# M.K. Plastics CORPORATION

SERVING THE NEEDS OF MODERN INDUSTRY

# AXTC

TUBULAR INLINE CENTRIFUGAL
FIBERGLASS FAN

# AXTC

## INTRODUCTION AND FEATURES

### TUBULAR INLINE CENTRIFUGAL FIBERGLASS FAN

M.K. Plastics CORPORATION
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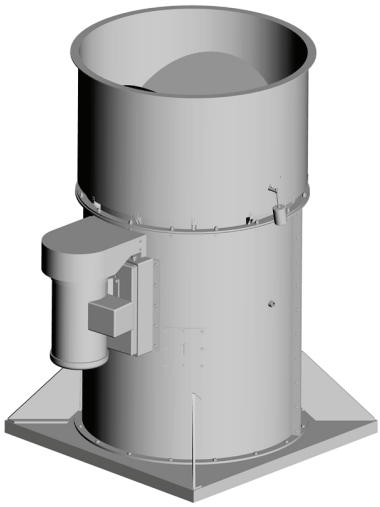
We are pleased to provide you with this Engineering brochure for the AXTC Tubular Inline Centrifugal Fiberglass Fan. The information contained within is also available on the M. K. Plastics Electronic Catalog (CD ROM). This CD includes information on all of the M. K. Plastics fans, exhaust systems and their components, and is available from your technical sales representative or M. K. Plastics directly. We look forward to assisting you with your important application.

For over 45 years, M. K. Plastics has been engineering, designing, and fabricating thermoplastic and FRP ventilation components and systems for institutional and industrial applications. Founded in 1963, today M. K. Plastics has facilities and offices in Montréal, Québec, Canada; Spiez, Switzerland; Troy, OH and Mooers, NY, USA. In major cities throughout the United States and Canada, M.K. Plastics is represented by technical sales representatives.

Other quality corrosion resistant fans are available from M.K. Plastics. Your local M.K. Plastics representative will be pleased to provide you with technical information upon request.

***Axijet***® High Plume Dilution Fan
***Axijet***® ***LEADLAG***™ Exhaust Fan Control System
***KVC*** High Plume Fan
***Plastifer***® Venturi Exhaust System
***DHK*** Medium Pressure Centrifugal Fan
***DHK-NW*** High Pressure Centrifugal Fan
***CNW*** Centrifugal Fiberglass Fan
***PRVS*** High Pressure/Low Volume Centrifugal Blower
***AXT*** Axial Tubular Propeller Fan
***AXB*** Axial Bifurcated Propeller Fan
***AXPR*** Axial Panel Propeller Fan
***RBK*** Roof Upblast & Sidewall Centrifugal Exhaust Fan
***FRP & PVC*** Control Dampers & Gravity Backdraft Dampers
***FRP & PVC*** Duct and Fittings
***Mist Eliminators***



## INTRODUCTION

M.K. Plastics Corporation's AXTC is a straight-line airflow centrifugal fiberglass fan featuring the design advantages of an axial type fan with the reliable performance of a centrifugal fan. The 'tubular' inline design offers straight airflow suitable for horizontal or vertical duct mounting, as well as roof mounted exhaust and supply ventilation. The AXTC employs a specially designed non-overloading backward inclined airfoil wheel which allows air to flow with a minimum of turbulence and losses. This results in higher efficiencies and lower sound levels. Both wheel and casing are manufactured with high quality corrosion resistant resins and fiberglass reinforced. This innovative design has no metal in the airstream, for superior corrosion resistance and long life in corrosive atmospheres.

## M.K. PLASTICS QUALITY ASSURANCE

Each AXTC fan is statically and dynamically balanced to AMCA Standards 204-96 and test run with vibration measurements taken before shipment.

M.K. Plastics Corporation certifies that all AXTC models shown herein are licensed to bear the AMCA seal for air & sound. The ratings shown are based upon tests and procedures performed in accordance with AMCA Publication 211 and 311, and comply with the requirements of the AMCA Certified Ratings Program.

amca CERTIFIED RATINGS
SOUND and AIR PERFORMANCE
AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.®

## DESIGN AND CONSTRUCTION

- Twelve sizes are available, (in both belt and direct drive) - 1825 (18") to 6000 (60"), with capacities from 2,800 to 70,000 CFM and up to 8" S.P.

- The AXTC impeller is backward inclined, airfoil, vinyl ester fiberglass reinforced, Class II of special design to facilitate the air flow through the casing with improved efficiency. It is tested for its integrity at a minimum 50% higher speed than the maximum stated catalog performance. The impeller is electronically statically and dynamically balanced in accordance with ANSI/AMCA 204-96 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3.

- AXTC fans are manufactured with high quality, corrosion resistant resins and are fiberglass reinforced, able to withstand temperatures up to 210 deg. F., subject to the exhausted chemicals fumes and their concentrations. UV inhibitors are added to the resins and fans are flame retardant class 1 of 25 or less. The molded tubular split housings are smooth both exterior for aesthetic appearance and interior for streamlined airflow, are resistant to weather, salt spray and most chemicals.

- The tubular fan has an inner cylinder or chamber, rigidly constructed to support the fan sheaves, shaft and bearings which are completely out of the airstream.

- Straightening vanes serve two purposes: they give extra rigidity to the fan housing and reduce turbulence by straightening the airflow exiting the fan wheel, increasing efficiency.

- The '*split*' casing will unbolt and separate, (one section only), in such a way as to gain easy access for maintenance to the shaft bearings and drive components. Impeller and shaft assembly removal can also be achieved. The split casing is designed to enable section removal in both horizontal, vertical and roof mounted positions without affecting the stability of the fan.

- There is no exposed metal in the exhaust airstream. All hardware is 304 stainless steel and completely encapsulated in fiberglass where exposed to the exhaust.

- Built in compliance with ASTM Standard D4167-97, for Fiber-Reinforced Plastic Fans and Blowers.

- A neoprene hub seal is standard on AXTC fans to minimize air leakage and is placed on the wheel hub. A Teflon seal is available for more severe environments.

- The standard blower shafts are carbon steel (C1045) and are turned, ground, polished and keyed at both ends. They are sized to operate well below critical speed. 304 or 316 stainless steel shafts are available when required, at an extra cost.

- AXTC fan bearings (belt drive) are heavy-duty, self-aligning, pillow block type, as standard. Bearings are selected for a minimum L-10 life of 100,000 hours at the maximum fan RPM.

- The motor mounting platform for arrangement #9 fans are exterior mounted on a fully adjustable base, supported by an external housing assembly. Motors may be direct or belt drive with standard T-frames with maximum frame sizes as shown on the catalog performance tables.

# AXTC

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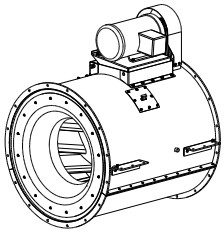
## MOUNTING OPTIONS

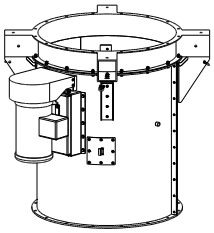
### TUBULAR INLINE CENTRIFUGAL FIBERGLASS FAN

**Horizontal Hanging**

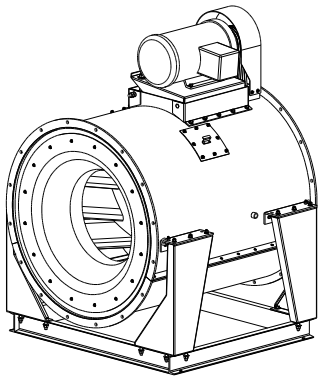


Side mounting brackets for horizontal ceiling hung applications. The brackets can be used with hanging vibration isolators.

**Vertical Hanging**



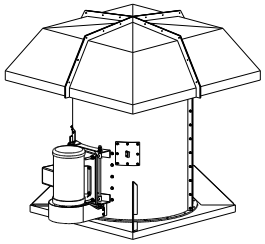
Mounting brackets for vertical base or vertical ceiling hung applications. Vibration isolators can be used in all mounting configurations.



**Horizontal Mounting Base**

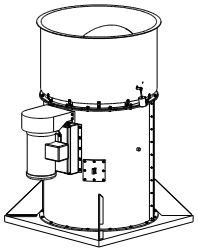
Mounting support legs attached to a support base provides a solid stand for floor, ceiling and wall mounting. The mounting base can be used with vibration isolators.

**Curb Mounted Hooded Supply/Exhaust Fan**

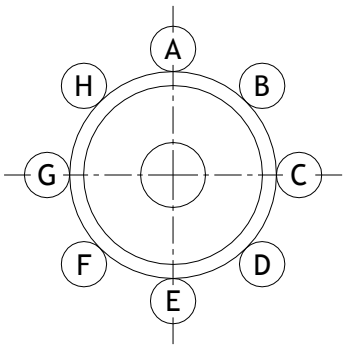


Complete with an FRP weather hood, can provide complete protection from the elements for both supply and exhaust operation.

**Curb Mounted Exhaust Fan**



Upblast configuration when used with optional butterfly damper and curb cap, can be mounted as a roof exhauster.




| | |
|---|---|
| A— | Standard motor positions for Horizontal Hanging & Foot Mount. |
| G, H, B, C— | Motor positions available for Horizontal Ceiling Hung Fan. |
| F, E, D— | Motor positions available for Horizontal Base Mount (from ceiling), or Horizontal Hanging. |

# AXTC

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# PERFORMANCE DATA

## TUBULAR INLINE CENTRIFUGAL FIBERGLASS FAN

### AXTC 1825

Impeller DIA. [in] = 19.40" Max Motor Frame = 215T Max. Speed [RPM] = 2,754 Outlet Area [$ft^2$] = 3.32

| Flow | O.V. | STATIC PRESSURE, inches of water | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.25 | | 0.5 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| CFM | FPM | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 3000 | 902 | 1265 | 0.65 | 1326 | 0.79 | 1444 | 1.09 | 1667 | 1.78 | 1879 | 2.54 | 2070 | 3.35 | 2245 | 4.21 | 2407 | 5.10 | 2567 | 6.04 |
| 3300 | 993 | 1379 | 0.84 | 1436 | 0.99 | 1547 | 1.31 | 1753 | 2.04 | 1947 | 2.84 | 2131 | 3.70 | 2303 | 4.61 | 2461 | 5.55 | 2607 | 6.52 |
| 3600 | 1083 | 1493 | 1.05 | 1545 | 1.21 | 1650 | 1.57 | 1838 | 2.32 | 2020 | 3.17 | 2201 | 4.09 | 2364 | 5.05 | 2520 | 6.03 | 2664 | 7.04 |
| 3900 | 1173 | 1609 | 1.31 | 1659 | 1.49 | 1755 | 1.86 | 1929 | 2.65 | 2105 | 3.54 | 2270 | 4.50 | 2432 | 5.51 | 2582 | 6.56 | 2723 | 7.61 |
| 4200 | 1263 | 1725 | 1.61 | 1771 | 1.79 | 1861 | 2.18 | 2029 | 3.03 | 2191 | 3.95 | 2344 | 4.94 | 2501 | 6.01 | 2647 | 7.10 | | |
| 4500 | 1354 | 1841 | 1.95 | 1886 | 2.15 | 1970 | 2.56 | 2129 | 3.45 | 2279 | 4.41 | 2429 | 5.45 | 2570 | 6.53 | 2717 | 7.70 | | |
| 4800 | 1444 | 1957 | 2.33 | 1999 | 2.54 | 2079 | 2.98 | 2232 | 3.92 | 2370 | 4.91 | 2517 | 6.00 | 2651 | 7.13 | | | | |
| 5100 | 1534 | 2075 | 2.77 | 2115 | 3.00 | 2191 | 3.46 | 2335 | 4.44 | 2470 | 5.48 | 2605 | 6.60 | 2735 | 7.76 | | | | |

### AXTC 2225

Impeller DIA. [in] = 23.56" Max Motor Frame = 256T Max. Speed [RPM] = 2,268 Outlet Area [$ft^2$] = 5.12

| Flow | O.V. | STATIC PRESSURE, inches of water | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.25 | | 0.5 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| CFM | FPM | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 3500 | 684 | 849 | 0.54 | 911 | 0.71 | 1029 | 1.09 | 1249 | 1.97 | 1438 | 2.93 | 1609 | 3.99 | 1770 | 5.13 | 1917 | 6.34 | 2061 | 7.51 |
| 4500 | 880 | 1057 | 1.00 | 1107 | 1.21 | 1203 | 1.66 | 1385 | 2.68 | 1557 | 3.82 | 1714 | 5.04 | 1857 | 6.30 | 1985 | 7.60 | 2120 | 9.04 |
| 5250 | 1026 | 1217 | 1.51 | 1262 | 1.75 | 1347 | 2.26 | 1506 | 3.38 | 1653 | 4.59 | 1805 | 5.95 | 1941 | 7.37 | 2070 | 8.81 | 2188 | 10.29 |
| 6000 | 1173 | 1377 | 2.17 | 1418 | 2.44 | 1494 | 3.00 | 1635 | 4.22 | 1773 | 5.56 | 1901 | 6.99 | 2035 | 8.54 | 2155 | 10.11 | | |
| 6750 | 1320 | 1541 | 3.02 | 1577 | 3.32 | 1644 | 3.92 | 1776 | 5.27 | 1897 | 6.70 | 2017 | 8.22 | 2132 | 9.86 | 2251 | 11.57 | | |
| 7500 | 1466 | 1703 | 4.05 | 1737 | 4.39 | 1798 | 5.05 | 1920 | 6.52 | 2029 | 8.03 | 2141 | 9.68 | 2250 | 11.42 | | | | |
| 8250 | 1613 | 1867 | 5.31 | 1897 | 5.67 | 1957 | 6.44 | 2067 | 7.99 | 2170 | 9.62 | 2267 | 11.33 | | | | | | |
| 9000 | 1760 | 2031 | 6.82 | 2059 | 7.21 | 2114 | 8.03 | 2214 | 9.67 | | | | | | | | | | |

### AXTC 2450

Impeller DIA. [in] = 25.94" Max Motor Frame = 256T Max. Speed [RPM] = 2,059 Outlet Area [$ft^2$] = 5.98

| Flow | O.V. | STATIC PRESSURE, inches of water | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.25 | | 0.5 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| CFM | FPM | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 4000 | 668 | 733 | 0.56 | 792 | 0.76 | 905 | 1.20 | 1111 | 2.23 | 1288 | 3.38 | 1449 | 4.62 | 1595 | 5.96 | 1735 | 7.34 | 1867 | 8.69 |
| 5000 | 835 | 889 | 0.98 | 939 | 1.21 | 1029 | 1.71 | 1207 | 2.89 | 1370 | 4.20 | 1517 | 5.58 | 1649 | 7.05 | 1779 | 8.61 | 1901 | 10.27 |
| 6000 | 1003 | 1047 | 1.56 | 1089 | 1.83 | 1170 | 2.42 | 1323 | 3.73 | 1467 | 5.19 | 1605 | 6.76 | 1732 | 8.39 | 1849 | 10.08 | 1957 | 11.82 |
| 7000 | 1170 | 1207 | 2.37 | 1245 | 2.68 | 1317 | 3.35 | 1447 | 4.78 | 1576 | 6.35 | 1700 | 8.08 | 1820 | 9.87 | 1932 | 11.76 | 2041 | 13.71 |
| 8000 | 1337 | 1369 | 3.42 | 1403 | 3.79 | 1467 | 4.53 | 1585 | 6.09 | 1700 | 7.83 | 1811 | 9.66 | 1917 | 11.59 | 2026 | 13.63 | | |
| 9000 | 1504 | 1531 | 4.76 | 1562 | 5.17 | 1620 | 5.99 | 1729 | 7.72 | 1829 | 9.54 | 1932 | 11.53 | 2032 | 13.63 | | | | |
| 10000 | 1671 | 1695 | 6.43 | 1732 | 6.88 | 1777 | 7.80 | 1876 | 9.66 | 1970 | 11.64 | | | | | | | | |
| 11000 | 1838 | 1859 | 8.45 | 1885 | 8.95 | 1933 | 9.92 | 2026 | 11.98 | | | | | | | | | | |

Performance certified for installation Type B: free inlet/ducted outlet. Power rating (BHP) includes transmission losses. Performance data is based on standard air conditions 70°F (0.075 lbs/ft.3). Performance ratings do not include the effects of appurtenances (accessories).

# AXTC

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# PERFORMANCE DATA

## TUBULAR INLINE CENTRIFUGAL FIBERGLASS FAN

### AXTC 2700

Impeller DIA. [in] = 28.63" Max Motor Frame = 284T Max. Speed [RPM] = 1,866 Outlet Area [$ft^2$] = 7.47

| Flow | O.V. | STATIC PRESSURE, inches of water | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.25 | | 0.5 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| CFM | FPM | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 6000 | 804 | 795 | 1.15 | 839 | 1.42 | 923 | 2.03 | 1088 | 3.47 | 1235 | 5.03 | 1370 | 6.72 | 1488 | 8.46 | 1609 | 10.39 | 1720 | 12.39 |
| 7000 | 937 | 911 | 1.69 | 951 | 2.01 | 1026 | 2.69 | 1170 | 4.25 | 1307 | 6.00 | 1432 | 7.85 | 1549 | 9.77 | 1657 | 11.80 | 1759 | 13.90 |
| 8000 | 1071 | 1031 | 2.43 | 1065 | 2.77 | 1135 | 3.55 | 1261 | 5.23 | 1382 | 7.08 | 1503 | 9.12 | 1614 | 11.25 | 1717 | 13.39 | 1814 | 15.62 |
| 9000 | 1205 | 1151 | 3.35 | 1183 | 3.75 | 1245 | 4.59 | 1359 | 6.40 | 1470 | 8.38 | 1576 | 10.55 | 1682 | 12.78 | 1782 | 15.15 | | |
| 10000 | 1339 | 1271 | 4.48 | 1301 | 4.93 | 1357 | 5.84 | 1464 | 7.82 | 1564 | 9.94 | 1664 | 12.22 | 1757 | 14.63 | 1855 | 17.16 | | |
| 11000 | 1473 | 1393 | 5.87 | 1421 | 6.38 | 1471 | 7.33 | 1570 | 9.45 | 1661 | 11.69 | 1755 | 14.14 | 1844 | 16.67 | | | | |
| 12000 | 1607 | 1515 | 7.53 | 1539 | 8.03 | 1589 | 9.15 | 1679 | 11.37 | 1767 | 13.81 | 1847 | 16.29 | | | | | | |
| 13000 | 1741 | 1637 | 9.47 | 1659 | 10.01 | 1705 | 11.19 | 1791 | 13.62 | | | | | | | | | | |

### AXTC 3000

Impeller DIA. [in] = 31.75" Max Motor Frame = 284T Max. Speed [RPM] = 1,682 Outlet Area [$ft^2$] = 8.97

| Flow | O.V. | STATIC PRESSURE, inches of water | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.25 | | 0.5 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| CFM | FPM | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 9000 | 1003 | 857 | 2.36 | 891 | 2.76 | 957 | 3.64 | 1082 | 5.61 | 1197 | 7.74 | 1311 | 10.12 | 1414 | 12.55 | 1511 | 15.11 | 1601 | 17.77 |
| 10000 | 1114 | 943 | 3.11 | 974 | 3.55 | 1035 | 4.50 | 1147 | 6.58 | 1257 | 8.92 | 1364 | 11.44 | 1461 | 14.00 | 1557 | 16.79 | 1645 | 19.58 |
| 11000 | 1226 | 1031 | 4.04 | 1062 | 4.56 | 1117 | 5.57 | 1220 | 7.78 | 1323 | 10.26 | 1417 | 12.87 | 1514 | 15.63 | 1605 | 18.56 | | |
| 12000 | 1337 | 1119 | 5.13 | 1147 | 5.68 | 1198 | 6.76 | 1297 | 9.17 | 1388 | 11.69 | 1482 | 14.54 | 1567 | 17.39 | 1657 | 20.49 | | |
| 13000 | 1449 | 1209 | 6.45 | 1235 | 7.04 | 1283 | 8.21 | 1376 | 10.77 | 1459 | 13.42 | 1547 | 16.34 | 1629 | 19.39 | | | | |
| 14000 | 1560 | 1297 | 7.93 | 1321 | 8.55 | 1368 | 9.86 | 1453 | 12.48 | 1535 | 15.36 | 1614 | 18.36 | | | | | | |
| 15000 | 1672 | 1387 | 9.68 | 1409 | 10.33 | 1453 | 11.71 | 1535 | 14.55 | 1611 | 17.48 | | | | | | | | |
| 16000 | 1783 | 1477 | 11.67 | 1497 | 12.33 | 1539 | 13.81 | 1614 | 16.70 | | | | | | | | | | |

### AXTC 3300

Impeller DIA. [in] = 34.94" Max Motor Frame = 286T Max. Speed [RPM] = 1,529 Outlet Area [$ft^2$] = 10.86

| Flow | O.V. | STATIC PRESSURE, inches of water | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.25 | | 0.5 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| CFM | FPM | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 11000 | 1013 | 785 | 2.92 | 815 | 3.40 | 876 | 4.50 | 988 | 6.88 | 1094 | 9.54 | 1194 | 12.34 | 1288 | 15.33 | 1376 | 18.44 | 1457 | 21.65 |
| 12000 | 1105 | 851 | 3.70 | 879 | 4.22 | 936 | 5.39 | 1038 | 7.88 | 1138 | 10.70 | 1235 | 13.70 | 1326 | 16.89 | 1411 | 20.14 | 1491 | 23.49 |
| 13000 | 1197 | 915 | 4.56 | 943 | 5.15 | 995 | 6.38 | 1091 | 9.03 | 1185 | 11.93 | 1273 | 15.05 | 1364 | 18.43 | 1447 | 21.94 | 1526 | 25.48 |
| 14000 | 1289 | 983 | 5.64 | 1009 | 6.27 | 1057 | 7.56 | 1147 | 10.31 | 1235 | 13.37 | 1320 | 16.67 | 1403 | 20.12 | 1485 | 23.77 | | |
| 15000 | 1381 | 1049 | 6.82 | 1073 | 7.48 | 1118 | 8.83 | 1205 | 11.78 | 1285 | 14.91 | 1367 | 18.32 | 1444 | 21.96 | 1523 | 25.71 | | |
| 17000 | 1565 | 1183 | 9.73 | 1205 | 10.49 | 1245 | 11.98 | 1323 | 15.20 | 1397 | 18.68 | 1470 | 22.39 | | | | | | |
| 19000 | 1749 | 1317 | 13.36 | 1337 | 14.22 | 1374 | 15.89 | 1444 | 19.37 | 1514 | 23.22 | | | | | | | | |
| 21000 | 1933 | 1451 | 17.80 | 1469 | 18.74 | 1503 | 20.58 | | | | | | | | | | | | |

Performance certified for installation Type B: free inlet/ducted outlet. Power rating (BHP) includes transmission losses. Performance data is based on standard air conditions 70°F (0.075 lbs/ft.3). Performance ratings do not include the effects of appurtenances (accessories).

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# PERFORMANCE DATA

## TUBULAR INLINE CENTRIFUGAL FIBERGLASS FAN

### AXTC 3650

Impeller DIA. [in] = 38.68" Max Motor Frame = 286T Max. Speed [RPM] = 1,381 Outlet Area [$ft^2$] = 13.30

| Flow | O.V. | STATIC PRESSURE, inches of water | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.25 | | 0.5 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| CFM | FPM | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 15000 | 1128 | 743 | 3.68 | 769 | 4.34 | 824 | 5.82 | 926 | 8.95 | 1023 | 12.45 | 1114 | 16.13 | 1197 | 20.00 | 1279 | 24.01 | 1353 | 28.06 |
| 16000 | 1203 | 789 | 4.36 | 815 | 5.11 | 862 | 6.55 | 961 | 9.90 | 1056 | 13.58 | 1144 | 17.44 | 1226 | 21.52 | 1303 | 25.66 | 1376 | 29.83 |
| 17000 | 1278 | 835 | 5.13 | 859 | 5.90 | 905 | 7.49 | 997 | 10.92 | 1088 | 14.70 | 1173 | 18.77 | 1253 | 22.94 | 1326 | 27.25 | | |
| 18000 | 1353 | 883 | 6.05 | 905 | 6.83 | 945 | 8.39 | 1035 | 12.02 | 1123 | 16.02 | 1203 | 20.16 | 1282 | 24.54 | 1355 | 29.04 | | |
| 19000 | 1429 | 929 | 7.00 | 951 | 7.86 | 989 | 9.48 | 1076 | 13.33 | 1156 | 17.32 | 1235 | 21.61 | 1311 | 26.21 | | | | |
| 21000 | 1579 | 1023 | 9.28 | 1041 | 10.13 | 1080 | 12.09 | 1156 | 16.11 | 1229 | 20.42 | 1303 | 24.98 | 1373 | 29.75 | | | | |
| 23000 | 1729 | 1115 | 11.90 | 1135 | 13.01 | 1168 | 14.96 | 1238 | 19.37 | 1306 | 23.88 | 1373 | 28.81 | | | | | | |
| 25000 | 1880 | 1209 | 15.10 | 1227 | 16.26 | 1259 | 18.45 | 1320 | 23.04 | | | | | | | | | | |

### AXTC 4025

Impeller DIA. [in] = 42.63" Max Motor Frame = 324T Max. Speed [RPM] = 1,254 Outlet Area [$ft^2$] = 16.13

| Flow | O.V. | STATIC PRESSURE, inches of water | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.25 | | 0.5 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| CFM | FPM | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 17000 | 1054 | 633 | 3.74 | 659 | 4.53 | 711 | 6.18 | 811 | 9.88 | 903 | 13.93 | 985 | 18.15 | 1064 | 22.56 | 1138 | 27.17 | 1209 | 32.05 |
| 19000 | 1178 | 701 | 4.99 | 725 | 5.87 | 771 | 7.67 | 861 | 11.61 | 947 | 15.97 | 1029 | 20.64 | 1103 | 25.48 | 1173 | 30.32 | 1241 | 25.44 |
| 21000 | 1302 | 771 | 6.57 | 793 | 7.54 | 833 | 9.46 | 914 | 13.59 | 997 | 18.33 | 1070 | 23.14 | 1144 | 28.36 | 1211 | 33.72 | | |
| 23000 | 1426 | 841 | 8.46 | 859 | 9.39 | 897 | 11.55 | 973 | 16.01 | 1047 | 20.92 | 1120 | 26.22 | 1188 | 31.69 | 1253 | 37.27 | | |
| 25000 | 1550 | 911 | 10.68 | 929 | 11.77 | 962 | 13.92 | 1032 | 18.69 | 1100 | 23.91 | 1170 | 29.48 | 1235 | 35.31 | | | | |
| 27000 | 1674 | 981 | 13.25 | 997 | 14.37 | 1029 | 16.75 | 1095 | 21.96 | 1159 | 27.40 | 1220 | 33.01 | | | | | | |
| 29000 | 1798 | 1051 | 16.21 | 1067 | 17.49 | 1097 | 20.03 | 1154 | 25.23 | 1217 | 31.10 | | | | | | | | |
| 31000 | 1922 | 1121 | 19.58 | 1135 | 20.85 | 1165 | 23.70 | 1217 | 29.15 | | | | | | | | | | |

### AXTC 4450

Impeller DIA. [in] = 47.13" Max Motor Frame = 365T Max. Speed [RPM] = 1,134 Outlet Area [$ft^2$] = 20.17

| Flow | O.V. | STATIC PRESSURE, inches of water | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.25 | | 0.5 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| CFM | FPM | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 19000 | 962 | 527 | 3.61 | 553 | 4.53 | 604 | 6.41 | 700 | 10.65 | 788 | 15.33 | 867 | 20.23 | 941 | 25.38 | 1009 | 30.67 | 1076 | 36.28 |
| 21500 | 1088 | 591 | 5.00 | 613 | 5.96 | 659 | 8.06 | 747 | 12.69 | 826 | 17.60 | 903 | 23.08 | 973 | 28.65 | 1038 | 34.26 | 1101 | 40.34 |
| 24000 | 1215 | 655 | 6.71 | 675 | 7.77 | 715 | 10.03 | 794 | 14.97 | 870 | 20.34 | 941 | 26.04 | 1009 | 32.20 | 1076 | 38.54 | 1132 | 44.67 |
| 26200 | 1326 | 711 | 8.49 | 729 | 9.60 | 765 | 12.04 | 838 | 17.21 | 911 | 23.03 | 976 | 28.97 | 1044 | 35.59 | 1105 | 42.29 | | |
| 28400 | 1437 | 767 | 10.56 | 785 | 11.84 | 818 | 14.41 | 888 | 20.08 | 953 | 26.02 | 1017 | 32.35 | 1079 | 39.21 | | | | |
| 30600 | 1549 | 825 | 13.09 | 841 | 14.40 | 871 | 17.05 | 935 | 22.96 | 997 | 29.42 | 1059 | 36.10 | 1117 | 43.14 | | | | |
| 32800 | 1660 | 881 | 15.82 | 897 | 17.31 | 927 | 20.30 | 986 | 26.52 | 1044 | 33.13 | 1100 | 40.00 | | | | | | |
| 35000 | 1771 | 939 | 19.11 | 953 | 20.58 | 981 | 23.71 | 1033 | 29.96 | 1091 | 37.14 | | | | | | | | |

Performance certified for installation Type B: free inlet/ducted outlet. Power rating (BHP) includes transmission losses. Performance data is based on standard air conditions 70°F (0.075 lbs/ft.3). Performance ratings do not include the effects of appurtenances (accessories).

# AXTC

M.K. Plastics CORPORATION
SERVING THE NEEDS OF MODERN INDUSTRY

# PERFORMANCE DATA

## TUBULAR INLINE CENTRIFUGAL FIBERGLASS FAN

### AXTC 4900

Impeller DIA. [in] = 51.88" Max Motor Frame = 404T Max. Speed [RPM] = 1,034 Outlet Area [$ft^2$] = 23.94

| Flow | O.V. | STATIC PRESSURE, inches of water | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.25 | | 0.5 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| CFM | FPM | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 21000 | 877 | 441 | 3.48 | 467 | 4.50 | 515 | 6.57 | 611 | 11.52 | 694 | 16.91 | 767 | 22.29 | 838 | 28.37 | 903 | 34.50 | 964 | 40.98 |
| 23000 | 961 | 479 | 4.39 | 501 | 5.43 | 548 | 7.74 | 635 | 12.85 | 714 | 18.43 | 788 | 24.54 | 855 | 30.76 | 917 | 37.10 | 979 | 44.13 |
| 25000 | 1044 | 517 | 5.45 | 537 | 6.53 | 580 | 8.96 | 664 | 14.50 | 738 | 20.31 | 809 | 26.85 | 873 | 33.22 | 935 | 40.17 | 991 | 47.04 |
| 27000 | 1128 | 555 | 6.66 | 575 | 7.90 | 615 | 10.51 | 691 | 16.13 | 764 | 22.49 | 832 | 29.15 | 894 | 36.13 | 953 | 43.10 | 1009 | 50.49 |
| 29000 | 1211 | 593 | 8.04 | 611 | 9.30 | 647 | 12.00 | 720 | 18.05 | 788 | 24.42 | 855 | 31.58 | 914 | 38.68 | 973 | 46.43 | 1029 | 54.19 |
| 32000 | 1337 | 651 | 10.53 | 667 | 11.87 | 699 | 14.82 | 767 | 21.32 | 832 | 28.32 | 891 | 35.59 | 950 | 43.33 | 1007 | 51.73 | | |
| 36000 | 1504 | 727 | 14.46 | 743 | 16.11 | 773 | 19.47 | 833 | 26.48 | 888 | 33.78 | 947 | 41.93 | 1000 | 50.27 | | | | |
| 40000 | 1671 | 805 | 19.49 | 819 | 21.24 | 845 | 24.73 | 898 | 32.27 | 953 | 40.68 | 1003 | 48.97 | | | | | | |

### AXTC 5425

Impeller DIA. [in] = 57.44" Max Motor Frame = 405T Max. Speed [RPM] = 930 Outlet Area [$ft^2$] = 29.34

| Flow | O.V. | STATIC PRESSURE, inches of water | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.25 | | 0.5 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| CFM | FPM | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 29000 | 988 | 443 | 5.73 | 463 | 707.00 | 505 | 10.01 | 582 | 16.39 | 653 | 23.45 | 717 | 30.92 | 776 | 38.47 | 832 | 46.65 | 888 | 55.30 |
| 32000 | 1090 | 485 | 7.41 | 503 | 8.83 | 541 | 11.98 | 611 | 18.64 | 679 | 26.30 | 741 | 34.30 | 799 | 42.69 | 853 | 51.14 | 903 | 59.90 |
| 35000 | 1193 | 527 | 9.39 | 545 | 11.05 | 577 | 14.20 | 644 | 21.54 | 707 | 29.44 | 767 | 37.95 | 823 | 47.02 | 873 | 55.69 | 923 | 64.96 |
| 38000 | 1295 | 571 | 11.89 | 585 | 13.39 | 615 | 16.89 | 676 | 24.44 | 738 | 33.05 | 794 | 42.02 | 847 | 51.15 | 897 | 60.88 | | |
| 41000 | 1397 | 613 | 14.57 | 627 | 16.28 | 655 | 20.05 | 714 | 28.28 | 770 | 37.10 | 823 | 46.35 | 873 | 55.90 | 923 | 66.21 | | |
| 44000 | 1499 | 655 | 17.62 | 669 | 19.57 | 695 | 23.50 | 748 | 31.83 | 800 | 41.11 | 853 | 51.00 | 900 | 60.98 | | | | |
| 47000 | 1602 | 699 | 21.73 | 711 | 23.26 | 737 | 27.67 | 786 | 36.39 | 835 | 46.01 | 885 | 56.38 | | | | | | |
| 50000 | 1704 | 741 | 25.28 | 753 | 27.39 | 777 | 31.91 | 824 | 41.35 | 870 | 51.13 | 917 | 62.11 | | | | | | |

### AXTC 6000

Impeller DIA. [in] = 63.59" Max Motor Frame = 444T Max. Speed [RPM] = 840 Outlet Area [$ft^2$] = 35.95

| Flow | O.V. | STATIC PRESSURE, inches of water | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.25 | | 0.5 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| CFM | FPM | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 39000 | 1085 | 437 | 9.08 | 453 | 10.79 | 487 | 14.58 | 551 | 22.78 | 611 | 31.88 | 667 | 41.62 | 720 | 51.92 | 770 | 62.51 | 814 | 72.94 |
| 42000 | 1168 | 467 | 10.91 | 483 | 12.85 | 512 | 16.56 | 573 | 25.30 | 632 | 35.11 | 688 | 45.60 | 738 | 56.43 | 785 | 67.09 | 829 | 78.02 |
| 45000 | 1252 | 499 | 13.24 | 513 | 15.16 | 541 | 19.28 | 598 | 28.47 | 653 | 38.27 | 707 | 49.40 | 757 | 60.81 | 801 | 72.13 | | |
| 48000 | 1335 | 529 | 15.59 | 543 | 17.73 | 569 | 22.12 | 624 | 31.76 | 676 | 42.02 | 726 | 53.32 | 776 | 65.40 | 820 | 77.33 | | |
| 51000 | 1419 | 561 | 18.52 | 575 | 20.92 | 599 | 25.42 | 651 | 35.51 | 700 | 46.23 | 747 | 57.47 | 794 | 69.95 | 838 | 82.41 | | |
| 54000 | 1502 | 593 | 21.80 | 605 | 24.08 | 629 | 29.02 | 677 | 39.30 | 723 | 50.48 | 770 | 62.38 | 814 | 75.07 | | | | |
| 57000 | 1585 | 625 | 25.45 | 637 | 27.97 | 659 | 32.95 | 705 | 43.84 | 748 | 55.14 | 794 | 67.83 | 838 | 81.24 | | | | |
| 60000 | 1669 | 655 | 29.03 | 667 | 31.79 | 689 | 37.21 | 733 | 48.70 | 776 | 60.82 | 817 | 73.29 | | | | | | |

Performance certified for installation Type B: free inlet/ducted outlet. Power rating (BHP) includes transmission losses. Performance data is based on standard air conditions 70°F (0.075 lbs/ft.3). Performance ratings do not include the effects of appurtenances (accessories).

# AXTC

M.K. Plastics CORPORATION
SERVING THE NEEDS OF MODERN INDUSTRY

# SOUND PERFORMANCE

## TUBULAR INLINE CENTRIFUGAL FIBERGLASS FAN

### AXTC 1825

| Speed | S.P. | Frequency [Hz] | | | | | | | | LwA |
|---|---|---|---|---|---|---|---|---|---|---|
| [RPM] | [inwg] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [dB] |
| 1000 | 0.25 | 76 | 71 | 71 | 73 | 70 | 65 | 50 | 37 | 74 |
| | 0.50 | 77 | 68 | 69 | 70 | 69 | 65 | 50 | 37 | 73 |
| | 0.85 | 80 | 65 | 64 | 62 | 69 | 65 | 52 | 39 | 71 |
| 1300 | 0.25 | 81 | 82 | 80 | 79 | 77 | 73 | 62 | 47 | 81 |
| | 1.00 | 81 | 79 | 76 | 75 | 75 | 72 | 61 | 46 | 79 |
| | 1.50 | 82 | 78 | 73 | 69 | 72 | 72 | 63 | 49 | 77 |
| 1550 | 0.25 | 83 | 89 | 86 | 83 | 82 | 78 | 69 | 55 | 86 |
| | 1.35 | 82 | 87 | 82 | 79 | 79 | 77 | 69 | 54 | 84 |
| | 2.10 | 83 | 87 | 79 | 74 | 74 | 77 | 70 | 56 | 81 |
| 1750 | 0.25 | 85 | 94 | 88 | 86 | 85 | 82 | 74 | 60 | 89 |
| | 1.75 | 84 | 93 | 84 | 82 | 81 | 80 | 74 | 59 | 87 |
| | 2.65 | 83 | 93 | 81 | 77 | 76 | 80 | 75 | 61 | 85 |
| 2000 | 0.25 | 88 | 99 | 91 | 89 | 89 | 86 | 80 | 66 | 93 |
| | 2.25 | 85 | 99 | 86 | 85 | 85 | 84 | 80 | 65 | 91 |
| | 3.50 | 84 | 100 | 83 | 80 | 78 | 84 | 80 | 67 | 89 |
| 2250 | 0.25 | 89 | 101 | 95 | 93 | 91 | 89 | 84 | 71 | 96 |
| | 3.00 | 87 | 101 | 91 | 89 | 87 | 87 | 83 | 70 | 93 |
| | 4.40 | 86 | 101 | 89 | 85 | 81 | 85 | 83 | 72 | 92 |
| 2500 | 0.25 | 91 | 103 | 99 | 97 | 94 | 92 | 87 | 75 | 99 |
| | 3.50 | 88 | 102 | 96 | 93 | 90 | 89 | 86 | 75 | 96 |
| | 5.50 | 87 | 102 | 95 | 89 | 83 | 87 | 86 | 76 | 94 |
| 2750 | 0.25 | 92 | 105 | 103 | 100 | 96 | 94 | 90 | 79 | 102 |
| | 4.50 | 89 | 104 | 101 | 95 | 92 | 91 | 89 | 79 | 99 |
| | 6.65 | 88 | 103 | 99 | 92 | 86 | 88 | 89 | 80 | 97 |

### AXTC 2225

| Speed | S.P. | Frequency [Hz] | | | | | | | | LwA |
|---|---|---|---|---|---|---|---|---|---|---|
| [RPM] | [inwg] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [dB] |
| 800 | 0.25 | 77 | 74 | 72 | 73 | 69 | 61 | 46 | 39 | 74 |
| | 0.55 | 76 | 70 | 69 | 70 | 69 | 61 | 46 | 39 | 72 |
| | 0.80 | 76 | 68 | 64 | 66 | 69 | 62 | 48 | 39 | 71 |
| 1100 | 0.25 | 87 | 82 | 81 | 81 | 79 | 74 | 60 | 46 | 83 |
| | 1.00 | 87 | 79 | 78 | 77 | 77 | 73 | 60 | 45 | 81 |
| | 1.50 | 88 | 77 | 74 | 71 | 76 | 73 | 61 | 48 | 79 |
| 1400 | 0.25 | 90 | 92 | 90 | 87 | 85 | 81 | 71 | 57 | 90 |
| | 1.65 | 90 | 90 | 86 | 83 | 82 | 80 | 70 | 55 | 87 |
| | 2.50 | 90 | 89 | 82 | 77 | 79 | 80 | 71 | 58 | 85 |
| 1650 | 0.25 | 93 | 98 | 94 | 91 | 90 | 86 | 78 | 64 | 94 |
| | 2.30 | 92 | 97 | 89 | 87 | 86 | 85 | 78 | 63 | 91 |
| | 3.50 | 91 | 97 | 86 | 82 | 81 | 85 | 78 | 65 | 89 |
| 1800 | 0.25 | 94 | 101 | 95 | 93 | 92 | 89 | 81 | 67 | 96 |
| | 2.85 | 92 | 101 | 91 | 89 | 88 | 87 | 81 | 66 | 94 |
| | 4.25 | 92 | 101 | 88 | 84 | 82 | 87 | 82 | 69 | 92 |
| 1950 | 0.25 | 96 | 105 | 97 | 94 | 94 | 91 | 85 | 71 | 99 |
| | 3.30 | 93 | 105 | 92 | 91 | 90 | 89 | 85 | 70 | 96 |
| | 5.00 | 92 | 105 | 89 | 86 | 83 | 89 | 85 | 72 | 95 |
| 2100 | 0.25 | 97 | 107 | 99 | 97 | 96 | 93 | 87 | 74 | 101 |
| | 3.80 | 94 | 106 | 95 | 93 | 91 | 91 | 87 | 73 | 98 |
| | 5.75 | 93 | 107 | 92 | 88 | 85 | 91 | 87 | 75 | 96 |
| 2260 | 0.25 | 98 | 108 | 102 | 99 | 98 | 95 | 90 | 77 | 103 |
| | 4.50 | 95 | 107 | 98 | 95 | 93 | 93 | 89 | 76 | 100 |
| | 6.65 | 94 | 108 | 96 | 91 | 87 | 91 | 89 | 78 | 98 |

### AXTC 2450

| Speed | S.P. | Frequency [Hz] | | | | | | | | LwA |
|---|---|---|---|---|---|---|---|---|---|---|
| [RPM] | [inwg] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [dB] |
| 800 | 0.25 | 80 | 77 | 76 | 76 | 72 | 64 | 49 | 42 | 77 |
| | 0.65 | 80 | 74 | 73 | 73 | 72 | 64 | 49 | 42 | 75 |
| | 1.00 | 79 | 71 | 67 | 68 | 72 | 65 | 52 | 42 | 74 |
| 1100 | 0.25 | 91 | 86 | 84 | 84 | 82 | 77 | 63 | 49 | 86 |
| | 1.25 | 91 | 82 | 81 | 80 | 80 | 76 | 63 | 48 | 84 |
| | 1.85 | 92 | 80 | 77 | 74 | 79 | 76 | 64 | 51 | 82 |
| 1300 | 0.25 | 93 | 92 | 90 | 88 | 86 | 82 | 71 | 56 | 91 |
| | 1.75 | 93 | 90 | 86 | 84 | 84 | 81 | 70 | 55 | 88 |
| | 2.65 | 94 | 88 | 83 | 78 | 81 | 81 | 71 | 58 | 86 |
| 1450 | 0.25 | 95 | 96 | 94 | 91 | 89 | 85 | 75 | 61 | 94 |
| | 2.15 | 94 | 95 | 90 | 87 | 86 | 84 | 75 | 60 | 91 |
| | 3.25 | 95 | 94 | 87 | 81 | 82 | 84 | 76 | 62 | 89 |
| 1600 | 0.25 | 97 | 100 | 96 | 93 | 92 | 88 | 79 | 65 | 96 |
| | 2.65 | 95 | 99 | 92 | 89 | 88 | 87 | 79 | 64 | 93 |
| | 4.00 | 95 | 99 | 89 | 84 | 84 | 87 | 80 | 67 | 91 |
| 1750 | 0.25 | 98 | 104 | 98 | 95 | 94 | 91 | 83 | 69 | 99 |
| | 3.10 | 96 | 103 | 94 | 91 | 90 | 89 | 83 | 68 | 96 |
| | 4.85 | 96 | 103 | 90 | 86 | 85 | 89 | 83 | 70 | 94 |
| 1900 | 0.25 | 99 | 107 | 100 | 97 | 96 | 93 | 87 | 73 | 101 |
| | 3.60 | 97 | 107 | 95 | 93 | 92 | 92 | 87 | 72 | 98 |
| | 5.65 | 96 | 107 | 92 | 88 | 86 | 91 | 87 | 74 | 97 |
| 2050 | 0.25 | 101 | 109 | 101 | 99 | 98 | 95 | 90 | 76 | 103 |
| | 4.25 | 98 | 109 | 97 | 95 | 94 | 93 | 90 | 75 | 100 |
| | 6.65 | 97 | 110 | 94 | 90 | 87 | 93 | 90 | 77 | 99 |

### AXTC 2700

| Speed | S.P. | Frequency [Hz] | | | | | | | | LwA |
|---|---|---|---|---|---|---|---|---|---|---|
| [RPM] | [inwg] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [dB] |
| 750 | 0.25 | 82 | 80 | 78 | 77 | 74 | 64 | 50 | 43 | 78 |
| | 0.70 | 80 | 76 | 74 | 75 | 73 | 64 | 49 | 43 | 76 |
| | 1.00 | 80 | 74 | 70 | 71 | 73 | 65 | 51 | 43 | 75 |
| 900 | 0.25 | 89 | 83 | 82 | 82 | 79 | 72 | 58 | 47 | 83 |
| | 1.00 | 89 | 80 | 79 | 79 | 78 | 72 | 57 | 47 | 81 |
| | 1.50 | 89 | 77 | 74 | 73 | 78 | 72 | 59 | 47 | 80 |
| 1100 | 0.25 | 95 | 89 | 88 | 87 | 85 | 80 | 67 | 52 | 89 |
| | 1.50 | 95 | 86 | 84 | 83 | 83 | 79 | 66 | 51 | 87 |
| | 2.25 | 96 | 83 | 80 | 77 | 82 | 79 | 67 | 54 | 85 |
| 1250 | 0.25 | 97 | 94 | 92 | 90 | 88 | 83 | 72 | 58 | 93 |
| | 2.00 | 97 | 91 | 88 | 86 | 86 | 83 | 71 | 56 | 90 |
| | 3.00 | 97 | 90 | 84 | 80 | 83 | 83 | 73 | 60 | 88 |
| 1400 | 0.25 | 99 | 99 | 96 | 93 | 91 | 87 | 77 | 63 | 96 |
| | 2.50 | 98 | 96 | 92 | 89 | 88 | 86 | 76 | 61 | 93 |
| | 3.75 | 98 | 95 | 89 | 83 | 85 | 86 | 77 | 64 | 91 |
| 1550 | 0.25 | 100 | 103 | 99 | 95 | 94 | 90 | 81 | 67 | 99 |
| | 3.00 | 99 | 101 | 95 | 91 | 91 | 89 | 81 | 66 | 96 |
| | 4.50 | 99 | 101 | 92 | 86 | 86 | 89 | 81 | 68 | 94 |
| 1700 | 0.25 | 102 | 106 | 101 | 97 | 96 | 93 | 85 | 71 | 101 |
| | 3.50 | 100 | 105 | 97 | 94 | 93 | 91 | 85 | 70 | 98 |
| | 5.25 | 100 | 105 | 94 | 89 | 88 | 91 | 85 | 72 | 96 |
| 1860 | 0.25 | 103 | 110 | 102 | 100 | 99 | 96 | 89 | 75 | 104 |
| | 4.35 | 101 | 109 | 98 | 96 | 95 | 94 | 89 | 74 | 101 |
| | 6.65 | 100 | 110 | 95 | 91 | 88 | 94 | 89 | 76 | 99 |

### AXTC 3000

| Speed | S.P. | Frequency [Hz] | | | | | | | | LwA |
|---|---|---|---|---|---|---|---|---|---|---|
| [RPM] | [inwg] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [dB] |
| 700 | 0.25 | 83 | 81 | 80 | 79 | 75 | 65 | 50 | 45 | 79 |
| | 0.75 | 81 | 78 | 76 | 76 | 74 | 64 | 49 | 45 | 78 |
| | 1.15 | 80 | 75 | 70 | 73 | 74 | 65 | 52 | 45 | 76 |
| 800 | 0.25 | 88 | 85 | 83 | 83 | 79 | 70 | 56 | 48 | 83 |
| | 1.00 | 87 | 81 | 79 | 79 | 78 | 70 | 55 | 48 | 81 |
| | 1.50 | 87 | 78 | 74 | 75 | 78 | 71 | 58 | 48 | 80 |
| 900 | 0.25 | 93 | 87 | 86 | 86 | 82 | 75 | 61 | 50 | 87 |
| | 1.25 | 93 | 83 | 82 | 82 | 81 | 75 | 60 | 50 | 84 |
| | 1.90 | 93 | 80 | 77 | 76 | 81 | 76 | 62 | 50 | 83 |
| 1100 | 0.25 | 99 | 93 | 91 | 91 | 88 | 83 | 70 | 55 | 92 |
| | 1.75 | 99 | 90 | 88 | 87 | 86 | 83 | 69 | 54 | 90 |
| | 2.80 | 100 | 87 | 83 | 80 | 85 | 83 | 71 | 57 | 88 |
| 1300 | 0.25 | 102 | 100 | 97 | 95 | 93 | 88 | 77 | 63 | 97 |
| | 2.50 | 101 | 97 | 93 | 91 | 90 | 87 | 76 | 61 | 94 |
| | 4.00 | 101 | 95 | 89 | 84 | 87 | 87 | 77 | 64 | 92 |
| 1450 | 0.25 | 104 | 104 | 101 | 97 | 95 | 91 | 81 | 67 | 100 |
| | 3.10 | 103 | 102 | 97 | 93 | 92 | 90 | 81 | 66 | 97 |
| | 5.00 | 102 | 101 | 93 | 87 | 88 | 90 | 82 | 69 | 95 |
| 1575 | 0.25 | 105 | 107 | 103 | 99 | 98 | 94 | 85 | 71 | 102 |
| | 3.75 | 103 | 106 | 99 | 95 | 94 | 92 | 85 | 70 | 99 |
| | 5.75 | 103 | 105 | 96 | 90 | 90 | 92 | 85 | 72 | 97 |
| 1680 | 0.25 | 106 | 110 | 104 | 100 | 99 | 96 | 88 | 74 | 104 |
| | 4.25 | 104 | 108 | 100 | 97 | 96 | 94 | 87 | 72 | 101 |
| | 6.65 | 104 | 108 | 97 | 91 | 90 | 94 | 88 | 75 | 99 |

### AXTC 3300

| Speed | S.P. | Frequency [Hz] | | | | | | | | LwA |
|---|---|---|---|---|---|---|---|---|---|---|
| [RPM] | [inwg] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [dB] |
| 550 | 0.25 | 77 | 77 | 77 | 75 | 70 | 57 | 42 | 44 | 76 |
| | 0.50 | 75 | 74 | 74 | 74 | 70 | 57 | 42 | 44 | 75 |
| | 0.85 | 72 | 69 | 67 | 73 | 70 | 58 | 45 | 44 | 73 |
| 750 | 0.25 | 89 | 87 | 85 | 84 | 80 | 71 | 56 | 49 | 85 |
| | 1.00 | 88 | 84 | 81 | 81 | 79 | 70 | 55 | 49 | 83 |
| | 1.55 | 87 | 81 | 76 | 77 | 79 | 71 | 58 | 49 | 81 |
| 950 | 0.25 | 99 | 92 | 90 | 90 | 87 | 81 | 66 | 54 | 91 |
| | 1.65 | 99 | 88 | 87 | 86 | 85 | 81 | 66 | 54 | 89 |
| | 2.50 | 99 | 85 | 82 | 80 | 85 | 81 | 67 | 55 | 88 |
| 1100 | 0.25 | 103 | 97 | 95 | 94 | 91 | 86 | 73 | 58 | 95 |
| | 2.25 | 103 | 93 | 91 | 89 | 89 | 85 | 72 | 57 | 93 |
| | 3.30 | 103 | 91 | 87 | 84 | 88 | 85 | 73 | 60 | 91 |
| 1200 | 0.25 | 105 | 100 | 98 | 96 | 93 | 88 | 76 | 62 | 98 |
| | 2.60 | 104 | 97 | 94 | 92 | 91 | 88 | 76 | 61 | 95 |
| | 4.00 | 104 | 95 | 90 | 86 | 89 | 88 | 77 | 64 | 93 |
| 1300 | 0.25 | 106 | 103 | 100 | 98 | 95 | 91 | 80 | 66 | 100 |
| | 3.10 | 105 | 100 | 96 | 94 | 93 | 90 | 79 | 64 | 97 |
| | 4.75 | 105 | 99 | 93 | 88 | 90 | 90 | 80 | 67 | 95 |
| 1400 | 0.25 | 107 | 106 | 103 | 99 | 97 | 93 | 83 | 69 | 102 |
| | 3.65 | 106 | 104 | 99 | 95 | 94 | 92 | 82 | 67 | 99 |
| | 5.35 | 106 | 103 | 96 | 90 | 91 | 92 | 83 | 70 | 97 |
| 1525 | 0.25 | 108 | 109 | 106 | 101 | 100 | 96 | 86 | 72 | 105 |
| | 4.25 | 107 | 108 | 101 | 97 | 96 | 95 | 86 | 71 | 102 |
| | 6.65 | 107 | 107 | 98 | 92 | 92 | 94 | 87 | 74 | 99 |

The sound power level ratings shown are in decibels, referred to $10^{-12}$ watts calculated per AMCA Standard 301. Values shown are for inlet LwiA sound power levels for installation type B: Free inlet, Ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA Standard 301.

# AXTC

M.K. Plastics CORPORATION
SERVING THE NEEDS OF MODERN INDUSTRY

# SOUND PERFORMANCE

## TUBULAR INLINE CENTRIFUGAL FIBERGLASS FAN

### AXTC 3650

| Speed | S.P. | Frequency [Hz] | | | | | | | | LwA |
|---|---|---|---|---|---|---|---|---|---|---|
| [RPM] | [inwg] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [dB] |
| 500 | 0.25 | 81 | 83 | 83 | 78 | 69 | 62 | 55 | 47 | 79 |
| | 0.60 | 79 | 82 | 81 | 75 | 67 | 60 | 52 | 46 | 77 |
| | 0.80 | 78 | 81 | 79 | 72 | 67 | 59 | 51 | 45 | 74 |
| 650 | 0.25 | 86 | 89 | 89 | 87 | 78 | 71 | 64 | 56 | 86 |
| | 1.00 | 85 | 87 | 89 | 83 | 76 | 68 | 61 | 54 | 84 |
| | 1.35 | 84 | 86 | 87 | 80 | 75 | 68 | 60 | 52 | 82 |
| 800 | 0.25 | 92 | 93 | 94 | 92 | 86 | 78 | 71 | 63 | 92 |
| | 1.50 | 92 | 90 | 93 | 90 | 83 | 75 | 68 | 60 | 90 |
| | 2.10 | 91 | 90 | 91 | 86 | 81 | 75 | 67 | 59 | 88 |
| 900 | 0.25 | 96 | 95 | 97 | 95 | 90 | 82 | 75 | 67 | 95 |
| | 2.00 | 96 | 92 | 95 | 93 | 86 | 79 | 71 | 64 | 93 |
| | 2.75 | 94 | 92 | 93 | 90 | 84 | 78 | 70 | 63 | 91 |
| 1000 | 0.25 | 99 | 96 | 99 | 98 | 93 | 85 | 78 | 71 | 98 |
| | 2.50 | 100 | 94 | 97 | 96 | 90 | 82 | 75 | 67 | 96 |
| | 3.40 | 98 | 93 | 96 | 93 | 86 | 82 | 74 | 66 | 94 |
| 1100 | 0.25 | 102 | 98 | 101 | 100 | 97 | 88 | 81 | 74 | 101 |
| | 3.00 | 103 | 96 | 98 | 99 | 93 | 85 | 78 | 70 | 99 |
| | 4.00 | 101 | 95 | 98 | 97 | 89 | 85 | 77 | 69 | 97 |
| 1250 | 0.25 | 105 | 100 | 104 | 103 | 101 | 92 | 85 | 78 | 105 |
| | 3.75 | 107 | 99 | 101 | 103 | 97 | 90 | 82 | 75 | 103 |
| | 5.25 | 105 | 97 | 101 | 100 | 93 | 89 | 81 | 73 | 100 |
| 1380 | 0.25 | 107 | 103 | 106 | 105 | 103 | 96 | 88 | 81 | 107 |
| | 4.75 | 108 | 102 | 103 | 105 | 100 | 93 | 85 | 78 | 105 |
| | 6.50 | 107 | 101 | 102 | 102 | 96 | 92 | 85 | 77 | 102 |

### AXTC 4025

| Speed | S.P. | Frequency [Hz] | | | | | | | | LwA |
|---|---|---|---|---|---|---|---|---|---|---|
| [RPM] | [inwg] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [dB] |
| 400 | 0.25 | 79 | 81 | 80 | 73 | 65 | 58 | 50 | 45 | 75 |
| | 0.50 | 78 | 80 | 77 | 70 | 63 | 55 | 48 | 45 | 72 |
| | 0.65 | 78 | 79 | 74 | 69 | 62 | 54 | 47 | 45 | 70 |
| 550 | 0.25 | 86 | 89 | 88 | 85 | 76 | 69 | 61 | 54 | 85 |
| | 0.90 | 84 | 87 | 87 | 81 | 73 | 66 | 58 | 51 | 82 |
| | 1.25 | 83 | 86 | 84 | 77 | 73 | 65 | 57 | 50 | 80 |
| 700 | 0.25 | 91 | 94 | 94 | 92 | 84 | 77 | 69 | 62 | 91 |
| | 1.35 | 90 | 91 | 93 | 88 | 81 | 73 | 66 | 59 | 89 |
| | 2.00 | 89 | 91 | 91 | 85 | 80 | 73 | 65 | 57 | 87 |
| 800 | 0.25 | 95 | 96 | 97 | 95 | 89 | 81 | 74 | 66 | 95 |
| | 2.00 | 95 | 93 | 95 | 92 | 85 | 78 | 70 | 63 | 92 |
| | 2.65 | 93 | 93 | 94 | 89 | 83 | 77 | 69 | 62 | 90 |
| 950 | 0.25 | 100 | 99 | 101 | 99 | 95 | 86 | 79 | 72 | 100 |
| | 2.75 | 101 | 96 | 99 | 98 | 91 | 83 | 76 | 69 | 97 |
| | 3.75 | 99 | 95 | 98 | 94 | 88 | 83 | 75 | 67 | 95 |
| 1070 | 0.25 | 104 | 100 | 104 | 102 | 99 | 90 | 83 | 76 | 103 |
| | 3.50 | 105 | 98 | 101 | 101 | 95 | 87 | 80 | 72 | 101 |
| | 4.75 | 103 | 97 | 100 | 98 | 91 | 87 | 79 | 71 | 98 |
| 1150 | 0.25 | 106 | 101 | 106 | 104 | 101 | 92 | 85 | 78 | 105 |
| | 4.00 | 107 | 99 | 102 | 104 | 97 | 90 | 82 | 75 | 103 |
| | 5.40 | 106 | 98 | 102 | 101 | 93 | 90 | 82 | 74 | 101 |
| 1250 | 0.25 | 108 | 103 | 107 | 106 | 104 | 95 | 88 | 81 | 108 |
| | 4.75 | 110 | 102 | 104 | 106 | 100 | 93 | 85 | 77 | 105 |
| | 6.50 | 108 | 100 | 104 | 103 | 95 | 92 | 84 | 76 | 103 |

### AXTC 4450

| Speed | S.P. | Frequency [Hz] | | | | | | | | LwA |
|---|---|---|---|---|---|---|---|---|---|---|
| [RPM] | [inwg] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [dB] |
| 425 | 0.25 | 84 | 86 | 84 | 78 | 70 | 63 | 55 | 49 | 80 |
| | 0.65 | 82 | 85 | 82 | 76 | 68 | 60 | 53 | 49 | 78 |
| | 0.90 | 82 | 83 | 79 | 73 | 67 | 60 | 52 | 49 | 75 |
| 600 | 0.25 | 90 | 94 | 93 | 91 | 82 | 75 | 67 | 60 | 90 |
| | 1.35 | 88 | 91 | 93 | 86 | 79 | 71 | 64 | 57 | 88 |
| | 1.75 | 87 | 91 | 91 | 83 | 79 | 71 | 63 | 55 | 86 |
| 700 | 0.25 | 94 | 97 | 97 | 95 | 87 | 80 | 72 | 65 | 95 |
| | 1.85 | 93 | 94 | 96 | 91 | 84 | 76 | 69 | 62 | 92 |
| | 2.50 | 92 | 94 | 93 | 87 | 83 | 76 | 68 | 60 | 89 |
| 800 | 0.25 | 98 | 99 | 100 | 98 | 92 | 84 | 77 | 70 | 98 |
| | 2.45 | 98 | 96 | 98 | 95 | 88 | 81 | 73 | 66 | 95 |
| | 3.25 | 96 | 96 | 97 | 92 | 86 | 81 | 73 | 65 | 93 |
| 900 | 0.25 | 102 | 101 | 103 | 101 | 96 | 88 | 81 | 74 | 101 |
| | 3.00 | 102 | 98 | 101 | 99 | 92 | 85 | 77 | 70 | 99 |
| | 4.10 | 100 | 98 | 99 | 96 | 90 | 84 | 76 | 69 | 96 |
| 1000 | 0.25 | 105 | 103 | 105 | 104 | 100 | 91 | 84 | 77 | 104 |
| | 3.75 | 106 | 100 | 103 | 102 | 96 | 88 | 80 | 73 | 102 |
| | 5.00 | 104 | 99 | 102 | 99 | 93 | 88 | 80 | 72 | 100 |
| 1070 | 0.25 | 107 | 103 | 107 | 105 | 102 | 93 | 86 | 79 | 106 |
| | 4.25 | 108 | 101 | 104 | 105 | 98 | 90 | 83 | 76 | 104 |
| | 5.75 | 106 | 100 | 103 | 101 | 94 | 90 | 82 | 74 | 102 |
| 1130 | 0.25 | 108 | 104 | 108 | 107 | 104 | 95 | 88 | 81 | 108 |
| | 4.75 | 110 | 102 | 105 | 106 | 100 | 92 | 84 | 77 | 106 |
| | 6.50 | 108 | 101 | 105 | 103 | 96 | 92 | 84 | 76 | 103 |

### AXTC 4900

| Speed | S.P. | Frequency [Hz] | | | | | | | | LwA |
|---|---|---|---|---|---|---|---|---|---|---|
| [RPM] | [inwg] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [dB] |
| 400 | 0.25 | 86 | 88 | 86 | 79 | 71 | 64 | 56 | 51 | 81 |
| | 0.75 | 84 | 86 | 83 | 76 | 68 | 61 | 54 | 51 | 78 |
| | 0.95 | 84 | 85 | 80 | 75 | 68 | 60 | 53 | 51 | 77 |
| 530 | 0.25 | 91 | 94 | 93 | 89 | 81 | 74 | 66 | 59 | 90 |
| | 1.25 | 89 | 92 | 92 | 86 | 78 | 70 | 63 | 56 | 87 |
| | 1.70 | 88 | 91 | 89 | 82 | 78 | 70 | 62 | 55 | 85 |
| 660 | 0.25 | 96 | 99 | 98 | 96 | 88 | 81 | 73 | 66 | 96 |
| | 2.00 | 94 | 96 | 98 | 92 | 85 | 77 | 70 | 63 | 93 |
| | 2.65 | 93 | 96 | 95 | 88 | 84 | 77 | 69 | 61 | 91 |
| 790 | 0.25 | 101 | 102 | 103 | 101 | 94 | 86 | 79 | 72 | 101 |
| | 2.75 | 100 | 99 | 101 | 98 | 91 | 83 | 76 | 69 | 98 |
| | 3.75 | 99 | 99 | 99 | 95 | 89 | 83 | 75 | 67 | 96 |
| 850 | 0.25 | 103 | 103 | 104 | 103 | 97 | 89 | 82 | 75 | 103 |
| | 3.25 | 103 | 100 | 103 | 100 | 93 | 86 | 78 | 71 | 100 |
| | 4.40 | 102 | 100 | 101 | 97 | 91 | 85 | 77 | 70 | 98 |
| 920 | 0.25 | 105 | 104 | 106 | 104 | 100 | 91 | 84 | 77 | 105 |
| | 3.85 | 106 | 102 | 104 | 103 | 96 | 88 | 81 | 74 | 102 |
| | 5.10 | 104 | 101 | 103 | 100 | 93 | 88 | 80 | 72 | 100 |
| 975 | 0.25 | 107 | 105 | 108 | 106 | 102 | 93 | 86 | 79 | 107 |
| | 4.25 | 108 | 103 | 105 | 105 | 98 | 90 | 83 | 76 | 104 |
| | 5.80 | 106 | 102 | 104 | 101 | 95 | 90 | 82 | 74 | 102 |
| 1025 | 0.25 | 108 | 106 | 109 | 107 | 103 | 95 | 88 | 81 | 108 |
| | 4.85 | 109 | 103 | 106 | 106 | 99 | 92 | 84 | 77 | 106 |
| | 6.50 | 108 | 103 | 105 | 103 | 96 | 92 | 84 | 76 | 103 |

### AXTC 5425

| Speed | S.P. | Frequency [Hz] | | | | | | | | LwA |
|---|---|---|---|---|---|---|---|---|---|---|
| [RPM] | [inwg] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [dB] |
| 370 | 0.25 | 88 | 89 | 87 | 80 | 72 | 65 | 57 | 52 | 82 |
| | 0.75 | 86 | 88 | 84 | 77 | 69 | 62 | 55 | 52 | 79 |
| | 1.00 | 86 | 86 | 81 | 76 | 69 | 61 | 53 | 52 | 77 |
| 450 | 0.25 | 92 | 93 | 92 | 87 | 78 | 71 | 64 | 57 | 88 |
| | 1.15 | 89 | 92 | 90 | 83 | 75 | 68 | 61 | 56 | 85 |
| | 1.50 | 89 | 91 | 87 | 81 | 75 | 67 | 60 | 56 | 83 |
| 530 | 0.25 | 94 | 97 | 96 | 93 | 84 | 77 | 69 | 62 | 93 |
| | 1.55 | 92 | 95 | 95 | 89 | 81 | 73 | 66 | 59 | 90 |
| | 2.10 | 91 | 94 | 92 | 85 | 81 | 73 | 65 | 59 | 88 |
| 610 | 0.25 | 96 | 101 | 100 | 97 | 88 | 81 | 74 | 67 | 97 |
| | 2.10 | 95 | 97 | 99 | 93 | 86 | 78 | 71 | 64 | 94 |
| | 2.75 | 94 | 97 | 97 | 89 | 85 | 78 | 70 | 62 | 92 |
| 690 | 0.25 | 100 | 103 | 102 | 100 | 93 | 85 | 78 | 71 | 100 |
| | 2.60 | 99 | 100 | 102 | 97 | 90 | 82 | 75 | 68 | 98 |
| | 3.50 | 98 | 100 | 99 | 93 | 89 | 82 | 74 | 66 | 95 |
| 770 | 0.25 | 103 | 105 | 105 | 103 | 96 | 89 | 82 | 75 | 103 |
| | 3.35 | 103 | 101 | 104 | 100 | 93 | 85 | 78 | 71 | 100 |
| | 4.50 | 101 | 101 | 102 | 96 | 91 | 85 | 77 | 69 | 98 |
| 850 | 0.25 | 106 | 106 | 107 | 106 | 100 | 92 | 85 | 78 | 106 |
| | 4.00 | 106 | 103 | 106 | 103 | 96 | 89 | 81 | 74 | 103 |
| | 5.25 | 105 | 103 | 104 | 100 | 94 | 89 | 81 | 73 | 101 |
| 930 | 0.25 | 109 | 108 | 110 | 108 | 103 | 95 | 88 | 81 | 108 |
| | 4.75 | 109 | 105 | 107 | 106 | 99 | 92 | 84 | 77 | 106 |
| | 6.50 | 108 | 104 | 106 | 103 | 96 | 92 | 84 | 76 | 103 |

### AXTC 6000

| Speed | S.P. | Frequency [Hz] | | | | | | | | LwA |
|---|---|---|---|---|---|---|---|---|---|---|
| [RPM] | [inwg] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [dB] |
| 350 | 0.25 | 90 | 91 | 89 | 81 | 73 | 66 | 58 | 54 | 83 |
| | 0.85 | 88 | 90 | 85 | 78 | 70 | 63 | 56 | 54 | 81 |
| | 1.10 | 88 | 88 | 82 | 77 | 70 | 62 | 54 | 54 | 79 |
| 450 | 0.25 | 95 | 97 | 95 | 90 | 82 | 74 | 67 | 60 | 91 |
| | 1.35 | 92 | 95 | 93 | 86 | 79 | 71 | 64 | 59 | 88 |
| | 1.85 | 92 | 94 | 90 | 84 | 78 | 71 | 63 | 59 | 86 |
| 550 | 0.25 | 98 | 102 | 100 | 97 | 88 | 81 | 74 | 67 | 97 |
| | 2.00 | 96 | 99 | 99 | 93 | 85 | 78 | 71 | 63 | 95 |
| | 2.75 | 95 | 98 | 96 | 89 | 85 | 77 | 69 | 62 | 92 |
| 625 | 0.25 | 100 | 104 | 103 | 101 | 92 | 85 | 78 | 71 | 101 |
| | 2.75 | 98 | 101 | 103 | 97 | 89 | 82 | 74 | 67 | 98 |
| | 3.60 | 97 | 101 | 100 | 93 | 89 | 81 | 73 | 66 | 96 |
| 675 | 0.25 | 102 | 106 | 105 | 103 | 95 | 88 | 81 | 73 | 103 |
| | 3.10 | 101 | 102 | 104 | 99 | 92 | 84 | 77 | 70 | 100 |
| | 4.20 | 100 | 102 | 102 | 95 | 91 | 84 | 76 | 68 | 98 |
| 725 | 0.25 | 105 | 107 | 107 | 105 | 97 | 90 | 83 | 76 | 105 |
| | 3.60 | 104 | 104 | 106 | 101 | 94 | 87 | 79 | 72 | 102 |
| | 4.85 | 102 | 103 | 103 | 98 | 93 | 86 | 78 | 70 | 100 |
| 775 | 0.25 | 106 | 108 | 108 | 106 | 100 | 92 | 85 | 78 | 106 |
| | 4.10 | 106 | 105 | 107 | 104 | 96 | 89 | 81 | 74 | 104 |
| | 5.50 | 105 | 105 | 105 | 100 | 95 | 89 | 81 | 73 | 101 |
| 840 | 0.25 | 109 | 109 | 110 | 108 | 103 | 95 | 88 | 81 | 109 |
| | 4.75 | 109 | 106 | 108 | 106 | 99 | 92 | 84 | 77 | 106 |
| | 6.50 | 107 | 106 | 107 | 102 | 97 | 91 | 83 | 75 | 104 |

The sound power level ratings shown are in decibels, referred to $10^{-12}$ watts calculated per AMCA Standard 301. Values shown are for outlet LwoA sound power levels for installation type B: Free inlet, Ducted outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301.

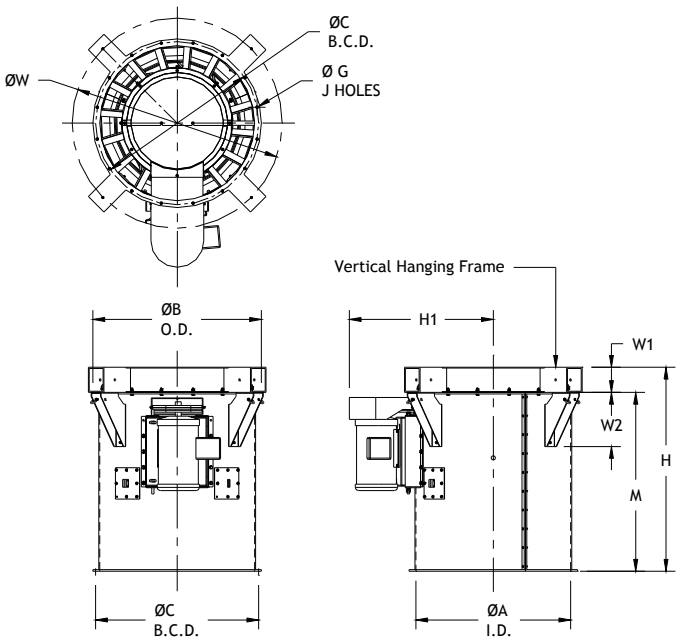
# AXTC

## DIMENSIONS

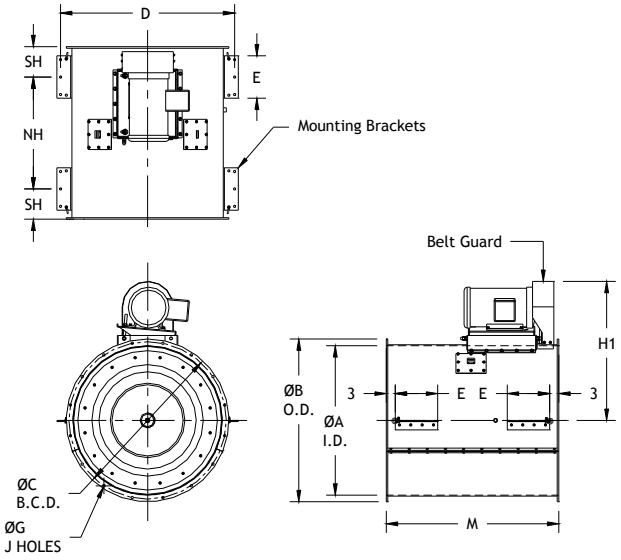
M.K. Plastics CORPORATION
SERVING THE NEEDS OF MODERN INDUSTRY

## TUBULAR INLINE CENTRIFUGAL FIBERGLASS FAN

### Vertical-Hanging




### Horizontal-Hanging



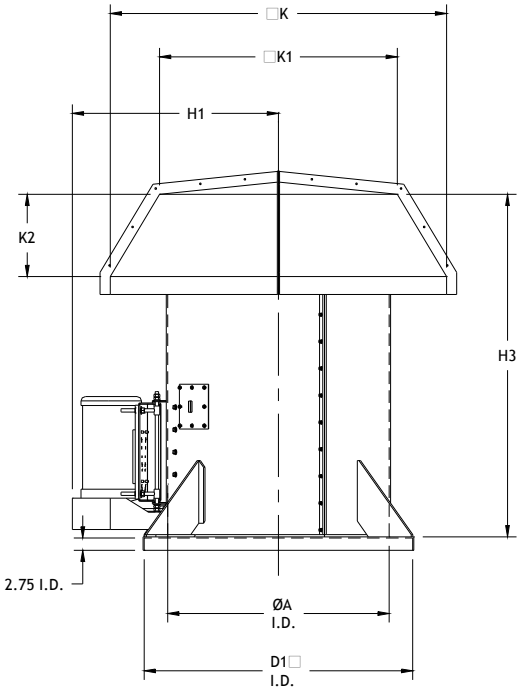

| Fan Size | A | B | C | D | E | G | H | H1 | J | M | NH | SH | W | W1 | W2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1825** | 24.69 | 28.00 | 26.75 | 32.69 | 8.00 | 0.56 | 40.63 | 28.53 | 12.00 | 35.63 | 21.63 | 7.00 | 34.00 | 5.00 | 11.00 |
| **2225** | 30.06 | 33.38 | 32.13 | 38.06 | 9.00 | 0.81 | 48.00 | 31.50 | 12.00 | 43.00 | 28.00 | 7.50 | 39.50 | 5.00 | 12.00 |
| **2450** | 33.13 | 36.38 | 35.13 | 41.13 | 11.00 | 0.81 | 52.13 | 33.50 | 12.00 | 47.13 | 30.13 | 8.50 | 44.00 | 5.00 | 14.00 |
| **2700** | 36.50 | 39.75 | 38.50 | 44.63 | 13.00 | 0.81 | 57.75 | 36.88 | 12.00 | 51.75 | 32.75 | 9.50 | 49.50 | 6.00 | 16.00 |
| **3000** | 40.56 | 44.88 | 43.13 | 48.69 | 14.00 | 0.81 | 63.31 | 40.53 | 16.00 | 57.31 | 37.31 | 10.00 | 55.00 | 6.00 | 17.00 |
| **3300** | 44.63 | 49.00 | 47.25 | 52.75 | 15.00 | 0.81 | 69.81 | 44.06 | 16.00 | 62.81 | 41.81 | 10.50 | 61.00 | 7.00 | 18.00 |
| **3650** | 49.38 | 53.75 | 52.00 | 57.50 | 14.00 | 0.81 | 64.00 | 45.94 | 16.00 | 57.00 | 37.00 | 10.00 | 67.00 | 7.00 | 17.00 |
| **4025** | 54.38 | 59.75 | 57.50 | 64.50 | 15.00 | 0.81 | 69.63 | 48.75 | 16.00 | 62.63 | 41.63 | 10.50 | 74.00 | 7.00 | 18.00 |
| **4450** | 60.19 | 65.50 | 63.25 | 72.44 | 16.00 | 0.81 | 76.94 | 52.75 | 16.00 | 68.94 | 46.94 | 11.00 | 82.00 | 8.00 | 19.00 |
| **4900** | 66.25 | 71.63 | 69.38 | 78.38 | 17.00 | 0.81 | 83.75 | 57.13 | 24.00 | 75.75 | 52.75 | 11.50 | 90.00 | 8.00 | 20.00 |
| **5425** | 73.38 | 79.75 | 77.00 | 85.63 | 18.00 | 0.81 | 92.69 | 61.00 | 24.00 | 83.69 | 59.69 | 12.00 | 100.00 | 9.00 | 21.00 |
| **6000** | 81.19 | 87.50 | 84.75 | 93.44 | 20.00 | 0.81 | 102.44 | 64.91 | 24.00 | 92.44 | 66.44 | 13.00 | 111.00 | 10.00 | 23.00 |

Dimensions are subject to change. Certified prints are available.
(Arrangement #9 Belt Drive shown, arrangement #4 Direct Drive similar, consult factory for certified dimensions)

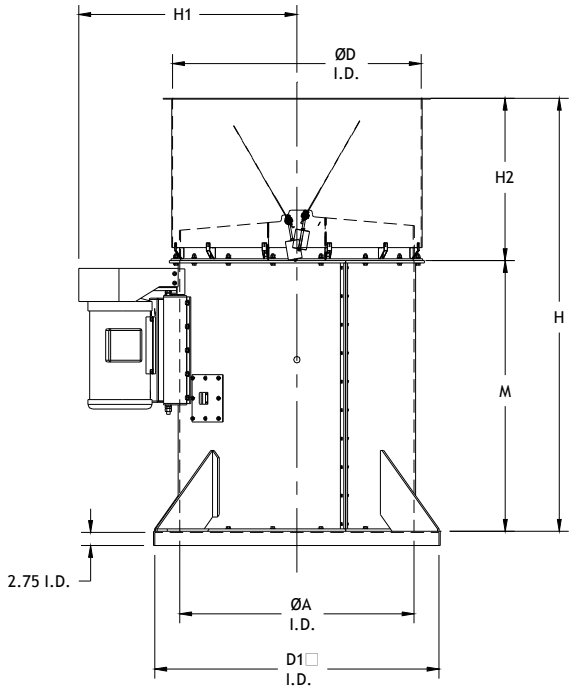
M.K. Plastics CORPORATION
SERVING THE NEEDS OF MODERN INDUSTRY

## TUBULAR INLINE CENTRIFUGAL FIBERGLASS FAN

### Curb Mounted Supply Fan
(with FRP Weather Hood)




### Curb Mounted Exhaust Fan
(with FRP Discharge Damper)



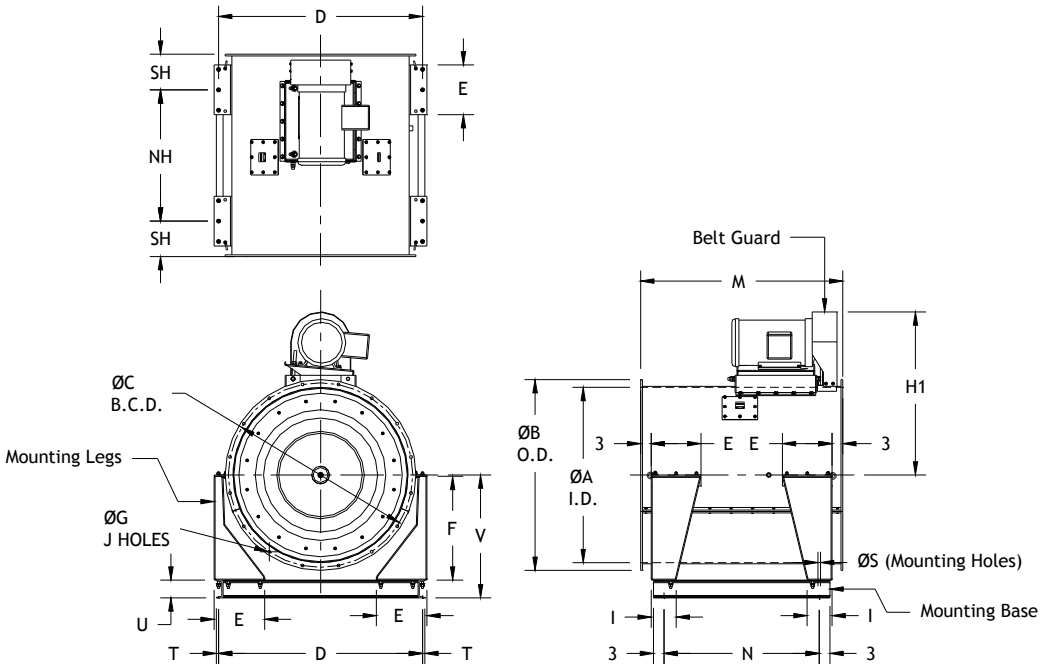

| Fan Size | A | D | D1 | H | H1 | H2 | H3 | K | K1 | K2 | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **1825** | 24.69 | 28.00 | 34.88 | 55.13 | 28.53 | 19.50 | 49.63 | 37.00 | 28.00 | 14.00 | 35.63 |
| **2225** | 30.06 | 33.31 | 40.38 | 68.00 | 31.50 | 25.00 | 58.00 | 45.00 | 35.00 | 15.00 | 43.00 |
| **2450** | 33.13 | 37.00 | 43.38 | 73.32 | 33.50 | 26.19 | 64.13 | 50.00 | 38.00 | 17.00 | 47.13 |
| **2700** | 36.50 | 40.75 | 46.75 | 79.94 | 36.88 | 28.19 | 70.75 | 55.00 | 42.00 | 19.00 | 51.75 |
| **3000** | 40.56 | 45.00 | 51.00 | 86.31 | 40.53 | 29.00 | 78.31 | 61.00 | 46.00 | 21.00 | 57.31 |
| **3300** | 44.63 | 49.00 | 55.13 | 95.00 | 44.06 | 32.19 | 86.81 | 67.00 | 50.00 | 24.00 | 62.81 |
| **3650** | 49.38 | 53.00 | 59.88 | 91.19 | 45.94 | 34.19 | 83.00 | 75.00 | 54.00 | 26.00 | 57.00 |
| **4025** | 54.38 | 58.25 | 64.88 | 99.01 | 48.75 | 36.38 | 89.63 | 82.00 | 60.00 | 27.00 | 62.63 |
| **4450** | 60.19 | 64.25 | 69.63 | 108.32 | 52.75 | 39.38 | 96.94 | 90.00 | 66.00 | 28.00 | 68.94 |
| **4900** | 66.25 | 69.50 | 78.00 | 120.75 | 57.13 | 45.00 | 104.75 | 100.00 | 72.00 | 29.00 | 75.75 |
| **5425** | 73.38 | 76.63 | 88.75 | 133.69 | 61.00 | 50.00 | 112.69 | 110.00 | 80.00 | 29.00 | 83.69 |
| **6000** | 81.19 | 84.38 | 98.88 | 147.44 | 64.91 | 55.00 | 122.44 | 120.00 | 88.00 | 30.00 | 92.44 |

Dimensions are subject to change. Certified prints are available.
(Arrangement #9 Belt Drive shown, arrangement #4 Direct Drive similar, consult factory for certified dimensions)

Minimum CFM Required to Open Dampers

| Fan Size | 1825 | 2225 | 2450 | 2700 | 3000 | 3300 | 3650 | 4025 | 4450 | 4900 | 5425 | 6000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Min. CFM** | 2,572 | 3,134 | 4,770 | 6,387 | 7,103 | 8,492 | 10,667 | 13,150 | 15,876 | 18,498 | 23,576 | 28,745 |

## Horizontal Base Mounted
**(with Mounting Legs & Base)**




| Fan Size | A | B | C | D | E | F | G | H1 | I | J | M | N | S | T | U | V |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1825** | 24.69 | 28.00 | 26.75 | 32.69 | 8.00 | 16.00 | 0.56 | 28.53 | 5.00 | 12.00 | 35.63 | 22.38 | 0.56 | 0.64 | 5.00 | 21.25 |
| **2225** | 30.06 | 33.38 | 32.13 | 38.06 | 9.00 | 18.50 | 0.81 | 31.50 | 6.00 | 12.00 | 43.00 | 29.75 | 0.56 | 0.64 | 5.00 | 23.75 |
| **2450** | 33.13 | 36.38 | 35.13 | 41.13 | 11.00 | 20.00 | 0.81 | 33.50 | 6.00 | 12.00 | 47.13 | 33.88 | 0.56 | 0.64 | 5.00 | 25.25 |
| **2700** | 36.50 | 39.75 | 38.50 | 44.63 | 13.00 | 23.00 | 0.81 | 36.88 | 7.00 | 12.00 | 51.75 | 38.50 | 0.56 | 0.64 | 5.00 | 28.38 |
| **3000** | 40.56 | 44.88 | 43.13 | 48.69 | 14.00 | 25.00 | 0.81 | 40.53 | 7.00 | 16.00 | 57.31 | 44.06 | 0.56 | 0.64 | 5.00 | 30.38 |
| **3300** | 44.63 | 49.00 | 47.25 | 52.75 | 15.00 | 27.00 | 0.81 | 44.06 | 7.50 | 16.00 | 62.81 | 49.56 | 0.75 | 0.64 | 5.00 | 32.38 |
| **3650** | 49.38 | 53.75 | 52.00 | 57.50 | 14.00 | 29.25 | 0.81 | 45.94 | 7.00 | 16.00 | 57.00 | 43.75 | 0.75 | 0.64 | 5.00 | 34.63 |
| **4025** | 54.38 | 59.75 | 57.50 | 64.50 | 15.00 | 33.00 | 0.81 | 48.75 | 7.50 | 16.00 | 62.63 | 49.38 | 0.75 | 0.64 | 5.00 | 38.50 |
| **4450** | 60.19 | 65.50 | 63.25 | 72.44 | 16.00 | 35.00 | 0.81 | 52.79 | 8.00 | 16.00 | 68.94 | 56.63 | 0.75 | 1.09 | 8.00 | 43.50 |
| **4900** | 66.25 | 71.63 | 69.38 | 78.38 | 17.00 | 39.00 | 0.81 | 57.13 | 8.50 | 24.00 | 75.75 | 63.44 | 0.75 | 1.09 | 8.00 | 47.50 |
| **5425** | 73.38 | 79.75 | 77.00 | 85.63 | 18.00 | 42.00 | 0.81 | 61.00 | 9.00 | 24.00 | 83.69 | 71.38 | 0.75 | 1.09 | 8.00 | 50.50 |
| **6000** | 81.19 | 87.50 | 84.75 | 93.44 | 20.00 | 46.00 | 0.81 | 64.91 | 10.00 | 24.00 | 92.44 | 80.19 | 0.75 | 1.09 | 8.00 | 54.50 |

Dimensions are subject to change. Certified prints are available.
(Arrangement #9 Belt Drive shown, arrangement #4 Direct Drive similar, consult factory for certified dimensions)

**BELT GUARD/MOTOR COVER**
A Belt Guard (standard) is designed to cover the belts and guards outside the fan housing. Belt guards are constructed of FRP and are factory installed. Also available is a motor cover for outdoor application. Cover is vented.

**GRAPHITE IMPREGNATION**
A graphite liner may be laminated to the inside of the fan casing to remove any build up of static electricity when handling potentially explosive gases. The gas-stream surfaces are grounded to the outside of the fan casing.

**INLET AND OUTLET GUARDS**
Screens available in PVC and 304 stainless steel to prevent debris from entering the fan and to protect personnel.

**COMPANION FLANGE AND SLEEVE**
Pre-drilled FRP mating flange with a 2" sleeve, for use with a flexible connection at both inlet and outlet of fan.

**FLEXIBLE CONNECTORS**
A high pressure ribbed '*Plastifer*' vinyl compound (FPVC) flexible connector is available 6" wide, to suit both inlet and outlet fan dimensions. It is corrosion resistant to acid and base effluents. Due to its UV inhibitors, it is suitable for outdoor applications. The fastening straps are in stainless steel. A heavy duty glass fabric flexible connector is also offered for severe corrosive exhaust, and higher temperature applications.

**DISCONNECT SWITCHES**
A wide selection of NEMA rated fusible, or non-fusible disconnect switches, mounted to the fan motor, if required.

**STAINLESS STEEL SHAFTS**
304 and 316 stainless steel shafts are available on all AXTC fan sizes, where possible corrosion on standard carbon steel shafts may be of concern.

**DAMPERS & WEATHER HOOD**
Single/multiple blade gravity or control type dampers for both inlet and outlet of fan. Manufactured in either PVC or FRP. For up-blast roof exhausting, an FRP butterfly damper to provide weather tight closure for vertical air discharge, is available. When required, the AXTC fan can be supplied with a fiberglass weather hood where used for supply air.

**VIBRATION ISOLATORS**
Horizontal or vertical mounting supports allow for hanging spring or rubber-in-shear vibration isolators. Standard isolators available for floor mounted units with mounting feet.

**MOUNTING BASE**
Bolted to the casing side mounting brackets, mounting base allow positioning of the AXTC fan on the floor, ceiling, wall or platform. Can be used with vibration isolators. Epoxy coated steel construction.

**ROOF CURBS**
A wide variety of prefabricated roof curbs are available in either fiberglass or galvanized steel for roof mounted applications with rigid interior insulation and pressure treated wood nailer strip. All curbs are flanged for roof attachment. Curbs for sloping/pitched roofs and sound absorbing curbs are also offered, as required.

## PART 1 GENERAL

### 1.01 WORK INCLUDED
A. Fiberglass Reinforced Plastic (FRP), inline centrifugal fan.

### 1.02 RELATED WORK
A. All sections, drawing plans, specifications and contract documents.

### 1.03 REFERENCES
A. AMCA -99 Standards Handbook
B. AMCA 210 - Laboratory Methods of Testing Fans for Rating Purposes.
C. AMCA 211 - Certified Ratings Procedure.
D. AMCA 300 - Test Code for Sound Rating Air Moving Devices.
E. AMCA 311 - Certified Sound Ratings Program for Air Moving Devices.
F. AFMBA - Method of Evaluating Load Ratings of Bearings (ASA - B3.11).
G. AMCA 204 - Balance Quality and Vibration Levels for Fans.
H. ASTM D4167-97 – Standard Specification for Fiber-Reinforced Plastic Fans and Blowers.

### 1.04 QUALITY ASSURANCE
A. Fans shall be tested in accordance with AMCA Standards 210 and 300, and performance ratings shall be submitted in conformance to AMCA Publications 211 and 311. Fans must be Licensed to bear the AMCA Certified Ratings Seal for Sound and Air Performance. Acceptable manufacturers whose equipment is not licensed to bear the AMCA Certified Ratings Seal for Sound and Air Performance must submit air and sound performance tests conducted in accordance with AMCA Standards 210 and 300, in a registered AMCA test facility, and certified for accuracy (stamped) by a registered professional engineer.
B. Classification for Spark Resistant Construction; Conform to AMCA 99.
C. Each fan shall be tested before shipping. Motors to be tested for amperage drawn.
D. A certificate to be supplied with each fan as to quality control before shipping and compliance to specifications.

### 1.05 SUBMITTALS
A. Provide dimensional drawings and product data on each fan assembly.
B. Provide fan curves for each fan at the specified operation point, with the flow, static pressure and horsepower clearly plotted.
C. Provide inlet sound power readings for the eight octave bands.

## PART 2 PRODUCTS

### 2.01 GENERAL
A. Performance is based at standard conditions (density 0.075 Lb/ ft3).
B. Fans selected shall be capable of accommodating static pressure and flow variations of +/-15% of scheduled values.
C. Each fan shall be belt drive arrangement #9 or direct drive arrangement #4 in AMCA arrangements as stated in the specs or on the drawings.
D. Fasteners to be 304 stainless steel.

### 2.02 FAN HOUSING
A. Fan housing shall be of FRP tubular 'split' design, in which shaft and drives are protected from the corrosive, contaminated air stream. Housing as well as air inlet shall be aerodynamically designed for high-efficiency, engineered to reduce incoming air turbulence. Housings shall be resin rich to be smooth exterior and interior.
B. Fan housing shall be manufactured in specifically formulated resins, for maximum corrosion resistance, UV inhibited and reinforced with fiberglass for structural strength. Fastening bolts holding the casing to the support plate are to be encapsulated in FRP. No uncoated metal fan parts in the corrosive air stream will be tolerated. Minimum casing wall thickness to be 1/4" on AXTC 1825-2450, 5/16" on AXTC 2700-4900 and 3/8" on AXTC 5425-6000. Fans to be supplied with an internal graphite liner and grounding strap, (when specified), to remove static electricity. Flame retardancy of 25 or less, is standard.
C. Fan inlet & outlet to be flanged, minimum thickness 3/8". Flange drilling to be MK Plastics standard size hole pattern.
D. Split housing design to give easy access for impeller inspection and service.
E. Shaft seal to be neoprene or Teflon (when specified).
F. AXTC fans shall be supplied with horizontal or vertical mounting brackets, as stated and shown on the plans and specifications.
G. Roof mounted exhaust fans shall be supplied with FRP curb caps and FRP discharge butterfly dampers, according to drawings, and shown on the plans and specifications.
H. Roof mounted supply fans shall be supplied with FRP curb caps and FRP weather hood, according to drawings, and shown on the plans and specifications
I. Finish color to be MK Plastics light gray.

### 2.03 FAN IMPELLER
A. Impellers shall be centrifugal backward inclined, airfoil, vinyl ester fiberglass reinforced, Class II, specially designed to facilitate the flow through the casing for improved efficiency.
B. The impellers shall be electronically balanced both statically and dynamically in accordance with ANSI/AMCA 204-96 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3. and conform to ASTM Standard D-4167.

### 2.04 FAN MOTORS AND DRIVE
A. Motors to be standard efficiency, standard NEMA frame, 1800 RPM (Belt Drive) or 900, 1200, or 1800 RPM (Direct Drive), TEFC with a 1.15 service factor.
B. A factory mounted NEMA 3R disconnect switch can be provided for each fan, if indicated on the schedule.
C. Belt drive units shall have belts and sheaves sized for 120% of the fan operating brake horsepower, and shall be readily and easily accessible for service.
D. Drives up to 5 HP shall be provided with variable pitch sheave.
E. Shaft to be ANSI C-1045 steel, and be protected with TECTYL 822B protective coating. The shaft shall not be in the corrosive air stream. 304 or 316 stainless steel shafts are available (when specified).
F. Belt driven AXTC fans shall have heavy duty, precision, bearings sized for L10 - 100,000 hours. Bearings shall be ball or spherical pillow block type, sealed to retain lubricant and exclude dust and air. Bearings shall have extended lube lines to allow for lubrication.
G. FRP belt drive guards are standard. Motor covers are optional if required, as per the specifications.
H. Bearing lubrication lines shall be extended to the exterior of the unit, on belt drive application.

### 2.05 ACCEPTABLE MANUFACTURERS
A. M. K. Plastics Corporation, model AXTC tubular inline centrifugal fiberglass fan.
B. Approved equal.

CONDITIONS OF SALE

1.Prices quoted are current, prices prevailing at time of shipping will apply. Material in stock is offered subject to prior sale. All Sales Contracts arising out of this quotation shall be subject to our regular conditions show on this side.

2.All deliveries quoted are based on availability of material and labor at the time of quotation and subject to change. Deliveries are contingent upon strikes, accidents, fires, and other causes and we shall not be liable for any loss or damage caused by delays beyond the control of the company.

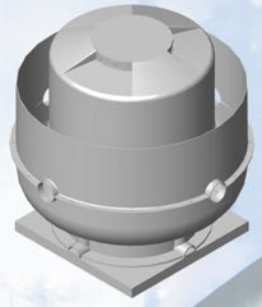
3.Goods invoiced up to and including the last day of the calendar month shall be paid for not later than the last business day of the following month. The company reserves the right to charge interest at commercial rates on any overdue account.Any order accepted by us cannot be countermanded, revised or cancelled without our written consent and upon such terms as will indemnify us against any loss. The word "loss" as used herein shall include, but not limited to, cost of materials, special machinery, tools, jigs and fixtures built or purchased for the contract and all parts in process, fabricated in whole or in part by previous costumer authorization.

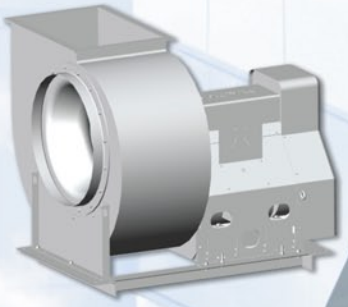
5.No contract arising from the acceptance of this quotation shall be valid and binding until approved by the company, such contract shall be governed by and interpreted in accordance with the laws of Province of Quebec.

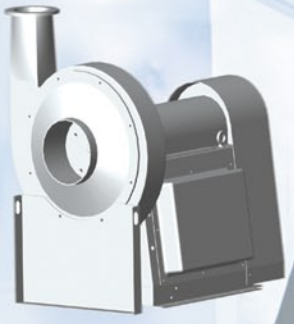
6.All memoranda, drawings and information furnished by the company shall remain its property and shall be considered business or trade secrets received in trust and confidence for the sole purpose of assisting the buyer.

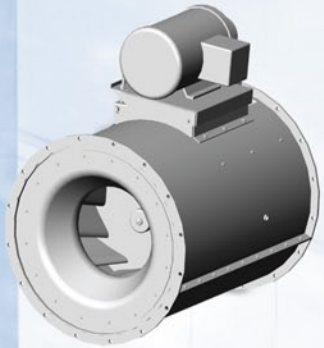
7.Orders to customer's drawings or descriptions are filled with the understanding that the customer assumes the obligation to protect M.K. Plastics Corp. from any action for infringements of patents.

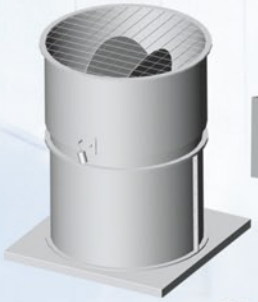
8.No modification of the above conditions of sale shall be effected by our receipt or acknowledgement of a purchase order containing additional or different conditions.











LIMITATION OF WARRANTY AND LIABILITY

We will not be responsible for the damage to equipment or materials through improper installation, storage, improper servicing, or through attempts to operate it in excess of its rated capacity or recommended use, intentional or otherwise. We will not be responsible for consequential damage.

Based on the fact that M.K. Plastics Corp. has no direct control over the actual handling and use of its products in the field, M.K. Plastics Corp. does not assume any liability for any loss of custumer or any personnel or any physical damages claimed by anyone due to a failure or cause attributed to the use of its products. In no event shall M.K. Plastics Corp. be responsible for consequential damages of any such defective material or workmanship, including but not limited to the buyer's loss of material or profit, increased expense of operation, downtime or reconstruction of the work and in no event shall M.K. Plastics Corp. obligation under this warranty exceed the original contract price of the defective item.

M.K. Plastics Corp. warrants its equipment, products and parts, to be free from defects in workmanship and material under normal use and service for one (1) year after delivery to the first user. Our obligation under this warranty being limited to repairing or replacing, at our option, without cost at our factory any part, or parts which shall , within such warranty period, be returned to us with transportation charges prepaid, and which our examination shall disclose to our satisfaction to have been defective.

M.K. Plastics Corp. will not be responsible for the cost of removal of a defective product or parts or the installation of a replaced product or parts, or for costs due for its removal, crating or shipping.

On account of variables including but not limited to, vibration, system noise characteristics, motor overloading or change in voltage conditions, the specifics of customer application of equipment or other system conditions, M.K. Plastics Corp. does not expressly warrant its equipment for any specific purpose.

The customer and its agents are responsible for the selection and application of M.K. Plastics Corp. products, including their fitness for the purpose and performance intended. Consequently, the customer on behalf of its agents assumes all liability related to the user/misuse, application and selection of the M.K. Plastics Corp.

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