

FKD SERIES

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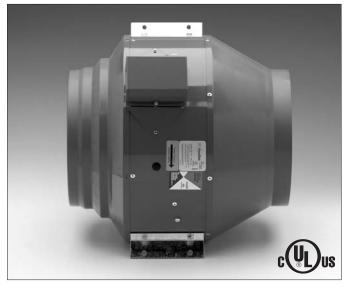
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100% Speed Controllable Three Year Warranty



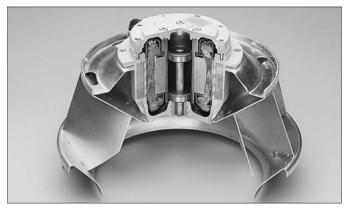
Fantech, Inc. certifies that the FKD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

FKD SERIES INLINE MIXED FLOW DUCT FANS



Description

A mixed flow centrifugal type exhaust/supply fan for moderate size ventilation applications specifically designed to bridge the transition from centrifugal to axial. FKD Series fans offer substantially quieter performance and are easier to install than axial arrangements. Fans can be mounted at any angle at any point along the duct work. Straight-through air flow design allows easy installation. Fans can easily be removed from duct work for service. Fan motors are capable of operating in air stream temperatures of 140°F. Motor bearings are a permanently sealed, self lubricating ball type. All fans are 100% speed controllable through a decrease in the voltage by using a solid state or transformer type control. All FKD Series fans are backed by Fantech's Three Year Warranty.



All FKD Series fans are powered by an external rotor motorized impeller. This design provides excellent heat dissipation even at low rpm. All of the FKD Series fans are 100% speed controllable through voltage reduction allowing for precision balancing of systems. FKD8XL through 18 are supplied standard with 115/1/60 motors. FKD18XL and FKD20 have a standard configuration of 230-460/3/60. For additional motor options please contact Fantech Technical Support at 1-800-747-1762.

Features

- 100% Speed Controllable
- Air Flows up to 6300 cfm
- 8" 20" circular duct connections
- External rotor motor, class F insulation.
 Sufficient service factor provided to ensure long and maintenance free operation.
- Automatic Reset Thermal Overload Protection
- Self-lubricating/sealed for life precision ball bearings
- \bullet Designed for operation in conditioned air streams of up to $140^\circ F$
- Galvanized steel housing with baked powder coat finish
- Terminal box with prewired electrical strip
- Mixed Flow impeller
- Three Year Warranty

Construction Specifications

Fan housings are constructed of formed galvanized steel casings and pressed inlet and outlet cones. Internal structural members and motor mounting bracket combine to form a rigid framework supporting the motor and impeller. Integral turning vanes for maximized air flow and pressure are included. Units are supplied with a baked powder coating as standard.

Fan impellers are a non-overloading mixed flow axial/ centrifugal type. The FKD14XL through FKD18 impeller is a high density polyamide resin. While the impellers of the FKD8XL through FKD14, FKD18XL, & FKD20 is made of aluminum. Inlet cones are carefully matched to the venturi for maximum efficiency. Each motorized impeller assembly is statically and dynamically balanced for smooth, vibration free operation.

All of the FKD Series fans are 100% speed controllable, direct drive motorized impeller assemblies with sealed, self lubricating bearings. Because of these unique features, the time and costs associated with initial system balancing and constant maintenance schedules are virtually eliminated. Fans are supplied with a factory installed prewired electrical terminal strip for ease of electrical connection. Three phase units are typically supplied prewired for 460 volts but may be supplied as 208-230 when specified or are easily rewired in the field. An optional factory installed disconnect switch can be included when specified.

All FKD Series fans are UL and cUL listed for electrical safety and AMCA Certified for sound and air performance.

Mounting

All FKD Series fans can be mounted either horizontally, vertically or at any angle. Fan mounting options include suspending the unit with neoprene or spring hanging isolators or horizontal surface mounting the unit with neoprene or spring base isolators. The fans may also be secured to a vertical surface using angle brackets and vibration isolators.

Speed Controllability

Due to the excellent heat dissipating characteristic of the external rotor motor, all FKD Series fans are 100% speed controllable through voltage reduction. Fantech offers a variety of fan motor speed controls including single phase solid state and step transformers, three phase step and variable voltage transformers, as well as single and three phase variable frequency drives. Proportional output controls for automatic fan operation and energy management can also be provided.

System Balancing

Rather than adjusting belt tension, system balancing is achieved by measuring the system flow or pressure and adjusting the fan performance by "dialing-in" or setting the fan speed with a variable voltage or step transformer control. This control flexibility allows the system to be adjusted to exacting specifications. Speed Control performance regulation also eliminates the need for correct belt alignment and tensioning as well as maintenance associated with belt drive systems. Speed controls may also be used as secondary steps for multiple speed systems. By using the appropriate contactor, fan speed can be manually or automatically switched from high to low and back again.

Performance Data

Air Performance Data

FKD Series air performance data has been presented at five voltages representing a percentage of full line voltage. Additional performance can be interpolated between the charted test points and achieved using a variable voltage control. For additional assistance determining fan operation at intermediate voltages/rpm, please contact Fantech's engineering department.

Sound Data

Sound data is presented in eight full octave bands as fan inlet sound power - L_{Wi} , dB; total fan inlet sound power L_{Wi} , dB(A); and in fan inlet sone levels. Silencers for additional attenuation of sound transmitted into the duct are available.

Typical Specifications for Model FKD Inline Duct Fans

Supply, exhaust or return air inline fans shall be of the centrifugal, direct driven type.

Construction

Fan housing shall be constructed of heavy gauge galvanized sheet metal with a protective baked enamel finish. Fan shall be supplied with externally mounted electrical terminal box with pre-wired terminal strip connections. Integral disconnect switch shall be provided when specified.

Motorized impeller shall be a totally enclosed external rotor type, Class F insulation. Single phase motors shall be permanent split capacitor type. Three phase motors shall be dual wound for 230V or 440/460V. All motors shall be a permanently sealed self lubricating ball bearing type. Motors shall be equipped with automatic reset thermal overload protection. Motors shall be acceptable for continuous duty. Sufficient service factor shall be provided to ensure long maintenance free operation over maximum load conditions.

Fan wheel shall be of the mixed flow centrifugal type with a well designed inlet venturi for maximum performance. Motorized impeller shall be both statically and dynamically balanced as one integral unit to provide for vibration free performance. The FKD14XL through FKD18 impeller shall be molded of high density polyamide resin. While the impellers of the FKD8XL through FKD14, FKD18XL, & FKD20 shall be constructed of aluminum.

Performance

Fan air flow and sound performance shall be based on tests conducted in accordance with AMCA Standard 211 and 311 and shall be licensed to bear the AMCA Certified Ratings label.

Code Approval

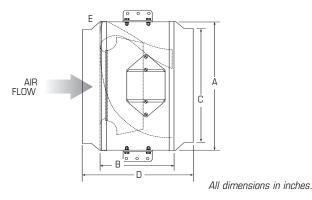
Fan shall be tested and approved by UL and CSA (or equals) for safety.

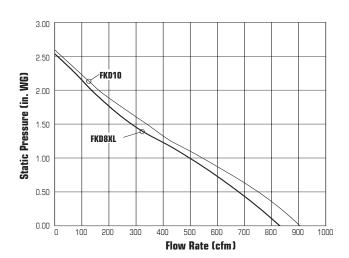
FKD Series shall be manufactured under the authority of Fantech, Inc., Sarasota, FL.



Fantech, Inc. certifies that the FKD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

FKD 8XL and 10





Dimensional Data

| Model | A | B | C | D | E |
|---------|-------|---|----|-------|-----|
| FKD-8XL | 121⁄2 | 7 | 8 | 14 | 3⁄4 |
| FKD-10 | 121⁄2 | 7 | 10 | 111/2 | 3⁄4 |

Air Performance Data¹

| | Nom. | Мах. | | | | Stati | c Pressure | e in Inches | 5 W.G. | | | | |
|---------|------|-------|------|-------|-------|-------|------------|-------------|--------|------|-------|-------|---------------|
| Model | RPM | Watts | Amps | Volts | 0.00" | .125" | .25" | .375" | .50" | .75" | 1.00" | 1.25" | 1.50 " |
| FKD-8XL | 2700 | 327 | 2.99 | 115 | 836 | 799 | 761 | 720 | 680 | 595 | 499 | 393 | 286 |
| FKD-10 | 2700 | 329 | 2.99 | 115 | 910 | 873 | 836 | 795 | 752 | 653 | 547 | 432 | 342 |



Fantech, Inc. certifies that the FKD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

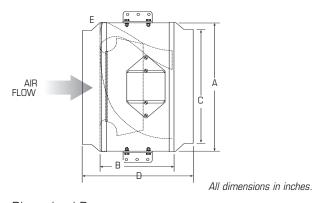
Sound Data

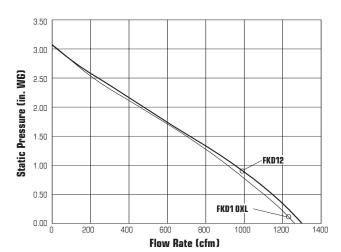
| | Nom. | | | | | Sound Pov | ver re 10-1 | 2 Watts | | | | L |
|---------|------|-------|----|-----|-----|-----------|--------------|---------|------|------|-------|--------|
| Model | RPM | SP | | | | Octa | ave Bands, I | z | | | dB(A) | tSones |
| | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | |
| | | 0.250 | 81 | 79 | 78 | 78 | 71 | 65 | 64 | 62 | 78 | 15.2 |
| | | 0.500 | 78 | 79 | 78 | 76 | 70 | 63 | 63 | 60 | 77 | 14.1 |
| FKD-8XL | 2700 | 0.750 | 79 | 81 | 79 | 78 | 70 | 63 | 63 | 59 | 78 | 14.8 |
| | | 1.000 | 82 | 84 | 82 | 78 | 70 | 64 | 63 | 59 | 79 | 15.9 |
| | | 0.250 | 69 | 83 | 80 | 77 | 74 | 68 | 68 | 68 | 80 | 16.9 |
| | | 0.500 | 69 | 84 | 78 | 76 | 73 | 66 | 67 | 65 | 78 | 15.3 |
| FKD10 | 2700 | 0.750 | 70 | 86 | 79 | 75 | 72 | 65 | 66 | 63 | 78 | 16.3 |
| | | 1.000 | 72 | 87 | 81 | 76 | 72 | 64 | 65 | 61 | 79 | 16.3 |
| | | 0.250 | 74 | 80 | 75 | 77 | 74 | 69 | 68 | 69 | 79 | 17.2 |
| | | 0.500 | 74 | 81 | 75 | 77 | 73 | 67 | 66 | 66 | 78 | 15.2 |

Speed (RPM) shown in nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation Type D: ducted inlet, ducted outlet. The sound power level ratings shown are in decibels, referred to 10-12 watts calculated per AMCA Standard 311. Values shown are for inlet Lwi and total inlet LwiA sound power levels for installation type D: ducted outlet. Ratings include the effect of duct end correction. + The sound ratings shown are lowless values in fan sones at 5ft. (1.5m) from the test inlet duct in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet fan sone levels. Ratings do not include the effect of duct end correction. *Units using speed control are not licensed to bare the AMCA Seal.



FKD 10XL and 12





Dimensional Data

| Model | A | B | C | D | E |
|----------|----|------|----|-----|-----|
| FKD-10XL | 14 | 81⁄2 | 10 | 15½ | 3⁄4 |
| FKD-12 | 14 | 81⁄2 | 12 | 12 | 3⁄4 |

Air Performance Data¹

| Model | Nom. | Max. | Max. | | | | | Stat | ic Press | ure in li | nches W | . G . | | | |
|----------|------|-------|------|-------|-------|-------|------|-------|----------|-----------|---------|--------------|-------|-------|-------|
| woder | RPM | Watts | Amps | Volts | 0.00" | .125" | .25" | .375" | .50" | .75" | 1.00" | 1.25" | 1.50" | 1.75" | 2.00" |
| FKD-10XL | 2850 | 529 | 4.84 | 115 | 1266 | 1226 | 1187 | 1147 | 1100 | 1006 | 911 | 810 | 696 | 579 | 460 |
| FKD-12 | 2900 | 531 | 4.86 | 115 | 1305 | 1266 | 1228 | 1189 | 1145 | 1054 | 948 | 833 | 712 | 592 | 479 |



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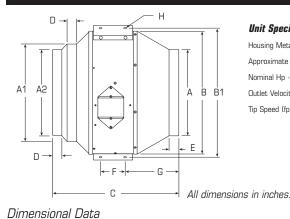
Sound Data

| | New | | | | | Sound Pov | ver re 10-1 | 2 Watts | | | | |
|----------|-------------|-------|----|-----|-----|-----------|--------------|---------|------|------|-------|---------------|
| Model | Nom. RPM | SP | | | | Octa | ave Bands, I | łz | | | dB(A) | Lwi tSones |
| | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | |
| | | 0.250 | 78 | 85 | 82 | 83 | 78 | 75 | 74 | 72 | 85 | 23 |
| | | 0.500 | 78 | 85 | 81 | 82 | 77 | 74 | 73 | 71 | 83 | 21 |
| FKD-10XL | 2850 | 0.750 | 79 | 85 | 81 | 81 | 76 | 72 | 72 | 70 | 83 | 21 |
| | | 1.000 | 82 | 86 | 82 | 80 | 76 | 71 | 71 | 69 | 82 | 20 |
| | | 0.250 | 84 | 86 | 82 | 86 | 80 | 76 | 76 | 73 | 87 | 25 |
| | | 0.500 | 82 | 85 | 81 | 85 | 79 | 75 | 75 | 72 | 86 | 23 |
| FKD12 | 2900 | 0.750 | 82 | 85 | 82 | 83 | 79 | 74 | 74 | 71 | 85 | 22 |
| | | 1.000 | 85 | 85 | 83 | 83 | 78 | 73 | 72 | 70 | 84 | 22 |
| | | 0.250 | 82 | 86 | 82 | 84 | 79 | 76 | 75 | 74 | 86 | 25 |
| | | 0.500 | 80 | 86 | 82 | 83 | 79 | 75 | 74 | 73 | 85 | 23 |

Speed (RPM) shown in nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation Type D: ducted inlet, ducted outlet. The sound power level ratings shown are in decibels, referred to 10-12 watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and total inlet LwiA sound power levels for installation type D: ducted outlet. Ratings include the effect of duct end correction. † The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) from the test inlet duct in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet fan sone levels. Ratings do not include the effect of duct end correction. *Units using speed control are not licensed to bare the AMCA Seal.

189 1145 1054 948 E

FKD 12xL



B

171/8

B1

201/4 187/8

C

D

7⁄8

E

1%

F

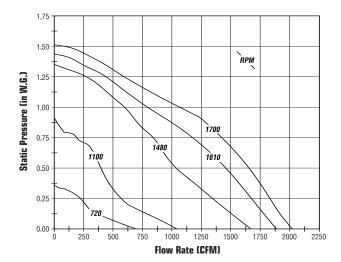
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G

7¾

Unit Specifications:

Housing Metal Thickness - 18 Gauge Approximate Weight - 45 lbs. Nominal Hp - 0.50 Hp Outlet Velocity (fpm) = CFM x 1.333 Tip Speed (fpm) = RPM x 3.717



Air Performance Data

A2

12

A1

| Volts | Nom. | Max. | Max. | | | | Static P | ressure in In | ches W.G. | | | |
|-------|------|-------|------|------|-------|------|----------|---------------|-----------|------|------|-------|
| VUILS | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .625" | .75" | 1.0" | 1.25" |
| 115 | 1700 | 500 | 4.80 | 2016 | 1920 | 1832 | 1746 | 1649 | 1548 | 1423 | 1066 | 606 |

H

3⁄8

Sound Data

A

12

| | Nom. | | | | So | | re 10 ^{.12} Wa | tts | | | L _{wi} | |
|-------|------|-------|----|-----|-----|----------|-------------------------|------|------|------|-----------------|--------|
| Volts | RPM | SP | | | | Octave E | lands, Hz | | | | dB(A) | TSones |
| | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |] | |
| | | 0.250 | 81 | 87 | 86 | 79 | 76 | 70 | 63 | 57 | 82 | 19.0 |
| | | 0.500 | 82 | 88 | 86 | 79 | 76 | 69 | 63 | 56 | 82 | 18.7 |
| 115 | 1700 | 0.750 | 84 | 89 | 86 | 79 | 76 | 69 | 63 | 56 | 82 | 19.2 |
| | | 1.000 | 86 | 91 | 87 | 80 | 76 | 69 | 64 | 57 | 83 | 21 |
| | | 1.250 | 86 | 90 | 87 | 80 | 76 | 70 | 64 | 58 | 83 | 21 |

SOUND AIR Fantech, Inc. certi-fies that the FKD Series shown herein is licensed to bear the AMCA Seal. The atings shown are based on tests and

AMCA CERTIFIED RATINGS

based on tests and procedures per-formed in accor-dance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Air Performance Data with Speed Control*

| Volts | Nom. | Max. | Max. | | | | Static P | ressure in In | ches W.G. | | | |
|-------|------|-------|------|------|-------|------|----------|---------------|-----------|------|------|-------|
| VUILS | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .625" | .75" | 1.0" | 1.25" |
| 45 | 720 | 163 | 4.37 | 678 | 358 | 233 | _ | _ | — | — | _ | _ |
| 60 | 1100 | 264 | 5.42 | 1041 | 776 | 573 | 467 | 398 | 340 | _ | — | _ |
| 75 | 1480 | 396 | 5.97 | 1666 | 1504 | 1343 | 1188 | 1044 | 931 | 839 | 600 | 270 |
| 85 | 1610 | 426 | 5.32 | 1885 | 1775 | 1668 | 1559 | 1444 | 1320 | 1174 | 802 | 44 |

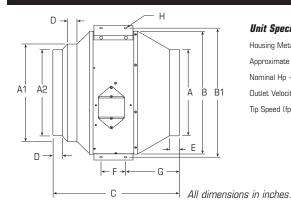
Sound Data with Speed Control*

| | | | | | So | und Power | re 10 ⁻¹² Wa | tts | | | | |
|-------|--------------|-------|----|-----|-----|-----------|-------------------------|------|------|------|-------|--------------------|
| Volts | Nom. RPM | SP | | | | Octave B | lands, Hz | | | | dB(A) | † _{Sones} |
| | NPIVI | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | UD(N) | |
| 45 | 720 | 0.125 | 74 | 74 | 58 | 51 | 45 | 37 | 33 | 32 | 60 | 5.0 |
| 40 | /20 | 0.250 | 75 | 81 | 65 | 57 | 52 | 44 | 39 | 36 | 66 | 7.8 |
| | | 0.125 | 77 | 68 | 73 | 62 | 55 | 47 | 41 | 39 | 66 | 7.2 |
| 60 | 1100 | 0.250 | 77 | 75 | 72 | 62 | 56 | 49 | 42 | 40 | 67 | 7.6 |
| | | 0.375 | 79 | 75 | 75 | 66 | 60 | 53 | 46 | 42 | 69 | 8.9 |
| | | 0.125 | 79 | 85 | 81 | 73 | 70 | 63 | 59 | 50 | 77 | 14.3 |
| 75 | 1480 | 0.250 | 79 | 84 | 79 | 72 | 69 | 62 | 57 | 48 | 76 | 13.3 |
| /0 | 1400 | 0.500 | 82 | 84 | 79 | 72 | 68 | 61 | 56 | 48 | 75 | 13.4 |
| | | 0.750 | 84 | 87 | 81 | 74 | 70 | 64 | 58 | 51 | 78 | 15.8 |
| | | 0.250 | 81 | 86 | 83 | 77 | 74 | 67 | 61 | 54 | 80 | 16.5 |
| 85 | 1610 | 0.500 | 82 | 87 | 83 | 77 | 73 | 66 | 60 | 53 | 79 | 16.5 |
| 00 | 1010 | 0.750 | 84 | 88 | 83 | 77 | 73 | 66 | 61 | 54 | 80 | 17.5 |
| | | 1.000 | 85 | 89 | 85 | 78 | 74 | 67 | 62 | 55 | 81 | 18.6 |



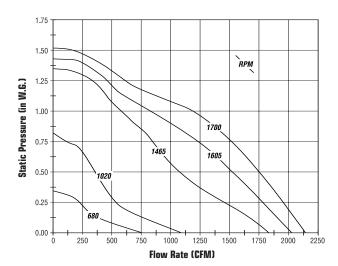
Speed (RPM) shown in nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation Type D: ducted inlet, ducted outlet. Note: Electrical specifications reflect voltage/phase/cycles for stock delivery motor/fans sets. Alternative motors are available. Please consult factory for electrical specifications and delivery on 208-230/1/60 motors. The sound power level ratings shown are in decibels, referred to 10^e watts calculated per AMCA Standard 301. Values shown are for inlet L_{Wi} and total inlet L_{Wi}A sound the sound rating solution type D: ducted inlet, ducted outlet. Ratings include the effect of duct end correction.
 The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet, ducted outlet. Ratings include the effect of duct end correction.

*Units using speed control are not licensed to bare the AMCA Seal.



Unit Specifications:

Housing Metal Thickness - 18 Gauge Approximate Weight - 45 lbs. Nominal Hp - 0.50 Hp Outlet Velocity (fpm) = CFM x 0.937 Tip Speed (fpm) = RPM x 3.717



Dimensional Data

| | A1 | | B | | | | E | | | H |
|----|----|----|-----|-------|-------|------------|----|---|-------|-----|
| 14 | | 14 | 19¾ | 221⁄8 | 201⁄4 | 1 ½ | 1% | 4 | 111/8 | 3⁄8 |

Air Performance Data

| Volts | Nom. | Max. | Max. | | | | Static P | ressure in In | ches W.G. | | | | amca |
|-------|------|-------|------|------|-------|------|----------|---------------|-----------|------|------|-------|----------------------|
| VUILS | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .625" | .75" | 1.0" | 1.25" | CERTIFIED RATINGS |
| 115 | 1700 | 495 | 4.76 | 2156 | 2061 | 1965 | 1868 | 1764 | 1649 | 1520 | 1193 | 623 | |

Sound Data

| | | | | | So | und Power | re 10 ⁻¹² Wat | tts | | | 1. | |
|-------|-------------|-------|----|-----|-----|-----------|--------------------------|------|------|------|-------|--------------------|
| Volts | Nom. RPM | SP | | | | Octave B | ands, Hz | | | | dB(A) | [†] Sones |
| | KPIVI | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | UD(A) | |
| | | 0.250 | 79 | 89 | 86 | 78 | 72 | 71 | 64 | 61 | 82 | 18.9 |
| | | 0.500 | 79 | 88 | 86 | 77 | 73 | 69 | 64 | 58 | 81 | 18.4 |
| 115 | 1700 | 0.750 | 79 | 89 | 84 | 78 | 73 | 69 | 63 | 56 | 81 | 18.3 |
| | | 1.000 | 81 | 92 | 84 | 78 | 73 | 69 | 63 | 56 | 82 | 19.8 |
| | | 1.250 | 83 | 91 | 83 | 79 | 73 | 69 | 63 | 57 | 81 | 19.6 |

Air Performance Data with Speed Control*

| Air Perto | rmance L | Jata with | Speed L | ontrol ~ | | | | | | | | | the requirements of |
|-----------|----------|-----------|---------|----------|-------|------|----------|---------------|-----------|------|------|-------|--|
| Volts | Nom. | Max. | Мах. | | | | Static P | ressure in In | ches W.G. | | | | the AMCA Certified Ratings Program. |
| VUILS | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .625" | .75" | 1.0" | 1.25" | - Houngo Hrogram. |
| 45 | 680 | 162 | 4.36 | 751 | 374 | 203 | — | — | — | — | — | — |] |
| 60 | 1020 | 259 | 5.29 | 1085 | 770 | 537 | 438 | 359 | — | — | _ | — | |
| 75 | 1465 | 396 | 5.99 | 1845 | 1671 | 1460 | 1245 | 1077 | 958 | 850 | 585 | 322 | (U) |
| 85 | 1605 | 423 | 5.28 | 2039 | 1912 | 1788 | 1666 | 1529 | 1387 | 1236 | 835 | 463 | CULUS |

Sound Data with Speed Control*

| | Nom. | | | | So | | re 10 ⁻¹² Wa ands, Hz | tts | | | L _{wi} | +- |
|-------|------|-------|----|-----|-----|-----|-------------------------------------|------|------|------|-----------------|--------------------|
| Volts | RPM | SP | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | dB(A) | [†] Sones |
| 45 | 680 | 0.125 | 72 | 81 | 61 | 52 | 43 | 36 | 33 | 37 | 66 | 7.0 |
| 40 | 000 | 0.250 | 74 | 85 | 65 | 56 | 47 | 41 | 36 | 38 | 70 | 9.4 |
| | | 0.125 | 75 | 72 | 75 | 63 | 55 | 48 | 41 | 41 | 68 | 8.0 |
| 60 | 1020 | 0.250 | 76 | 75 | 73 | 62 | 54 | 47 | 41 | 40 | 67 | 7.7 |
| | | 0.375 | 78 | 74 | 76 | 65 | 57 | 51 | 45 | 42 | 69 | 8.9 |
| | | 0.125 | 78 | 90 | 81 | 74 | 69 | 67 | 62 | 56 | 79 | 17.2 |
| 75 | 1465 | 0.250 | 77 | 90 | 80 | 73 | 68 | 65 | 60 | 51 | 78 | 16.5 |
| 70 | 1400 | 0.500 | 80 | 89 | 77 | 72 | 66 | 62 | 56 | 49 | 77 | 15.3 |
| | | 0.750 | 82 | 91 | 79 | 74 | 68 | 64 | 58 | 51 | 78 | 16.8 |
| | | 0.250 | 79 | 88 | 83 | 77 | 71 | 69 | 63 | 58 | 80 | 17.6 |
| 85 | 1605 | 0.500 | 79 | 88 | 82 | 76 | 71 | 67 | 62 | 55 | 79 | 16.8 |
| 00 | 1000 | 0.750 | 81 | 90 | 81 | 76 | 71 | 67 | 61 | 54 | 79 | 17.4 |
| | | 1.000 | 82 | 91 | 82 | 77 | 71 | 67 | 61 | 55 | 80 | 18.4 |

Speed (RPM) shown in nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation Type D: ducted inlet, ducted outlet. Note: Electrical specifications reflect voltage/phase/cycles for stock delivery motor/fans sets. Alternative motors are available. Please consult factory for electrical specifications and delivery on 208-230/1/60 motors. The sound power level ratings shown are in decibels, referred to 10¹² watts calculated per AMCA Standard 301. Values shown are for inlet L_{Wi} and total inlet L_{Wi}A sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effect of duct end correction.

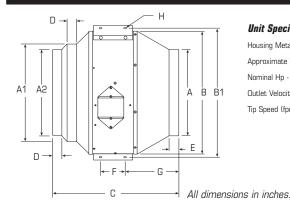
The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet fan sone levels.

*Units using speed control are not licensed to bare the AMCA Seal.

SOUUD AIR

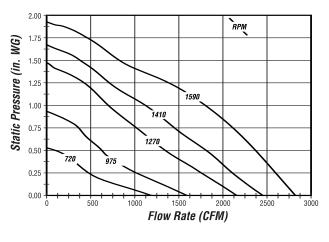
Fantech, Inc. certi-fies that the FKD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures per-formed in accor-dance with AMCA Publication 211 and AMCA Publication 311 and comply with

FKD 14xL



Unit Specifications:

Housing Metal Thickness - 18 Gauge Approximate Weight - 55 lbs. Nominal Hp - 0.75 Hp Outlet Velocity (fpm) = CFM x 0.937 Tip Speed (fpm) = RPM x 4.346



Dimensional Data

| | | | | | | | | | G | |
|--------|--------|-------|------|-------|-------|----|----|---|-------|-----|
| 14 | — | 14 | 19¾ | 221/8 | 201⁄4 | 1½ | 1% | 4 | 111/8 | 3⁄8 |
| Air Pi | erforn | nance | Data | | | | | | | |

| Value | Nom. | Max. | Max. | | | | Static P | ressure in l | nches W.G. | | | |
|-------|------|-------|------|--|------|------|----------|--------------|------------|------|------|-----|
| Volts | RPM | Watts | Amps | 0.0" .125" .25" .375" .50" .75" 1.0" 1.25" 1.50" | | | | | | | | |
| 115 | 1550 | 738 | 7.12 | 2619 | 2517 | 2416 | 2303 | 2180 | 1936 | 1662 | 1294 | 843 |

| Sound | Data |
|-------|------|
|-------|------|

| | | | | | So | und Power | re 10 ⁻¹² Wat | tts | | | | |
|-------|------|-------|----|-----|-----|-----------|--------------------------|------|------|------|--------------------------|--------------------|
| Volts | Nom. | SP | | | | Octave B | lands, Hz | | | | ^L wi dB(A) | † _{Sones} |
| | RPM | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | UDLAJ | |
| | | 0.000 | 84 | 89 | 84 | 77 | 71 | 69 | 64 | 56 | 80 | 19.0 |
| | | 0.250 | 83 | 90 | 84 | 76 | 71 | 68 | 63 | 56 | 80 | 18.9 |
| 115 | 1550 | 0.500 | 83 | 90 | 84 | 76 | 71 | 68 | 61 | 56 | 80 | 19.0 |
| | | 1.000 | 83 | 92 | 83 | 77 | 72 | 68 | 62 | 57 | 81 | 20 |
| | | 1.250 | 84 | 93 | 83 | 78 | 72 | 68 | 63 | 58 | 81 | 21 |

Air Performance Data with Speed Control*

| | Nom. | Max. | Max. | | | | Static P | ressure in l | nches W.G. | | | |
|-------|------|-------|------|------|-------|------|----------|--------------|------------|------|-------|-------|
| Volts | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .75" | 1.0" | 1.25" | 1.50" |
| 45 | 650 | 113 | 4.76 | 984 | 666 | 427 | 224 | _ | | | | |
| 60 | 950 | 323 | 5.98 | 1415 | 1192 | 980 | 793 | 642 | 361 | _ | _ | — |
| 75 | 1150 | 459 | 6.79 | 1897 | 1717 | 1541 | 1361 | 1200 | 914 | 658 | 316 | _ |
| 85 | 1300 | 547 | 7.14 | 2172 | 2030 | 1880 | 1723 | 1575 | 1295 | 992 | 672 | 253 |
| 115 | 1550 | 738 | 7.12 | 2619 | 2517 | 2416 | 2303 | 2180 | 1936 | 1662 | 1294 | 843 |



AMCA CERTIFIED RATINGS

໌ເວທິບວ

Fantech, Inc. certifies that the FKD Series shown herein is licensed to bear the AMCA Seal. The rat-ings shown are based on tests and proce-dures performed in

dures performed in accordance with AMCA Publication 211

and AMCA Publication 211 311 and comply with the requirements of the AMCA Certified

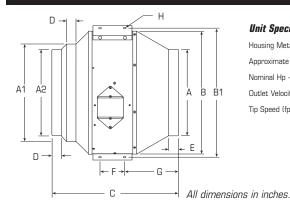
Ratings Program.

Sound Data with Speed Control*

| | Nom. | | | | So | und Power | | tts | | | Lui | |
|-------|------|-------|----|-----|-----|-----------|-----------|------|------|------|-------|--------------------|
| Volts | RPM | SP | | | | Octave B | lands, Hz | | | | dB(A) | [†] Sones |
| | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | |
| 45 | 650 | 0.000 | 68 | 63 | 57 | 55 | 50 | 36 | 32 | 38 | 56 | 3.8 |
| 40 | 000 | 0.250 | 70 | 75 | 62 | 57 | 50 | 44 | 39 | 39 | 62 | 6.0 |
| | | 0.000 | 77 | 78 | 67 | 60 | 58 | 53 | 42 | 39 | 66 | 8.1 |
| 60 | 950 | 0.375 | 76 | 79 | 70 | 62 | 57 | 51 | 45 | 41 | 67 | 8.6 |
| | | 0.750 | 78 | 83 | 75 | 70 | 63 | 59 | 54 | 49 | 73 | 12.3 |
| | | 0.000 | 78 | 84 | 73 | 67 | 63 | 61 | 52 | 45 | 72 | 12.1 |
| 75 | 1150 | 0.250 | 77 | 82 | 73 | 67 | 61 | 58 | 50 | 46 | 71 | 11.2 |
| 70 | 1100 | 0.500 | 79 | 83 | 73 | 68 | 63 | 58 | 52 | 48 | 72 | 11.8 |
| | | 0.750 | 81 | 86 | 75 | 72 | 65 | 61 | 56 | 51 | 75 | 14.3 |
| | | 0.000 | 80 | 87 | 78 | 71 | 66 | 64 | 57 | 49 | 76 | 15.1 |
| | | 0.250 | 80 | 87 | 77 | 71 | 66 | 63 | 56 | 50 | 75 | 14.5 |
| 85 | 1300 | 0.500 | 81 | 86 | 76 | 71 | 65 | 61 | 55 | 50 | 75 | 14.1 |
| | | 1.000 | 81 | 89 | 81 | 74 | 68 | 64 | 59 | 54 | 78 | 16.8 |
| | | 1.250 | 82 | 91 | 82 | 77 | 70 | 67 | 61 | 57 | 80 | 19.4 |

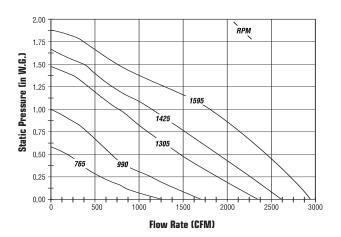
Speed (RPM) shown in nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances in the (accessories). Performance cer-tified is for installation Type D: ducted inlet, ducted outlet. Note: Electrical specifications reflect voltage/phase/cycles for stock delivery motor/fans sets. Alternative motors are available. Please consult factory for electrical specifications and delivery on 208-230/1/60 motors. The sound power level ratings shown are in decibels, referred to 10¹² watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and total inlet LwiA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effect of duct end correction.

* The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet fan sone levels. *Units using speed control are not licensed to bare the AMCA Seal.



Unit Specifications:

Housing Metal Thickness - 18 Gauge Approximate Weight - 55 lbs. Nominal Hp - 0.75 Hp Outlet Velocity (fpm) = CFM x 0.738 Tip Speed (fpm) = RPM x 4.436



Dimensional Data

| A | A1 | A2 | B | B 1 | C | D | E | F | G | H |
|----|----|----|-----|------------|-----|----|----|---|------|-----|
| 16 | 16 | | 19¾ | 221/8 | 18¾ | 1½ | 1% | 4 | 91⁄2 | 3⁄8 |

| Volts | Nom. | Max. | Max. | | | | Sta | atic Pressur | e in Inches | W.G. | | | |
|-------|------|-------|------|--|------|------|------|--------------|-------------|------|------|------|-----|
| VOICS | RPM | Watts | Amps | 0.0" .125" .25" .375" .50" .625" .75" 1.0" 1.25" 1 | | | | | | | | | |
| 115 | 1595 | 742 | 6.39 | 2952 | 2831 | 2707 | 2580 | 2445 | 2300 | 2144 | 1804 | 1306 | 774 |

Sound Data

| | | | | | So | und Power | re 10 ⁻¹² Wat | tts | | | | |
|-------|------|-------|----|-----|-----|-----------|--------------------------|------|------|------|--------------------------|--------------------|
| Volts | Nom. | SP | | | | Octave B | ands, Hz | | | | ^L wi dB(A) | † _{Sones} |
| | RPM | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | UD(A) | |
| | | 0.500 | 82 | 89 | 83 | 77 | 71 | 70 | 65 | 57 | 80 | 18.5 |
| | | 0.625 | 82 | 90 | 82 | 77 | 71 | 70 | 64 | 57 | 80 | 18.5 |
| 115 | 1595 | 0.750 | 82 | 90 | 82 | 77 | 71 | 70 | 64 | 57 | 80 | 18.6 |
| | | 1.000 | 82 | 93 | 82 | 78 | 72 | 70 | 63 | 57 | 81 | 20 |
| | | 1.250 | 82 | 92 | 83 | 79 | 73 | 71 | 64 | 58 | 82 | 20 |

CERTIFIED RATINGS SOUUD AIR

Fantech, Inc. certifies that the FKD Series shown herein is licensed to bear the AMCA Seal. The rat-ings shown are based on tests and proceon tests and proce-dures performed in accordance with AMCA Publication 211 and AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Particips Program Ratings Program.

Air Performance Data with Speed Control*

| Volts | Nom. | Max. | Max. | | | | Sta | atic Pressur | e in Inches | W.G. | | | |
|-------|------|-------|------|------|-------|------|-------|--------------|-------------|------|------|-------|-------|
| VOICS | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .625" | .75" | 1.0" | 1.25" | 1.50" |
| 45 | 765 | 225 | 5.13 | 1258 | 847 | 557 | 364 | — | — | — | — | — | — |
| 60 | 990 | 341 | 6.13 | 1702 | 1397 | 1137 | 839 | 687 | 545 | — | — | — | — |
| 75 | 1305 | 501 | 6.84 | 2348 | 2117 | 1899 | 1682 | 1470 | 1287 | 1107 | 766 | — | _ |
| 85 | 1425 | 582 | 6.85 | 2610 | 2436 | 2265 | 2088 | 1898 | 1707 | 1529 | 1147 | 726 | _ |

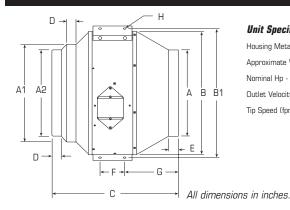
Sound Data with Speed Control*

| | | ſ | | | So | und Power | re 10 ⁻¹² Wat | tts | | | | |
|-------|-------------|-------|----|-----|-----|-----------|--------------------------|------|------|------|-------|--------|
| Volts | Nom. RPM | SP | | | | Octave B | ands, Hz | | | | dB(A) | †Sones |
| | KPIVI | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | UD(A) | |
| 45 | 765 | 0.250 | 72 | 73 | 64 | 57 | 52 | 47 | 43 | 41 | 62 | 6.0 |
| 40 | /00 | 0.375 | 75 | 76 | 69 | 62 | 57 | 52 | 47 | 44 | 66 | 7.7 |
| | | 0.250 | 76 | 72 | 70 | 63 | 57 | 54 | 47 | 44 | 66 | 7.3 |
| 60 | 990 | 0.375 | 76 | 77 | 72 | 65 | 59 | 57 | 49 | 46 | 68 | 8.5 |
| | | 0.500 | 78 | 79 | 74 | 67 | 61 | 62 | 52 | 47 | 70 | 9.7 |
| | | 0.375 | 78 | 86 | 76 | 70 | 64 | 61 | 55 | 49 | 74 | 13.2 |
| 75 | 1305 | 0.500 | 78 | 85 | 76 | 70 | 64 | 62 | 55 | 49 | 74 | 13.0 |
| /0 | 1300 | 0.625 | 79 | 86 | 77 | 71 | 65 | 63 | 56 | 50 | 75 | 13.5 |
| | | 0.750 | 79 | 88 | 78 | 72 | 66 | 66 | 57 | 51 | 76 | 14.8 |
| | | 0.375 | 81 | 86 | 80 | 73 | 68 | 65 | 60 | 53 | 77 | 15.2 |
| | | 0.500 | 80 | 86 | 78 | 73 | 67 | 65 | 59 | 52 | 76 | 14.7 |
| 85 | 1425 | 0.625 | 80 | 87 | 80 | 73 | 68 | 65 | 59 | 52 | 77 | 15.2 |
| | | 0.750 | 81 | 88 | 80 | 74 | 68 | 65 | 59 | 53 | 77 | 15.7 |
| | | 1.000 | 81 | 89 | 80 | 76 | 70 | 67 | 61 | 55 | 79 | 16.9 |

Speed (RPM) shown in nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation Type D: ducted inlet, ducted outlet. Note: Electrical specifications reflect voltage/phase/cycles for stock delivery motor/fans sets. Alternative motors are available. Please consult factory for electrical specifications and delivery on 208-230/1/60 motors. The sound power level ratings shown are in decibels, referred to 10¹² watts calculated per AMCA Standard 301. Values shown are for inlet L_{Wi} and total inlet L_{Wi}A sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effect of duct end correction. * The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet fan sone levels. *Units using speed control are not licensed to bare the AMCA Seal.

9

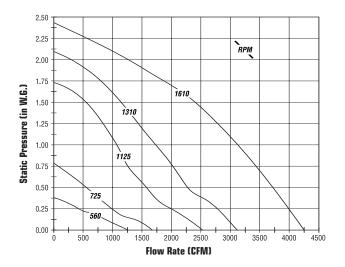
FKD 16xl



Unit Specifications:

F

Housing Metal Thickness - 18 Gauge Approximate Weight - 85 lbs. Nominal Hp - 1.50 Hp Outlet Velocity (fpm) = CFM x 0.738Tip Speed (fpm) = RPM x 4.869



Dimensional Data A A1 Δ2

| 16 | — | 16 | 221/8 | 24% | 231⁄4 | 11⁄4 | 1% | 71⁄8 | 81⁄2 | 1⁄2 |
|--------|--------|-------|-------|-----|-------|------|----|------|------|-----|
| Air Pi | erforn | nance | Data | | | | | | | |

| Works RPM Watts Amps 0.0" .125" .25" .375" .50" .625" .75" 1.0" 1.25" 1.50" 1.75" 2.0" 2.25" 115 1610 1421 12.40 4274 4144 4014 3880 3743 3604 3452 3137 2794 2379 1855 1242 541 | v | olts | Nom. | Max. | Max. | | | | | | Static Pre | ssure in l | nches W.G | i. | | | | | |
|---|---|------|------|-------|-------|--------|-------|------|-------|------|------------|------------|-----------|-------|-------|-------|------|-------|----|
| 115 1610 1421 12.40 4274 4144 4014 3880 3743 3604 3452 3137 2794 2379 1855 1242 541 | | 0115 | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .625" | .75" | 1.0" | 1.25" | 1.50" | 1.75" | 2.0" | 2.25" | 16 |
| | 1 | 15 | 1610 | 1421 | 12.40 | 1 42/4 | 4144 | 4014 | 3880 | 3743 | 3604 | 3452 | | 2794 | 2379 | 1855 | 1242 | 541 | |

| Sound | Data |
|-------|------|
|-------|------|

| | | | | | So | und Power | re 10 ⁻¹² Wat | tts | | | | |
|-------|------|-------|----|-----|-----|-----------|--------------------------|------|------|------|--------------------------|--------------------|
| Volts | Nom. | SP | | | | Octave B | ands, Hz | | | | ^L wi dB(A) | † _{Sones} |
| | RPM | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | UD(A) | |
| | | 0.375 | 89 | 87 | 83 | 83 | 79 | 74 | 71 | 64 | 84 | 20 |
| | | 0.500 | 89 | 93 | 89 | 83 | 79 | 74 | 71 | 64 | 86 | 25 |
| 115 | 1610 | 0.750 | 89 | 93 | 88 | 83 | 79 | 74 | 69 | 62 | 86 | 24 |
| 110 | 1010 | 1.000 | 89 | 93 | 88 | 83 | 79 | 74 | 69 | 62 | 85 | 24 |
| | | 1.250 | 91 | 94 | 87 | 83 | 78 | 74 | 68 | 62 | 86 | 25 |
| | | 1.500 | 93 | 96 | 88 | 84 | 79 | 75 | 69 | 63 | 86 | 27 |

AMCA ERTIFIED ATINGS SOUUD AIR ITROL

Fantech, Inc. certifies that the FKD Series shown herein is shown herein is licensed to bear the AMCA Seal. The rat-ings shown are based on tests and proce-dures performed in accordance with AMCA Publication 211 and AMCA Publication 211 and romote with 311 and comply with the requirements of the AMCA Certified Ratings Program.

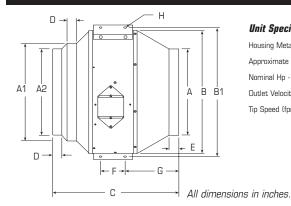
Air Performance Data with Speed Control*

| Volts | Nom. | Max. | Max. | | | | | | Static Pre | ssure in li | nches W.G | | | | | |
|-------|------|-------|-------|------|-------|------|-------|------|------------|-------------|-----------|-------|-------|-------|------|-------|
| VUILS | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .625" | .75" | 1.0" | 1.25" | 1.50" | 1.75" | 2.0" | 2.25" |
| 45 | 560 | 323 | 8.23 | 1259 | 848 | 381 | — | _ | — | _ | — | — | — | | | — |
| 60 | 725 | 529 | 10.49 | 1695 | 1344 | 983 | 749 | 529 | 315 | _ | — | — | — | | | _ |
| 75 | 1125 | 880 | 12.96 | 2535 | 2270 | 1998 | 1753 | 1575 | 1424 | 1283 | 1063 | 833 | 516 | | | _ |
| 85 | 1310 | 1102 | 13.92 | 3134 | 2950 | 2766 | 2540 | 2285 | 2151 | 2018 | 1726 | 1428 | 1135 | 755 | 213 | |

Sound Data with Speed Control*

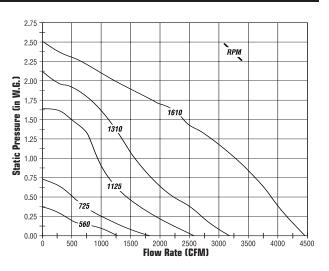
| | Nom. | | | | So | und Power | | tts | | | L _{wi} | +_ |
|-------|------|-------|----|-----|-----|-----------------|------------------|------|------|------|-----------------|--------------------|
| Volts | RPM | SP | 63 | 125 | 250 | Octave E 500 | anus, nz 1000 | 2000 | 4000 | 8000 | dB(A) | [†] Sones |
| 45 | FCO | 0.125 | 75 | 70 | 60 | 53 | 47 | 38 | 34 | 34 | 58 | 4.5 |
| 45 | 560 | 0.250 | 79 | 73 | 64 | 57 | 51 | 44 | 38 | 36 | 62 | 5.8 |
| | | 0.250 | 83 | 77 | 68 | 60 | 54 | 47 | 40 | 39 | 66 | 7.6 |
| 60 | 725 | 0.375 | 85 | 79 | 72 | 64 | 58 | 51 | 44 | 41 | 69 | 9.2 |
| | | 0.500 | 85 | 80 | 74 | 67 | 60 | 55 | 48 | 44 | 71 | 10.2 |
| | | 0.375 | 85 | 85 | 74 | 69 | 63 | 58 | 51 | 45 | 73 | 12.5 |
| 75 | 1125 | 0.500 | 84 | 86 | 75 | 69 | 63 | 59 | 52 | 47 | 74 | 13.1 |
| /0 | 1120 | 0.750 | 86 | 86 | 78 | 72 | 66 | 62 | 56 | 50 | 76 | 14.7 |
| | | 1.000 | 88 | 89 | 82 | 76 | 70 | 65 | 59 | 54 | 79 | 17.4 |
| | | 0.375 | 89 | 88 | 80 | 75 | 69 | 65 | 59 | 52 | 78 | 16.7 |
| | | 0.500 | 89 | 88 | 81 | 75 | 69 | 65 | 57 | 51 | 78 | 16.8 |
| 85 | 1310 | 0.750 | 88 | 89 | 81 | 76 | 70 | 66 | 59 | 53 | 79 | 17.3 |
| | | 1.000 | 89 | 90 | 84 | 77 | 72 | 67 | 61 | 55 | 81 | 19.3 |
| | | 1.250 | 90 | 91 | 86 | 79 | 74 | 69 | 63 | 58 | 82 | 21 |

Speed (RPM) shown in nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). Performance certified Speceral many and many and many based on detail operation operation of the second operation operation of the second operation of the second operation operation operation of the second operation operation operation of the second operation operat * The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet fan sone levels. *Units using speed control are not licensed to bare the AMCA Seal.



Unit Specifications:

Housing Metal Thickness - 18 Gauge Approximate Weight - 85 lbs. Nominal Hp - 1.50 Hp Outlet Velocity (fpm) = CFM x 0.583Tip Speed (fpm) = RPM x 4.869



Dimensional Data

| A | A 1 | A2 | B | B 1 | C | D | E | F | G | H |
|----|------------|----|-------|------------|-----|------------|----|------|---|-----|
| 18 | 18 | — | 221/8 | 24% | 21¾ | 1 ¼ | 1% | 71⁄8 | 7 | 1⁄2 |

| A | ir Per | rformai | nce Da | ta | | | | | | | | | | | | | | |
|---|--------|---------|--------|-------|------|-------|------|-------|------|------------|------------|-----------|-------|-------|-------|------|-------|---|
| | Volts | Nom. | Мах. | Max. | | | | | | Static Pre | ssure in l | nches W.G | | | | | | 6 |
| | VUILS | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .625" | .75" | 1.0" | 1.25" | 1.50" | 1.75" | 2.0" | 2.25" | ľ |
| | 115 | 1610 | 1141 | 12.30 | 4448 | 4992 | 4130 | 3991 | 3871 | 3743 | 3583 | 3239 | 2843 | 2380 | 1849 | 1231 | 650 | |
| _ | | | | | | | | | | | | | | | | | | |

Sound Data

| | | | | | So | und Power | re 10 ⁻¹² Wat | tts | | | 1. | |
|-------|-------------|-------|----|-----|-----|-----------|--------------------------|------|------|------|-------|--------------------|
| Volts | Nom. RPM | SP | | | | Octave B | ands, Hz | | | | dB(A) | † _{Sones} |
| | KPIVI | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | UD(A) | |
| | | 0.375 | 86 | 93 | 90 | 83 | 76 | 74 | 71 | 66 | 86 | 25 |
| | | 0.500 | 85 | 93 | 89 | 82 | 76 | 74 | 71 | 65 | 85 | 24 |
| 115 | 1610 | 0.750 | 85 | 92 | 88 | 81 | 75 | 73 | 70 | 62 | 84 | 23 |
| IIJ | 1010 | 1.000 | 85 | 92 | 87 | 81 | 75 | 73 | 69 | 60 | 84 | 23 |
| | | 1.250 | 86 | 93 | 87 | 82 | 76 | 73 | 68 | 61 | 84 | 23 |
| | | 1.500 | 87 | 94 | 87 | 85 | 76 | 73 | 68 | 61 | 86 | 25 |



Fantech, Inc. certifies that the FKD Series shown herein is shown herein is licensed to bear the AMCA Seal. The rat-ings shown are based on tests and proce-dures performed in accordance with AMCA Publication 211 and AMCA Publication and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Air Performance Data with Speed Control*

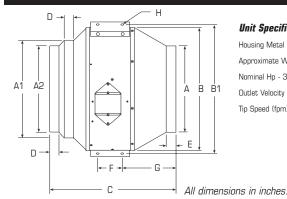
| | | | 8.8 | | | | - | | | Static Pre | ccuno in l | nohac W C | | | | | |
|---|-------|-------|--------|--------|--------|-------|------|-------|------|------------|-------------|------------|-------|-------|-------|------|-------|
| | Volts | Nom. | Max. | Max. | | | | | | JIALIL PIC | SSUIC III I | ILIICS W.O | • | | | | |
| | VUILS | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .625" | .75" | 1.0" | 1.25" | 1.50" | 1.75" | 2.0" | 2.25" |
| | 45 | 550 | 293 | 7.51 | 1286 | 817 | 375 | | — | — | — | | — | | — | | _ |
| | 60 | 760 | 500 | 9.73 | 1746 | 1332 | 990 | 722 | 528 | 308 | — | | — | — | — | | — |
| | 75 | 1120 | 798 | 11.87 | 2528 | 2202 | 1905 | 1653 | 1428 | 1262 | 1118 | 936 | 802 | | — | | — |
| | 85 | 1300 | 1022 | 13.00 | 3158 | 2898 | 2685 | 2481 | 2221 | 2012 | 1850 | 1563 | 1342 | 1099 | 818 | — | _ |
| C | aund | Deteu | ith Co | and Ca | ntnol* | | | | | | | | | | | | |

Sound Data with Speed Control

| | | ĺ | | | Sa | und Power | re 10 ⁻¹² Wat | tts | | | | |
|-------|-------------|-------|----|-----|-----|-----------|--------------------------|------|------|------|-------|--------------------|
| Volts | Nom. RPM | SP | | | | Octave B | ands, Hz | | | | dB(A) | † _{Sones} |
| | RPIVI | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | UD(N) | |
| 45 | 550 | 0.125 | 70 | 67 | 57 | 49 | 42 | 34 | 31 | 33 | 55 | 3.6 |
| 40 | 000 | 0.250 | 76 | 73 | 62 | 55 | 47 | 41 | 35 | 35 | 60 | 5.3 |
| | | 0.250 | 79 | 76 | 64 | 57 | 50 | 43 | 37 | 37 | 63 | 6.4 |
| 60 | 760 | 0.375 | 81 | 79 | 70 | 62 | 55 | 48 | 42 | 40 | 67 | 8.2 |
| | | 0.500 | 82 | 81 | 73 | 65 | 58 | 52 | 46 | 42 | 70 | 10.0 |
| | | 0.375 | 80 | 83 | 71 | 65 | 60 | 56 | 48 | 42 | 70 | 10.6 |
| 75 | 1120 | 0.500 | 81 | 85 | 73 | 67 | 61 | 57 | 50 | 45 | 72 | 11.7 |
| /3 | 1120 | 0.750 | 84 | 87 | 77 | 71 | 65 | 61 | 54 | 49 | 75 | 14.4 |
| | | 1.000 | 85 | 89 | 80 | 74 | 68 | 65 | 58 | 52 | 78 | 16.7 |
| | | 0.375 | 82 | 86 | 78 | 72 | 66 | 64 | 57 | 48 | 75 | 14.0 |
| | | 0.500 | 83 | 86 | 79 | 72 | 66 | 63 | 55 | 48 | 76 | 14.0 |
| 85 | 1300 | 0.750 | 84 | 87 | 79 | 73 | 67 | 63 | 57 | 51 | 77 | 15.3 |
| | | 1.000 | 86 | 89 | 83 | 76 | 70 | 66 | 59 | 54 | 80 | 17.7 |
| | | 1.250 | 87 | 90 | 85 | 80 | 72 | 68 | 62 | 56 | 82 | 19.8 |

Speed (RPM) shown in nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation Type D: ducted inlet, ducted outlet. Note: Electrical specifications reflect voltage/phase/cycles for stock delivery motor/fans sets. Alternative motors are available. Please consult factory for electrical specifications and delivery on 208-230/1/60 motors. The sound power level ratings shown are in decibels, referred to 10¹² watts calculated per AMCA Standard 301. Values shown are for inlet L_{Wi} and total inlet L_{Wi}A sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effect of duct end correction. * The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet fan sone levels. *Units using speed control are not licensed to bare the AMCA Seal.

FKD 18xL



R

B1

30%

ſ

291⁄4

D

2

E

13⁄4

F

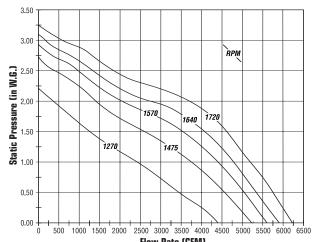
71⁄8

R

12½

Unit Specifications:

Housing Metal Thickness - 18 Gauge Approximate Weight - 95 lbs. Nominal Hp - 3.00 Hp Outlet Velocity (fpm) = CFM x 0.583 Tip Speed (fpm) = RPM x 5.393



A1 A2 A 28¼ 18 18 _

Dimensional Data

| Air Pei | rformal | nce Dai | ta¹ | | | | | | | | | | | FIOW Rat | e (Grivij | |
|---------|---------|---------|------|------|-------|------|-------|------|-------------|------------|-----------|-------|-------|----------|-----------|-------|
| Volts | Nom. | Max. | Мах. | | | | | S | itatic Pres | sure in In | ches W.G. | | | | | |
| VUILS | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .75" | 1.0" | 1.25" | 1.50" | 1.75" | 2.0" | 2.25" | 2.25" |
| 460 | 1720 | 2208 | 3.75 | 6236 | 6115 | 5995 | 5874 | 5754 | 5500 | 5199 | 4909 | 4602 | 4241 | 3703 | 2794 | 1886 |
| Sound | Data | | | | | | | | | | | | | | | |

н

1⁄2

| | | | | | So | und Power | re 10 ⁻¹² Wa | tts | | | 1. | |
|-------|------|-------|-----|-----|-----|-----------|-------------------------|------|------|------|--------------|--------------------|
| Volts | Nom. | SP | | | | Octave B | lands, Hz | | | | Lwi dB(A) | † _{Sones} |
| | RPM | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | UD(A) | |
| | | 0.375 | 94 | 98 | 91 | 85 | 81 | 78 | 75 | 70 | 89 | 32 |
| | | 0.500 | 94 | 98 | 91 | 85 | 81 | 78 | 75 | 70 | 89 | 32 |
| | | 0.750 | 94 | 97 | 90 | 84 | 80 | 77 | 74 | 68 | 88 | 31 |
| 460 | 1720 | 1.000 | 94 | 97 | 90 | 84 | 80 | 77 | 74 | 67 | 88 | 30 |
| | | 1.500 | 94 | 98 | 89 | 83 | 80 | 77 | 73 | 65 | 87 | 30 |
| | | 2.000 | 96 | 100 | 87 | 82 | 79 | 77 | 72 | 65 | 88 | 32 |
| | | 2.500 | 100 | 96 | 87 | 83 | 81 | 78 | 72 | 65 | 87 | 29 |

Air Performance Data¹ with Speed Control*

| Volts | Nom. | Max. | Мах. | | | | | S | itatic Pres | sure in In | ches W.G. | | | | | |
|-------|------|-------|------|------|-------|------|-------|------|-------------|------------|-----------|-------|-------|------|-------|-------|
| VUILS | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .75" | 1.0" | 1.25" | 1.50" | 1.75" | 2.0" | 2.25" | 2.25" |
| 165 | 1270 | 1172 | 4.74 | 4407 | 4209 | 3972 | 3718 | 3454 | 2932 | 2385 | 1815 | 1296 | 829 | — | — | — |
| 220 | 1475 | 1570 | 4.67 | 5219 | 5060 | 4901 | 4732 | 4563 | 4183 | 3722 | 3213 | 2619 | 1962 | 1424 | 979 | _ |
| 265 | 1570 | 1791 | 4.38 | 5606 | 5463 | 5323 | 5191 | 5060 | 4754 | 4400 | 4002 | 3538 | 2862 | 2075 | 1455 | 967 |
| 320 | 1640 | 1965 | 4.03 | 5890 | 5759 | 5628 | 5488 | 5344 | 5067 | 4786 | 4464 | 4089 | 3616 | 2753 | 1929 | 1327 |

Sound Data with Speed Control*

| | | | | | So | und Power | re 10 ⁻¹² Wat | tts | | | 1. | |
|-------|-------------|-------|----|-----|-----|-----------|--------------------------|------|------|------|-------|--------------------|
| Volts | Nom. RPM | SP | | | | Octave B | ands, Hz | | | | dB(A) | [†] Sones |
| | KPIVI | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | UD(A) | |
| | | 0.375 | 90 | 91 | 80 | 74 | 71 | 67 | 65 | 52 | 79 | 18.9 |
| 165 | 1270 | 0.500 | 90 | 89 | 79 | 73 | 70 | 67 | 62 | 51 | 78 | 17.5 |
| 100 | 12/0 | 0.750 | 90 | 86 | 77 | 72 | 69 | 66 | 59 | 52 | 77 | 15.7 |
| | | 1.000 | 90 | 86 | 78 | 73 | 70 | 67 | 60 | 53 | 77 | 16.2 |
| | | 0.375 | 93 | 95 | 85 | 80 | 76 | 73 | 71 | 60 | 84 | 25 |
| | | 0.500 | 93 | 95 | 85 | 79 | 76 | 72 | 70 | 59 | 84 | 24 |
| 220 | 1475 | 0.750 | 93 | 94 | 83 | 79 | 75 | 72 | 68 | 58 | 83 | 23 |
| | | 1.000 | 93 | 93 | 82 | 78 | 74 | 71 | 66 | 58 | 82 | 22 |
| | | 1.500 | 94 | 93 | 82 | 78 | 75 | 72 | 66 | 59 | 82 | 22 |
| | | 0.375 | 94 | 97 | 89 | 82 | 78 | 75 | 74 | 64 | 87 | 29 |
| | | 0.500 | 94 | 96 | 88 | 81 | 77 | 74 | 73 | 63 | 86 | 28 |
| 265 | 1570 | 1.000 | 94 | 97 | 86 | 80 | 76 | 73 | 70 | 60 | 85 | 27 |
| | | 1.500 | 94 | 97 | 84 | 79 | 76 | 74 | 68 | 60 | 85 | 26 |
| | | 2.000 | 97 | 94 | 85 | 81 | 78 | 76 | 70 | 63 | 85 | 26 |
| | | 0.375 | 94 | 98 | 90 | 83 | 80 | 76 | 75 | 67 | 88 | 31 |
| | | 0.500 | 94 | 97 | 90 | 83 | 79 | 76 | 74 | 66 | 87 | 30 |
| 320 | 1640 | 0.750 | 94 | 97 | 89 | 83 | 79 | 76 | 73 | 65 | 87 | 29 |
| ULU | 1040 | 1.000 | 94 | 97 | 88 | 82 | 78 | 75 | 72 | 63 | 86 | 28 |
| | | 1.500 | 94 | 98 | 86 | 81 | 77 | 75 | 70 | 62 | 86 | 29 |
| | | 2.000 | 97 | 96 | 86 | 81 | 78 | 76 | 70 | 63 | 86 | 28 |



Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures per-formed in accor-dance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

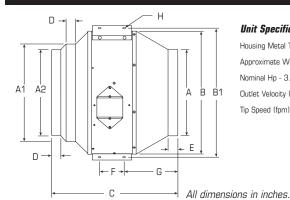


C

Speed (RPM) shown in nominal. Performance is based on actual speed of test best on actual speed of test of the second speed of test of the second speed of test of the second speed of the second speed of the second speed second second speed second second speed second second speed second seco

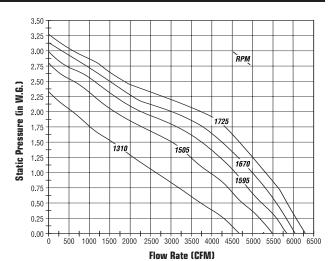
acute one energy of the sound ratings end correction shown are budness values in fan sones at 5tt. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet fan sone lav-els.*Units using speed control are not licensed to bare the AMCA Seal.

12



Unit Specifications:

Housing Metal Thickness - 18 Gauge Approximate Weight - 95 lbs. Nominal Hp - 3.00 Hp Outlet Velocity (fpm) = CFM x 0.472 Tip Speed (fpm) = RPM x 5.393



Dimensional Data

| A | A1 | A2 | B | B 1 | C | D | E | F | G | H |
|--------|--------|-------|-------|------------|-------|---|----|------|-----|-----|
| 20 | 20 | _ | 281⁄4 | 30% | 271⁄4 | 2 | 1¾ | 71⁄8 | 10½ | 1⁄2 |
| Air Pe | erforn | nance | Data¹ | | | | | | | |

| Volts | Nom. | Max. | Max. | | | | | S | itatic Pres | sure in In | ches W.G. | | | | | |
|-------|------|-------|------|------|-------|------|-------|------|-------------|--------------|-----------|-------|-------|------|-------|-------|
| VUILS | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .75" | 1.0 " | 1.25" | 1.50" | 1.75" | 2.0" | 2.25" | 2.25" |
| 460 | 1725 | 2218 | 3.73 | 6291 | 6174 | 6054 | 5933 | 5829 | 5617 | 5307 | 4987 | 4667 | 4310 | 3757 | 2816 | 1858 |
| Sound | Data | | | | | | | | | | | | | | | |

| Journa Di | ala | | - | | | | | | | | |
|-----------|------|-------|----|-----|-----|-----------------------|--------------------------------------|------|------|------|--------------------------|
| Volts | Nom. | SP | | | Sa | und Power Octave B | re 10 ⁻¹² Wa lands, Hz | tts | | | L _{wi} dB(A) |
| | RPM | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | ablaj |
| | | 0.375 | 94 | 99 | 91 | 84 | 80 | 79 | 77 | 72 | 89 |
| | | 0.500 | 94 | 99 | 91 | 84 | 80 | 79 | 77 | 71 | 89 |
| | | 0.750 | 94 | 98 | 90 | 83 | 79 | 78 | 76 | 69 | 88 |
| 460 | 1720 | 1.000 | 94 | 98 | 89 | 83 | 78 | 78 | 76 | 68 | 88 |
| | | 1.500 | 94 | 96 | 89 | 82 | 78 | 77 | 74 | 65 | 87 |
| | | 2.000 | 97 | 99 | 87 | 81 | 77 | 77 | 73 | 64 | 87 |
| | | 2.500 | 98 | 95 | 86 | 81 | 78 | 78 | 72 | 65 | 86 |

AMCA CERTIFIED RATINGS SOUND DCC

†_{Sones}

34 33

32 31

28 31

29

Fantech, Inc. certi-fies that the FKD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accor-dance with AMCA Publication 211 and AMCA Publication 311 and comply with the require-ments of the AMCA Certified Ratings Program.

ß

Air Performance Data¹ with Speed Control*

| Volts | Nom. | Мах. | Max. | | | | | 5 | itatic Pres | sure in In | ches W.G. | | | | | |
|-------|------|-------|------|------|-------|------|-------|------|-------------|------------|-----------|-------|-------|------|-------|-------|
| VUILS | RPM | Watts | Amps | 0.0" | .125" | .25" | .375" | .50" | .75" | 1.0" | 1.25" | 1.50" | 1.75" | 2.0" | 2.25" | 2.25" |
| 165 | 1310 | 1234 | 5.00 | 4663 | 4455 | 4248 | 3980 | 3705 | 3176 | 2606 | 2057 | 1531 | 1026 | 583 | — | — |
| 220 | 1505 | 1620 | 4.79 | 5478 | 5311 | 5145 | 4940 | 4725 | 4378 | 3930 | 3473 | 2987 | 2282 | 1638 | 1108 | 608 |
| 265 | 1595 | 1820 | 4.41 | 5831 | 5697 | 5563 | 5401 | 5213 | 4881 | 4559 | 4190 | 3729 | 3101 | 2289 | 1652 | 1121 |
| 320 | 1670 | 1965 | 4.01 | 6056 | 5933 | 5810 | 5684 | 5556 | 5294 | 4980 | 4625 | 4230 | 3755 | 2992 | 2069 | 1491 |

| 320 | 1670 | 1965 | 5 4.01 | 6056 | 5933 | 5810 | 5684 | 5556 | 5294 | 4980 |) 4625 | 4230 | 3755 | 2992 | 2069 | 1491 | |
|-------|------|--------------|--------|------|------|------|------|------|------------------------------------|------|----------|------|------|----------|------|--------------------|--|
| Sound | Data | | | | | | | | | | | | | | | | Speed (RPM) shown in nominal. Performance is |
| Volts | | om. PM | SP | | | | Sou | | r re 10 ⁻¹² Bands, H | | | | | L, dB | | † _{Sones} | based on actual speed of test. Performance ratings do not include the effects of appurte- |
| | | | | 63 | 12 | 5 | 250 | 500 | 1000 | ם ו | 2000 | 4000 | 8000 | | | | nances (accessories). Performance certified is |
| | | | 0.375 | 91 | 92 | 2 | 82 | 76 | 71 | | 70 | 69 | 55 | 8 | 1 | 21 | for installation Type D: ducted inlet, ducted out- |
| 165 | 10 | 270 | 0.500 | 91 | 92 | 2 | 81 | 75 | 71 | | 69 | 67 | 54 | 8 | 0 | 20 | let. Note: Electrical specifications reflect |
| 100 | | ./0 | 0.750 | 91 | 89 | 3 | 79 | 73 | 70 | | 68 | 61 | 53 | 7 | 8 | 17.7 | voltage/phase/cycles for stock delivery |
| | | | 1.000 | 91 | 89 | 3 | 78 | 73 | 70 | | 68 | 61 | 53 | 7 | 8 | 17.3 | motor/fans sets. Alternative motors are |
| | | | 0.375 | 93 | 97 | 7 | 88 | 81 | 77 | | 76 | 74 | 65 | 8 | 6 | 29 | available. Please consult factory for electrical |
| | | | 0.500 | 93 | 96 | 3 | 87 | 81 | 77 | | 75 | 73 | 64 | 8 | 6 | 27 | specifications and deliv- ery on 208-230/1/60 motors. The sound power |
| 220 | 14 | 175 | 0.750 | 93 | 95 | 5 | 87 | 80 | 76 | | 75 | 72 | 62 | 8 | 5 | 26 | motors. The sound power level ratings shown are in |
| | | | 1.000 | 93 | 95 | 5 | 85 | 80 | 75 | | 74 | 71 | 61 | 8 | 4 | 25 | level ratings shown are in decibels, referred to 1012 watts calculated per |
| | | | 1.500 | 94 | 95 | 5 | 85 | 79 | 75 | | 74 | 69 | 61 | 8 | 4 | 25 | AMCA Standard 301. Values shown are for inlet |
| | | | 0.375 | 93 | 98 | 3 | 89 | 82 | 77 | | 76 | 76 | 66 | 8 | 7 | 30 | Lwi and total inlet LwiA |
| | | | 0.500 | 93 | 98 | | 88 | 81 | 77 | | 76 | 75 | 65 | 8 | | 30 | sound power levels for installation type D: ducted inlet, ducted outlet. |
| 265 | 15 | 570 | 1.000 | 93 | 96 | 3 | 87 | 80 | 75 | | 75 | 73 | 62 | 8 | 5 | 27 | Ratings include the effect of duct end correction. |
| | | | 1.500 | 94 | 98 | 3 | 85 | 79 | 75 | | 74 | 70 | 61 | 8 | - | 27 | t The sound ratings shown |
| | | | 2.000 | 96 | 96 | 3 | 84 | 79 | 76 | | 76 | 69 | 62 | 8 | 5 | 26 | are loudness values in fan sones at 5ft. (1.5m) in |
| | | | 0.375 | 94 | 98 | 3 | 90 | 83 | 79 | | 78 | 76 | 69 | 8 | 8 | 32 | hemispherical free field cal- culated per AMCA |
| | | | 0.500 | 94 | 98 | 3 | 89 | 83 | 79 | | 77 | 76 | 68 | 8 | 8 | 31 | Standard 301. Values shown are for installation |
| 320 | 16 | 640 | 0.750 | 94 | 97 | 7 | 89 | 82 | 78 | | 77 | 75 | 67 | 8 | 7 | 30 | Type D: ducted inlet fan sone levels. |
| 020 | | | 1.000 | 94 | 96 | | 88 | 82 | 77 | | 76 | 74 | 65 | 8 | - | 28 | *Units using speed control are not |
| | | | 1.500 | 94 | 97 | 7 | 87 | 81 | 76 | | 75 | 72 | 63 | 8 | 6 | 28 | licensed to bare the |
| | | | 2.000 | 96 | 96 | 6 | 85 | 80 | 77 | | 76 | 71 | 63 | 8 | 5 | 27 | AMCA Seal. |

For Speed Control Options call Fantech Technical Support 1.800.747.1762

13

Three (3) Year Warranty

This warranty supersedes all prior warranties

DURING ENTIRE WARRANTY PERIOD:

FANTECH will repair or replace any part which has a factory defect in workmanship or material. Product may need to be returned to the Fantech factory, together with a copy of the bill of sale and identified with RMA number.

FOR FACTORY RETURN YOU MUST:

- Have a Return Materials Authorization (RMA) number. This may be obtained by calling FANTECH either in the USA at 1.800.747.1762 or in CANADA at 1.800.565.3548. Please have bill of sale available.
- The RMA number must be clearly written on the outside of the carton, or the carton will be refused.
- All parts and/or product will be repaired/replaced and shipped back to buyer; no credit will be issued.

OR

The Distributor may place an order for the warranty part and/or product and is invoiced. The Distributor will receive a credit equal to the invoice only after product is returned prepaid and verified to be defective.

FANTECH WARRANTY TERMS DO NOT PROVIDE FOR REPLACEMENT WITHOUT CHARGE PRIOR TO INSPECTION FOR A DEFECT.

REPLACEMENTS ISSUED IN ADVANCE OF DEFECT INSPECTION ARE INVOICED, AND CREDIT IS PENDING INSPECTION OF RETURNED

MATERIAL. DEFECTIVE MATERIAL RETURNED BY END USERS SHOULD NOT BE REPLACED BY THE DISTRIBUTOR WITHOUT CHARGE TO THE END USER, AS

Limitation of Warranty and Liability

CREDIT TO DISTRIBUTOR'S ACCOUNT WILL BE PENDING INSPECTION AND VERIFICATION OF ACTUAL DEFECT BY FANTECH.

THE FOLLOWING WARRANTIES DO NOT APPLY:

- Damages from shipping, either concealed or visible. Claim must be filed with freight company.
- Damages resulting from improper wiring or installation.
- Damages or failure caused by acts of God, or resulting from improper consumer procedures, such as:
 - 1. Improper maintenance
 - 2. Misuse, abuse, abnormal use, or accident, and
 - 3. Incorrect electrical voltage or current.
- Removal or any alteration made on the FANTECH label control number or date of manufacture.
- Any other warranty, expressed, implied or written, and to any consequential or incidental damages, loss or property, revenues, or profit, or costs of removal, installation or reinstallation, for any breach of warranty.

WARRANTY VALIDATION

- The user must keep a copy of the bill of sale to verify purchase date.
- These warranties give you specific legal rights, and are subject to an applicable consumer protection legislation. You may have additional rights which vary from state to state.

This warranty does not apply to any FANTECH INC. product or part which has failed as a result of faulty installation or abuse, incorrect electrical connections or alterations made by others, or use under abnormal operating conditions or misapplication of the product or parts. We will not approve for payment any repair not made by us or our authorized agent without prior written consent. The foregoing shall constitute our sole and exclusive warranty and our sole exclusive liability, and is in lieu of any other warranties, whether written, oral, implied or statutory. There are no warranties which extend beyond the description on the page hereof. In no event, whether as a result of breach of contract, or warranty or alleged negligence, defect incorrect advice or other causes, shall FANTECH be liable for special or consequential damages, including, but not limited to, loss of profits or revenue, loss of use of equipment or any other associated equipment, cost of capital, cost of substitute equipment, facilities or services, downtime costs, or claims of customers of purchase for such damages. FANTECH neither assumes or authorizes any person to assume for it any other liability in connection with the sale of product(s) or part(s). Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages so the above limitations and exclusions may not apply to you.

Warning

FANTECH, INC. products are designed and manufactured to provide reliable performance, but they are not guaranteed to be 100% free from defects. Even reliable products will experience occasional failures and this possibility should be recognized by the user. If these products are used in a life support ventilation system where failure could result in loss or injury, the user should provide adequate backup ventilation, supplementary natural ventilation, failure alarm system, or acknowledge will-ingness to accept the risk of such loss or injury.

Fantech, reserves the right to modify, at any time and without notice, any or all of its products' features, designs, components and specifications to maintain their technological leadership position.

| Represented By: | |
|-----------------|--|
| | |
| | |
| | |
| | |



United States

1712 Northgate Blvd. • Sarasota, FL. 34234 (T) 1.800.747.1762 • (F) 1.800.487.9915 (T) 1.941.309.6000 • (F) 1.941.309.6099

Canada

50 Kanalflakt Way • Bouctouche, NB E4S 3M5 (T) 1.800.656.3548 • (F) 1.877.747.8116 (T) 1.506.743.9500 • (F) 1.506.743.9600