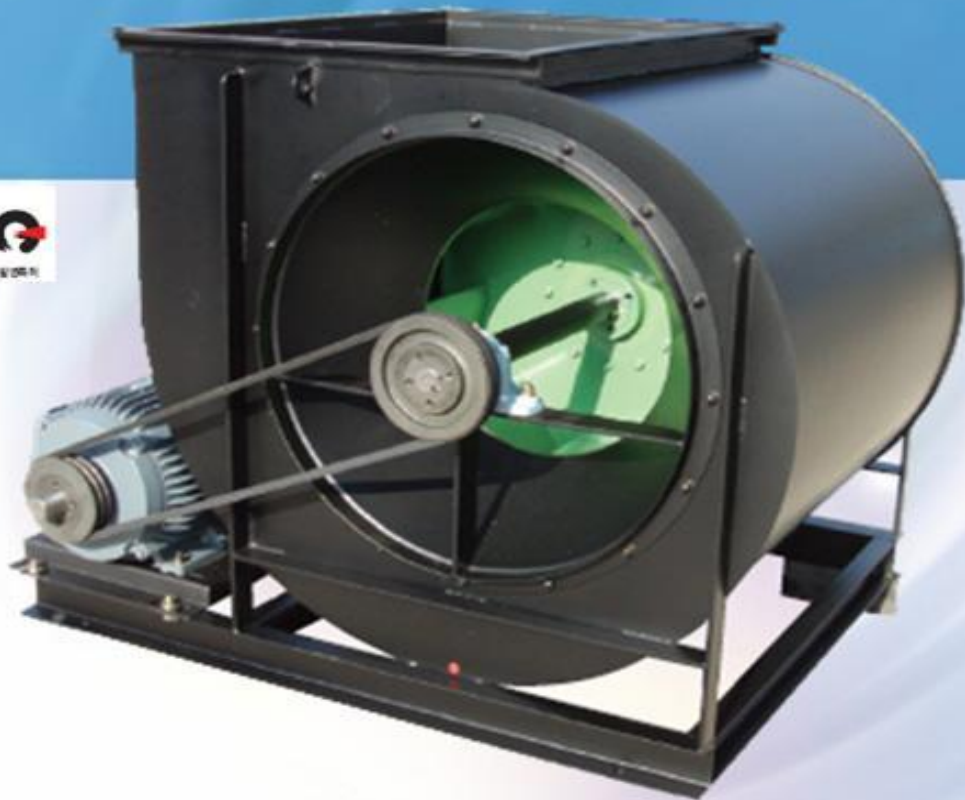


# Air foil Fan

## DOUBLE SUCTION

### DAD Series      DAD-315F~2000F

February 2023





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## Introduction

대림기공은 35년간의 축적된 경험과 기술을 바탕으로 1998년 설립한 공조용 및 산업용송풍기 전문생산업체입니다.

산업경제가 급격히 성장 발전하면서 그에 따른 환경과 에너지문제에 관심이 폭발적으로 증가하고 쾌적한 생활환경을 위하여 송풍기의 설치 및 사용이 증가하고 있습니다.

에너지절감과 친환경 제품의 시대적 요구에 따라 고효율의 제품을 공급하고자 지속적인 연구개발과 기술혁신으로 완벽한 품질과 철저한 품질관리로 고객만족을 위해 최선을 다할 것을 약속합니다.

## AMCA Seal Information



국제공기유동 및 제어 협회(AMCA)는 세계 공조시스템 설비 제조업체의 비영리 협회입니다. 또한, 협회는 산업용, 상업용, 주거용 시장의 FAN, 루버, 댐퍼, 에어커튼, 공기 측정 장소, 음향 감쇠기 등의 다른 공조 시스템 구성요소도 포함합니다.

협회의 목표는 공기 유동 및 제어 산업의 번영과 공공의 이익과 성장을 촉진하는 것입니다.

AMCA는 공조산업을 위해 자체 규정을 제시합니다.

FAN, 댐퍼, 루버 구매자는 AMCA 국제 인증의 의미를 인식하고 있을 필요가 있습니다.

대림기공의 원심형 퀘은 인증에 근거하여 AMCA SEAL이 부착됩니다.

표시된 등급은 발행물 211과 AMCA 발행물 311과 AMCA 등급인증 프로그램(AMCA CRP)

필요조건에 따라 실험 및 절차가 진행되는 것을 근거로 한다.

표시된 성능은 흡입구, 덕트 토출구로 설치된 B타입 입니다. 성능 비율은 부속품 영향을 받는 것을 포함하지 않으며 동력 비율 kW는 운전손실을 포함하지 않는다.

The Air Movement and Control Association (AMCA) International, Inc. is a not-for-profit international association of the world's manufacturers of related air system equipment primarily, but not limited to: fans, louvers, dampers, air

curtains, airflow measurement stations, acoustic attenuators, and other air system components for the industrial, commercial and residential markets.

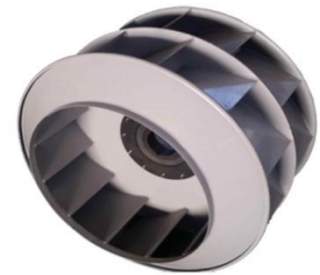
The association's mission is to promote the health and growth of the air movement and control industry consistent with the interest of the public. AMCA International is a valuable resource and a strong means of self regulation for our industry. People who buy and specify fans, dampers, and louvers need to be aware of the value of the AMCA International seal.

Daelim Mechanical Co. certifies that the DAD-F Series Centrifugal 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.

#### 영상

- \*날개 거의 길이가 길고 폭이 좁다.
- \*날개의 기 면이 외전방향의 뒤쪽으로 곡선을 이룬  
Airfoil 영상의 익형 날개 적용
- \*날개 매수가 타 기종 보다 적다.



#### 특징

- \*BLADE 단면은 익형으로 익근차압의 공기난류가 적어 소음이 적고 정숙한 운전이 된다.
- \*원심형 송풍기 중 Fan 효율이 가장 높아 소비전력이 적다.
- \*일정 외전수 아래에서는 소요동력에 최대점이 있으므로 그 점에서 풍량이 다시 증가해도 소요동력은 증가하지 않고 오히려 감소)이 있으므로 과부하율이 적다.
- \*50~300mmAq의 비교적 높은 정압으로 설계되었으며 일반적으로 100~150mmAq의 범위에서 많이 사용되어지고 있다.

#### 용도

- 반도체장비, 크린룸 급배기용
- 공기조화기,지아첼 급배기용
- 건조장치 등 국소환기용
- 기타 일반산업용 강제 송풍장치



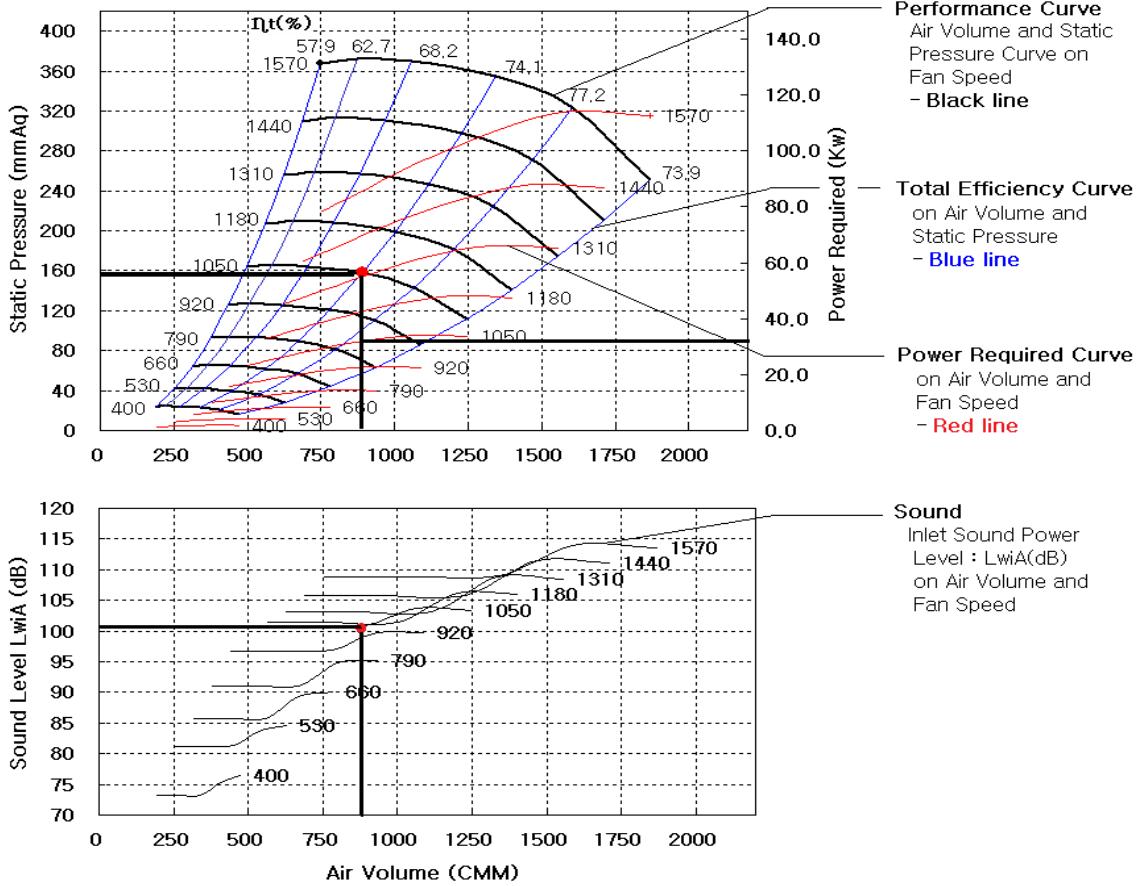
# How to read Air Performance Data-Typical example

Model Reference **DAD-1000F**

ex)

| Air Volume | Static Pressure | Fan Speed | Total Efficiency | Power Required | Sound |
|------------|-----------------|-----------|------------------|----------------|-------|
| CMM        | mmAq            | rpm       | %                | Kw             | dB    |
| 893        | 157             | 1050      | 74.1             | 32             | 101   |

Performance Data-1000F

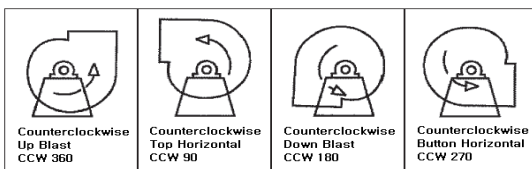


## Fan Rotation and Discharge

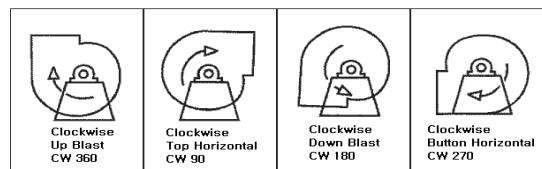
FAN의 회전과 토출방향은 AMCA 표준 99에 따릅니다.  
회전 방향은 Fan의 구동축으로 부터 결정됩니다.

The rotation and discharge of the fan is in accordance with AMCA standard 99.  
The direction of rotation is determined from the drive side of the fan.

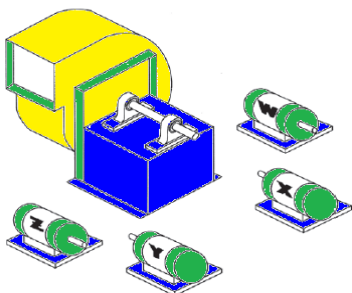
### CCW-counter-clockwise rotation



### CW-clockwise rotation



## Motor Position

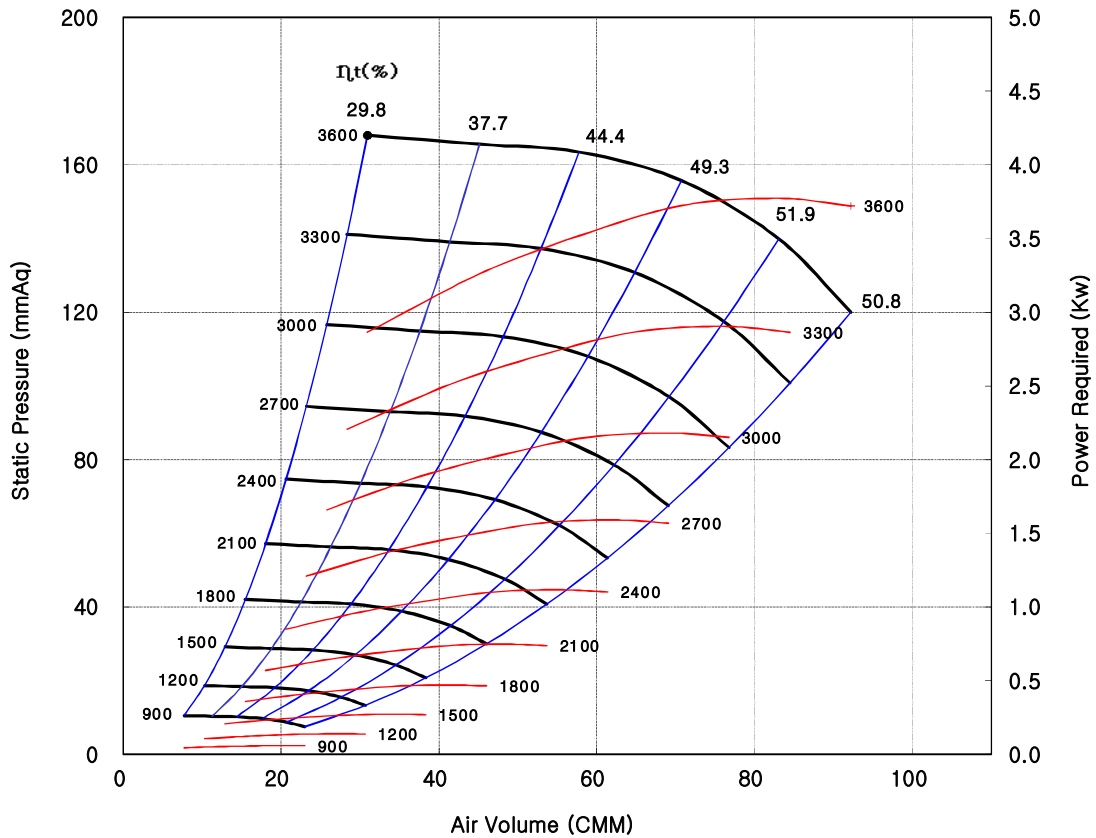


벨트 구동 원심형 팬의 모터 방향은 AMCA 표준 99에 따릅니다.  
모터의 위치는 팬의 구동축 면과 지정된 위치인 W,X,Y,Z 로 결정됩니다.

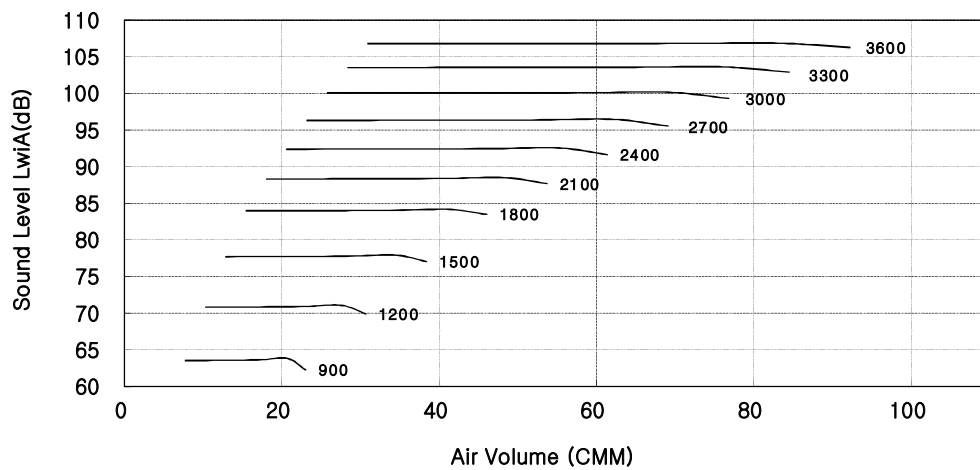
The position of the motor for belt drive centrifugal fan is in accordance with AMCA standard 99.  
Location of motor is determined by facing the drive side of fan and designating the positions by letters W, X, Y, or Z.

**Performance Curves Data**

**DAD-315F**



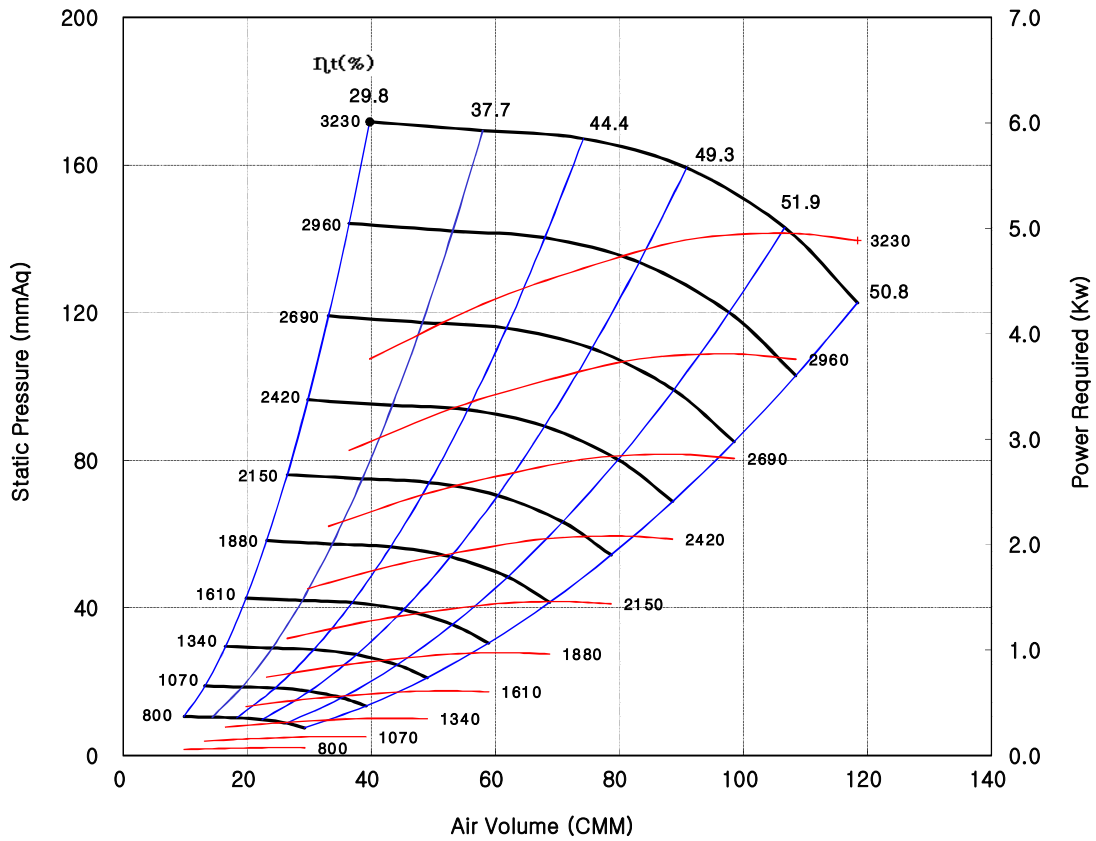
**Sound Power Level Data**



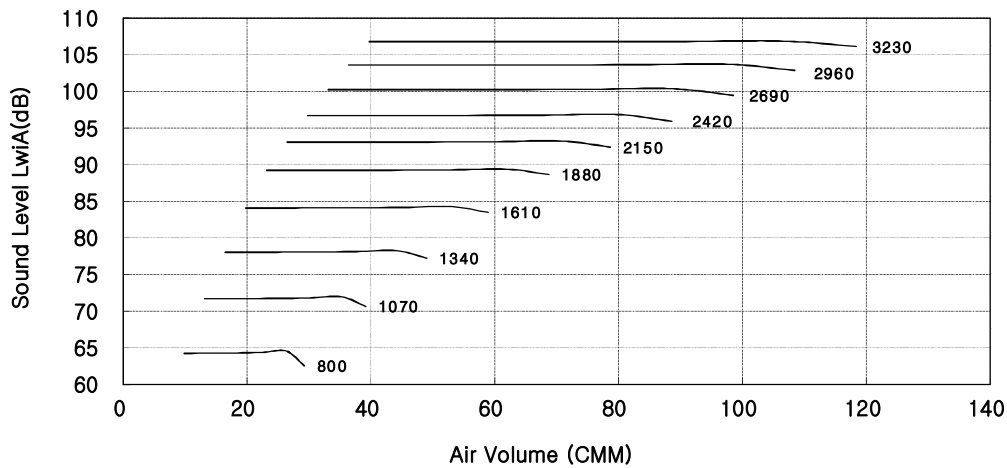
- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

**Performance Curves Data**

**DAD-355F**



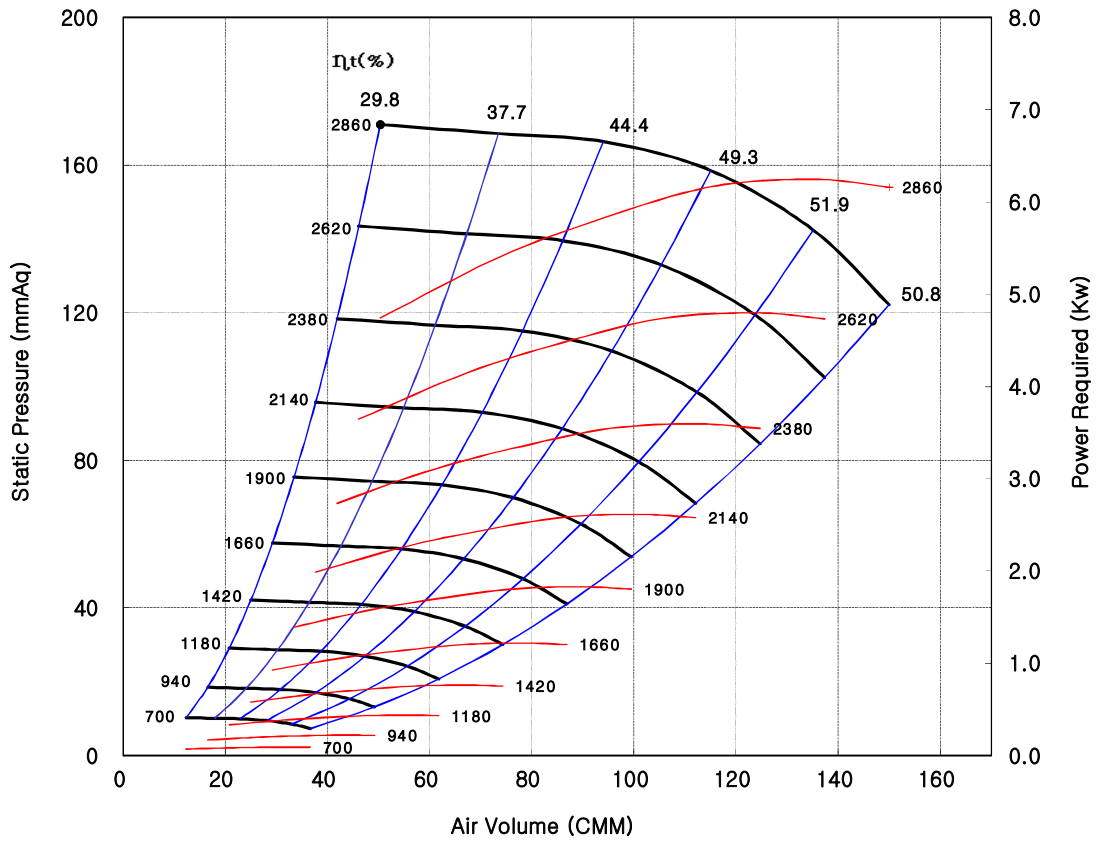
**Sound Power Level Data**



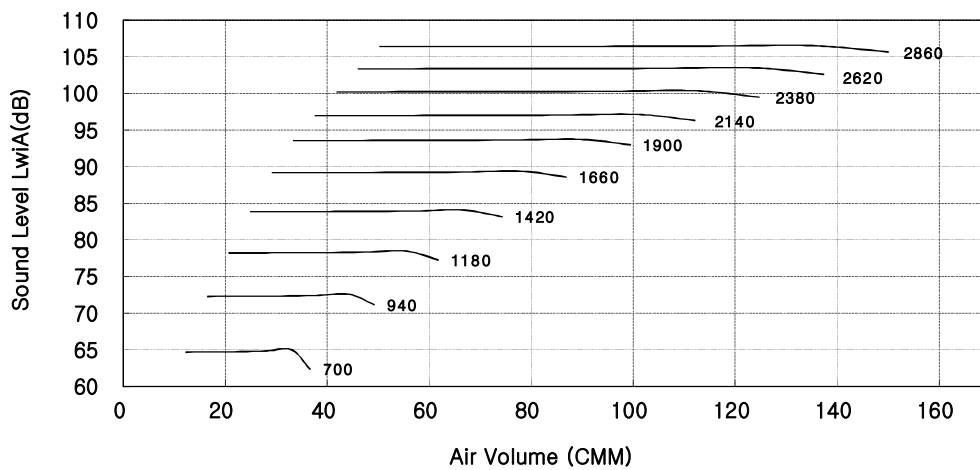
- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

**Performance Curves Data**

**DAD-400F**



**Sound Power Level Data**

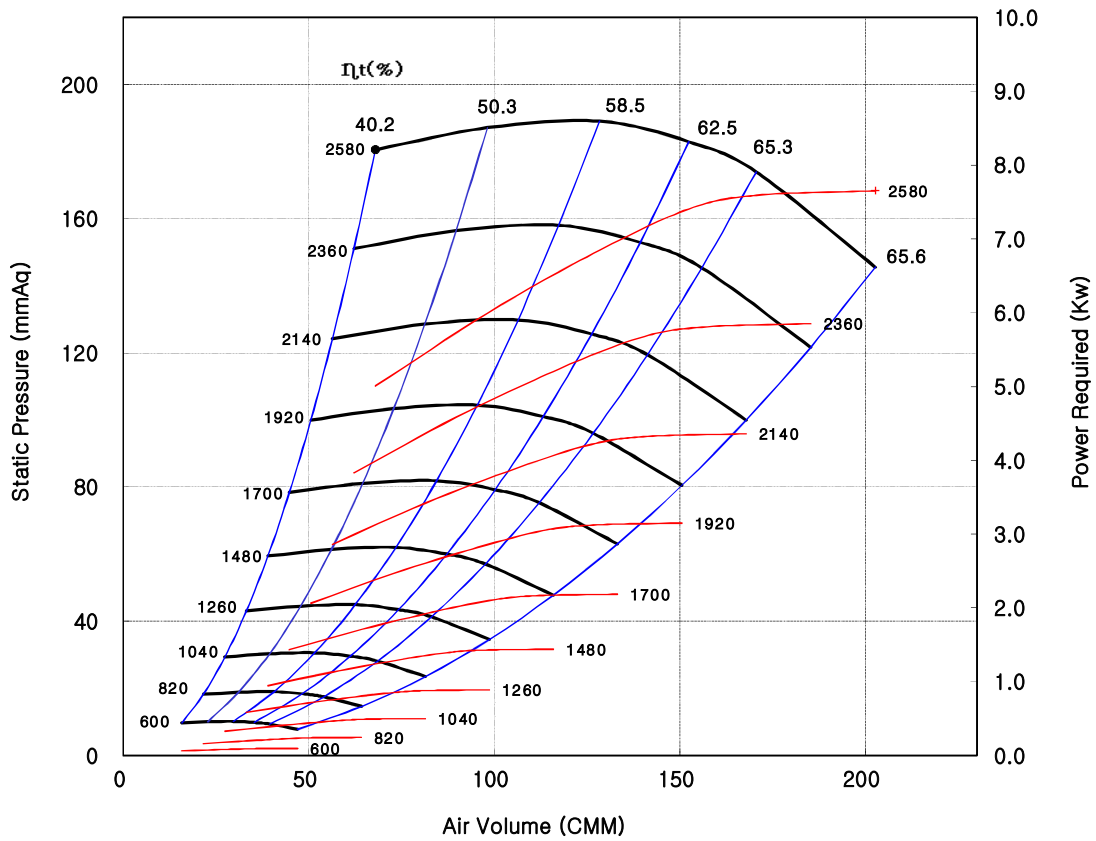


- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

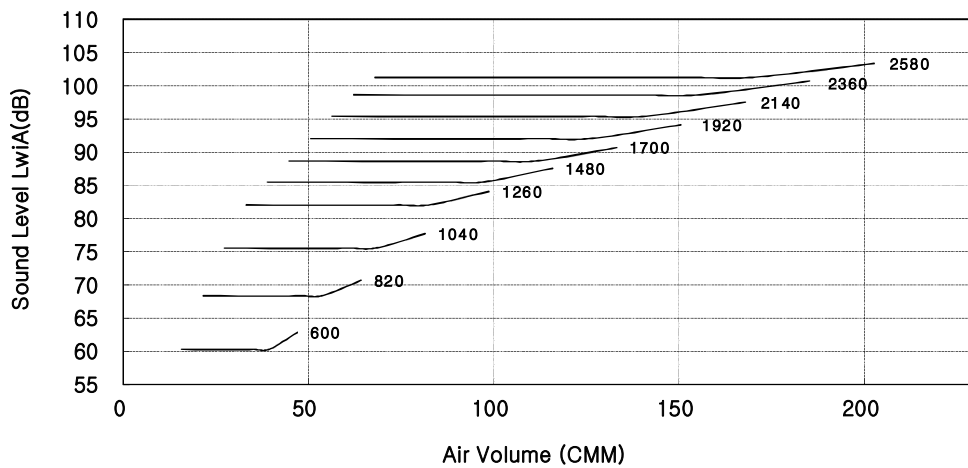


**Performance Curves Data**

**DAD-450F**



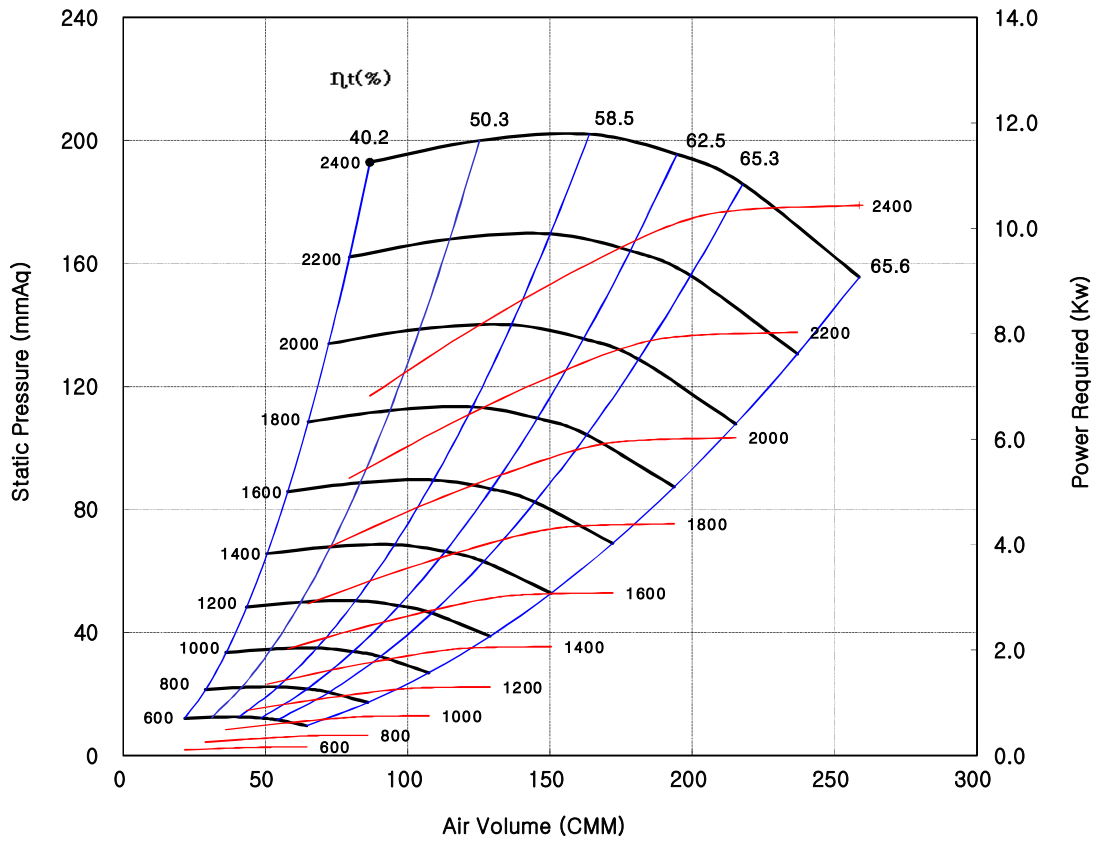
**Sound Power Level Data**



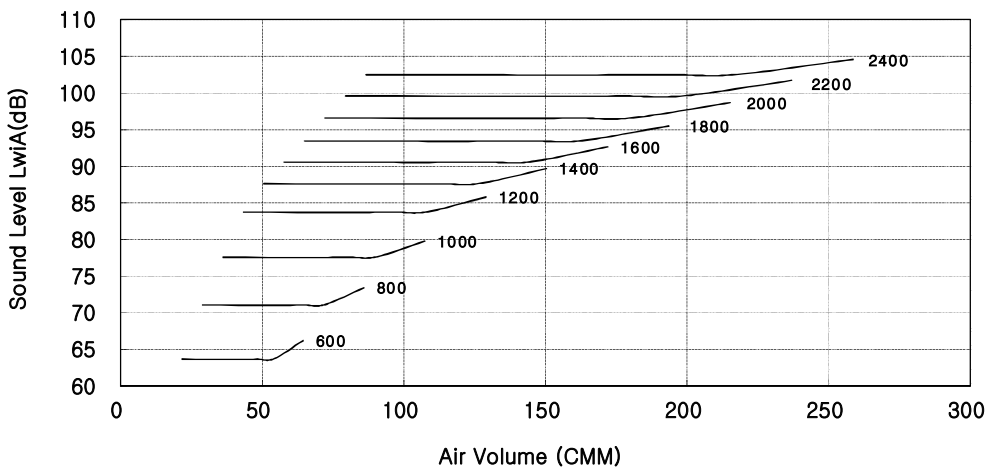
- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

**Performance Curves Data**

**DAD-500F**



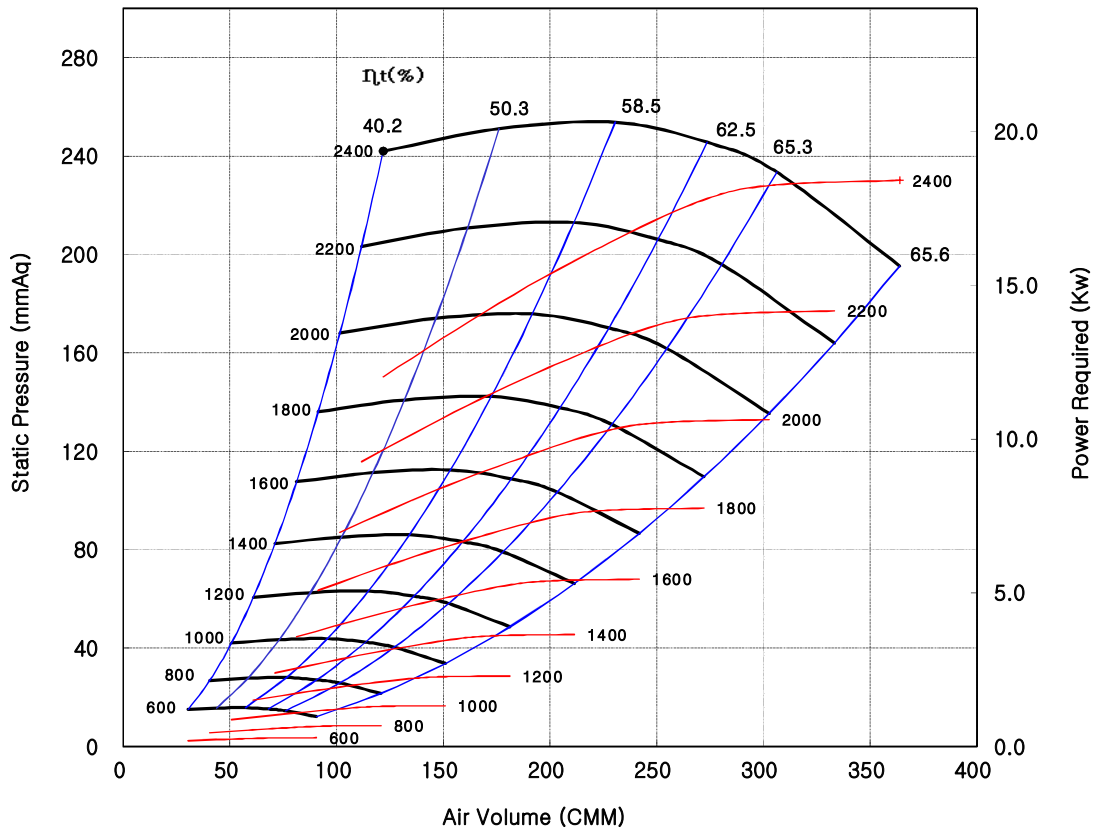
**Sound Power Level Data**



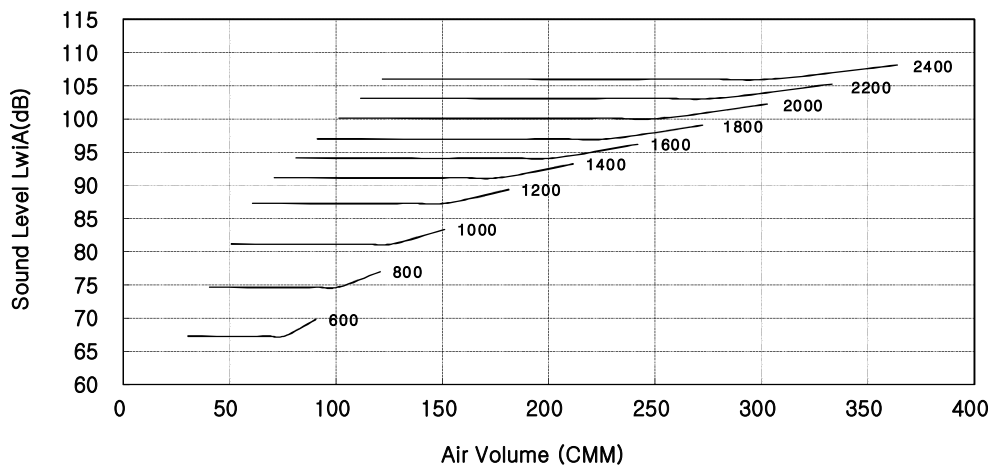
- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

**Performance Curves Data**

**DAD-560F**



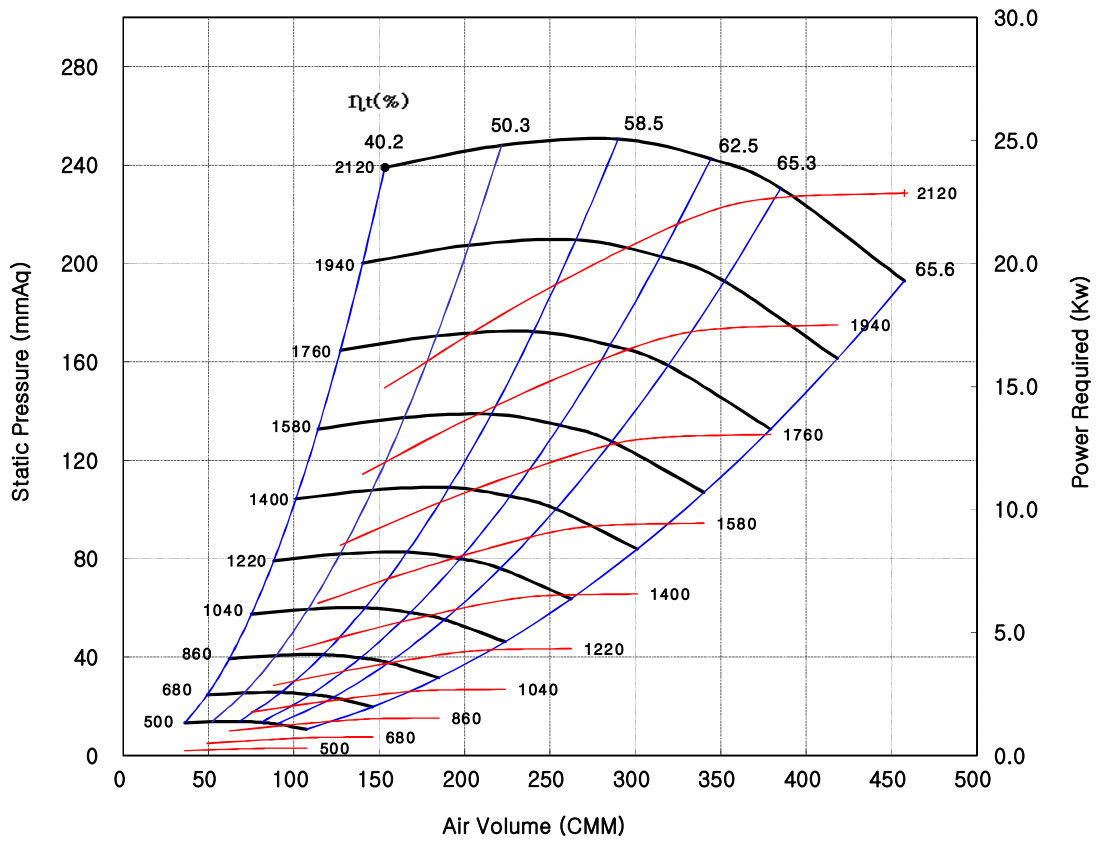
**Sound Power Level Data**



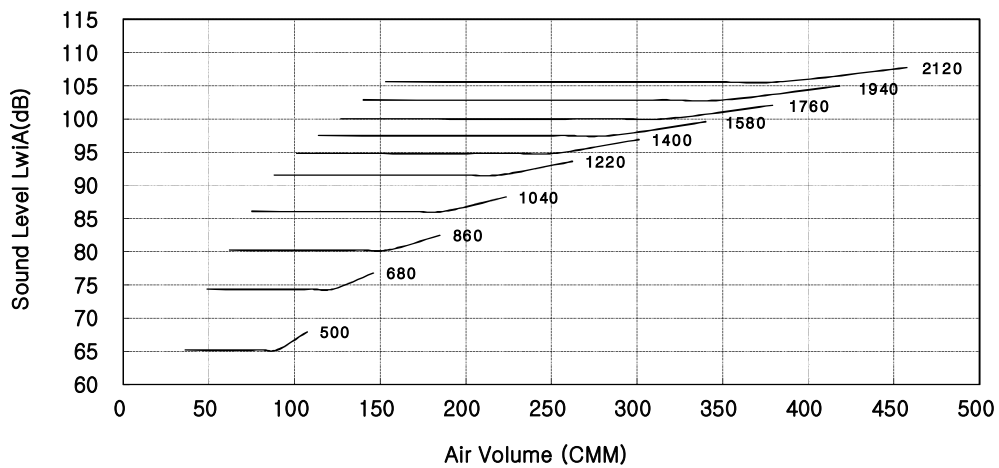
- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L<sub>wi</sub>(A) sound power levels for installation type B-free inlet, ducted outlet.

**Performance Curves Data**

**DAD-630F**



**Sound Power Level Data**

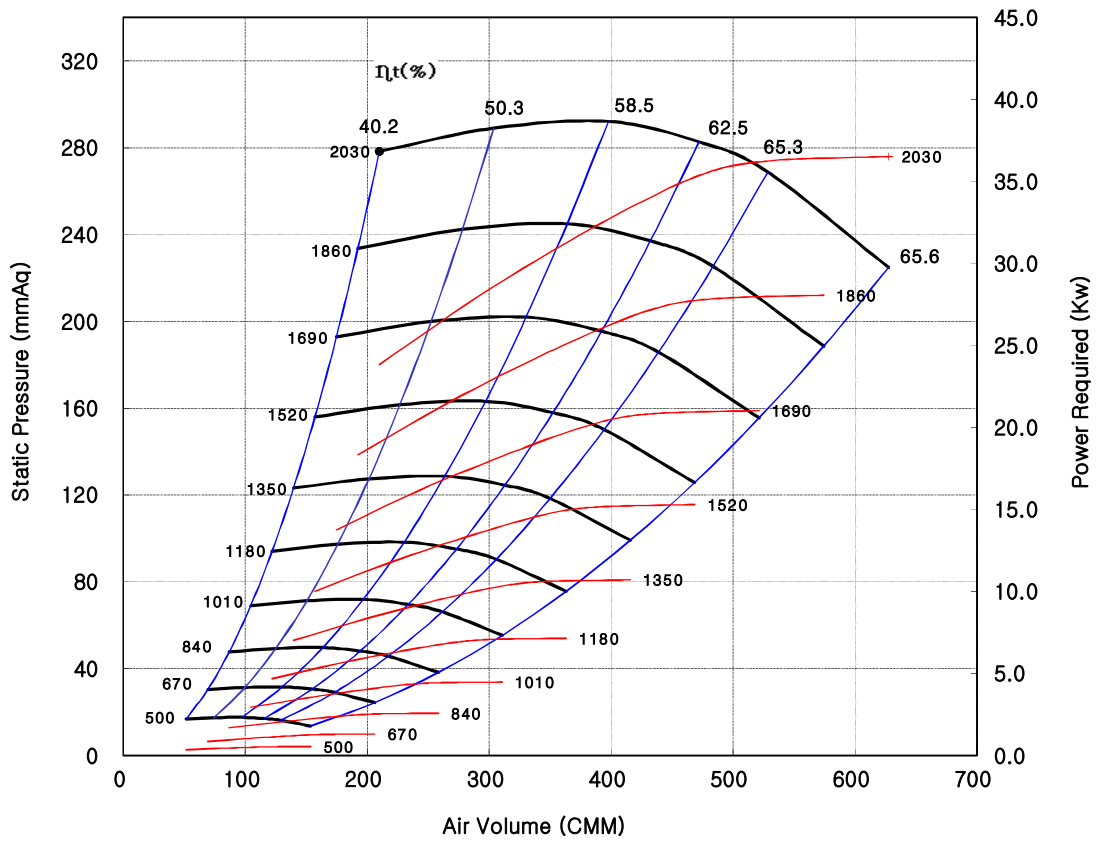


- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

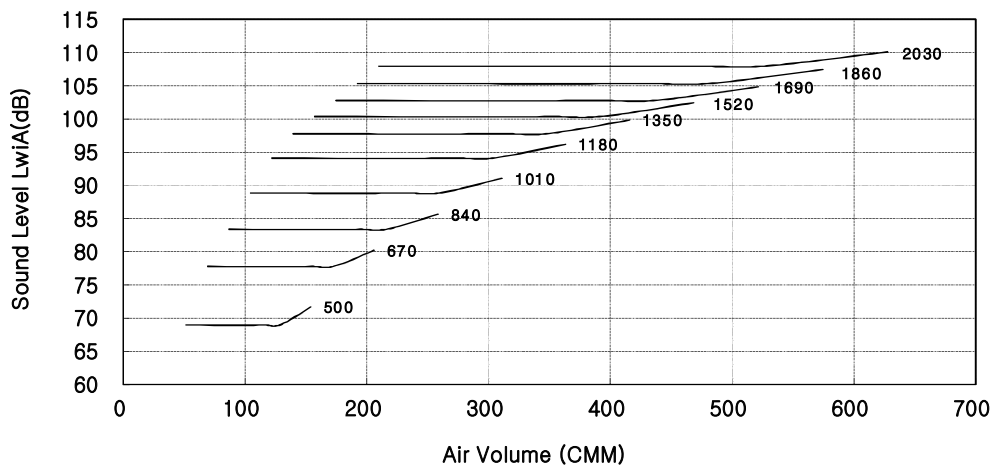


**Performance Curves Data**

**DAD-710F**



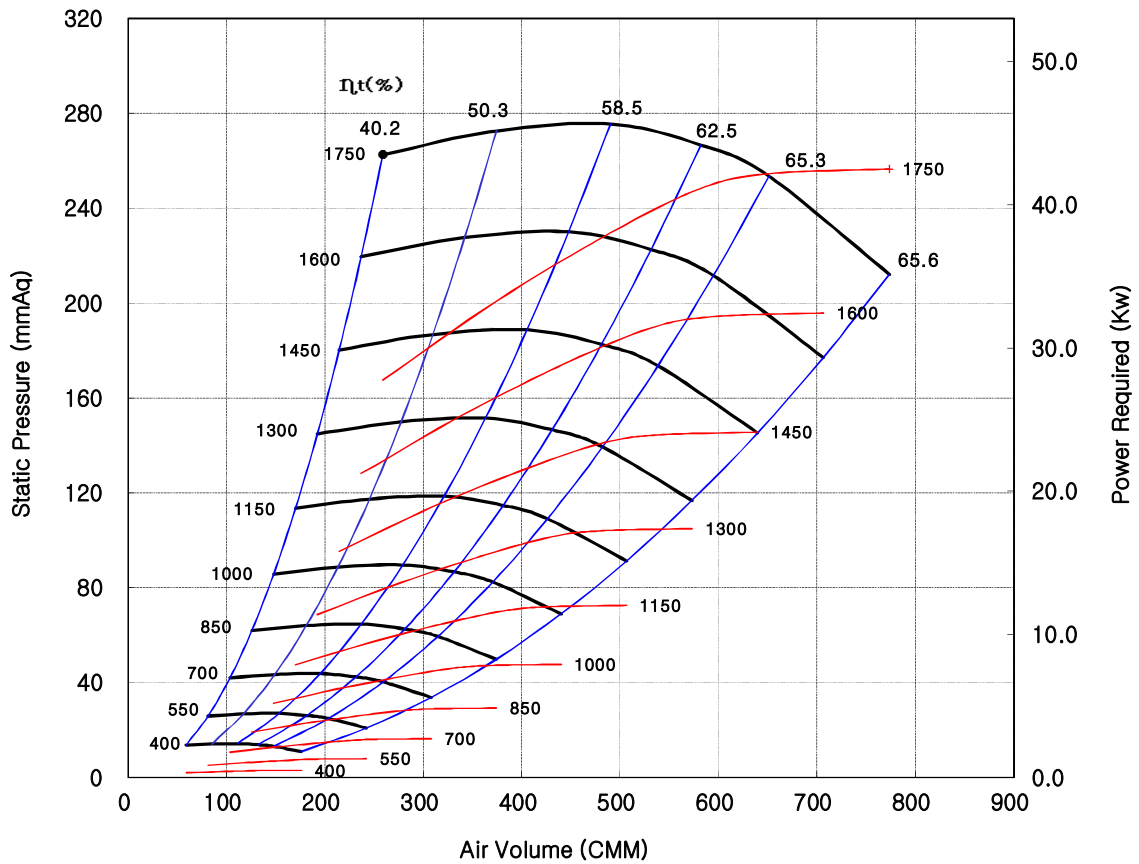
**Sound Power Level Data**



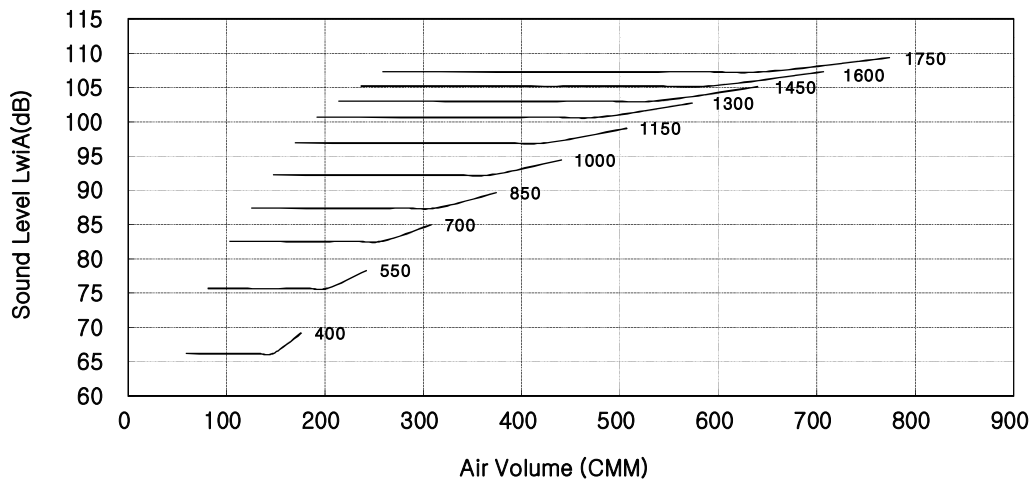
- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

## Performance Curves Data

DAD-800F



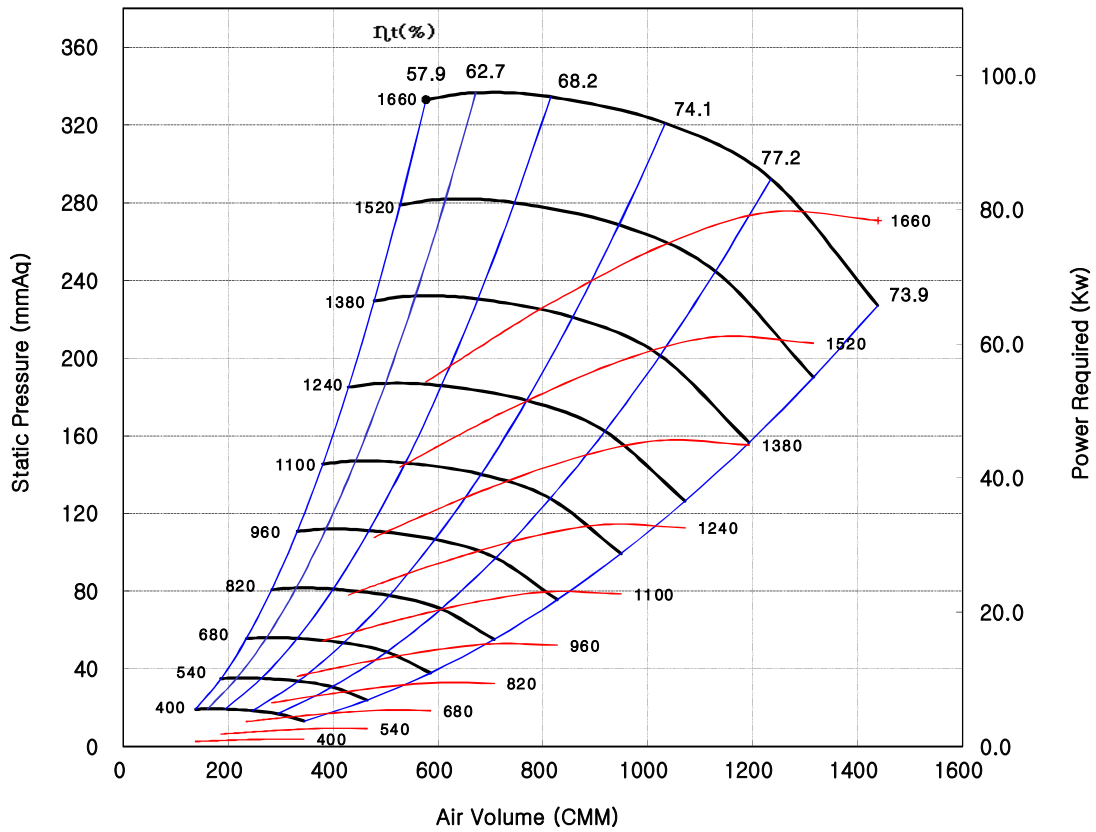
## Sound Power Level Data



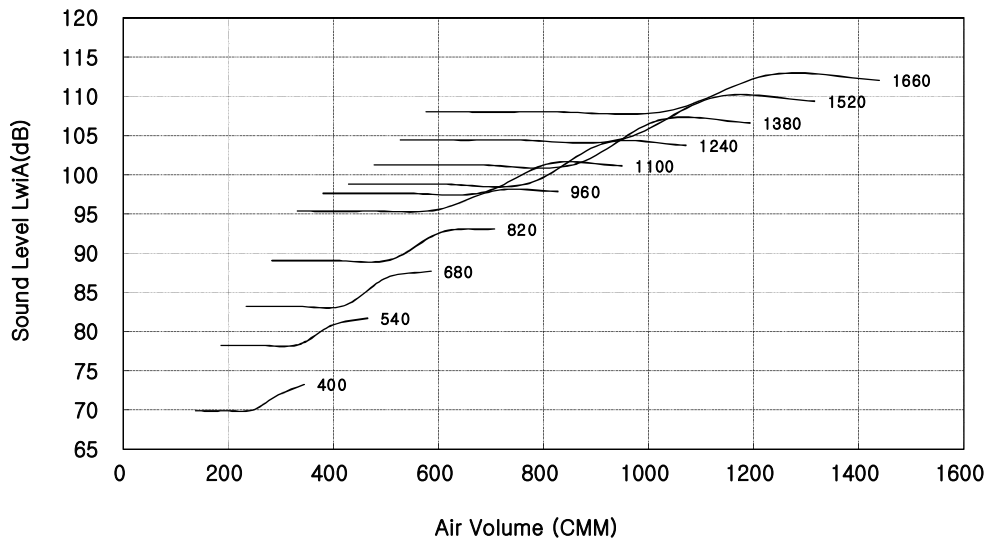
- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

**Performance Curves Data**

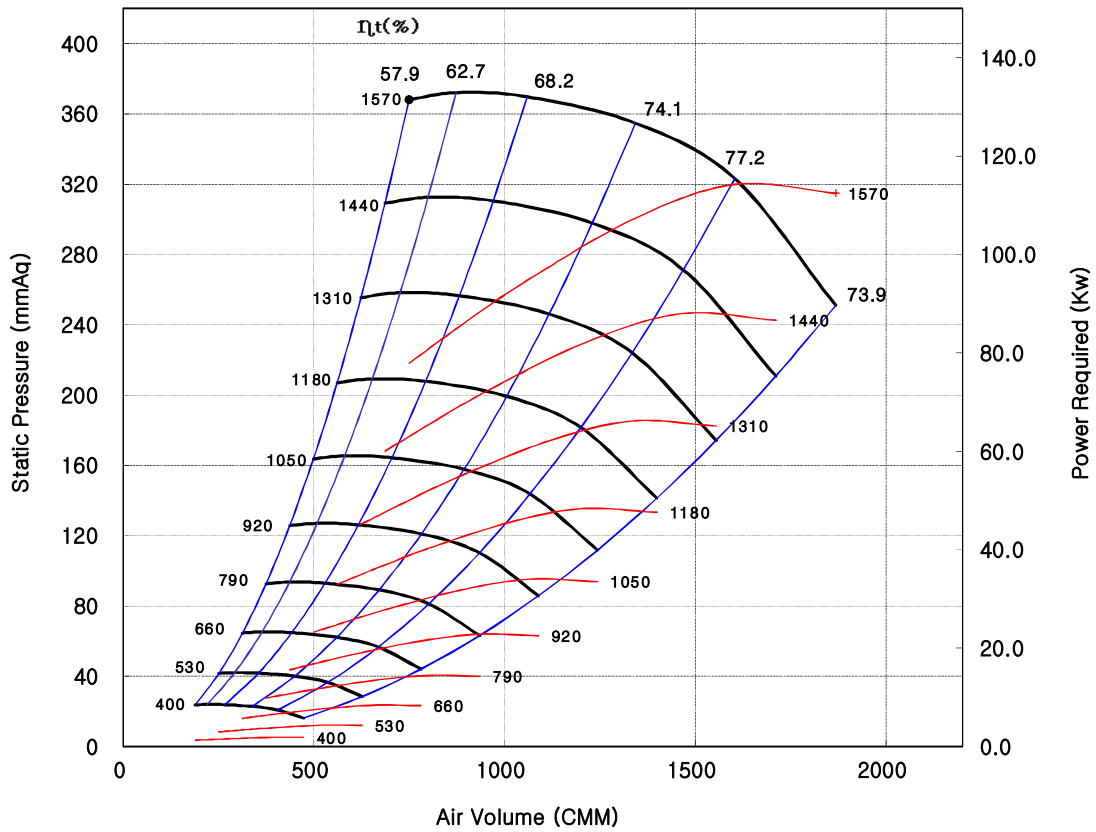
**DAD-900F**



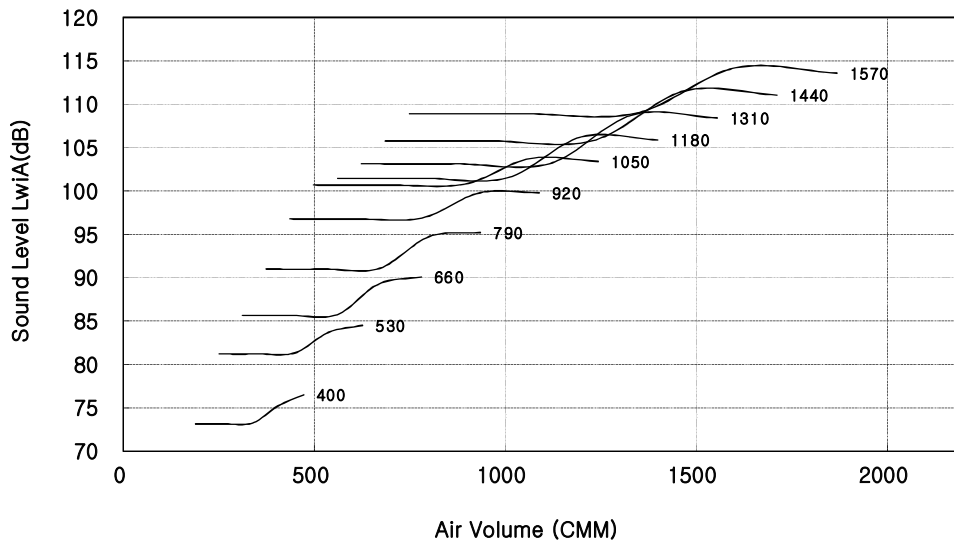
**Sound Power Level Data**



- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.



Sound Power Level Data

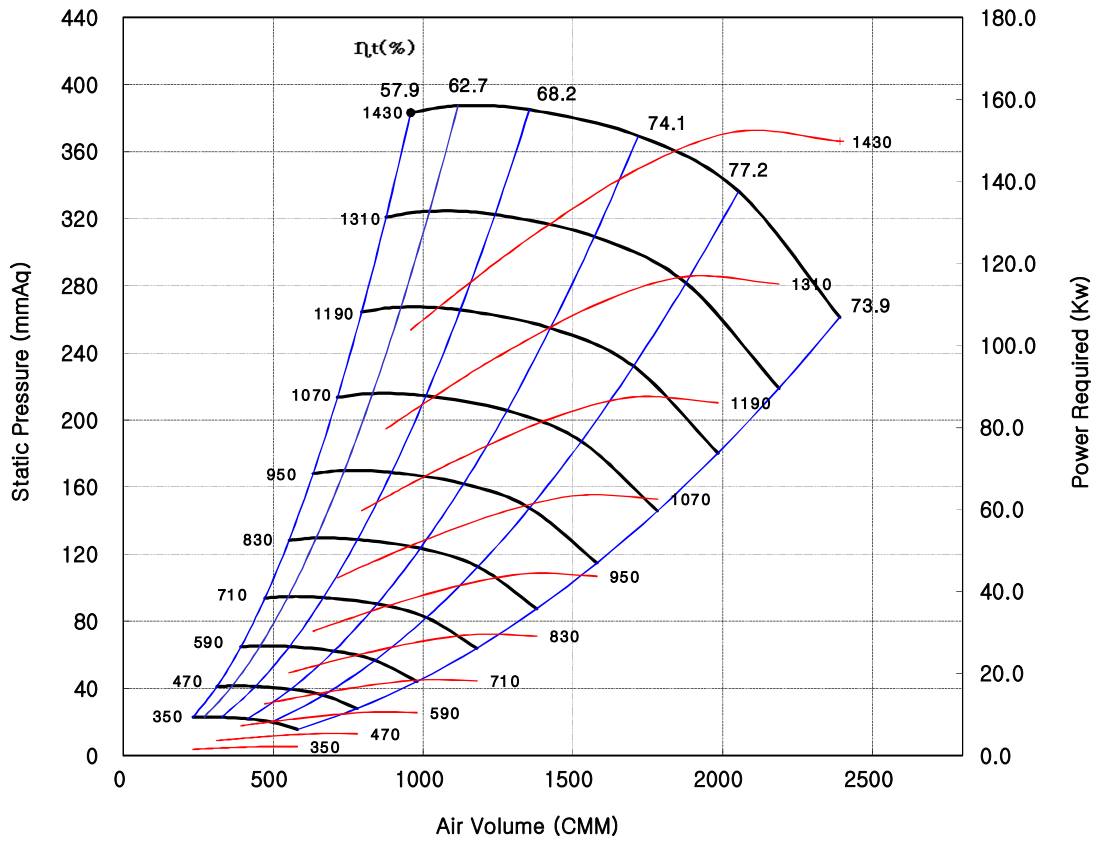


- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

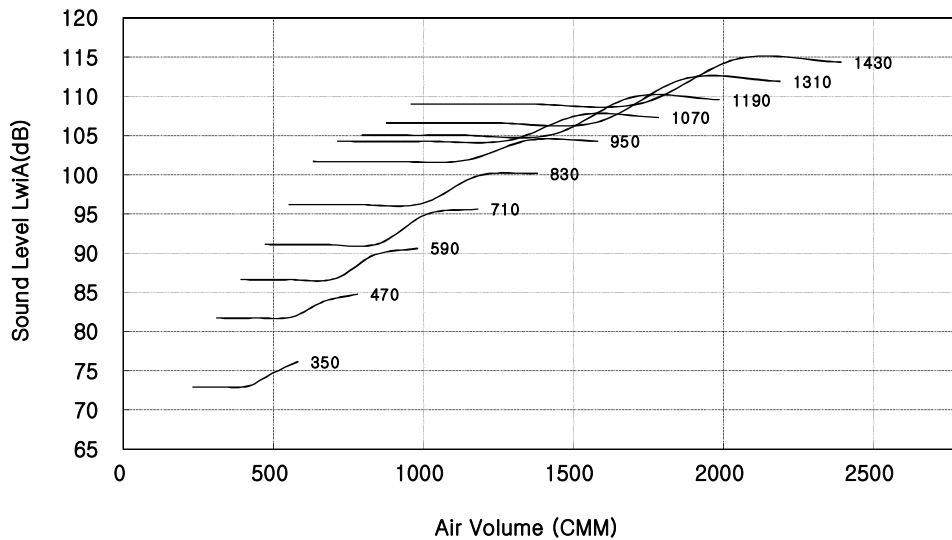


**Performance Curves Data**

**DAD-1120F**



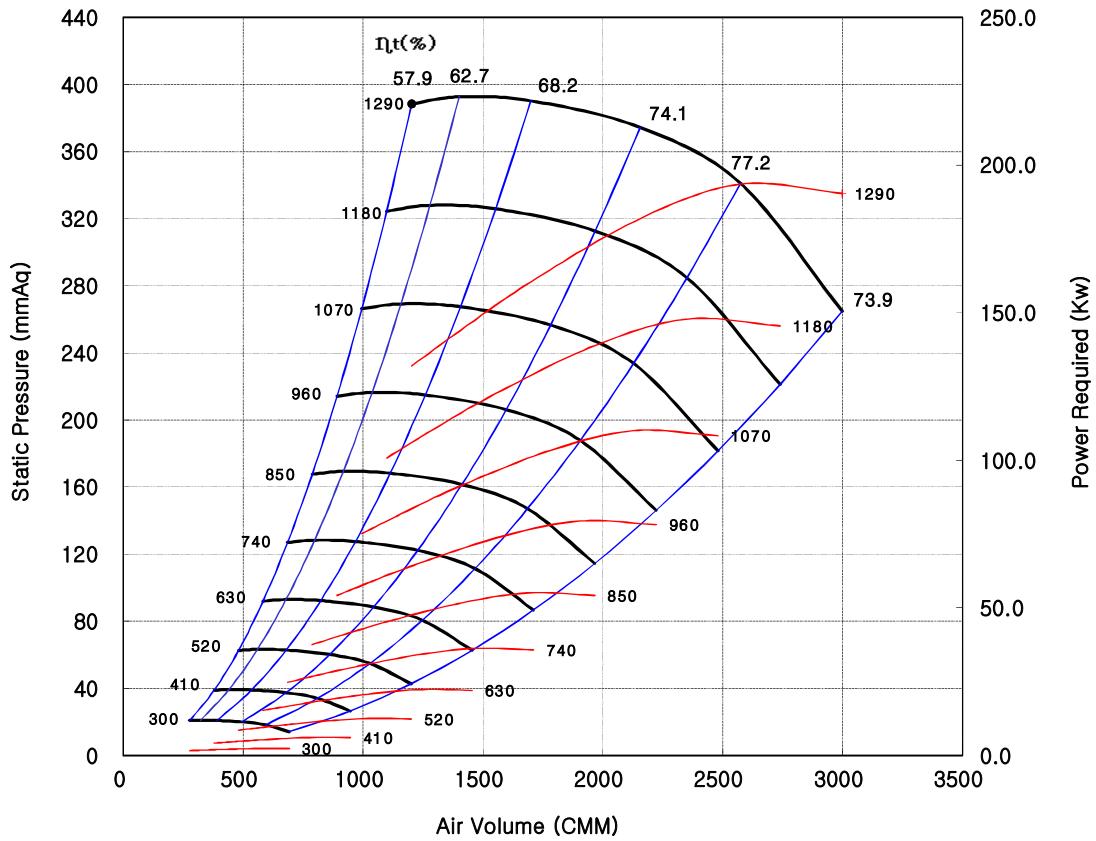
**Sound Power Level Data**



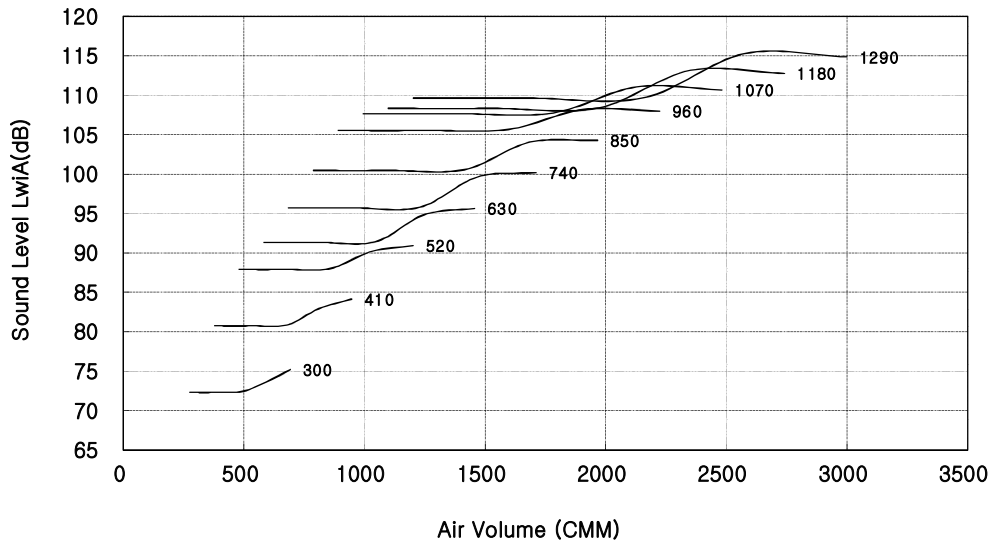
- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

**Performance Curves Data**

**DAD-1250F**



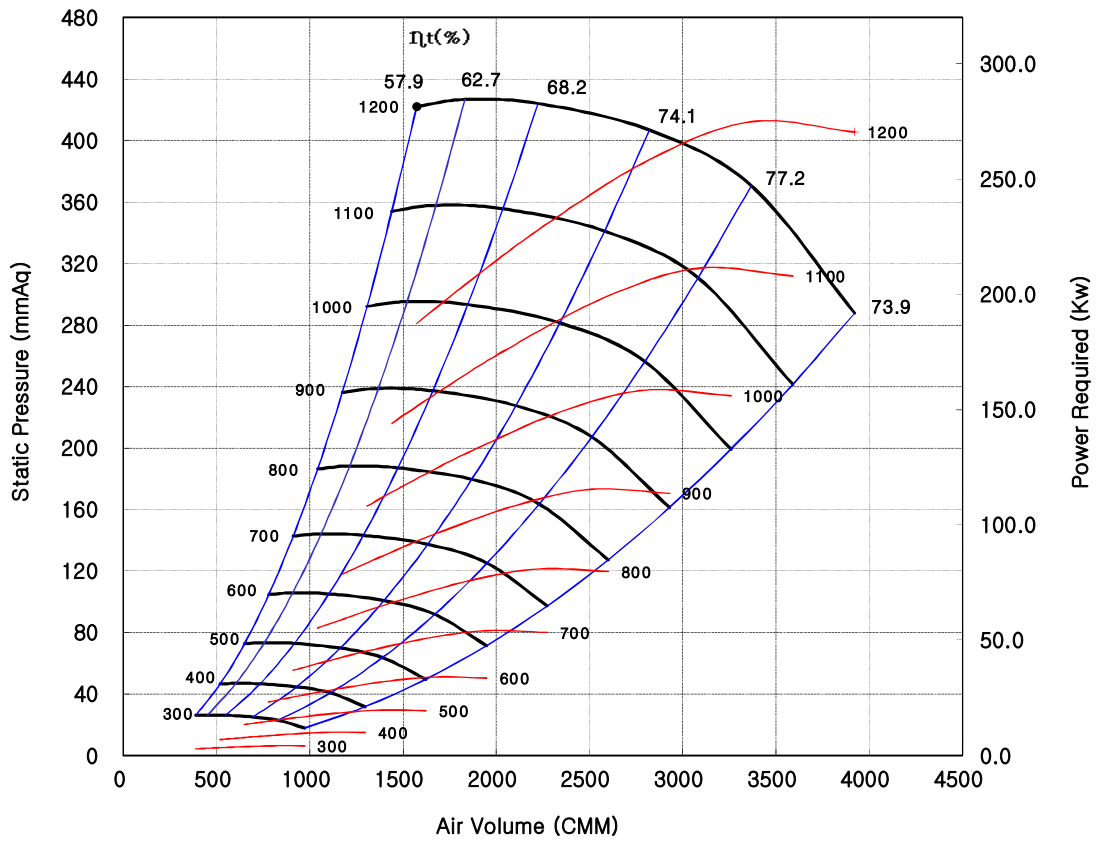
**Sound Power Level Data**



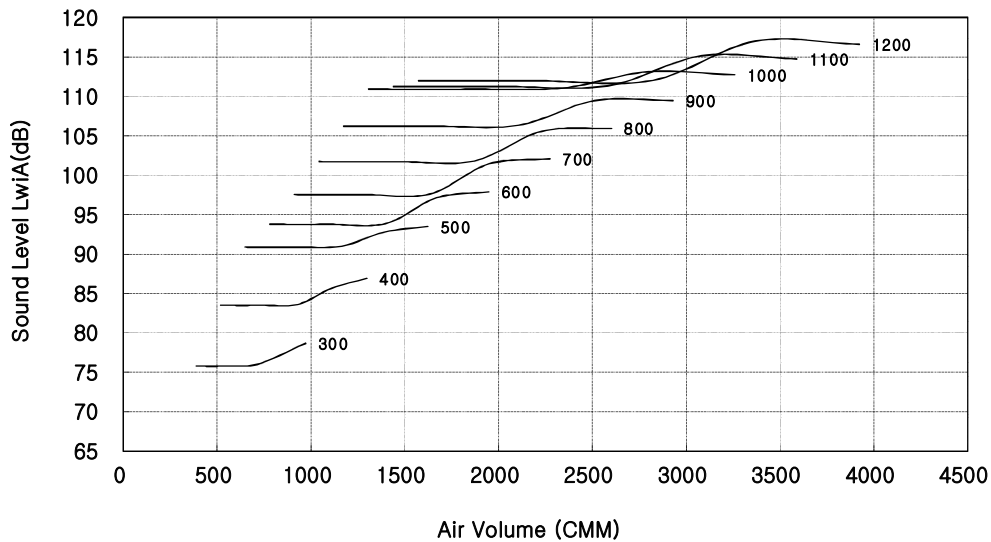
- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

**Performance Curves Data**

**DAD-1400F**



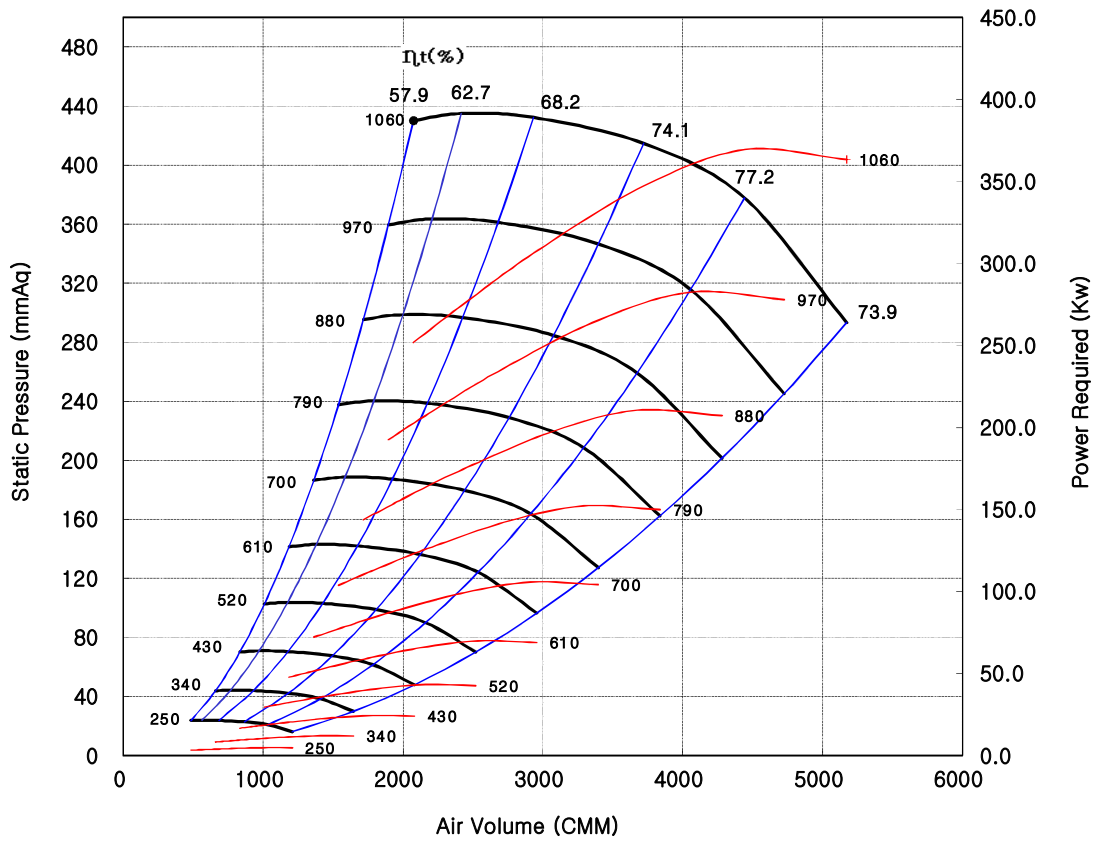
**Sound Power Level Data**



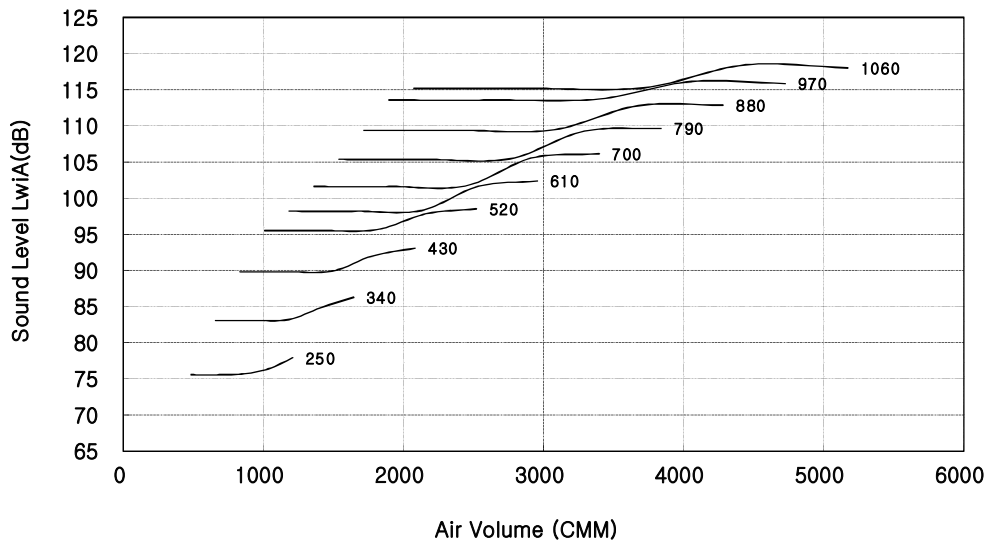
- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet  $L_{wiA}$  sound power levels for installation type B-free inlet, ducted outlet.

**Performance Curves Data**

**DAD-1600F**



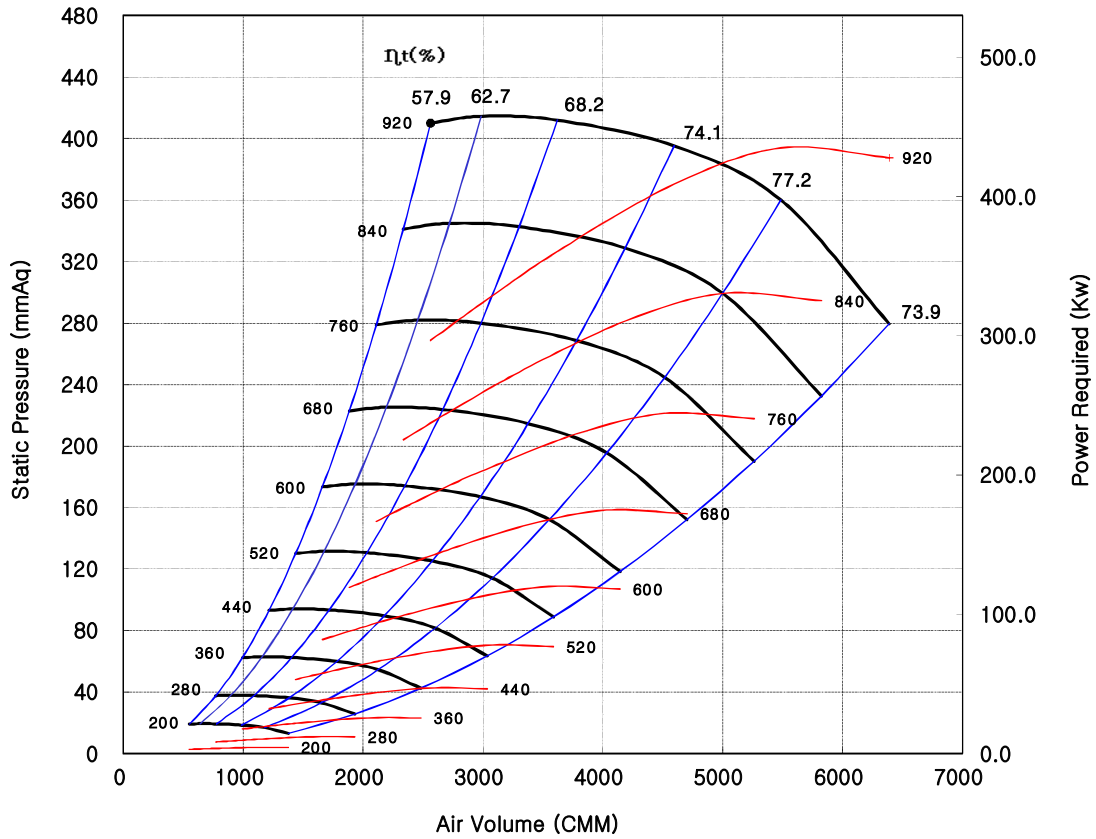
**Sound Power Level Data**



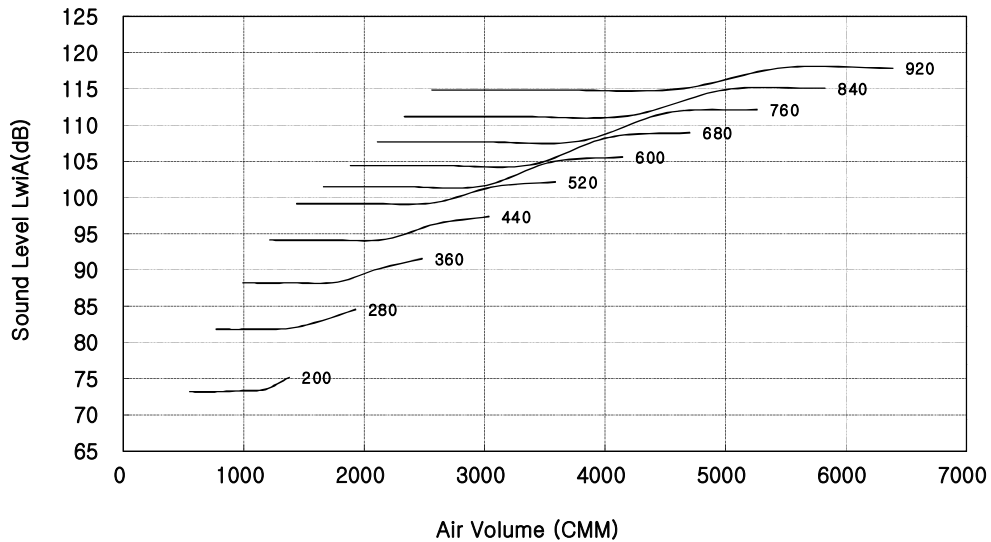
- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

**Performance Curves Data**

**DAD-1800F**



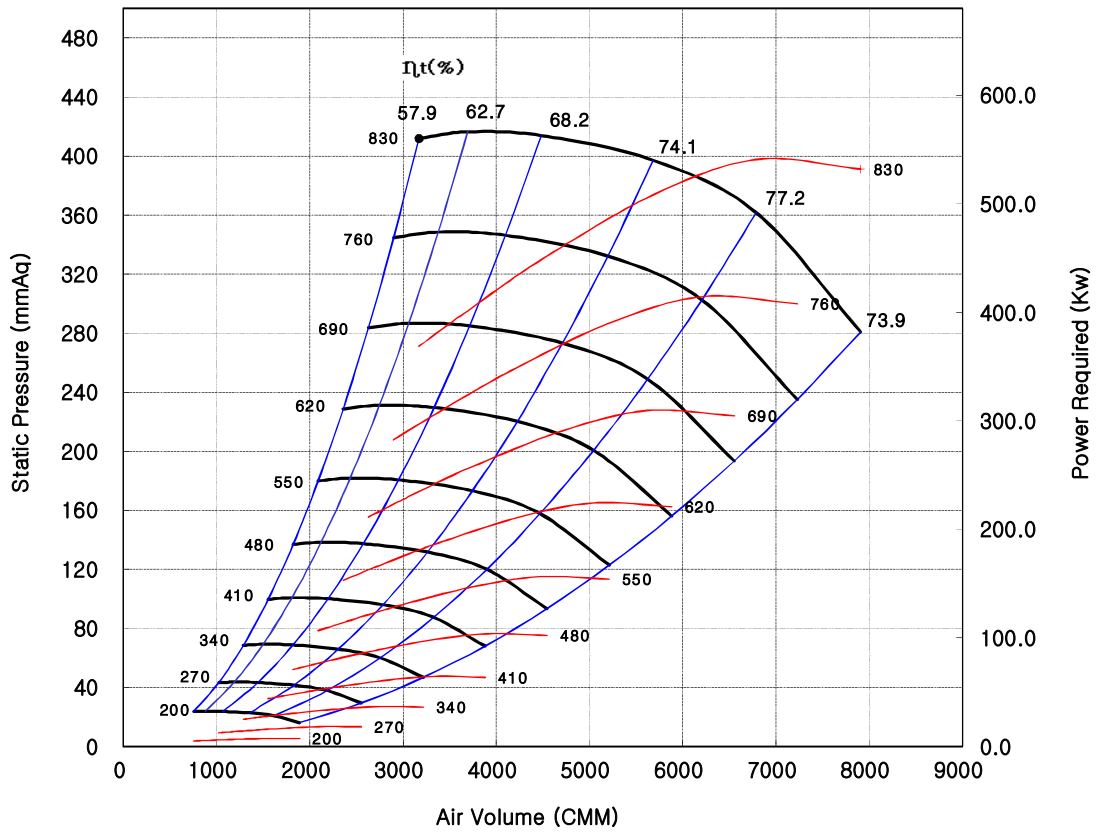
**Sound Power Level Data**



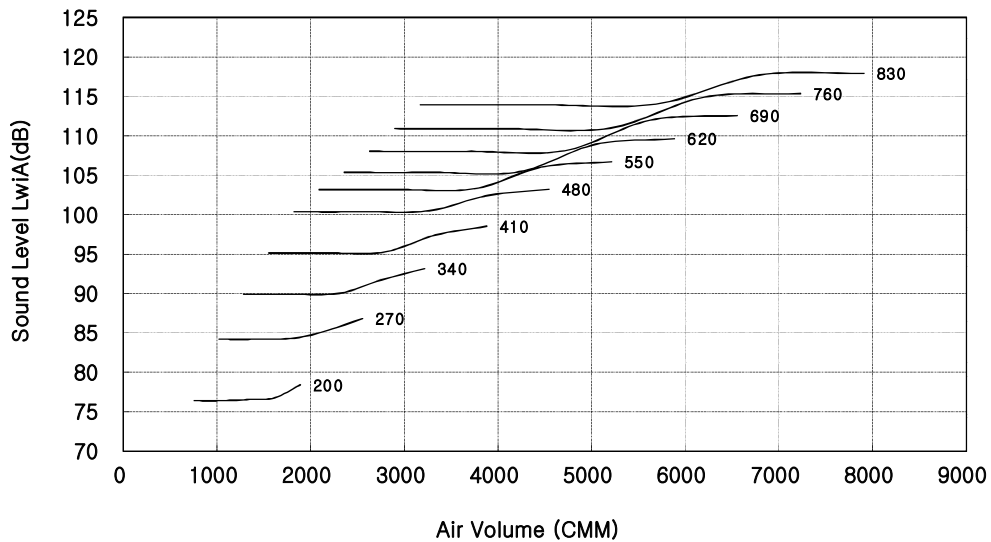
- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

**Performance Curves Data**

**DAD-2000F**



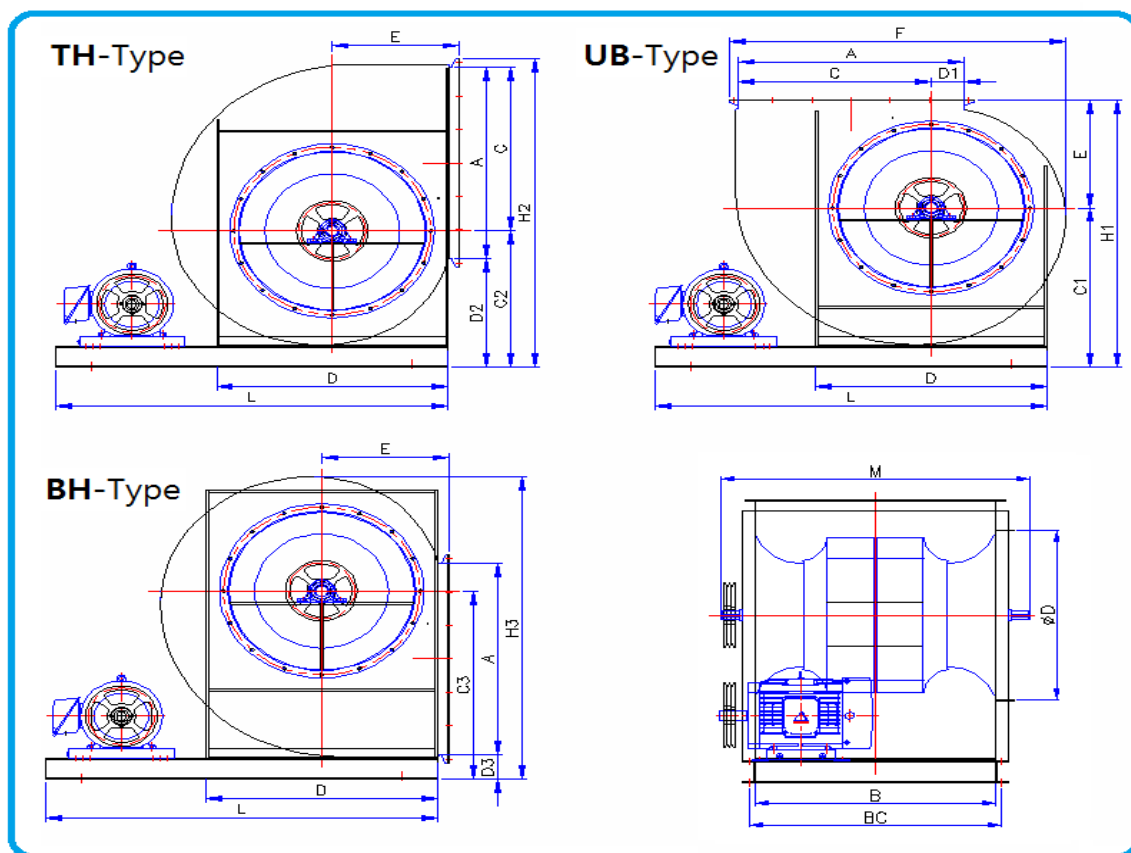
**Sound Power Level Data**



- Performance certified is for Installation type B - free inlet, ducted outlet. performance ratings do not include the effects of appurtenances (accessories). power rating (Kw) does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B-free inlet, ducted outlet.

OVERALL DIMENSION -DAD SERIES

AIRFOIL FAN



| MODEL     | DIMENSION (mm) |      |      |      |      |      |      |     |      |     |      |      |      |      |      |      |      | MODEL |         |
|-----------|----------------|------|------|------|------|------|------|-----|------|-----|------|------|------|------|------|------|------|-------|---------|
| NO.       | A              | B    | φD   | C    | D    | E    | F    | D1  | D2   | D3  | C1   | C2   | C3   | H1   | H2   | H3   | BC   | L     | NO.     |
| DAD-315F  | 400            | 400  | 325  | 341  | 490  | 305  | 679  | 59  | 324  | 105 | 371  | 446  | 324  | 676  | 695  | 695  | 440  | 760   | # 2     |
| DAD-355F  | 450            | 450  | 365  | 385  | 530  | 335  | 755  | 65  | 353  | 105 | 406  | 490  | 353  | 741  | 768  | 768  | 490  | 840   | # 2 1/2 |
| DAD-400F  | 510            | 510  | 415  | 433  | 580  | 365  | 848  | 77  | 386  | 105 | 446  | 538  | 386  | 811  | 849  | 849  | 550  | 930   | # 2 3/4 |
| DAD-450F  | 570            | 570  | 465  | 487  | 630  | 335  | 955  | 83  | 423  | 115 | 491  | 602  | 423  | 826  | 950  | 950  | 610  | 1050  | # 3     |
| DAD-500F  | 635            | 635  | 515  | 541  | 680  | 365  | 1057 | 94  | 460  | 115 | 535  | 656  | 460  | 900  | 1041 | 1041 | 675  | 1130  | # 3 1/2 |
| DAD-560F  | 710            | 710  | 580  | 606  | 750  | 400  | 1177 | 104 | 505  | 115 | 589  | 721  | 505  | 989  | 1151 | 1151 | 750  | 1250  | # 4     |
| DAD-630F  | 800            | 800  | 650  | 682  | 820  | 445  | 1319 | 118 | 557  | 115 | 651  | 797  | 557  | 1096 | 1279 | 1279 | 840  | 1360  | # 4 1/2 |
| DAD-710F  | 900            | 900  | 735  | 769  | 900  | 495  | 1478 | 131 | 616  | 115 | 722  | 884  | 616  | 1217 | 1425 | 1425 | 940  | 1490  | # 5     |
| DAD-800F  | 1015           | 1015 | 825  | 866  | 995  | 530  | 1659 | 149 | 682  | 115 | 802  | 981  | 682  | 1332 | 1588 | 1588 | 1055 | 1630  | # 5 1/2 |
| DAD-900F  | 1140           | 1140 | 930  | 974  | 1140 | 620  | 1858 | 166 | 781  | 140 | 916  | 1114 | 781  | 1536 | 1795 | 1795 | 1190 | 1800  | # 6     |
| DAD-1000F | 1270           | 1270 | 1030 | 1082 | 1240 | 670  | 2072 | 188 | 855  | 150 | 1005 | 1232 | 855  | 1675 | 1987 | 1987 | 1320 | 1960  | # 7     |
| DAD-1120F | 1420           | 1420 | 1160 | 1212 | 1370 | 800  | 2311 | 208 | 944  | 150 | 1112 | 1362 | 944  | 1912 | 2206 | 2206 | 1470 | 2180  | # 8     |
| DAD-1250F | 1585           | 1585 | 1290 | 1353 | 1500 | 900  | 2572 | 232 | 1040 | 150 | 1228 | 1503 | 1040 | 2128 | 2443 | 2443 | 1635 | 2410  | # 9     |
| DAD-1400F | 1775           | 1775 | 1450 | 1515 | 1660 | 950  | 2873 | 260 | 1151 | 150 | 1361 | 1665 | 1151 | 2311 | 2716 | 2716 | 1825 | 2650  | # 10    |
| DAD-1600F | 2030           | 2030 | 1650 | 1732 | 1860 | 1050 | 3276 | 298 | 1299 | 150 | 1539 | 1882 | 1299 | 2589 | 3081 | 3081 | 2080 | 2670  | # 11    |
| DAD-1800F | 2280           | 2280 | 1855 | 1948 | 2130 | 1150 | 3674 | 332 | 1447 | 150 | 1717 | 2098 | 1447 | 2867 | 3445 | 3445 | 2350 | 3010  | # 12    |
| DAD-2000F | 2535           | 2535 | 2060 | 2164 | 2330 | 1250 | 4077 | 371 | 1595 | 150 | 1895 | 2314 | 1595 | 3145 | 3809 | 3809 | 2605 | 3320  | # 13    |