Twin City Fan & Blower

SOUND POWER LEVELS

PLENUM FANS
Models EPFN, EPF, EPQN, EPQ, ECLFN, ECLQN, EPLFN and EPLQN

Twin City Fan & Blower certifies that the Type EPFN, EPF, EPQN, EPQ, ECLFN, ECLQN, EPLFN and EPLQN Plenum Fans shown herein are 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.

Air performance ratings for models EPFN, EPF, EPQN and EPQ can be found in Catalog 470.

Air performance ratings for models EPLFN and EPLQN can be found in Catalog 455.

Air performance ratings for models ECLFN and ECLQN can be found in Catalog 456.
These sound power levels have been determined by laboratory tests in accordance with AMCA Standard 300-96. The sound power levels shown are decibel (dB) levels referred to $10^{-12}$ watts calculated per AMCA Standard 301. We have listed inlet and outlet values for eight octave bands with frequency ranges as shown below.

<table>
<thead>
<tr>
<th>OCTAVE BAND</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
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</thead>
<tbody>
<tr>
<td>FREQUENCY CENTER</td>
<td>45 to 90</td>
<td>90 to 180</td>
<td>180 to 355</td>
<td>355 to 710</td>
<td>710 to 1400</td>
<td>1400 to 2800</td>
<td>2800 to 5600</td>
<td>5600 to 11200</td>
</tr>
<tr>
<td>CENTER FREQUENCY</td>
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<td>1000</td>
<td>2000</td>
<td>4000</td>
<td>8000</td>
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</table>

Sound power levels (SPL) for the fans can be easily obtained using the Twin City Fan Selector Program. The SPL can also be obtained using the specific sound power level method described below:

**Sound Power Level of a fan**

Specific Sound Power Level (L_{wk}) + Capacity Fraction (M)

Use of this method will be illustrated by the following example using EPFN performance:

1. **How to determine L_{wk}**
   
   We have published values for L_{wk} at various speeds and operating points on pages 3 through 5 for both the inlet and outlet of the fan.

   The operating point is found by using a ratio of design CFM to the wide open volume (WOV) for a given RPM. The WOV can be calculated by multiplying fan RPM by the factors (Rf) shown in the table.

   Thus, WOV for 1000 RPM = 29.87 x 1000 = 29,870 CFM.

   Therefore, the operating point falls at 70% WOV (20,910 ÷ 29,870 x 100%). Referring to the table on page 5 for Size EPFN 365, the specific sound power levels can be read as follows:

   \[
   \begin{align*}
   L_{wk} \text{ inlet} & = 36 \quad 42 \quad 35 \quad 27 \quad 28 \quad 22 \quad 15 \quad 10 \\
   L_{wk} \text{ outlet} & = 35 \quad 39 \quad 36 \quad 33 \quad 33 \quad 28 \quad 21 \quad 15 
   \end{align*}
   \]

2. **How to determine M**

   The value of M can be taken from the table on page 6, or M can be calculated by:

   \[
   M = 10 \log_{10} \text{(CFM)} + 20 \log_{10} \text{TP}. \text{ For plenum fans, use SP for TP.}
   \]

   Thus, for 20,910 CFM and 3.14" SP, M is 53.

3. **Combining L_{wk} and M gives sound power levels.**

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<thead>
<tr>
<th>Octave Band</th>
<th>1</th>
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<th>4</th>
<th>5</th>
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</thead>
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<td>28</td>
<td>22</td>
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<td>75</td>
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<tr>
<td>L_{wk}</td>
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<td>33</td>
<td>28</td>
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<td>15</td>
</tr>
<tr>
<td>M</td>
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<td>53</td>
<td>53</td>
<td>53</td>
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<tr>
<td>SPL at outlet</td>
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### Outlet LwK Values — EPFN 122A–165A

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### Inlet LwK Values — ECLFN 165

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### Outlet LwK Values — EPFN 182–200

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### Installation Type A: free inlet, free outlet.

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### NOTES:

1. Values shown are for inlet LwK or outlet LwK sound power levels for Installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301.
### RPM % WOV OCTAVE BAND

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### RPM % WOV OCTAVE BAND

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<td>37 42</td>
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<td>50</td>
<td>27</td>
<td>37 42</td>
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</table>

### NOTES:
1. Values shown are for inlet Lwi or outlet Lwo sound power levels for Installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as $10^{-12}$ watts, calculated per AMCA International Standard 301.
# Twin City Catalog 475

## RPM % WOV OCTAVE BAND

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## 500 RPM % WOV OCTAVE BAND

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## 1000 RPM % WOV OCTAVE BAND

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<td>29 24 19 14</td>
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<tr>
<td>10</td>
<td>24</td>
<td>26 24 18 12</td>
</tr>
</tbody>
</table>

## NOTES:
1. Values shown are for inlet Lwi or outlet Lwo sound power levels for Installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as 10^-12 watts, calculated per AMCA International Standard 301.
<table>
<thead>
<tr>
<th>RPM</th>
<th>% WOV</th>
<th>OCTAVE BAND</th>
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<tbody>
<tr>
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<th>RPM</th>
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**NOTES:**
1. Values shown are for inlet Lnw or outlet Lwo sound power levels for installation Type A: free inlet, free outlet.
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3. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301.
### Inlet LWK Values — EPF 122A–165A

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### Outlet LWK Values — EPF 122A–165A

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### Notes:
1. Values shown are for inlet LWK or outlet LWK sound power levels for installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as 10⁻¹² watts, calculated per AMCA International Standard 301.
### Inlet LWK Values — EPF 222

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### Outlet LWK Values — EPF 222

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### NOTES:

1. Values shown are for inlet L\text{\textsubscript{W}} or outlet L\text{\textsubscript{W}} sound power levels for Installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as 10\textsuperscript{-12} watts, calculated per AMCA International Standard 301.
### Inlet LWK Values — EPF 270

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### Outlet LWK Values — EPF 270

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### Inlet LWK Values — EPF 300–330

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### Outlet LWK Values — EPF 300–330

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### Notes:
1. Values shown are for inlet LWK or outlet LWK sound power levels for Installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301.
### Inlet L<sub>WK</sub> Values — EPF 365–890

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### Outlet L<sub>WK</sub> Values — EPF 365–890

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**NOTES:**
1. Values shown are for inlet L<sub>Wi</sub> or outlet L<sub>Wo</sub> sound power levels for Installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as 10^-12 watts, calculated per AMCA International Standard 301.
### Inlet LwK Values — EPQN 122A–165A
#### ECLQN 165
#### EPLQN 122–165

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### Outlet LwK Values — EPQN 122A–165A
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#### EPLQN 122–165

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### Inlet LwK Values — EPQN 182–200
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#### EPLQN 182–200

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### Outlet LwK Values — EPQN 182–200
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#### EPLQN 182–200

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**NOTES:**
1. Values shown are for inlet LwK or outlet LwK sound power levels for installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. Sound power level ratings shown are in decibels, calculated per AMCA International Standard 301.
### Inlet LWK Values — EPQN 222

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### Outlet LWK Values — EPQN 222

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### Inlet LWK Values — EPQN 245

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### Outlet LWK Values — EPQN 245

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### Notes:
1. Values shown are for inlet $L_m$ or outlet $L_{wo}$ sound power levels for Installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as $10^{-12}$ watts, calculated per AMCA International Standard 301.
### Inlet Lwk Values — EPQN 270

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### Outlet Lwk Values — EPQN 270

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### Inlet Lwk Values — EPQN 300–330

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### Outlet Lwk Values — EPQN 300–330

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### Notes:
1. Values shown are for inlet L_w or outlet L_w sound power levels for Installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as 10^{-12} watts, calculated per AMCA International Standard 301.
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**NOTES:**
1. Values shown are for inlet LWK or outlet LWK sound power levels for Installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as $10^{-12}$ watts, calculated per AMCA International Standard 301.
### Inlet LWK Values — EPQ 122A–165A

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**RPM**

- 4000
- 3500
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- 2500
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**% WOV**

- 90
- 80
- 70
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**Notes:**

1. Values shown are for inlet $L_{1W}$ or outlet $L_{1W}$ sound power levels for installation type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as $10^{-12}$ watts, calculated per AMCA International Standard 301.
### Inlet LWK Values — EPQ 222

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**Notes:**
1. Values shown are for inlet LWK or outlet LWK sound power levels for Installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as $10^{12}$ watts, calculated per AMCA International Standard 301.
Inlet LWK Values — EPQ 270

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Outlet LWK Values — EPQ 270

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Inlet LWK Values — EPQ 300–330

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Outlet LWK Values — EPQ 300–330

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Notes:
1. Values shown are for inlet LWK or outlet LWK sound power levels for Installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as 10⁻¹² watts, calculated per AMCA International Standard 301.
### Inlet $L_{WK}$ Values — EPQ 365–890

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### Outlet $L_{WK}$ Values — EPQ 365–890

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### NOTES:
1. Values shown are for inlet $L_{wi}$ or outlet $L_{wo}$ sound power levels for Installation Type A: free inlet, free outlet.
2. Ratings do not include the effects of duct end correction.
3. The sound power level ratings shown are in decibels, referred to as $10^{-12}$ watts, calculated per AMCA International Standard 301.
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**TWIN CITY FAN & BLOWER**  |  **WWW.TCF.COM**
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5959 Trenton Lane N  |  Minneapolis, MN 55442  |  Phone: 763-551-7600  |  Fax: 763-551-7601