FTFA series

Adjustable Pitch Angle Axial Fan

Flowtech CO., Ltd. certifies that the model: FTFA shown herein are licensed to
are based on tests and procedures performed in accordance with AMCA
and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance and sound for all
Model: FTFA. The AMCA Certified Ratings Seal applies to FEG for model FTFA on
page 11-32 only.
## Table of Contents

- Standard Features .................................................. 02
- Adjustable Pitch Axial Fans ...................................... 03-05
- Guide to Fan Selection ............................................. 06
- Series FTFA 315-150-5 ............................................... 07
- Series FTFA 315-150-10 ............................................. 08
- Series FTFA 400-150-5 ............................................... 09
- Series FTFA 400-150-10 ............................................. 10
- Series FTFA 500-150-5 ............................................... 11
- Series FTFA 500-150-10 ............................................. 12
- Series FTFA 560-150-5 ............................................... 13
- Series FTFA 560-150-10 ............................................. 14
- Series FTFA 630-150-5 ............................................... 15
- Series FTFA 630-150-10 ............................................. 16
- Series FTFA 710-150-5 ............................................... 17
- Series FTFA 710-150-10 ............................................. 18
- Series FTFA 800-250-7 ............................................... 19
- Series FTFA 800-250-14 ............................................. 20
- Series FTFA 900-250-7 ............................................... 21
- Series FTFA 900-250-14 ............................................. 22
- Series FTFA 1000-250-7 ............................................ 23
- Series FTFA 1000-250-14 ......................................... 24
- Series FTFA 1000-350-6 ............................................ 25
- Series FTFA 1000-350-12 ......................................... 26
- Series FTFA 1250-350-6 ............................................ 27
- Series FTFA 1250-350-12 ......................................... 28
- Series FTFA 1250-420-11 ......................................... 29
- Series FTFA 1250-550-12 ......................................... 30
- Series FTFA 1400-420-11 ......................................... 31
- Series FTFA 1530-420-11 ......................................... 32
- FTFA Dimensions .................................................... 33
- FTFA-Q Series Dimension ........................................ 34
Standard Features

Aerofol impeller featured with adjustable pitch angle
Precision die cast Aluminium hub and blades
Optional short and long casing model with hot dip galvanized steel to ISO 1461 & BS 729
High strength and rigidity spun flanges design
Terminal box in IP 55 mounted externally on casing for easy wiring termination
Equipped with single or three-phase motor in IP 55 and class F insulation
Suitable for operating temperature up to 55 degree C
Adjustable Pitch Axial Fans

Flowtech CO., Ltd fully adjustable pitch fans are available in a full range of metric sizes from 315mm diameter up to 1600mm diameter and capable of delivering air quantities up to 70m³/s. Fan diameters beyond 1600mm are available on request only.

The wide range of diameters, blade configurations, pitch angles and motor speeds, allow accurate selection of the fan to match the specific duty.

Pitch angle adjustment can be readily carried out on site allowing the fan performance to be modified to the final system resistance.

Whilst the standard range of axial fans cover most applications, purpose designed casings and mountings are available. Casings are manufactured from mild steel and hot dipped galvanized (as standard) or epoxy powder coated (on request) after manufacture. Flanges are where possible integrally rolled from the casing material for greater strength and stability.

MODEL RANGE
- FTFA-Tube Axial
- FTFA-Q Series - Plate Axial

Standard Product

SPECIFICATION
Casings shall be of mild steel, galvanised sheet, hot dipped galvanised or epoxy powder coated after manufacture. Impellers are manufactured from high pressure die cast aluminiums, with blades matched and balanced for vibration free operation.

CONSTRUCTION
- Casing of mild steel hot dipped galvanised, galvanised sheet or epoxy powder coated after manufacture for corrosion protection.
- Flanges are rolled from the casing material or rolled from flat bar and welded to the case, prior to galvanising.
- Motor brackets or pedestals are available either bolted or welded to the casing, subject to motor size.
Adjustable Pitch Axial Fans

IMPELLER

• Pitch adjustment is infinitely variable over a wide range typically 10° to 40°

• Standard blade construction is high pressure die cast aluminum alloy, x-raying to ensure flawless structure is optional.

• Blades are friction mounted within the hub and secured with high tensile zinc plated bolts and self locking nuts.

• The hubs are fixed with taper-lock bush to suit each motor shaft.

• Impellers are available with 4 to 14 blades dependent upon application.

• Blades are matched and balanced for vibration free operation.

• Maximum continuous operating temperature. (With no radiant heat)

• Smoke Spill - Only aluminum impellers are suitable for smoke spill application.

MOTORS

Motors are typically foot mounted air stream rated, squirrel cage induction type, T.E. 3 phases 415v, 50Hz. Motors are normally supplied for the temperature range of -35°C to +40°C and normally wound to class F Insulation and IP55 protection for standard operation, however, options are available for a varying range of applications including:

• Single phase
• Explosion proof
• High temperature
• Smoke spill
• Special voltage

• Special frequency
• Speed control
• 2 speed
• Thermal Overload protection
• Special insulation

APPLICATION

• General air movement
• Supply and Exhaust
• Smoke Spill & Fire Service
• Dust extraction
OPTIONS

- Inlet and discharge cones
- Inlet and discharge guards
- Flexible Connections
- Matching flanges
- Mounting feet
- Vibration isolation mounts
- Access panels
- External Terminal Box
  (not available for hazardous zone application)
- Sound attenuators

PRODUCT IDENTIFICATION

FTFA 630/150/10/25

A  - Model Tube Axial
630  - Case Diameter
150  - Hub Diameter
10  - No. of Blades
25  - Blade angle

AIR FLOW DESIGNATION

From "B" is standard Air Flow.
If from "A" is required please nominate at time of order.

REVERSE ROTATION

Rotating the impeller in reverse will result in the direction of the air being reversed. reduction in volume approx. 35%, reduction in pressure approx 55% and reduction of power approx. 25%. The performance of reverse rotation are not licensed by AMCA International.

TRULY REVERSIBLE

Where applications require equal air flow quantity in both directions installation of alternate blades of 180° will result in a reduction of air quantity of approx 15%. The performance of truly reversible are not licensed by AMCA International.
Guide To Fan Selection

This catalogue tabulates the performance of products in accordance with the limitations nominated. It is assumed that the user is familiar with and competent to use the information provided. If in doubt, your local GTG office will be pleased to assist.

Established the required air quantity in m³/h and system static resistance in Pa.

**INDIVIDUAL FAN CURVE**
Plot the duty point on the individual fan curves to select.

- Fan diameter
- Number of blades
- Power consumption (kW)
- Fan speed
- Pitch angle
- Sound pressure at 3m (dBA)

---

**EXAMPLE**

(A) Duty Air Quantity 9,300 m³/h
(B) Duty Static Resistance 200Pa
(C) Fan Pitch Angle 20°
(D) Fan speed 2850 rpm (2 Pole)
(E) Absorbed Power 1.72 kW
(F) Motor Selected 2.2 kW
(G) Fan Diameter 630mm, Hub Diameter 150mm
(H) Fan solidity 5 blades

Fan selected: 630/150/5/20°

(I) Sound Pressure at 3m = \[ P_a = 10 \log_{10} \left( \frac{P_0}{P_0} \right) \] = 81dBA where \( P_0 \) is the sound pressure value on curve whichever higher than selection point.
Adjustable Pitch Angle Axial Fan

**SERIES FTFA 315-5**

- **Impeller Code**: 315/150
- **Size**: 315mm

### 50Hz

**Peak Absorbed Power (kW)**

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
<th>25°</th>
<th>28°</th>
<th>30°</th>
<th>32°</th>
<th>34°</th>
<th>36°</th>
<th>38°</th>
<th>40°</th>
</tr>
</thead>
<tbody>
<tr>
<td>960 motor</td>
<td>0.007</td>
<td>0.008</td>
<td>0.009</td>
<td>0.010</td>
<td>0.011</td>
<td>0.012</td>
<td>0.013</td>
<td>0.014</td>
<td>0.015</td>
<td>0.015</td>
<td>0.017</td>
<td>0.018</td>
<td>0.019</td>
<td>0.020</td>
<td>0.021</td>
<td></td>
</tr>
<tr>
<td>1440 motor</td>
<td>0.023</td>
<td>0.026</td>
<td>0.029</td>
<td>0.032</td>
<td>0.034</td>
<td>0.037</td>
<td>0.040</td>
<td>0.043</td>
<td>0.046</td>
<td>0.049</td>
<td>0.053</td>
<td>0.056</td>
<td>0.060</td>
<td>0.064</td>
<td>0.068</td>
<td>0.071</td>
</tr>
<tr>
<td>2850 motor</td>
<td>0.178</td>
<td>0.200</td>
<td>0.222</td>
<td>0.245</td>
<td>0.287</td>
<td>0.308</td>
<td>0.333</td>
<td>0.357</td>
<td>0.382</td>
<td>0.408</td>
<td>0.437</td>
<td>0.467</td>
<td>0.496</td>
<td>0.525</td>
<td>0.554</td>
<td></td>
</tr>
</tbody>
</table>

### Performance Certifications

- **Performance certified is for installation type D: Ducted inlet. Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).**
- **The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.**
- **Lp(A) - dBA levels are not licensed by AMCA International.**

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07 | ADJUSTABLE PITCH ANGLE AXIAL FAN
Adjustable Pitch Angle Axial Fan

**Absorbed Power (kW)**

**Static Pressure (Pa)**

**Blade Pitch Angle (°)**

**Peak Absorbed Power (kW)**

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
<th>26°</th>
<th>28°</th>
<th>30°</th>
<th>32°</th>
<th>34°</th>
<th>36°</th>
<th>38°</th>
<th>40°</th>
</tr>
</thead>
<tbody>
<tr>
<td>960 motor</td>
<td>0.011</td>
<td>0.011</td>
<td>0.012</td>
<td>0.012</td>
<td>0.013</td>
<td>0.014</td>
<td>0.014</td>
<td>0.015</td>
<td>0.017</td>
<td>0.019</td>
<td>0.021</td>
<td>0.022</td>
<td>0.024</td>
<td>0.025</td>
<td>0.026</td>
<td>0.028</td>
</tr>
<tr>
<td>1440 motor</td>
<td>0.036</td>
<td>0.038</td>
<td>0.040</td>
<td>0.040</td>
<td>0.042</td>
<td>0.044</td>
<td>0.046</td>
<td>0.048</td>
<td>0.053</td>
<td>0.058</td>
<td>0.063</td>
<td>0.071</td>
<td>0.075</td>
<td>0.080</td>
<td>0.084</td>
<td>0.089</td>
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<tr>
<td>2850 motor</td>
<td>0.278</td>
<td>0.294</td>
<td>0.309</td>
<td>0.325</td>
<td>0.340</td>
<td>0.356</td>
<td>0.374</td>
<td>0.413</td>
<td>0.451</td>
<td>0.489</td>
<td>0.548</td>
<td>0.583</td>
<td>0.619</td>
<td>0.654</td>
<td>0.690</td>
<td>0.725</td>
</tr>
</tbody>
</table>

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- Lp(A) - dBA levels are not licensed by AMCA International.
Adjustable Pitch Angle Axial Fan

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Adjustable Pitch Angle Axial Fan

Series FTFA 400-10

- Impeller Code: 400/150
- Size: 400 mm
- Outlet Area: 0.126 m²

50Hz

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- Lp(A) - dBA levels are not licensed by AMCA International.
Adjustable Pitch Angle Axial Fan

FEG 56

Absorbed Power (kW)

Static Pressure (Pa)

Peak Absorbed Power (kW)

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
<th>26°</th>
<th>28°</th>
<th>30°</th>
<th>32°</th>
<th>34°</th>
<th>36°</th>
<th>38°</th>
<th>40°</th>
</tr>
</thead>
<tbody>
<tr>
<td>960</td>
<td>0.035</td>
<td>0.041</td>
<td>0.047</td>
<td>0.054</td>
<td>0.060</td>
<td>0.066</td>
<td>0.073</td>
<td>0.081</td>
<td>0.089</td>
<td>0.096</td>
<td>0.104</td>
<td>0.113</td>
<td>0.122</td>
<td>0.131</td>
<td>0.140</td>
<td>0.150</td>
</tr>
<tr>
<td></td>
<td>0.18</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>1440</td>
<td>0.119</td>
<td>0.140</td>
<td>0.160</td>
<td>0.181</td>
<td>0.201</td>
<td>0.222</td>
<td>0.248</td>
<td>0.274</td>
<td>0.299</td>
<td>0.325</td>
<td>0.351</td>
<td>0.381</td>
<td>0.411</td>
<td>0.442</td>
<td>0.474</td>
<td>0.508</td>
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<tr>
<td></td>
<td>0.37</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2850</td>
<td>0.92</td>
<td>1.08</td>
<td>1.24</td>
<td>1.40</td>
<td>1.56</td>
<td>1.72</td>
<td>1.92</td>
<td>2.12</td>
<td>2.32</td>
<td>2.52</td>
<td>2.72</td>
<td>2.95</td>
<td>3.19</td>
<td>3.43</td>
<td>3.68</td>
<td>3.92</td>
</tr>
<tr>
<td></td>
<td>1.1</td>
<td>1.5</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

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**Adjustable Pitch Angle Axial Fan**

**FEG 53**

### Absorbed Power [kW]

<table>
<thead>
<tr>
<th>Speed [rpm]</th>
<th>0</th>
<th>1000</th>
<th>2000</th>
<th>3000</th>
<th>4000</th>
<th>5000</th>
<th>6000</th>
<th>7000</th>
<th>8000</th>
<th>9000</th>
<th>10000</th>
<th>11000</th>
<th>12000</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 Hz</td>
<td>0</td>
<td>0.1</td>
<td>0.2</td>
<td>0.3</td>
<td>0.4</td>
<td>0.5</td>
<td>0.6</td>
<td>0.7</td>
<td>0.8</td>
<td>0.9</td>
<td>1</td>
<td>1.1</td>
<td>1.2</td>
</tr>
</tbody>
</table>

### Static Pressure [Pa]

- **Lw(A) in dBA**

### Air Volume [m³/h]

<table>
<thead>
<tr>
<th>Peak Absorbed Power (kW)</th>
<th>5000</th>
<th>6000</th>
<th>7000</th>
<th>8000</th>
<th>9000</th>
<th>10000</th>
<th>11000</th>
<th>12000</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Pole</td>
<td>0</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>70</td>
</tr>
<tr>
<td>4 Pole</td>
<td>0</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>70</td>
</tr>
<tr>
<td>6 Pole</td>
<td>0</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>70</td>
</tr>
</tbody>
</table>

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- **Lp(A) - dBA levels are not licensed by AMCA International**

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**SERIES FTFA 500-10**

- **Impeller Code:** 500/150
- **Size:** 500mm
- **Outlet Area:** 0.196m²
Adjustable Pitch Angle Axial Fan

**FEG 60**

### Performance Data

- **Peak Absorbed Power (kW)**
- **Motor Speed (rpm)**
- **Peak ABsorbed Power (kW)**
- **Blade Pitch Angle**
- **Lw(A) in dBA**
- **Lp(A) at 3m**
- **Air Volume (m³/h)**

#### Notes:
- Performance certified is for installation type D-Ducted inlet. Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Lp(A) - dBA levels are not licensed by AMCA International.
### Adjustable Pitch Angle Axial Fan

**FEG 56**

#### ABSORBED POWER [kW]

![Graph of Absorbed Power vs Blade Pitch Angle]

#### STATIC PRESSURE [Pa]

![Graph of Static Pressure vs Speed]

#### PEAK ABSORBED POWER [kW] vs BLADE PITCH ANGLE

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
<th>26°</th>
<th>28°</th>
<th>30°</th>
<th>32°</th>
<th>34°</th>
<th>36°</th>
<th>38°</th>
<th>40°</th>
</tr>
</thead>
<tbody>
<tr>
<td>960</td>
<td>0.09</td>
<td>0.10</td>
<td>0.11</td>
<td>0.12</td>
<td>0.14</td>
<td>0.15</td>
<td>0.16</td>
<td>0.18</td>
<td>0.20</td>
<td>0.23</td>
<td>0.25</td>
<td>0.27</td>
<td>0.29</td>
<td>0.31</td>
<td>0.33</td>
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<tr>
<td>motor</td>
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</tr>
<tr>
<td>1440</td>
<td>0.31</td>
<td>0.35</td>
<td>0.36</td>
<td>0.38</td>
<td>0.42</td>
<td>0.46</td>
<td>0.49</td>
<td>0.55</td>
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<td>0.76</td>
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<td>0.91</td>
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<td>motor</td>
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<td>0.75</td>
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<td>2850</td>
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<td>2.69</td>
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<td>3.54</td>
<td>3.83</td>
<td>4.25</td>
<td>4.80</td>
<td>5.35</td>
<td>5.91</td>
<td>6.46</td>
<td>7.02</td>
<td>7.58</td>
<td>8.15</td>
<td>8.71</td>
<td>9.27</td>
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<tr>
<td>motor</td>
<td>3</td>
<td>4</td>
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</tr>
</tbody>
</table>

- **N** (rpm): Speed
- **Lw(A) in dBA**: Sound power level at 3m
- **Lp(A) at 3m**: Sound power level at 3m

#### Sound Pressure Levels

- Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Lp(A) - dBA levels are not licensed by AMCA International.
**SERIES FTFA 630-5**

**Adjustable Pitch Angle Axial Fan**

**FEG 67**

### Diagrams

- **Absorbed Power (kW)**
- **Static Pressure (Pa)**
- **Impeller Coefficient (C)**
- **Outlet Area (m²)**
- **Sound Power Level (dBA)**

### Tables

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
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<th>30°</th>
<th>32°</th>
<th>34°</th>
<th>36°</th>
<th>38°</th>
<th>40°</th>
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<tbody>
<tr>
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<td>0.18</td>
<td>0.35</td>
<td>1.02</td>
<td>1.83</td>
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<td>4.13</td>
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<td>1440 motor</td>
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</tbody>
</table>

### Notes

- **Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).**

- **The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.**

- **Lp(A) - dBA levels are not licensed by AMCA International.**

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15 | ADJUSTABLE PITCH ANGLE AXIAL FAN
Adjustable Pitch Angle Axial Fan

FEG 60

Absorbed Power (kW)

Static Pressure (Pa)

Peak Absorbed Power (kW)

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
<th>26°</th>
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<th>34°</th>
<th>36°</th>
<th>38°</th>
<th>40°</th>
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<tbody>
<tr>
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<td>0.17</td>
<td>0.20</td>
<td>0.24</td>
<td>0.27</td>
<td>0.31</td>
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<td>0.38</td>
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<td>0.44</td>
<td>0.47</td>
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<td>0.54</td>
<td>0.57</td>
<td>0.71</td>
<td>0.79</td>
<td>0.88</td>
</tr>
<tr>
<td>1440 motor</td>
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<td>0.80</td>
<td>0.92</td>
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<td>1.16</td>
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<td>1.38</td>
<td>1.48</td>
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<td>1.92</td>
<td>2.15</td>
<td>2.39</td>
<td>2.68</td>
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</tbody>
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Lw(A) in dBA

Air Volume (m³/h)

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- Lp(A) - dBA levels are not licensed by AMCA International.
Adjustable Pitch Angle Axial Fan

FEG 67

Peak Absorbed Power (kW)

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
<th>26°</th>
<th>28°</th>
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<th>32°</th>
<th>34°</th>
<th>36°</th>
<th>38°</th>
<th>40°</th>
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<td>0.07</td>
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<td>0.09</td>
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<td>0.12</td>
<td>0.13</td>
<td>0.15</td>
<td>0.16</td>
<td>0.17</td>
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<td>0.20</td>
<td>0.21</td>
<td>0.23</td>
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</tr>
<tr>
<td>960 motor</td>
<td>0.11</td>
<td>0.13</td>
<td>0.15</td>
<td>0.17</td>
<td>0.19</td>
<td>0.21</td>
<td>0.25</td>
<td>0.28</td>
<td>0.31</td>
<td>0.35</td>
<td>0.38</td>
<td>0.41</td>
<td>0.44</td>
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</tr>
<tr>
<td>1440 motor</td>
<td>0.37</td>
<td>0.44</td>
<td>0.51</td>
<td>0.56</td>
<td>0.65</td>
<td>0.72</td>
<td>0.83</td>
<td>0.94</td>
<td>1.06</td>
<td>1.17</td>
<td>1.28</td>
<td>1.38</td>
<td>1.48</td>
<td>1.58</td>
<td>1.70</td>
<td>1.81</td>
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<tr>
<td>Lw(A) in dBA</td>
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<td>-17</td>
<td>-17</td>
<td>-17</td>
<td>-17</td>
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<td>-17</td>
<td>-37</td>
<td>-37</td>
<td>-37</td>
<td>-37</td>
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</tbody>
</table>

- Performance certified for installation type D-Ducted inlet. Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D; ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
- Lp(A) - dBA levels are not licensed by AMCA International.
Adjustable Pitch Angle Axial Fan

FEG 71

Absorbed Power [kW]

Static Pressure [Pa]

Peak Absorbed Power (kW)

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Adjustable Pitch Angle Axial Fan

FEG 67

Peak Absorbed Power (kW)

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
<th>26°</th>
<th>28°</th>
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<th>32°</th>
<th>34°</th>
<th>36°</th>
<th>38°</th>
<th>40°</th>
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<tr>
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<td>0.25</td>
<td>0.30</td>
<td>0.35</td>
<td>0.40</td>
<td>0.45</td>
<td>0.49</td>
<td>0.55</td>
<td>0.61</td>
<td>0.67</td>
<td>0.73</td>
<td>0.80</td>
<td>0.86</td>
<td>0.96</td>
<td>1.04</td>
<td>1.12</td>
<td>1.20</td>
</tr>
<tr>
<td>motor</td>
<td>0.37</td>
<td>0.55</td>
<td>0.75</td>
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</tr>
<tr>
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<td>1.86</td>
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</tbody>
</table>

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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Lp(A) - dBA levels are not licensed by AMCA International.
Adjustable Pitch Angle Axial Fan

FEG 63

50Hz

Peak Absorbed Power (kW)

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
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<th>30°</th>
<th>32°</th>
<th>34°</th>
<th>36°</th>
<th>38°</th>
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</thead>
<tbody>
<tr>
<td>960</td>
<td>0.63</td>
<td>0.70</td>
<td>0.77</td>
<td>0.85</td>
<td>0.92</td>
<td>1.00</td>
<td>1.18</td>
<td>1.32</td>
<td>1.48</td>
<td>1.64</td>
<td>1.80</td>
<td>1.94</td>
<td>2.08</td>
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<td>2.39</td>
</tr>
<tr>
<td>motor</td>
<td>0.75</td>
<td>1.1</td>
<td>1.18</td>
<td>1.32</td>
<td>1.48</td>
<td>1.64</td>
<td>1.80</td>
<td>1.94</td>
<td>2.08</td>
<td>2.24</td>
<td>2.39</td>
<td>2.55</td>
<td>10</td>
<td>20</td>
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</tr>
<tr>
<td>1440</td>
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<td>2.61</td>
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<td>3.61</td>
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<td>4.99</td>
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<td>6.54</td>
<td>7.02</td>
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<tr>
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<td>3</td>
<td>4</td>
<td>5.5</td>
<td>7.5</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Air Volume I'm³/h

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Adjustable Pitch Angle Axial Fan

**FEG 67**

Absorbed Power [kW]

- 0.0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- 3.0 - 3.5
- 3.5 - 4.0
- 4.0 - 4.5
- 4.5 - 5.0
- 5.0 - 5.5
- 5.5 - 6.0
- 6.0 - 6.5
- 6.5 - 7.0

Static Pressure [Pa]

- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 200 - 250
- 250 - 300
- 300 - 350
- 350 - 400

**Series FTFA 900-7**

- Impeller Code: 900/250
- Size: 900mm
- Outlet Area: 0.636m²

**Absorbed Power (kW)**

- **Motor**: N = 720 rpm
  - 10°: 0.14
  - 12°: 0.17
  - 14°: 0.20
  - 16°: 0.23
  - 18°: 0.26
  - 20°: 0.29
  - 22°: 0.33
  - 24°: 0.37
  - 26°: 0.41
  - 28°: 0.45
  - 30°: 0.49
  - 32°: 0.54
  - 34°: 0.60
  - 36°: 0.65
  - 38°: 0.71
  - 40°: 0.77

- **Motor**: N = 960 rpm
  - 10°: 0.34
  - 12°: 0.40
  - 14°: 0.47
  - 16°: 0.54
  - 18°: 0.61
  - 20°: 0.68
  - 22°: 0.78
  - 24°: 0.88
  - 26°: 0.97
  - 28°: 1.07
  - 30°: 1.17
  - 32°: 1.29
  - 34°: 1.42
  - 36°: 1.55
  - 38°: 1.68
  - 40°: 1.81

- **Motor**: N = 1440 rpm
  - 10°: 1.13
  - 12°: 1.36
  - 14°: 1.69
  - 16°: 2.03
  - 18°: 2.38
  - 20°: 2.86
  - 22°: 3.33
  - 24°: 3.83
  - 26°: 4.35
  - 28°: 4.97
  - 30°: 5.68
  - 32°: 6.22
  - 34°: 6.82

- **Performance certified** is for installation type D: Ducted inlet. Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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---

21 | ADJUSTABLE PITCH ANGLE AXIAL FAN
Adjustable Pitch Angle Axial Fan

FEG 67

Absorbed Power [kW]

Static Pressure [Pa]

Peak Absorbed Power (kW)

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
<th>26°</th>
<th>28°</th>
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<th>34°</th>
<th>36°</th>
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<th>40°</th>
</tr>
</thead>
<tbody>
<tr>
<td>motor</td>
<td>0.25</td>
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<td>0.32</td>
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<td>0.51</td>
<td>0.58</td>
<td>0.64</td>
<td>0.72</td>
<td>0.79</td>
<td>0.87</td>
<td>0.96</td>
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<td>1.20</td>
<td>1.36</td>
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<td>1.86</td>
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</tr>
</tbody>
</table>

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Adjustable Pitch Angle Axial Fan

FEG 71

50Hz

Peak Absorbed Power (kW)

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
<th>26°</th>
<th>28°</th>
<th>30°</th>
<th>32°</th>
<th>34°</th>
<th>36°</th>
<th>38°</th>
<th>40°</th>
</tr>
</thead>
<tbody>
<tr>
<td>720 motor</td>
<td>0.20</td>
<td>0.24</td>
<td>0.28</td>
<td>0.32</td>
<td>0.37</td>
<td>0.41</td>
<td>0.47</td>
<td>0.53</td>
<td>0.59</td>
<td>0.65</td>
<td>0.72</td>
<td>0.80</td>
<td>0.88</td>
<td>0.97</td>
<td>1.06</td>
<td>1.15</td>
</tr>
<tr>
<td>720 motor</td>
<td>0.37</td>
<td>0.55</td>
<td>0.75</td>
<td>1.1</td>
<td>1.5</td>
<td>2.2</td>
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<td>13</td>
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<td>17</td>
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<tr>
<td>960 motor</td>
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- Performance certified is for installation type D: Ducted inlet. Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
- $L_p(A) \text{-dBA}$ levels are not licensed by AMCA International.
Adjustable Pitch Angle Axial Fan

**FEG 67**

- **Absorbed Power (kW)**
  - 0.0
  - 0.5
  - 1.0
  - 1.5
  - 2.0
  - 2.5
  - 3.0
  - 3.5
  - 4.0
  - 4.5
  - 5.0
  - 5.5
  - 6.0
  - 6.5
  - 7.0
  - 7.5
  - 8.0
  - 8.5

- **Static Pressure (Pa)**
  - 0
  - 20
  - 40
  - 60
  - 80
  - 100
  - 120
  - 140
  - 160
  - 180
  - 200
  - 220
  - 240
  - 260
  - 280
  - 300

- **Lw(A) in dBA**
  - 0
  - 5
  - 10
  - 15
  - 20
  - 25
  - 30
  - 35
  - 40
  - 45
  - 50
  - 55
  - 60
  - 65
  - 70
  - 75
  - 80

- **Peak Absorbed Power (kW)**
  - 0.0
  - 0.5
  - 1.0
  - 1.5
  - 2.0
  - 2.5
  - 3.0
  - 3.5
  - 4.0

- **Air Volume (m³/h)**
  - 0
  - 500
  - 1000
  - 1500
  - 2000
  - 2500
  - 3000
  - 3500
  - 4000
  - 4500
  - 5000
  - 5500
  - 6000

- **Speed (rpm)**
  - 720
  - 960
  - 1440

- **Blade Pitch Angle**
  - 10°
  - 12°
  - 14°
  - 16°
  - 18°
  - 20°
  - 22°
  - 24°
  - 26°
  - 28°
  - 30°
  - 32°
  - 34°
  - 36°
  - 38°
  - 40°

- **Lp(A) at 3m**
  - 0
  - 10
  - 20
  - 30
  - 40

- **Lp(A) in dBA**
  - 0
  - 10
  - 20
  - 30
  - 40

- **Motor**
  - 115V

- **Performance certified is for installation type D: Ducted inlet. Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).**

- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

- Lp(A) - dBA levels are not licensed by AMCA International.
Adjustable Pitch Angle Axial Fan

FEG 63

50Hz

- Performance certified is for installation type D: Ducted inlet. Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
- Lp(A) - dBA levels are not licensed by AMCA International.
Adjustable Pitch Angle Axial Fan

FEG 63

**Performance certified is for installation type D-Ducted inlet. Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).**

**The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.**

**Lp(A) - dBA levels are not licensed by AMCA International.**
SERIES FTFA 1250-6
Impeller Code : 1250/350
Size : 1250mm
Outlet Area : 1.227m²

Adjustable Pitch Angle Axial Fan

FEG 67

50Hz

Absorbed Power [kW]

Static Pressure [Pa]

Lw(A) in dBA

Speed [rpm]

Peak Absorbed Power [kW]

Blade Pitch Angle

Air Volume [m³/h]

N (rpm)

10° 12° 14° 16° 18° 20° 22° 24° 26° 28° 30° 32° 34° 36° 38° 40°

Lw(A) in dBA

Lp(A) at 3m

N (rpm)

720 motor

960 motor

1440 motor

Performance certified is for installation type D: Ducted inlet. Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Lp(A) - dBA levels are not licensed by AMCA International.
Adjustable Pitch Angle Axial Fan

FEG 67

Series FTFA 1250-12

Impeller Code: 1250/350
Size: 1250mm
Outlet Area: 1.227 m²

Peak Absorbed Power (kW)

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
<th>26°</th>
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Air Volume (m³/h)

Lw(A) in dBA at 3m

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<tr>
<td>17</td>
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<td>16.7</td>
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<td>2.24</td>
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<td>1.95</td>
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<td>1.67</td>
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<table>
<thead>
<tr>
<th>Lp(A) - dB levels are not licensed by AMCA International</th>
<th>Peak Absorbed Power (kW)</th>
<th>Air Volume (m³/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance certified is for installation type D. Ducted inlet. Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D, ducted inlet, ducted outlet. Ratings include the effects of duct end correction.</td>
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<tr>
<td>Lp(A) - dBA levels are not licensed by AMCA International</td>
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</tr>
</tbody>
</table>
Adjustable Pitch Angle Axial Fan

FEG 60

Absorbed Power (kW)

Static Pressure (Pa)

Lw(A) in dBA

Peak Absorbed Power (kW)

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
<th>25°</th>
<th>28°</th>
<th>30°</th>
<th>32°</th>
<th>34°</th>
<th>36°</th>
<th>38°</th>
<th>40°</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

* Performance certified is for installation type B. Free inlet. Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type B: Free inlet, ducted outlet.

* Lp(A) - dBA levels are not licensed by AMCA International.
Adjustable Pitch Angle Axial Fan

FEG 60

50Hz

Peek Absorbed Power (kW)

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
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<th>36°</th>
<th>38°</th>
<th>40°</th>
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<tbody>
<tr>
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</table>

- Performance certified is for installation type D: Ducted inlet. Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
- Lp(A) - dBA levels are not licensed by AMCA International.
Adjustable Pitch Angle Axial Fan

FEG 50

Absorbed Power [kW]

Static Pressure [Pa]

Peak Absorbed Power (kW)

Blade Pitch Angle

Air Volume [m³/h]

N (rpm) | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° | 40°
<table>
<thead>
<tr>
<th></th>
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<tbody>
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</tbody>
</table>

- Performance certified is for installation type C: Ducted inlet. Free outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwA sound power levels for installation type C: ducted inlet, free outlet.
- Lp(A) - dBA levels are not licensed by AMCA International.
Adjustable Pitch Angle Axial Fan

FEG 53

Absorbed Power [kW]

Static Pressure [Pa]

Peak Absorbed Power [kW]

<table>
<thead>
<tr>
<th>N (rpm)</th>
<th>10°</th>
<th>12°</th>
<th>14°</th>
<th>16°</th>
<th>18°</th>
<th>20°</th>
<th>22°</th>
<th>24°</th>
<th>26°</th>
<th>28°</th>
<th>30°</th>
<th>32°</th>
<th>34°</th>
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<th>38°</th>
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<td>94.1</td>
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Lw(A) in dBA

Air Volume [m³/m]

- Performance certified is for installation type C - Ducted inlet. Free outlet. Performance ratings do not include the effects of appurtenances (accessories).

- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwoA sound power levels for installation type C: ducted inlet, free outlet.

- Lp(A) - dBA levels are not licensed by AMCA International.
### FTFA DIMENSIONS

<table>
<thead>
<tr>
<th>Size (kW)</th>
<th>Electric Motor (kW)</th>
<th>Flange Size</th>
<th>P.C.D</th>
<th>Approx. Weight (kg)</th>
<th>Approx. Weight (kg)</th>
<th>Max. Motor Frame Size</th>
</tr>
</thead>
<tbody>
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<td>315</td>
<td>FTFA 6P 4P 2P</td>
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<td>356 6</td>
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<td>CD</td>
<td>12 45 764 12</td>
<td>56 42</td>
<td>112M</td>
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<tr>
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<td>12 45 764 12</td>
<td>63 44</td>
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<tr>
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Note: All dimensions and weights are approximate and may vary. Actual measurements should be verified before installation.

*Weights given above exclude the weight of motor, base, and other attached components.*
### FTFA-Q SERIES DIMENSION

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<tr>
<th>Size</th>
<th>6P</th>
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<th>2P</th>
<th>nA</th>
<th>nB</th>
<th>OC</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>CG</th>
<th>Approx. Weight (kg)</th>
<th>Max Motor Frame Size</th>
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<td>99</td>
<td>132M</td>
<td></td>
</tr>
</tbody>
</table>

*Weight indicated above excludes the weight of motor hub and blades.*
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CNo. : FTFA-###

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