DYNAIR® is the industrial division of Maico Italia S.p.A. and is a well known brand name at global level in the industrial ventilation and plant engineering sector. Technological expertise, high production capacities, strong research and investment policies together with a personalized back-up service focused on customer needs have, for over 30 years, been the qualities that distinguish our company: Italian excellence renowned throughout the world and an industrial concern fortified by belonging to Maico Holding GmbH, the German group that leads the way in the ventilation industry.

Experience and high technology at your service
Living in a market in continuous evolution, DYNAIR® bases its force on a step by step project follow-up in close collaboration with the customer to create tailored and highly reliable solutions.

The latest addition to the ever evolving DYNAIR® range of products is the DCE range where blower of SISW fan inside a cabinet.

DYNAIR’s products follow stringent policy of research and development. With safety as a priority during production, all products use top quality components that meet the relevant standards.

Our Total Quality policy is ensured by standard working procedures, with tests and inspections during all production phases.

DYNAIR is ISO 9001: 2000 certified. With our production capability, wide range of finished products and components warehouse, we ensure quick delivery to all our customers. Our staff is trained and dedicated to provide before and after technical plus sales services.

GENERAL DESCRIPTION
The fan of the DCE Series are particularly designed for installation where it is mandatory to guarantee an uninterrupted air exhaust even in case of failure. Its done by mean of fan in duty and another one in stand by which starts automatically in case of breakdown of the first fan. Duty and stand-by fans can be manually exchanged with a dedicated control panel, available in different versions(Automatic Changeover panel AG).

CONSTRUCTION FEATURES
- Cabinet is manufacture in galvanized/Aluminium sheet, removable access panel on Right side while viewing from inlet to allow easy acces to fan and motor.
- Acoustic lining in self-extinguishing techno polymer. (UL 94 HF1 polyurethane)
- Double inlet Blower, Forward curved, with direct drive built-in asynchronous Motor, single phase, particularly suitable for speed regulation (using the suitable speed regulator shown in the catalogue).
- The blower is fitted using suitable support feet.
Performance Curve

Direct drive

- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B: free inlet and ducted outlet.

**Technical Data for DCE 50 A**

<table>
<thead>
<tr>
<th>Model</th>
<th>Q (CMH)</th>
<th>POWER (watts)</th>
<th>A (amp)</th>
<th>V / P / Hz</th>
<th>IP / CL</th>
<th>uF</th>
<th>Lp dB(A) at 3m (Free Field)</th>
<th>Octave Band Frequency at max. airflow. Hz (Lw,dB)</th>
</tr>
</thead>
</table>

- Values shown are for inlet Lw Sound levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.
- The Sound power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
- Lp - dB(A) levels are not licensed by AMCA International.
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.

- Performance certified is for installation type B: free inlet and ducted outlet.

Technical Data for DCE 50 A

<table>
<thead>
<tr>
<th>Model</th>
<th>Q (CMH)</th>
<th>POWER (watts)</th>
<th>A (amp)</th>
<th>V / P / Hz</th>
<th>IP / CL</th>
<th>uF</th>
<th>Lp dB(A) at 3m (Free Field)</th>
<th>Octave Band Frequency at max. airflow Hz (Lw, dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCE 50 A</td>
<td>105</td>
<td>31.1</td>
<td>30</td>
<td>0.1</td>
<td>230/1/60</td>
<td>44</td>
<td>B</td>
<td>63, 125, 250, 500, 1K, 2K, 4K, 8K</td>
</tr>
</tbody>
</table>

- Values shown are for inlet Lwi Sound levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

- The Sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.

- Lp - dB(A) levels are not licensed by AMCA International.
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B: free inlet and ducted outlet.

**Technical Data for DCE 100 A**

<table>
<thead>
<tr>
<th>Model</th>
<th>Q (CMH)</th>
<th>POWER (watts)</th>
<th>A (amp)</th>
<th>V / P / Hz</th>
<th>IP / CL</th>
<th>uF</th>
<th>Lp dB(A) at 3m (Free Field)</th>
<th>Octave Band Frequency at max. airflow</th>
<th>Hz (Lw, dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCE 100 A</td>
<td>95</td>
<td>35.7</td>
<td>35</td>
<td>0.2</td>
<td>220-240/1/50</td>
<td>44 / B</td>
<td>1.5</td>
<td>40</td>
<td>63</td>
</tr>
</tbody>
</table>

- Values shown are for inlet Lw; Sound levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.
- The Sound power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
- Lp - dB(A) levels are not licensed by AMCA International.
**DCE 100 A**

**Performance Curve**

- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B: free inlet and ducted outlet.

**Technical Data for DCE 100 A**

<table>
<thead>
<tr>
<th>Model</th>
<th>Q (CMH)</th>
<th>POWER (watts)</th>
<th>A (amp)</th>
<th>V / P / Hz</th>
<th>IP / CL</th>
<th>uF</th>
<th>Lp dB(A) at 3m (Free Field)</th>
<th>Octave Band Frequency at max. airflow (Hz, dBA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCE 100 A</td>
<td>112.2</td>
<td>36.5</td>
<td>37</td>
<td>0.2</td>
<td>230/1/60</td>
<td>44 / B</td>
<td>1.5</td>
<td>63, 125, 250, 500, 1K, 2K, 4K, 8K</td>
</tr>
</tbody>
</table>

- Values shown are for inlet Lvl Sound levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.
- The Sound Power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
- Lp - dB(A) levels are not licensed by AMCA International.
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B: free inlet and ducted outlet.

**Technical Data for DCE 100 B**

<table>
<thead>
<tr>
<th>Model</th>
<th>Q (CMH)</th>
<th>POWER (watts)</th>
<th>A (amp)</th>
<th>V / P / Hz</th>
<th>IP / CL</th>
<th>uF</th>
<th>Lp (dB(A)) at 3m (Free Field)</th>
<th>Octave Band Frequency at max. airflow (Hz) (Lw,dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCE 100 B</td>
<td>173.4</td>
<td>29.6</td>
<td>30</td>
<td>220-240/1/50</td>
<td>44 / B</td>
<td>1</td>
<td>37</td>
<td>63 125 250 500 1K 2K 4K 8K</td>
</tr>
</tbody>
</table>

- Values shown are for inlet Lw Sound levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.
- The Sound power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
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- Performance certified is for installation type B: free inlet and ducted outlet.

### Technical Data for DCE 100 B

<table>
<thead>
<tr>
<th>Model</th>
<th>Q (CMH)</th>
<th>POWER (watts)</th>
<th>A (amp)</th>
<th>V / P / Hz</th>
<th>IP / CL</th>
<th>uF</th>
<th>Lp dB(A) at 3m (Free Field)</th>
<th>Octave Band Frequency at max. airflow (Hz (Lw,dB))</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCE 100 B</td>
<td>175.1</td>
<td>35.5</td>
<td>35</td>
<td>230/1/60</td>
<td>44 / B</td>
<td>1</td>
<td>37</td>
<td>63 125 250 500 1K 2K 4K 8K</td>
</tr>
</tbody>
</table>

- Values shown are for inlet Lwi. Sound levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.
- The Sound power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
- Lp - dB(A) levels are not licensed by AMCA International.
### DCE 200 A

#### Performance Curve

- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B: free inlet and ducted outlet.

#### Direct drive

- **230 V - 50 Hz**
- **Nominal RPM - 2622**
- **Max Motor Input Power - 80.9 w**

#### Technical Data for DCE 200 A

<table>
<thead>
<tr>
<th>Model</th>
<th>Q (CMH)</th>
<th>POWER (watts)</th>
<th>A (amp)</th>
<th>V / P / Hz</th>
<th>IP / CL</th>
<th>uF</th>
<th>Lp dB(A) at 3m (Free Field)</th>
<th>Octave Band Frequency at max. airflow. Hz (Lw, dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCE 200 A</td>
<td>261.8</td>
<td>80.9</td>
<td>80</td>
<td>0.3</td>
<td>220-240/1/50</td>
<td>44 / B</td>
<td>2</td>
<td>43</td>
</tr>
</tbody>
</table>

- Values shown are for inlet L via Sound levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.
- The Sound power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
- Lp - dB(A) levels are not licensed by AMCA International.
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B: free inlet and ducted outlet.

**Technical Data for DCE 200 A**

<table>
<thead>
<tr>
<th>Model</th>
<th>Q (CMH)</th>
<th>POWER (watts)</th>
<th>A (amp)</th>
<th>V / P / Hz</th>
<th>IP / CL</th>
<th>uF</th>
<th>Lp dB(A) at 3m (Free Field)</th>
<th>Octave Band Frequency at max. airflow</th>
<th>H z (Lw,dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCE 200 A</td>
<td>278.8</td>
<td>101.1 / 100</td>
<td>0.4</td>
<td>230/1/60</td>
<td>44 / B</td>
<td>2</td>
<td>44</td>
<td>63 / 125 / 250 / 500 / 1K / 2K / 4K / 8K</td>
<td></td>
</tr>
</tbody>
</table>

- Values shown are for inlet type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.
- The Sound power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
- Lp - dB(A) levels are not licensed by AMCA International.
- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B: free inlet and ducted outlet.

**Technical Data for DCE 200 B**

<table>
<thead>
<tr>
<th>Model</th>
<th>Q (CMH)</th>
<th>POWER (watts)</th>
<th>A (amp)</th>
<th>V / P / Hz</th>
<th>IP / CL</th>
<th>uF</th>
<th>Lp dB(A) at 3m (Free Field)</th>
<th>Octave Band Frequency at max. airflow</th>
<th>Hz (Lw, dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- D 7/7 B</td>
<td>489.6</td>
<td>144.1</td>
<td>160</td>
<td>0.6</td>
<td>220-240/1/50</td>
<td>4/B</td>
<td>4</td>
<td>50</td>
<td>65</td>
</tr>
</tbody>
</table>

- Values shown are for inlet Lw. Sound levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.
- The Sound power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
- Lp dB(A) levels are not licensed by AMCA International.
**DCE 200 B**

**Performance Curve**

**Direct drive**

- Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of the inlet grille and backdraft damper.
- Performance certified is for installation type B: free inlet and ducted outlet.

**Technical Data for DCE 200 B**

<table>
<thead>
<tr>
<th>Model</th>
<th>Q (CMH)</th>
<th>POWER (watts)</th>
<th>A (amp)</th>
<th>V / P / Hz</th>
<th>IP / CL</th>
<th>uF</th>
<th>Lp (\text{dB(A)}) at 3m (Free Field)</th>
<th>Octave Band Frequency at max. airflow</th>
<th>Hz (Lw, dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCE 200 B</td>
<td>508.3</td>
<td>196.8</td>
<td>205</td>
<td>230/1/60</td>
<td>44 / B</td>
<td>4</td>
<td>50</td>
<td>67</td>
<td>73</td>
</tr>
</tbody>
</table>

- Values shown are for inlet Lvi Sound levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.
- The Sound power levels ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301.
- Lp - dB(A) levels are not licensed by AMCA International.
INSTALLATION GUIDE

Option 1

Option 2

False Ceiling
## ASSEMBLY DRAWING

![Diagram of DYNAIR® DCE assembly](image)

### Table of Dimensions

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>D1</th>
<th>E</th>
<th>E1</th>
<th>H</th>
<th>EGG GRATE GRILL FXG</th>
<th>WEIGHT (G1 cabinet) (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 A</td>
<td>200</td>
<td>200</td>
<td>180</td>
<td>42</td>
<td>82</td>
<td>56</td>
<td>86</td>
<td>30</td>
<td>220x220</td>
<td>6</td>
</tr>
<tr>
<td>100 A</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>46</td>
<td>77</td>
<td>51</td>
<td>82</td>
<td>30</td>
<td>220x220</td>
<td>6</td>
</tr>
<tr>
<td>100 B</td>
<td>200</td>
<td>200</td>
<td>230</td>
<td>50</td>
<td>92</td>
<td>76</td>
<td>107</td>
<td>30</td>
<td>220x220</td>
<td>6</td>
</tr>
<tr>
<td>200 A</td>
<td>230</td>
<td>230</td>
<td>250</td>
<td>50</td>
<td>92</td>
<td>76</td>
<td>107</td>
<td>30</td>
<td>250x250</td>
<td>6</td>
</tr>
<tr>
<td>200 B</td>
<td>250</td>
<td>250</td>
<td>300</td>
<td>92</td>
<td>134</td>
<td>94</td>
<td>125</td>
<td>30</td>
<td>270x270</td>
<td>6</td>
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