Air Foil Fan
"DLAF" Series
July 2014
GENERAL INDEX

1. INTRODUCTION ---------------------------------- >> 2PAGE
2. AMCA SEAL INFORMATION ------------------------ >> 2PAGE

"DLAF" SERIES (AIR FOIL FAN)

1. ABOUT FANS ----------------------------------- >> 3PAGE
   Fan structure (구조)
   Product characteristic (특징)
   Model & Type
   Main Application (용도)

2. FAN SELECT METHOD ----------------------------- >> 4PAGE

3. AIR PERFORMANCE AND SOUND DATA -------------- >> 5 ~ 16PAGE

4. OVERALL DIMENSIONS ----------------------------- >> 17PAGE
GREETINGS

귀사의 무궁한 발전을 기원합니다.
메사는 송풍기(BLOWER) 전문업체로서 날로 고도화 되어 가는 기계 산업 사회의 일익을 담당코자 성실과 인내로 끝임없이 노력하고 있습니다.
구르는 돌이 이끼가 까지 않듯이 그동안 축적해온 경험과 기술을 바탕으로 설비기간의 성능, 내구성, 안전성 등 기계제품 만들기에 정성을 다하고 있습니다.
여러분의 성원에 보답하겠습니다. 감사합니다.

(주)대림풍력 임직원 일동

(주)대림풍력이 획득한 DLAF SERIES AIR FOIL FAN 의 AMCA SEAL에 대한 내용입니다.
등급표시는 AMCA 211과 AMCA 311에 의거 테스트 및 절차에 따른 것 이며, AMCA 보증프로그램의 요구사항과 일치합니다.

DAE LIM PUNG RYUCK Co., LTD certifies that the type "DLAF" airfoil Fans shown here in 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.
구조 및 형상

날개의 끝 부분이
회전방향의 뒤쪽으로 굽은
BACK WARD CURVE TYPE
(後曲傾) 구조로 박판을 절어서
유선형으로 형성됨.

대림풍력 AIR FOIL FAN 의 특징

1) 고효율 (High efficiency)
원심형 송풍기 중 가장 높은 효율을 가질며 50 ~ 300mmAg의 압력에 적합하도록 설계 되었다.
2) 저소음 (Low level sound)
유압 프레스에 의한 멜마유스 구조로 설계되고 IMPELLER로부터 CASING 토크구 까지의
STREAM LINE은 이상적인 형상으로 제작되어 있어 중래의 제품보다 소음이 낮다.
3) 설치공간 (Small space)
타 원심식 송풍기와 비교하여 동일 용량에 대한 크기가 가장 작어서 설치 면적이 작다.
4) 성능특성 (Special performance)
특성 극선상의 점업 곡선이 다른 원심 송풍기와 비교하여 완만하기 때문에 공량 변동에 따른 변화가
적다. 따라서 여러 개의 급배기구에서 급배기 할 경우 그 일부를 폐쇄 하여도 큰 영향을 받지 않는다.

MODEL & TYPE

- 구동방식 : V - BELT 구동형 (V-BELT Driven type)
  직결식 (Direct driven type - with coupling)
- 출입방식 : 싱글수송 (Single Suction), 더블수송 (Double Suction)
- 크기 : 임팩터 길 배경지름 기준 (#2.5호 ~ #18호)
- 베타형 지지방식 : 편측지지형, 평측지지형
- 부속장치 (Option) : SOUND CHAMBER, SUCTION GUIDE VANE
- 재질 : STEEL, STS

주요 용도

- 벨링, 공장의 난방, 일반 환기용, 열풍건조기용, 냉동장치용, 집진용
- CLEAN ROOM BOOTH 배기, 급기용
- 건조장치 및 원자력발전소, 국소 환기용
- 지하철 용기등급 배기용, AIR WASHER용
- 공기조화기 SUPPLY용
- 기타 일반산업용 강제 송풍장치 등
a. FAN 선택 방법 예제 (Select Method Example)

<table>
<thead>
<tr>
<th>AIR VOLUME</th>
<th>STATIC PRESSURE</th>
<th>FAN SPEED</th>
<th>TOTAL EFFICIENCY</th>
<th>SHAFT POWER</th>
<th>SOUND</th>
</tr>
</thead>
<tbody>
<tr>
<td>781 CMM</td>
<td>80.6 mmHg</td>
<td>1500 rpm</td>
<td>71.2 %</td>
<td>1.47 kW</td>
<td>91 dB</td>
</tr>
</tbody>
</table>

b. 팬 회전과 토큐방향 (Fan Rotation and Discharge)

The rotation and discharge of the fan is in accordance with AMCA standard 99-2406-03.w

The direction of rotation is determined from the drive side of the fan:

- **CW** - clockwise rotation
- **CCW** - center-clockwise rotation

모터 위치 (Motor Position)

The position of the motor for belt drive centrifugal fan is in accordance with AMCA standard 99-2407-03.

Location of motor is determined by facing the drive side of fan and designating the positions by letters W, X, Y, or Z.
### AIR PERFORMANCE AND SOUND DATA - DLAF #3SS

#### Graphical Representation

- **Static Pressure (Pa)** vs. **Start Power (kW)**
- **LwA (dB)** vs. **Air Flow (ft³/min)**

#### Table Representation

<table>
<thead>
<tr>
<th>Det</th>
<th>N (r/min)</th>
<th>Ps (Pa)</th>
<th>Q (m³/min)</th>
<th>H (kW)</th>
<th>etas (%)</th>
<th>LwA (dB)</th>
<th>Det</th>
<th>N (r/min)</th>
<th>Ps (Pa)</th>
<th>Q (m³/min)</th>
<th>H (kW)</th>
<th>etas (%)</th>
<th>LwA (dB)</th>
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#### Notes

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and/or Power Transmission Losses.
- Performance certified is for installation type B: Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances/accessories
- Power rating (KW) does not include transmission losses
- Values shown are for inlet LwA sound power levels for installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.
SINGLE SUCTION

AIR PERFORMANCE AND SOUND DATA - DLAF #3.5SS

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</table>

-Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
-Performance certified is for installation type B - Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included)
-Performance ratings do not include the effects of appurtenances (accessories)
-Power rating (Kw) does not include transmission losses
-Values shown are for (Inlet LwA) sound power levels for installation Type B : free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
-Totol Efficiency is not AMCA Licensed.

6  www.e-daelimfan.co.kr
AIR PERFORMANCE AND SOUND DATA - DLAF #4SS

- Efficiency ratings are for static (or fan total) and include (or exclude) bearing and/or Power Transmission Losses.
- Performance certified is for installation type B – Free Inlet, Ducted outlet Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances (accessories)
- Power rating (KW) does not include transmission losses
- Values shown are for (Lwa) sound power levels for installation Type B – free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.
SINGLE SUCTION

AIR PERFORMANCE AND SOUND DATA - DLAF #4.5SS

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and/or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet. Rating Method “A” (Constant Speed, Transmission Loss Not Included).
- Performance ratings do not include the effects of appurtenances/accessories.
- Power rating (KW) does not include transmission losses.
- Values shown are for (A) weighted sound power levels for installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per ASCA standard 301.
- Total Efficiency is not AMCA Licensed.

www.e-daelimfan.co.kr
SINGLE SUCTION

AIR PERFORMANCE AND SOUND DATA - DLA5#5S

- Efficiency ratings are for static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included).
- Performance ratings do not include the effects of appurtenances (accessories).
- Power rating (KW) does not include transmission losses.
- Values shown are for inlet LwIA sound power levels for installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA standard 201.
- Total Efficiency is not AMCA Licensed.
SINGLE SUCTION

AIR PERFORMANCE AND SOUND DATA - DLAF #5.5SS

- Efficiency ratings are fan static (fan total) and include (or exclude) bearing and/or Power Transmission Losses.
- Performance certified for installation type B - Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Losses Not Included).
- Performance ratings do not include the effects of appurtenances (accessories).
- Power rating (KW) does not include transmission losses.
- Values shown are for ( inlet LwIA) sound power levels for installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.

www.e-daelimfan.co.kr
Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.

Performance certified is for installation type B - Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included)

Performance ratings do not include the effects of appurtenances (accessories)

Power rating (KW) does not include transmission losses.

Values shown are for (det LwA) sound power levels for installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA standard 301.

Total Efficiency is not AMCA Licensed.
### SINGLE SUCTION

**AIR PERFORMANCE AND SOUND DATA - DLAF #6.5SS**

![Graph showing performance data with curves for Static Pressure (Pa) vs. Static Flow (m³/min) and Lwa (dB) vs. Static Flow (m³/min).](image)

<table>
<thead>
<tr>
<th>Det</th>
<th>N [r/min]</th>
<th>Pₛ [Pa]</th>
<th>Q [m³/min]</th>
<th>H [Kw]</th>
<th>etas [%]</th>
<th>Lwa [dB]</th>
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- Efficiency ratings are fan static (or fan output) and include for exclusive bearing and or Power Transmission Losses.
- Performance certified is for installation type B = Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included).
- Performance does not include the effects of apportionments (accessories).
- Power rating (kw) does not include transmission losses.
- Values shown are for inlet (Lwa) sound power levels for installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA Standard 301.

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SINGLE SUCTION

AIR PERFORMANCE AND SOUND DATA - DLA#7SS

- Efficiency ratings are fan static (not fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B: Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances (accessories)
- Power rating (KW) does not include transmission losses
- Values shown are for inlet Lwa (dB) sound power levels for installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.
SINGLE SUCTION

AIR PERFORMANCE AND SOUND DATA - DLAF #8SS

- Efficiency ratings are for static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included).
- Performance ratings do not include the effects of appurtenances (accessories)
- Power rating (KW) does not include transmission losses.
- Values shown are for inlet Lw(A) sound power levels for installation Type B: Free inlet, Ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA standard 301.

Total Efficiency is not AMCA Licensed.

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AIR PERFORMANCE AND SOUND DATA - DLAF #9SS

--- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.  
--- Performance certified is for installation type B – Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included)  
--- Performance ratings do not include the effects of appurtenances/accessories.  
--- Power rating (KW) does not include transmission losses.  
--- Values shown are for (inlet LwIA) sound power levels for installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA standard 301.  
--- Total Efficiency is not AMCA Licensed.
SINGLE SUCTION

AIR PERFORMANCE AND SOUND DATA - DLAF #10SS

Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.

Performance certified is for installation type B - Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included)
Performance ratings do not include the effects of appurtenances (accessories)
Power rating (KW) does not include transmission losses

Values shown are for inlet LwA sound power levels for installation Type B - free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.

Total Efficiency is not AMCA Licensed.

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### OVERALL DIMENSION - "DLAF" SERIES

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