DESCRIPTION
The BladeTec High Volume, Low Speed (HVLS) fans are designed to eliminate the build-up of hot stagnant air by maintaining constant air movement. They create a feeling of freshness that results in a more productive and comfortable environment.
BladeTec fans are effective at cooling occupants in large enclosed commercial spaces and can also be used in colder months to de-stratify a space by pushing hot air down from the ceiling space to help keep employees warmer.
The range comprises of a commercial series for smaller spaces and an Industrial series that caters for larger areas.

Typical Applications
Commercial: Retail spaces, health clubs, schools, religious facilities, restaurants, theatres, stadiums and airports.
Industrial: distribution and manufacturing facilities, dairy/livestock barns and factories.

Features
- High mounting position helps create a safer environment.
- Unique contour and twist blade design delivers a large volume of air.
- Eliminates the need for dangerous power cords and extension leads.
- Lightweight and durable aluminium and mill finished blades have been engineered for maximum air movement and low noise.
- Easy to use control panel adjusts fan speed (7 settings) and operates up to four fans in forward or reverse.
- Supplied with stabilizing cables, beam clamp and motor housing.
- Commercial series provides air movement up to 15 metres from the fans centre in all directions and is available in 3 sizes from 2440 to 3660mm (8' to 12').
- Industrial series provides air movement up to 29 metres from the fans centre in all directions and is available in 5 sizes from 2440 to 7320mm (8' to 24').
- Three-way motor-to-hub safety connection.

Construction
Powder coated steel hanger and motor mounts. Blades and hub are made from aluminium.

Motors
Commercial Series:
Electricity supply: 208 - 240V, single-phase, 50Hz
Type: AC motor, .75kW (1HP)

Industrial Series:
Electricity supply: 380 - 415V, three-phase, 50Hz
Type: AC motor, 1.5kW (2HP)

Testing
Air flow tests to ANSI/AMCA Standard 230-07

Wiring Diagram
Commercial fan: See page N-7, diagram DD8
Industrial fan: See page N-6, diagram DD1

SUGGESTED SPECIFICATION
The High Volume, Low Speed (HVLS) fans shall be of the BladeTec Commercial or Industrial Series as supplied by Fantech Pty Ltd and be of the model numbers shown on the schedule/drawings. Impeller blades shall be made of aluminium and shall feature a contour and twist design.
They shall include powder coated steel hangers and motor mounts, and a controller that switches the fan on and off, adjust fan speed and changes the fans rotation direction from forward to reverse.
All models shall be fully tested to ANSI/AMCA Standard 230-07 for air flow.

HOW TO ORDER
BladeTec
I - 'Industrial'
C - 'Commercial'
Fan diameter in ft
**BladeTec Commercial Fans**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Max. Fan Speed rev/min</th>
<th>Air Flow m³/sec</th>
<th>Avg dBA*</th>
<th>1 phase Power kW</th>
<th>Amps</th>
<th>App. Wt. kg</th>
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</thead>
<tbody>
<tr>
<td>BTC-08</td>
<td>120</td>
<td>36</td>
<td>40-52</td>
<td>0.75</td>
<td>2.9</td>
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<td>BTC-10</td>
<td>100</td>
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<td>40-52</td>
<td>0.75</td>
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<td>BTC-12</td>
<td>80</td>
<td>44</td>
<td>40-52</td>
<td>0.75</td>
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* Avg. dBA depends on fan speed. Measured 6100mm below and 6100mm from the fan’s centre.

**BladeTec Industrial Fans**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Max. Fan Speed rev/min</th>
<th>Air Flow m³/sec</th>
<th>Avg dBA*</th>
<th>3 phase Power kW</th>
<th>Amps</th>
<th>App. Wt. kg</th>
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<tr>
<td>BTI-08</td>
<td>152</td>
<td>38</td>
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<td>BTI-12</td>
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<td>BTI-16</td>
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* Avg. dBA depends on fan speed. Measured 6100mm below and 6100mm from the fan’s centre.

**DIMENSIONS**

**BladeTec Commercial Fan**

Model Number

BTC-08
BTC-10
BTC-12

Dimensions, mm

<table>
<thead>
<tr>
<th>OA</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<td>696</td>
<td>1016</td>
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<td>3660</td>
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**BladeTec Industrial Fan**

Model Number

BTI-08
BTI-12
BTI-16
BTI-20
BTI-24

Dimensions, mm

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<thead>
<tr>
<th>OA</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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**VELOCITY PROFILE**

**BladeTec Commercial Fans**

BTC-08
BTC-10
BTC-12

Area A
Area B
Area C

**BladeTec Industrial Fans**

BTC-08
BTC-10
BTC-12

Area A
Area B
Area C
Area D

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Max. Fan Speed rev/min</th>
<th>Air Velocity m/s</th>
<th>Perceived cooling degrees °C</th>
<th>Area of influence per fan’s sizes (Diameter in meters)</th>
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<td>3.0 4.6 6.0</td>
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<tr>
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<td>80</td>
<td>2 to 3</td>
<td>18.0</td>
<td>18.0 24.4 30.4</td>
</tr>
</tbody>
</table>

**COOLING AND DE-STRATIFICATION FANS**

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