | 2539 | 3.4 | 2661 | 4.0 | 2791 | 4.8 |
| 1.5 | 6 | 2164 | 1.2 | 2237 | 1.5 | 2316 | 1.7 | 2394 | 2.1 | 2485 | 2.5 | 2580 | 2.9 | 2681 | 3.5 | 2791 | 4.1 | 2911 | 4.8 | 3026 | 5.6 |
| 2 | 8 | | | 2514 | 1.9 | 2588 | 2.3 | 2666 | 2.6 | 2747 | 3.1 | 2830 | 3.5 | 2918 | 4.1 | 3026 | 4.8 | 3129 | 5.5 | | |
| 2.5 | 10 | | | 2766 | 2.4 | 2832 | 2.8 | 2901 | 3.2 | 2984 | 3.7 | 3062 | 4.3 | 3151 | 4.9 | | | | | | |
| 3 | 12 | | | | | 3058 | 3.3 | 3126 | 3.8 | 3200 | 4.3 | | | | | | | | | | |
| 3.5 | 14 | | | | | | | | | | | | | | | | | | | | |
| 4 | 16 | | | | | | | | | | | | | | | | | | | | |
| 4.5 | 18 | | | | | | | | | | | | | | | | | | | | |
| 5 | 20 | | | | | | | | | | | | | | | | | | | | |
| 5.5 | 22 | | | | | | | | | | | | | | | | | | | | |

**MODEL M11**

Impeller Diameter : 486 mm  Inlet Diam.(O.D.) = 286 mm  Inlet Area(Inside) = 0.061 m2

Outlet(Outside) = 280 mm x 230 mm  Outlet Area(Inside) = 0.061 $m^2$  Tip Speed (m/s) = 0.0255 X RPM

| $M^3$/HR | | 2759 | | 3311 | | 3863 | | 4415 | | 4966 | | 5518 | | 6070 | | 6622 | | 7174 | | 7726 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O.V. M/S | | 12.5 | | 15.0 | | 17.5 | | 20.0 | | 22.5 | | 25.0 | | 27.5 | | 30.0 | | 32.5 | | 35.0 | |
| CFM | | 1624 | | 1949 | | 2274 | | 2598 | | 2923 | | 3248 | | 3573 | | 3898 | | 4222 | | 4547 | |
| O.V. FT/MIN | | 2461 | | 2953 | | 3445 | | 3937 | | 4429 | | 4921 | | 5413 | | 5906 | | 6398 | | 6890 | |
| KPA | IN.WG | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW |
| 1 | 4 | 1498 | 1.2 | 1560 | 1.5 | 1632 | 1.9 | 1708 | 2.3 | 1794 | 2.9 | 1880 | 3.5 | 1976 | 4.2 | 2074 | 5.1 | 2174 | 6.0 | 2280 | 7.2 |
| 1.5 | 6 | 1768 | 1.8 | 1828 | 2.2 | 1892 | 2.6 | 1956 | 3.1 | 2030 | 3.7 | 2108 | 4.4 | 2190 | 5.2 | 2280 | 6.1 | 2378 | 7.2 | 2472 | 8.4 |
| 2 | 8 | | | 2054 | 2.9 | 2114 | 3.4 | 2178 | 3.9 | 2244 | 4.6 | 2312 | 5.3 | 2384 | 6.2 | 2472 | 7.2 | 2556 | 8.3 | 2646 | 9.6 |
| 2.5 | 10 | | | 2260 | 3.6 | 2314 | 4.2 | 2370 | 4.8 | 2438 | 5.6 | 2502 | 6.4 | 2574 | 7.3 | 2646 | 8.4 | 2724 | 9.5 | 2816 | 10.9 |
| 3 | 12 | | | | | 2498 | 5.0 | 2554 | 5.7 | 2614 | 6.5 | 2680 | 7.4 | 2748 | 8.5 | 2816 | 9.5 | 2890 | 10.8 | 2972 | 12.3 |
| 3.5 | 14 | | | | | 2668 | 5.9 | 2722 | 6.7 | 2780 | 7.5 | 2842 | 8.5 | 2906 | 9.6 | 2978 | 10.8 | 3050 | 12.1 | | |
| 4 | 16 | | | | | | | 2878 | 7.6 | 2928 | 8.5 | 2992 | 9.6 | 3062 | 10.8 | | | | | | |
| 4.5 | 18 | | | | | | | 3028 | 8.6 | 3082 | 9.5 | | | | | | | | | | |
| 5 | 20 | | | | | | | | | | | | | | | | | | | | |
| 5.5 | 22 | | | | | | | | | | | | | | | | | | | | |

**MODEL M13**

Impeller Diameter : 574 mm  Inlet Diam.(O.D.) = 336 mm  Inlet Area(Inside) = 0.085 m2

Outlet(Outside) = 330 mm x 266 mm  Outlet Area(Inside) = 0.086 $m^2$  Tip Speed (m/s) = 0.0301 X RPM

| $M^3$/HR | | 3888 | | 4665 | | 5443 | | 6221 | | 6998 | | 7776 | | 8553 | | 9331 | | 10108 | | 10886 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O.V. M/S | | 12.5 | | 15.0 | | 17.5 | | 20.0 | | 22.5 | | 25.0 | | 27.5 | | 30.0 | | 32.5 | | 35.0 | |
| CFM | | 2288 | | 2746 | | 3204 | | 3661 | | 4119 | | 4577 | | 5034 | | 5492 | | 5950 | | 6407 | |
| O.V. FT/MIN | | 2461 | | 2953 | | 3445 | | 3937 | | 4429 | | 4921 | | 5413 | | 5906 | | 6398 | | 6890 | |
| KPA | IN.WG | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW |
| 1 | 4 | 1266 | 1.7 | 1319 | 2.2 | 1374 | 2.6 | 1445 | 3.3 | 1517 | 4.1 | 1596 | 5.0 | 1681 | 6.1 | 1762 | 7.2 | 1852 | 8.6 | 1940 | 10.1 |
| 1.5 | 6 | 1493 | 2.5 | 1543 | 3.0 | 1591 | 3.7 | 1651 | 4.4 | 1716 | 5.3 | 1787 | 6.3 | 1857 | 7.4 | 1938 | 8.8 | 2021 | 10.2 | 2099 | 11.9 |
| 2 | 8 | | | 1739 | 4.0 | 1787 | 4.7 | 1834 | 5.6 | 1891 | 6.5 | 1954 | 7.7 | 2023 | 8.9 | 2097 | 10.4 | 2171 | 11.9 | 2242 | 13.7 |
| 2.5 | 10 | | | 1912 | 5.0 | 1956 | 5.9 | 2000 | 6.8 | 2055 | 8.0 | 2108 | 9.0 | 2173 | 10.4 | 2240 | 12.0 | 2309 | 13.7 | 2386 | 15.6 |
| 3 | 12 | | | | | 2113 | 7.0 | 2159 | 8.0 | 2205 | 9.2 | 2256 | 10.4 | 2314 | 11.9 | 2379 | 13.6 | 2448 | 15.5 | 2517 | 17.6 |
| 3.5 | 14 | | | | | 2256 | 8.2 | 2302 | 9.4 | 2344 | 10.5 | 2397 | 12.1 | 2450 | 13.7 | 2510 | 15.3 | 2577 | 17.4 | 2640 | 19.4 |
| 4 | 16 | | | | | | | 2434 | 10.7 | 2480 | 11.9 | 2526 | 13.5 | 2577 | 15.2 | 2628 | 16.9 | 2693 | 19.0 | 2757 | 21.4 |
| 4.5 | 18 | | | | | | | 2563 | 12.2 | 2607 | 13.5 | 2651 | 15.1 | 2700 | 16.8 | 2748 | 18.8 | 2806 | 20.8 | 2868 | 23.1 |
| 5 | 20 | | | | | | | | | 2725 | 15.0 | 2769 | 16.5 | 2813 | 18.4 | 2866 | 20.6 | 2914 | 22.7 | 2977 | 25.2 |
| 5.5 | 22 | | | | | | | | | 2841 | 16.6 | 2884 | 18.2 | 2926 | 20.1 | 2977 | 22.2 | 3030 | 24.8 | 3081 | 27.3 |

**MODEL M15**

Impeller Diameter : 664 mm  Inlet Diam.(O.D.) = 388 mm  Inlet Area(Inside) = 0.114 m2

Outlet(Outside) = 382 mm x 308 mm  Outlet Area(Inside) = 0.115 $m^2$  Tip Speed (m/s) = 0.0348 X RPM

| $M^3$/HR | | 5184 | | 6221 | | 7257 | | 8294 | | 9331 | | 10368 | | 11404 | | 12441 | | 13478 | | 14515 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O.V. M/S | | 12.5 | | 15.0 | | 17.5 | | 20.0 | | 22.5 | | 25.0 | | 27.5 | | 30.0 | | 32.5 | | 35.0 | |
| CFM | | 3051 | | 3661 | | 4272 | | 4882 | | 5492 | | 6102 | | 6712 | | 7323 | | 7933 | | 8543 | |
| O.V. FT/MIN | | 2461 | | 2953 | | 3445 | | 3937 | | 4429 | | 4921 | | 5413 | | 5906 | | 6398 | | 6890 | |
| KPA | IN.WG | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW |
| 1 | 4 | 1096 | 2.2 | 1142 | 2.9 | 1190 | 3.5 | 1251 | 4.4 | 1314 | 5.4 | 1382 | 6.6 | 1456 | 8.1 | 1526 | 9.6 | 1604 | 11.5 | 1680 | 13.5 |
| 1.5 | 6 | 1293 | 3.3 | 1336 | 4.0 | 1378 | 4.9 | 1430 | 5.8 | 1486 | 7.0 | 1548 | 8.4 | 1608 | 9.9 | 1678 | 11.7 | 1750 | 13.6 | 1818 | 15.8 |
| 2 | 8 | | | 1506 | 5.3 | 1548 | 6.3 | 1588 | 7.4 | 1638 | 8.7 | 1692 | 10.2 | 1752 | 11.9 | 1816 | 13.9 | 1880 | 15.8 | 1942 | 18.2 |
| 2.5 | 10 | | | 1656 | 6.7 | 1694 | 7.8 | 1732 | 9.0 | 1780 | 10.6 | 1826 | 12.0 | 1882 | 13.9 | 1940 | 16.0 | 2000 | 18.2 | 2066 | 20.8 |
| 3 | 12 | | | | | 1830 | 9.3 | 1870 | 10.6 | 1910 | 12.3 | 1954 | 13.9 | 2004 | 15.9 | 2060 | 18.1 | 2120 | 20.6 | 2180 | 23.4 |
| 3.5 | 14 | | | | | 1954 | 10.9 | 1994 | 12.5 | 2030 | 14.0 | 2076 | 16.1 | 2122 | 18.2 | 2174 | 20.4 | 2232 | 23.2 | 2286 | 25.9 |
| 4 | 16 | | | | | | | 2108 | 14.2 | 2148 | 15.9 | 2188 | 18.0 | 2232 | 20.2 | 2276 | 22.5 | 2332 | 25.3 | 2388 | 28.5 |
| 4.5 | 18 | | | | | | | 2220 | 16.2 | 2258 | 18.0 | 2296 | 20.1 | 2338 | 22.4 | 2380 | 25.0 | 2430 | 27.7 | 2484 | 30.8 |
| 5 | 20 | | | | | | | | | 2360 | 20.0 | 2398 | 22.0 | 2436 | 24.5 | 2482 | 27.4 | 2524 | 30.2 | 2578 | 33.6 |
| 5.5 | 22 | | | | | | | | | 2460 | 22.1 | 2498 | 24.2 | 2534 | 26.8 | 2578 | 29.6 | 2624 | 33.0 | 2668 | 36.4 |

# M SERIES DUST FANS - RADIAL BLADED

| MODEL | Impeller Diameter : 752 mm | Inlet Diam.(O.D.) = 438 mm | Inlet Area(Inside) = 0.147 m2 |
|---|---|---|---|
| **M17** | Outlet(Outside) = 432 mm x 350 mm | Outlet Area(Inside) = 0.148 $m^2$ | Tip Speed (m/s) = 0.0394 X RPM |

| $M^3$/HR | | 6647 | | 7976 | | 9306 | | 10635 | | 11965 | | 13294 | | 14623 | | 15953 | | 17282 | | 18612 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O.VEL. M/S | | 12.5 | | 15.0 | | 17.5 | | 20.0 | | 22.5 | | 25.0 | | 27.5 | | 30.0 | | 32.5 | | 35.0 | |
| CFM | | 3912 | | 4695 | | 5477 | | 6260 | | 7042 | | 7825 | | 8607 | | 9390 | | 10172 | | 10954 | |
| O.V. FT/MIN | | 2461 | | 2953 | | 3445 | | 3937 | | 4429 | | 4921 | | 5413 | | 5906 | | 6398 | | 6890 | |
| KPA | IN.WG | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW |
| 1 | 4 | 959 | 3.1 | 1005 | 3.9 | 1056 | 4.8 | 1112 | 6.0 | 1172 | 7.5 | 1236 | 9.2 | 1302 | 11.0 | 1369 | 13.3 | 1441 | 15.9 | 1509 | 18.9 |
| 1.5 | 6 | 1132 | 4.4 | 1167 | 5.5 | 1212 | 6.6 | 1261 | 8.0 | 1316 | 9.6 | 1371 | 11.5 | 1431 | 13.7 | 1494 | 16.1 | 1564 | 18.9 | 1630 | 22.1 |
| 2 | 8 | | | 1314 | 7.1 | 1351 | 8.5 | 1396 | 10.1 | 1446 | 11.9 | 1497 | 13.9 | 1551 | 16.3 | 1610 | 18.9 | 1672 | 21.8 | 1733 | 25.2 |
| 2.5 | 10 | | | 1448 | 8.9 | 1479 | 10.4 | 1519 | 12.2 | 1563 | 14.2 | 1611 | 16.4 | 1663 | 19.0 | 1719 | 21.9 | 1776 | 25.1 | 1834 | 28.4 |
| 3 | 12 | | | | | 1600 | 12.5 | 1632 | 14.3 | 1673 | 16.5 | 1718 | 19.0 | 1768 | 21.8 | 1819 | 24.7 | 1876 | 28.1 | 1930 | 31.8 |
| 3.5 | 14 | | | | | 1712 | 14.5 | 1742 | 16.6 | 1780 | 19.0 | 1820 | 21.6 | 1866 | 24.7 | 1913 | 27.6 | 1972 | 31.5 | 2025 | 35.5 |
| 4 | 16 | | | | | | | 1844 | 18.7 | 1875 | 21.4 | 1916 | 24.3 | 1959 | 27.5 | 2007 | 30.9 | 2055 | 34.7 | 2111 | 38.7 |
| 4.5 | 18 | | | | | | | 1940 | 21.1 | 1971 | 23.9 | 2005 | 27.1 | 2046 | 30.3 | 2092 | 34.0 | 2141 | 38.2 | 2194 | 42.3 |
| 5 | 20 | | | | | | | | | 2061 | 26.4 | 2096 | 29.8 | 2133 | 33.3 | 2177 | 37.1 | 2223 | 41.3 | 2275 | 46.0 |
| 5.5 | 22 | | | | | | | | | 2150 | 29.0 | 2180 | 32.5 | 2217 | 36.3 | 2257 | 40.3 | 2302 | 44.7 | 2350 | 49.6 |

| MODEL | Impeller Diameter : 838 mm | Inlet Diam.(O.D.) = 490 mm | Inlet Area(Inside) = 0.183 m2 |
|---|---|---|---|
| **M19** | Outlet(Outside) = 482 mm x 390 mm | Outlet Area(Inside) = 0.183 $m^2$ | Tip Speed (m/s) = 0.0439 X RPM |

| $M^3$/HR | | 8236 | | 9883 | | 11530 | | 13177 | | 14824 | | 16471 | | 18118 | | 19765 | | 21413 | | 23060 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O.V. M/S | | 12.5 | | 15.0 | | 17.5 | | 20.0 | | 22.5 | | 25.0 | | 27.5 | | 30.0 | | 32.5 | | 35.0 | |
| CFM | | 4847 | | 5817 | | 6786 | | 7756 | | 8725 | | 9695 | | 10664 | | 11634 | | 12603 | | 13572 | |
| O.V. FT/MIN | | 2461 | | 2953 | | 3445 | | 3937 | | 4429 | | 4921 | | 5413 | | 5906 | | 6398 | | 6890 | |
| KPA | IN.WG | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW |
| 1 | 4 | 861 | 3.8 | 902 | 4.8 | 948 | 6.0 | 998 | 7.5 | 1052 | 9.3 | 1110 | 11.4 | 1169 | 13.7 | 1229 | 16.5 | 1294 | 19.7 | 1355 | 23.4 |
| 1.5 | 6 | 1016 | 5.5 | 1048 | 6.8 | 1088 | 8.2 | 1132 | 9.9 | 1181 | 11.9 | 1231 | 14.3 | 1285 | 17.0 | 1341 | 20.0 | 1404 | 23.5 | 1463 | 27.4 |
| 2 | 8 | | | 1180 | 8.8 | 1213 | 10.6 | 1253 | 12.5 | 1298 | 14.8 | 1344 | 17.2 | 1392 | 20.2 | 1445 | 23.5 | 1501 | 27.1 | 1556 | 31.3 |
| 2.5 | 10 | | | 1300 | 11.0 | 1328 | 12.9 | 1364 | 15.2 | 1403 | 17.6 | 1446 | 20.3 | 1493 | 23.6 | 1543 | 27.2 | 1594 | 31.1 | 1646 | 35.3 |
| 3 | 12 | | | | | 1436 | 15.5 | 1465 | 17.8 | 1502 | 20.5 | 1542 | 23.6 | 1587 | 27.0 | 1633 | 30.7 | 1684 | 34.9 | 1733 | 39.5 |
| 3.5 | 14 | | | | | 1537 | 18.0 | 1564 | 20.6 | 1598 | 23.6 | 1634 | 26.8 | 1675 | 30.6 | 1717 | 34.2 | 1770 | 39.1 | 1818 | 44.0 |
| 4 | 16 | | | | | | | 1655 | 23.2 | 1683 | 26.6 | 1720 | 30.2 | 1759 | 34.1 | 1802 | 38.4 | 1845 | 43.0 | 1895 | 48.0 |
| 4.5 | 18 | | | | | | | 1742 | 26.2 | 1769 | 29.7 | 1800 | 33.6 | 1837 | 37.6 | 1878 | 42.2 | 1922 | 47.4 | 1970 | 52.5 |
| 5 | 20 | | | | | | | | | 1850 | 32.8 | 1882 | 37.0 | 1915 | 41.3 | 1954 | 46.0 | 1996 | 51.2 | 2042 | 57.1 |
| 5.5 | 22 | | | | | | | | | 1930 | 36.0 | 1957 | 40.3 | 1990 | 45.0 | 2026 | 50.0 | 2067 | 55.5 | 2110 | 61.6 |

| MODEL | Impeller Diameter : 928 mm | Inlet Diam.(O.D.) = 540 mm | Inlet Area(Inside) = 0.223 m2 |
|---|---|---|---|
| **M21** | Outlet(Outside) = 534 mm x 432 mm | Outlet Area(Inside) = 0.224 $m^2$ | Tip Speed (m/s) = 0.0486 X RPM |

| $M^3$/HR | | 10075 | | 12090 | | 14105 | | 16120 | | 18135 | | 20150 | | 22165 | | 24180 | | 26195 | | 28210 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O.V. M/S | | 12.5 | | 15.0 | | 17.5 | | 20.0 | | 22.5 | | 25.0 | | 27.5 | | 30.0 | | 32.5 | | 35.0 | |
| CFM | | 5930 | | 7116 | | 8302 | | 9488 | | 10674 | | 11860 | | 13046 | | 14232 | | 15418 | | 16604 | |
| O.V. FT/MIN | | 2461 | | 2953 | | 3445 | | 3937 | | 4429 | | 4921 | | 5413 | | 5906 | | 6398 | | 6890 | |
| KPA | IN.WG | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW |
| 1 | 4 | 773 | 4.4 | 810 | 5.6 | 848 | 7.0 | 889 | 8.6 | 933 | 10.6 | 979 | 12.9 | 1026 | 15.6 | 1076 | 18.5 | 1129 | 22.1 | 1185 | 26.0 |
| 1.5 | 6 | 910 | 6.3 | 942 | 7.9 | 979 | 9.7 | 1018 | 11.6 | 1056 | 13.7 | 1097 | 16.4 | 1141 | 19.4 | 1185 | 22.8 | 1233 | 26.6 | 1282 | 30.9 |
| 2 | 8 | | | 1058 | 10.2 | 1092 | 12.4 | 1127 | 14.7 | 1166 | 17.3 | 1203 | 19.9 | 1243 | 23.2 | 1284 | 26.8 | 1328 | 30.9 | 1377 | 35.9 |
| 2.5 | 10 | | | 1164 | 12.3 | 1192 | 14.9 | 1224 | 17.7 | 1261 | 20.7 | 1300 | 23.9 | 1339 | 27.3 | 1377 | 31.2 | 1420 | 35.5 | 1462 | 40.5 |
| 3 | 12 | | | | | 1288 | 17.5 | 1317 | 20.7 | 1351 | 24.3 | 1388 | 28.0 | 1427 | 31.6 | 1466 | 35.7 | 1504 | 40.2 | 1545 | 45.4 |
| 3.5 | 14 | | | | | 1374 | 20.1 | 1400 | 23.6 | 1434 | 27.6 | 1471 | 31.7 | 1506 | 36.0 | 1545 | 40.5 | 1584 | 45.2 | 1623 | 50.6 |
| 4 | 16 | | | | | | | 1483 | 26.6 | 1511 | 30.9 | 1547 | 35.6 | 1582 | 40.2 | 1619 | 45.0 | 1660 | 50.5 | 1697 | 55.9 |
| 4.5 | 18 | | | | | | | 1559 | 29.6 | 1586 | 33.9 | 1619 | 39.2 | 1654 | 44.4 | 1690 | 49.8 | 1728 | 55.4 | 1765 | 61.1 |
| 5 | 20 | | | | | | | | | 1660 | 37.4 | 1690 | 43.0 | 1723 | 48.5 | 1760 | 54.5 | 1795 | 60.4 | 1834 | 66.9 |
| 5.5 | 22 | | | | | | | | | 1728 | 40.7 | 1757 | 46.5 | 1790 | 52.9 | 1824 | 59.2 | 1859 | 65.4 | 1896 | 72.3 |

| MODEL | Impeller Diameter : 1016 mm | Inlet Diam.(O.D.) = 590 mm | Inlet Area(Inside) = 0.268 m2 |
|---|---|---|---|
| **M23** | Outlet(Outside) = 584 mm x 474 mm | Outlet Area(Inside) = 0.269 $m^2$ | Tip Speed (m/s) = 0.0532 X RPM |

| $M^3$/HR | | 12123 | | 14548 | | 16973 | | 19398 | | 21822 | | 24247 | | 26672 | | 29096 | | 31521 | | 33946 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O.V. M/S | | 12.5 | | 15.0 | | 17.5 | | 20.0 | | 22.5 | | 25.0 | | 27.5 | | 30.0 | | 32.5 | | 35.0 | |
| CFM | | 7136 | | 8563 | | 9990 | | 11417 | | 12844 | | 14271 | | 15698 | | 17126 | | 18553 | | 19980 | |
| O.V. FT/MIN | | 2461 | | 2953 | | 3445 | | 3937 | | 4429 | | 4921 | | 5413 | | 5906 | | 6398 | | 6890 | |
| KPA | IN.WG | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW |
| 1 | 4 | 705 | 5.3 | 739 | 6.8 | 774 | 8.4 | 811 | 10.3 | 851 | 12.8 | 893 | 15.5 | 937 | 18.7 | 982 | 22.3 | 1030 | 26.6 | 1082 | 31.2 |
| 1.5 | 6 | 830 | 7.5 | 859 | 9.5 | 893 | 11.6 | 929 | 14.0 | 964 | 16.5 | 1001 | 19.7 | 1041 | 23.4 | 1082 | 27.3 | 1125 | 31.9 | 1170 | 37.1 |
| 2 | 8 | | | 966 | 12.2 | 996 | 14.9 | 1028 | 17.7 | 1064 | 20.8 | 1098 | 23.9 | 1135 | 27.8 | 1172 | 32.2 | 1212 | 37.1 | 1257 | 43.1 |
| 2.5 | 10 | | | 1062 | 14.8 | 1088 | 17.9 | 1117 | 21.2 | 1151 | 24.9 | 1186 | 28.7 | 1222 | 32.7 | 1257 | 37.5 | 1296 | 42.6 | 1334 | 48.6 |
| 3 | 12 | | | | | 1175 | 21.0 | 1202 | 24.9 | 1233 | 29.1 | 1267 | 33.6 | 1302 | 38.0 | 1337 | 42.9 | 1373 | 48.3 | 1410 | 54.6 |
| 3.5 | 14 | | | | | 1254 | 24.2 | 1278 | 28.3 | 1308 | 33.2 | 1342 | 38.1 | 1374 | 43.2 | 1410 | 48.6 | 1445 | 54.2 | 1481 | 60.7 |
| 4 | 16 | | | | | | | 1353 | 31.9 | 1379 | 37.1 | 1411 | 42.7 | 1444 | 48.3 | 1477 | 54.1 | 1514 | 60.6 | 1548 | 67.2 |
| 4.5 | 18 | | | | | | | 1423 | 35.5 | 1447 | 40.7 | 1477 | 47.1 | 1510 | 53.3 | 1542 | 59.8 | 1577 | 66.6 | 1611 | 73.4 |
| 5 | 20 | | | | | | | | | 1514 | 44.9 | 1542 | 51.7 | 1572 | 58.3 | 1606 | 65.4 | 1638 | 72.6 | 1674 | 80.3 |
| 5.5 | 22 | | | | | | | | | 1577 | 48.8 | 1603 | 55.8 | 1634 | 63.5 | 1664 | 71.0 | 1696 | 78.6 | 1730 | 86.9 |

# M SERIES DUST FANS - RADIAL BLADED

| MODEL **M26** | | Impeller Diameter : 1146 mm | | Inlet Diam.(O.D.) = 666 mm | | Inlet Area(Inside) = 0.343 m2 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Outlet(Outside) = 660 mm x 530 mm | | | | Outlet Area(Inside) = 0.343 $m^2$ | | | | Tip Speed (m/s) = 0.0601 X RPM | | | | | | | | | | | |
| $M^3$/HR | | 15426 | | 18511 | | 21596 | | 24682 | | 27767 | | 30852 | | 33937 | | 37023 | | 40108 | | 43193 | |
| O.VEL. M/S | | 12.5 | | 15.0 | | 17.5 | | 20.0 | | 22.5 | | 25.0 | | 27.5 | | 30.0 | | 32.5 | | 35.0 | |
| CFM | | 9079 | | 10895 | | 12711 | | 14527 | | 16343 | | 18159 | | 19975 | | 21791 | | 23607 | | 25423 | |
| O.V. FT/MIN | | 2461 | | 2953 | | 3445 | | 3937 | | 4429 | | 4921 | | 5413 | | 5906 | | 6398 | | 6890 | |
| KPA | IN.WG | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW |
| 1 | 4 | 625 | 6.8 | 655 | 8.6 | 686 | 10.7 | 719 | 13.2 | 755 | 16.3 | 792 | 19.8 | 830 | 23.8 | 870 | 28.4 | 913 | 33.8 | 959 | 39.7 |
| 1.5 | 6 | 736 | 9.6 | 762 | 12.0 | 792 | 14.8 | 823 | 17.8 | 855 | 21.0 | 887 | 25.0 | 923 | 29.7 | 959 | 34.8 | 997 | 40.6 | 1037 | 47.2 |
| 2 | 8 | | | 856 | 15.5 | 883 | 18.9 | 912 | 22.5 | 943 | 26.4 | 973 | 30.5 | 1006 | 35.4 | 1039 | 41.0 | 1074 | 47.3 | 1114 | 54.8 |
| 2.5 | 10 | | | 942 | 18.9 | 964 | 22.8 | 990 | 27.0 | 1020 | 31.6 | 1051 | 36.5 | 1083 | 41.7 | 1114 | 47.7 | 1148 | 54.2 | 1183 | 61.9 |
| 3 | 12 | | | | | 1041 | 26.7 | 1066 | 31.7 | 1093 | 37.1 | 1123 | 42.7 | 1154 | 48.3 | 1185 | 54.6 | 1217 | 61.4 | 1250 | 69.4 |
| 3.5 | 14 | | | | | 1111 | 30.8 | 1133 | 36.1 | 1160 | 42.2 | 1190 | 48.4 | 1218 | 55.0 | 1250 | 61.9 | 1281 | 69.0 | 1312 | 77.3 |
| 4 | 16 | | | | | | | 1200 | 40.6 | 1223 | 47.2 | 1251 | 54.3 | 1280 | 61.4 | 1310 | 68.8 | 1342 | 77.1 | 1372 | 85.5 |
| 4.5 | 18 | | | | | | | 1261 | 45.2 | 1283 | 51.8 | 1310 | 59.9 | 1338 | 67.8 | 1367 | 76.1 | 1398 | 84.7 | 1428 | 93.4 |
| 5 | 20 | | | | | | | | | 1342 | 57.1 | 1367 | 65.7 | 1394 | 74.2 | 1424 | 83.2 | 1452 | 92.4 | 1484 | 102.2 |
| 5.5 | 22 | | | | | | | | | 1398 | 62.2 | 1421 | 71.0 | 1448 | 80.8 | 1475 | 90.4 | 1504 | 100.0 | 1534 | 110.6 |

| MODEL **M29** | | Impeller Diameter : 1282 mm | | Inlet Diam.(O.D.) = 744 mm | | Inlet Area(Inside) = 0.426 m2 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Outlet(Outside) = 738 mm x 590 mm | | | | Outlet Area(Inside) = 0.429 $m^2$ | | | | Tip Speed (m/s) = 0.0672 X RPM | | | | | | | | | | | |
| $M^3$/HR | | 19314 | | 23177 | | 27039 | | 30902 | | 34765 | | 38628 | | 42491 | | 46353 | | 50216 | | 54079 | |
| O.V. M/S | | 12.5 | | 15.0 | | 17.5 | | 20.0 | | 22.5 | | 25.0 | | 27.5 | | 30.0 | | 32.5 | | 35.0 | |
| CFM | | 11368 | | 13641 | | 15915 | | 18188 | | 20462 | | 22736 | | 25009 | | 27283 | | 29556 | | 31830 | |
| O.V. FT/MIN | | 2461 | | 2953 | | 3445 | | 3937 | | 4429 | | 4921 | | 5413 | | 5906 | | 6398 | | 6890 | |
| KPA | IN.WG | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW |
| 1 | 4 | 558 | 8.5 | 585 | 10.8 | 613 | 13.4 | 642 | 16.5 | 674 | 20.4 | 707 | 24.7 | 742 | 29.8 | 778 | 35.5 | 816 | 42.3 | 857 | 49.7 |
| 1.5 | 6 | 658 | 12.0 | 681 | 15.1 | 707 | 18.5 | 736 | 22.3 | 764 | 26.3 | 793 | 31.3 | 825 | 37.2 | 857 | 43.6 | 891 | 50.9 | 927 | 59.1 |
| 2 | 8 | | | 765 | 19.4 | 789 | 23.7 | 815 | 28.2 | 843 | 33.1 | 869 | 38.2 | 899 | 44.4 | 928 | 51.4 | 960 | 59.2 | 996 | 68.7 |
| 2.5 | 10 | | | 841 | 23.6 | 862 | 28.6 | 885 | 33.8 | 911 | 39.6 | 939 | 45.7 | 968 | 52.2 | 996 | 59.7 | 1026 | 67.9 | 1057 | 77.5 |
| 3 | 12 | | | | | 931 | 33.5 | 952 | 39.7 | 976 | 46.5 | 1003 | 53.5 | 1031 | 60.5 | 1059 | 68.4 | 1087 | 76.9 | 1117 | 87.0 |
| 3.5 | 14 | | | | | 993 | 38.5 | 1012 | 45.2 | 1036 | 52.9 | 1063 | 60.7 | 1089 | 68.9 | 1117 | 77.5 | 1145 | 86.5 | 1173 | 96.8 |
| 4 | 16 | | | | | | | 1072 | 50.9 | 1092 | 59.1 | 1118 | 68.1 | 1143 | 76.9 | 1170 | 86.2 | 1200 | 96.6 | 1226 | 107.1 |
| 4.5 | 18 | | | | | | | 1127 | 56.6 | 1146 | 64.9 | 1170 | 75.1 | 1196 | 84.9 | 1221 | 95.3 | 1249 | 106.1 | 1276 | 116.9 |
| 5 | 20 | | | | | | | | | 1200 | 71.6 | 1221 | 82.3 | 1245 | 92.9 | 1272 | 104.2 | 1298 | 115.7 | 1326 | 128.0 |
| 5.5 | 22 | | | | | | | | | 1249 | 77.8 | 1270 | 88.9 | 1294 | 101.2 | 1318 | 113.2 | 1344 | 125.2 | 1370 | 138.5 |

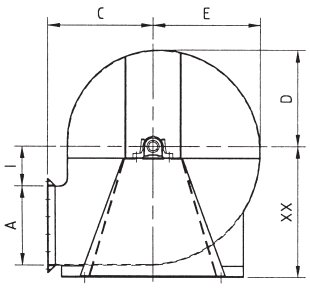
| MODEL **M33** | | Impeller Diameter : 1460 mm | | Inlet Diam.(O.D.) = 848 mm | | Inlet Area(Inside) = 0.552 m2 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Outlet(Outside) = 838 mm x 674 mm | | | | Outlet Area(Inside) = 0.556 $m^2$ | | | | Tip Speed (m/s) = 0.0765 X RPM | | | | | | | | | | | |
| $M^3$/HR | | 25041 | | 30049 | | 35058 | | 40066 | | 45074 | | 50082 | | 55091 | | 60099 | | 65107 | | 70115 | |
| O.V. M/S | | 12.5 | | 15.0 | | 17.5 | | 20.0 | | 22.5 | | 25.0 | | 27.5 | | 30.0 | | 32.5 | | 35.0 | |
| CFM | | 14739 | | 17687 | | 20634 | | 23582 | | 26530 | | 29478 | | 32425 | | 35373 | | 38321 | | 41269 | |
| O.V. FT/MIN | | 2461 | | 2953 | | 3445 | | 3937 | | 4429 | | 4921 | | 5413 | | 5906 | | 6398 | | 6890 | |
| KPA | IN.WG | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW |
| 1 | 4 | 490 | 11.0 | 514 | 14.0 | 539 | 17.3 | 564 | 21.4 | 592 | 26.4 | 621 | 32.1 | 652 | 38.6 | 683 | 46.0 | 717 | 54.9 | 752 | 64.5 |
| 1.5 | 6 | 578 | 15.6 | 598 | 19.5 | 621 | 24.0 | 646 | 28.9 | 671 | 34.1 | 696 | 40.6 | 724 | 48.3 | 752 | 56.5 | 783 | 66.0 | 814 | 76.6 |
| 2 | 8 | | | 672 | 25.2 | 693 | 30.7 | 715 | 36.5 | 740 | 42.9 | 764 | 49.5 | 789 | 57.5 | 815 | 66.6 | 843 | 76.7 | 874 | 89.0 |
| 2.5 | 10 | | | 739 | 30.6 | 757 | 37.0 | 777 | 43.9 | 800 | 51.4 | 825 | 59.3 | 850 | 67.7 | 874 | 77.4 | 901 | 88.1 | 928 | 100.5 |
| 3 | 12 | | | | | 817 | 43.4 | 836 | 51.5 | 858 | 60.2 | 881 | 69.4 | 906 | 78.4 | 930 | 88.7 | 955 | 99.7 | 981 | 112.7 |
| 3.5 | 14 | | | | | 872 | 49.9 | 889 | 58.6 | 910 | 68.5 | 934 | 78.7 | 956 | 89.4 | 981 | 100.5 | 1005 | 112.1 | 1030 | 125.5 |
| 4 | 16 | | | | | | | 942 | 66.0 | 959 | 76.6 | 982 | 88.2 | 1004 | 99.7 | 1028 | 111.7 | 1054 | 125.3 | 1077 | 138.8 |
| 4.5 | 18 | | | | | | | 990 | 73.4 | 1006 | 84.2 | 1028 | 97.3 | 1050 | 110.1 | 1073 | 123.5 | 1097 | 137.5 | 1121 | 151.6 |
| 5 | 20 | | | | | | | | | 1054 | 92.8 | 1073 | 106.7 | 1094 | 120.5 | 1117 | 135.1 | 1140 | 150.0 | 1164 | 165.9 |
| 5.5 | 22 | | | | | | | | | 1097 | 100.9 | 1115 | 115.3 | 1136 | 131.2 | 1158 | 146.8 | 1180 | 162.4 | 1204 | 179.5 |

| MODEL **M37** | | Impeller Diameter : 1636 mm | | Inlet Diam.(O.D.) = 950 mm | | Inlet Area(Inside) = 0.694 m2 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Outlet(Outside) = 940 mm x 752 mm | | | | Outlet Area(Inside) = 0.698 $m^2$ | | | | Tip Speed (m/s) = 0.0857 X RPM | | | | | | | | | | | |
| $M^3$/HR | | 31396 | | 37675 | | 43954 | | 50233 | | 56512 | | 62791 | | 69070 | | 75349 | | 81628 | | 87908 | |
| O.V. M/S | | 12.5 | | 15.0 | | 17.5 | | 20.0 | | 22.5 | | 25.0 | | 27.5 | | 30.0 | | 32.5 | | 35.0 | |
| CFM | | 18479 | | 22175 | | 25870 | | 29566 | | 33262 | | 36958 | | 40653 | | 44349 | | 48045 | | 51741 | |
| O.V. FT/MIN | | 2461 | | 2953 | | 3445 | | 3937 | | 4429 | | 4921 | | 5413 | | 5906 | | 6398 | | 6890 | |
| KPA | IN.WG | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW | RPM | KW |
| 1 | 4 | 438 | 13.8 | 459 | 17.5 | 481 | 21.7 | 504 | 26.8 | 529 | 33.1 | 555 | 40.2 | 582 | 48.4 | 610 | 57.7 | 640 | 68.8 | 672 | 80.8 |
| 1.5 | 6 | 516 | 19.5 | 534 | 24.5 | 555 | 30.1 | 577 | 36.2 | 599 | 42.7 | 622 | 50.9 | 647 | 60.5 | 672 | 70.8 | 699 | 82.7 | 727 | 96.0 |
| 2 | 8 | | | 600 | 31.6 | 619 | 38.5 | 639 | 45.8 | 661 | 53.8 | 682 | 62.0 | 705 | 72.1 | 728 | 83.5 | 753 | 96.2 | 781 | 111.6 |
| 2.5 | 10 | | | 660 | 38.4 | 676 | 46.4 | 694 | 55.0 | 715 | 64.4 | 737 | 74.3 | 759 | 84.8 | 781 | 97.0 | 805 | 110.4 | 829 | 126.0 |
| 3 | 12 | | | | | 730 | 54.4 | 747 | 64.5 | 766 | 75.5 | 787 | 87.0 | 809 | 98.3 | 831 | 111.2 | 853 | 125.0 | 876 | 141.3 |
| 3.5 | 14 | | | | | 779 | 62.6 | 794 | 73.4 | 813 | 85.9 | 834 | 98.6 | 854 | 112.0 | 876 | 126.0 | 898 | 140.5 | 920 | 157.3 |
| 4 | 16 | | | | | | | 841 | 82.7 | 857 | 96.0 | 877 | 110.6 | 897 | 125.0 | 918 | 140.0 | 941 | 157.0 | 962 | 174.0 |
| 4.5 | 18 | | | | | | | 884 | 92.0 | 899 | 105.5 | 918 | 122.0 | 938 | 138.0 | 958 | 154.8 | 980 | 172.4 | 1001 | 190.0 |
| 5 | 20 | | | | | | | | | 941 | 116.3 | 958 | 133.8 | 977 | 151.0 | 998 | 169.4 | 1018 | 188.0 | 1040 | 208.0 |
| 5.5 | 22 | | | | | | | | | 980 | 126.5 | 996 | 144.5 | 1015 | 164.5 | 1034 | 184.0 | 1054 | 203.5 | 1075 | 225.0 |

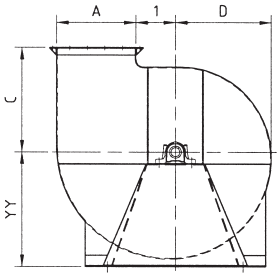
# M SERIES FANS

## ARR 1 BARE SHAFT

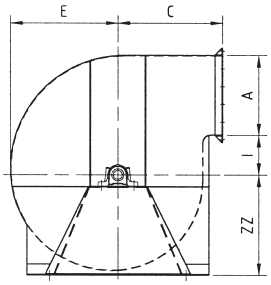
NOTE CLOCKWISE ROTATION SHOWN
FOR ANTI CLOCKWISE ROTATION
SYMMETRICALLY OPPOSITE



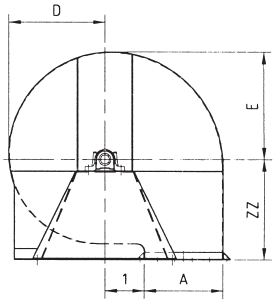

HAND CW 0



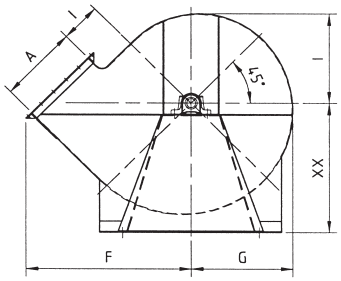

HAND CW 90



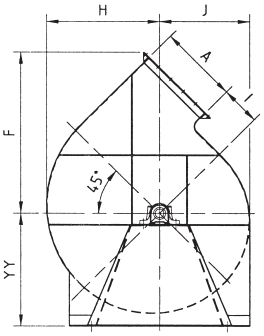

HAND CW 180



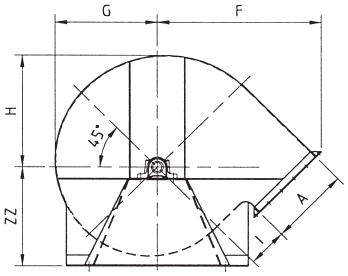

HAND CW 270



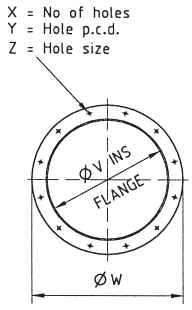

HAND CW 45



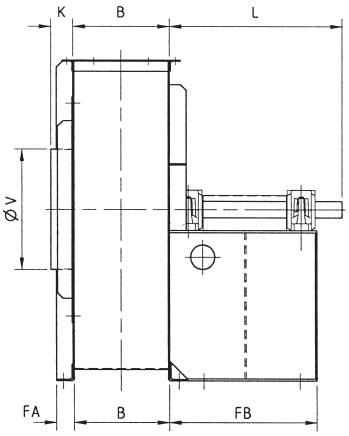

HAND CW 135

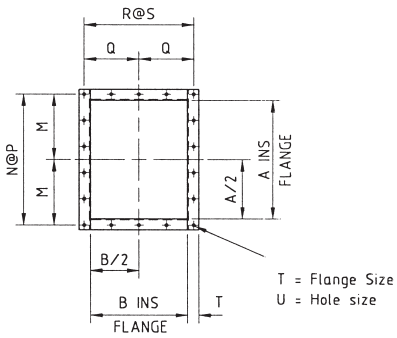



HAND CW 225




INLET FLANGE DETAIL
(OPTIONAL)




DISCHARGE FLANGE
DETAIL

DIMENSIONS SHOULD NOT BE USED FOR CONSTRUCTIONAL PURPOSES WITHOUT OUR CERTIFICATION

| | GENERAL | | | | | | | | | | | | DISCHARGE FLANGE | | | | | | | | INLET FL. | | | | | CENTER HT | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | P | Q | R | S | T | U | V | W | X | Y | Z | XX | YY | ZZ | FA | FB |
| 09 | 230 | 190 | 300 | 280 | 310 | 480 | 302 | 336 | 108 | 270 | 65 | 490 | 140 | 2 | 140 | 120 | 2 | 120 | 40 | 11 | 240 | 320 | 8 | 290 | 11 | 430 | 360 | 330 | 50 | 328 |
| 11 | 294 | 230 | 400 | 350 | 396 | 623 | 374 | 418 | 146 | 332 | 65 | 675 | 171 | 3 | 114 | 139 | 2 | 139 | 40 | 13 | 286 | 366 | 8 | 334 | 13 | 520 | 450 | 410 | 50 | 480 |
| 13 | 330 | 266 | 425 | 395 | 455 | 686 | 422 | 474 | 165 | 370 | 75 | 723 | 195 | 3 | 130 | 162 | 3 | 108 | 50 | 13 | 336 | 436 | 8 | 390 | 13 | 590 | 500 | 450 | 50 | 480 |
| 15 | 380 | 314 | 495 | 460 | 515 | 788 | 488 | 548 | 190 | 434 | 75 | 792 | 219 | 3 | 146 | 186 | 3 | 124 | 50 | 14 | 390 | 490 | 8 | 446 | 14 | 680 | 580 | 510 | 50 | 524 |
| 17 | 432 | 350 | 546 | 524 | 586 | 880 | 554 | 622 | 216 | 494 | 105 | 850 | 244 | 4 | 122 | 204 | 3 | 136 | 50 | 14 | 438 | 538 | 12 | 494 | 14 | 760 | 660 | 600 | 50 | 564 |
| 19 | 484 | 390 | 620 | 580 | 652 | 988 | 620 | 692 | 240 | 560 | 105 | 955 | 270 | 4 | 135 | 224 | 4 | 112 | 50 | 14 | 446 | 556 | 8 | 510 | 14 | 830 | 675 | 630 | 50 | 660 |
| 21 | 534 | 432 | 675 | 646 | 720 | 1078 | 680 | 758 | 266 | 606 | 105 | 1030 | 296 | 4 | 148 | 244 | 4 | 122 | 50 | 14 | 544 | 644 | 12 | 600 | 14 | 900 | 770 | 690 | 75 | 675 |
| 23 | 584 | 474 | 750 | 702 | 792 | 1196 | 745 | 826 | 292 | 662 | 110 | 1070 | 330 | 4 | 165 | 274 | 4 | 137 | 65 | 14 | 596 | 696 | 12 | 656 | 14 | 1000 | 850 | 760 | 75 | 690 |
| 26 | 660 | 530 | 810 | 796 | 894 | 1320 | 845 | 942 | 330 | 750 | 110 | 1125 | 365 | 5 | 146 | 300 | 4 | 150 | 65 | 14 | 670 | 770 | 12 | 726 | 14 | 1110 | 950 | 850 | 75 | 725 |
| 29 | 736 | 590 | 900 | 890 | 996 | 1465 | 942 | 1050 | 368 | 836 | 120 | 1155 | 408 | 6 | 136 | 335 | 5 | 134 | 65 | 18 | 746 | 876 | 12 | 816 | 18 | 1230 | 1050 | 950 | 75 | 725 |
| 33 | 838 | 672 | 1010 | 1026 | 1140 | 1658 | 1072 | 1194 | 420 | 952 | 120 | 1265 | 465 | 6 | 155 | 380 | 5 | 152 | 75 | 18 | 850 | 980 | 12 | 920 | 18 | 1380 | 1200 | 1080 | 75 | 795 |
| 37 | 940 | 752 | 1050 | 1134 | 1272 | 1860 | 1202 | 1340 | 470 | 1066 | 120 | 1380 | 518 | 7 | 148 | 420 | 5 | 168 | 75 | 18 | 950 | 1080 | 16 | 1020 | 18 | 1540 | 1330 | 1200 | 100 | 860 |

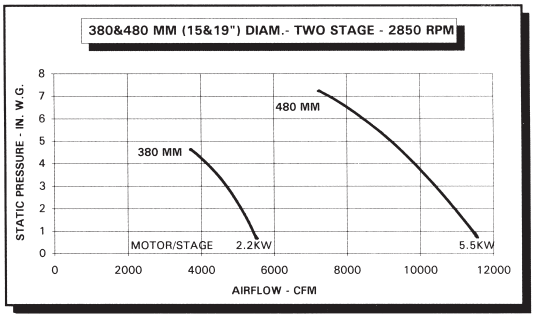
# Mine Ventilation Fans
# Two-Stage Axial Flow Fans - Contra-Rotating

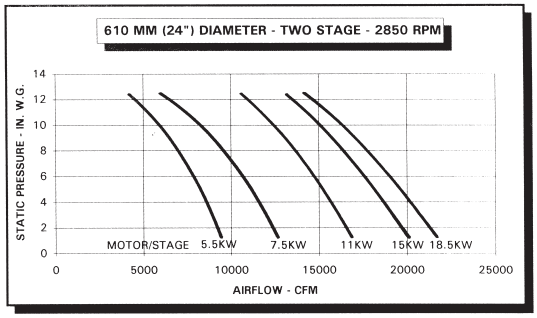
**Features**
* High Quality Aerofoil Bladed Cast Aluminium Impellers
* Robustly Designed Casings, Flanges & Motor Mounting Brackets
* Fully Welded Construction With Heavy Duty Hanging Brackets
* Totally Enclosed Air Over Motors, With Minimum IP55 Protection
* External Terminal Boxes - Fully Welded Steel Construction
* Wire Mesh Guards At Fan Inlet For Protection
* Bag Adaptors At Fan Discharge (Optional)
* Inlet Cone With Guard (Optional)
* External Greasing Points For Motors (Optional)

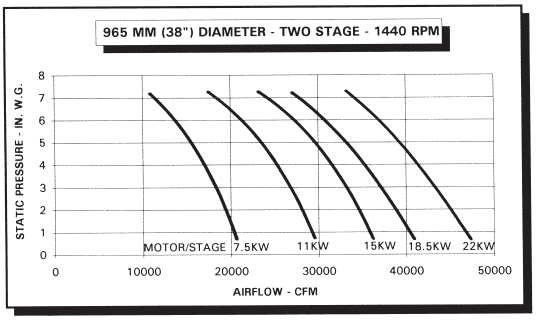
Proven Performers - Over the past 20 years, our extensive skills and experience have gone into supplying numerous contra-rotating axial flow fans for underground mine ventilation throughout Australia, particularly the Kalgoorlie region of Western Australia.

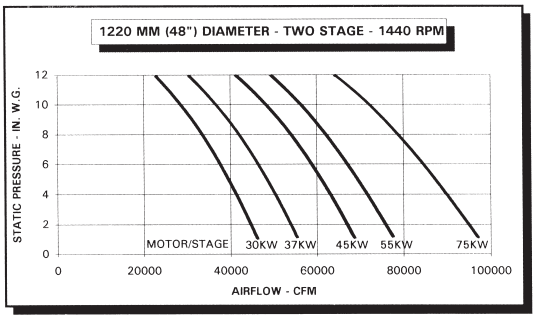
*AF 1220 Two Stage Fan, Heavy Duty, 55kw per stage*

# MINE VENTILATION FANS – Specifications

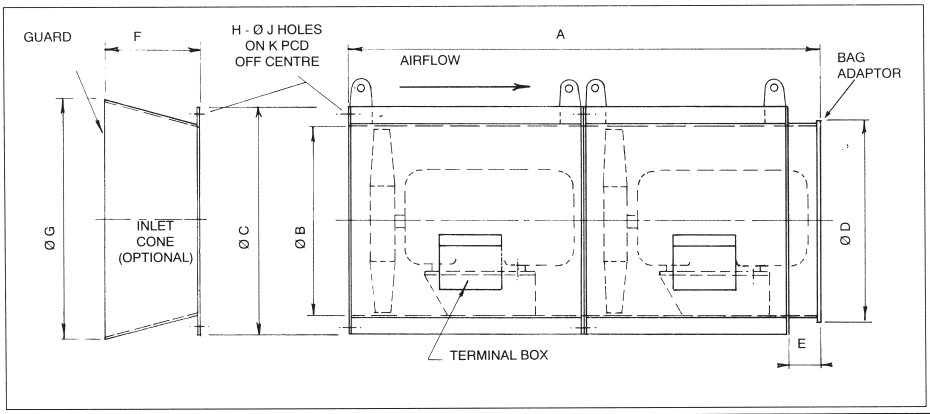



CONVERSIONS: 1 CFM = 1.699 M³/HR = 0.472 L/S; 1 IN. W.G. = 0.249 KPA = 25.4 MM W.G.




| SIZE | A | B | C | D | E | F | G | H | J | K |
|---|---|---|---|---|---|---|---|---|---|---|
| 380 | 900 | 386 | 472 | 412 | 100 | 190 | 475 | 4 | 12 | 440 |
| 480 | 1200 | 486 | 592 | 514 | 100 | 240 | 600 | 4 | 15 | 548 |
| 610 | 1500 | 618 | 726 | 646 | 100 | 305 | 760 | 6 | 15 | 682 |
| 965 | 1500 | 974 | 1114 | 1004 | 100 | 485 | 1205 | 8 | 18 | 1056 |
| 1220 | 2400 | 1230 | 1370 | 1260 | 100 | 610 | 1525 | 10 | 18 | 1312 |

ALL DIMENSIONS IN MM

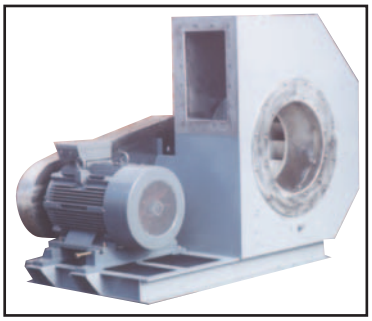
*** OTHER CUSTOM BUILT SIZES AVAILABLE ON APPLICATION ***

## Inline centrifugal fans

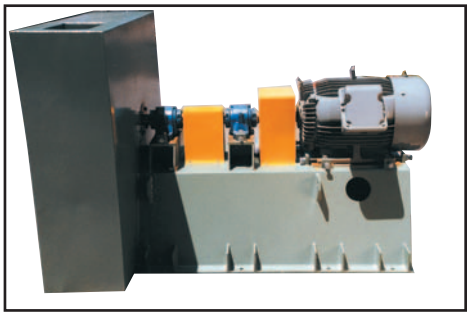
The Aerotech inline centrifugal fans are heavy duty industrial type, non-overloading fans which are quiet and compact. The consolidation of the centrifugal wheel in a tube with guide vanes produce a highly efficient performance characteristics comparable to scroll type centrifugal fans but with minimum space requirements similar to that of axial flow fans. The tubular design eliminates the need for duct turns and transition pieces, thus providing simpler and less costly installation. The inlet and outlet diameters are identical and the fan can be mounted vertically or horizontally.

## Acoustically Lagged Centrifugal fans

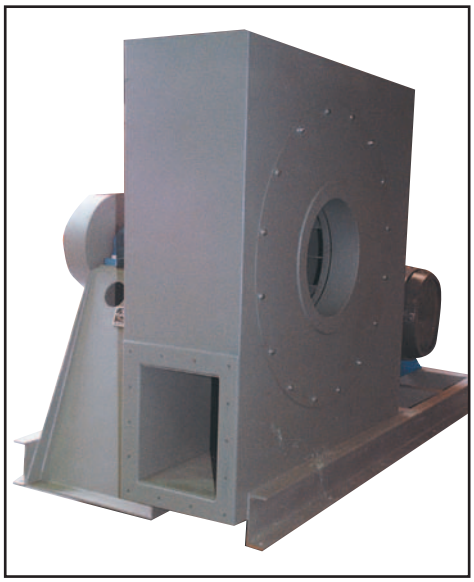
The Aerotech range of centrifugal fans can all be acoustically lagged to reduce radiated noise from the fan casing. The whole casing is double skinned and insulated with sound absorbent material. It is more economical to purchase a lagged fan than to acoustically insulate the fan casing on site to meet the necessary noise requirements.



*MVX 320 s/s fan, Arr.1, 90kw*



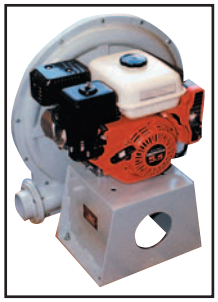
*HP 332 fan, Arr.8, Coupling Driven, 22kw*



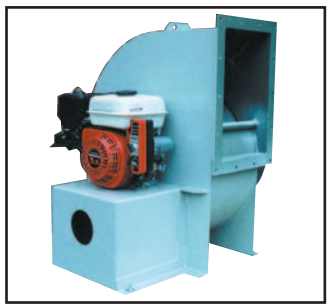
*HP 406 fan, Arr.1, 120kw*

## Petrol Engine Driven centrifugal fans

These fans are ideal for use in remote areas where electricity supply is not easily available.



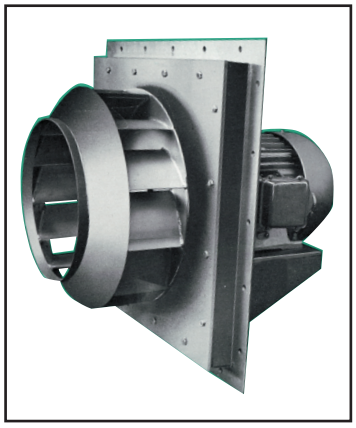
*F 24 Fan*



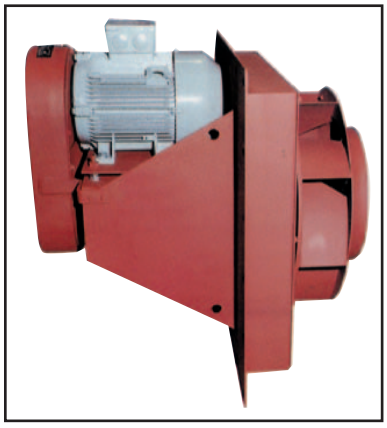
*MVZ 160 fan*

## Plug Fans for high temperature

The Aerotech plug fans are solidly welded, non-overloading fans which can be square panel mounted to the side or top of oven dryer panel. The mounting panel is insulated. These fans are designed for internal operation in furnaces, ovens or kilns where air has to be exhausted, re-circulated, or distributed. Plug units eliminate ductwork and special mounting platforms.



*Direct Driven*



*Belt Driven*