## WUXI CHIU CHAU ENVIRONMENTAL PROTECTION EQUIPMENT CO.,LTD

## SAF-A

SAF-A(CN) March 2022

## Airfoil Centrifugal Impeller

Wuxi Chiu Chau Environmental Protection Equipment Co.,Ltd certifies that the SAF-A Airfoil Centrifugal Fan 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
min AMCA Certified Ratings Program.
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## Quality Reputation Service

## Prospectus

$$
\begin{aligned}
\text { Idea of operation: } & \text { Prime in authentication, } \\
& \text { everlasting operation } \\
\text { Quality policy: } & \begin{array}{l}
\text { Good quality, customer } \\
\text { ssatisfaction }
\end{array}
\end{aligned}
$$

In the beginning of this instruction, first we thank for the support given from all parties, we always keep good contact with old customers and exploit new market aggressively, realize continue, stable and coordinate development. The agreement contracted, proceeds, income after taxed both create peak in history. In order to affirm the foundation, we passed ISO 9001 quality management system accreditation. We prime the motto of "authentication, everlasting operation, good quality, customer satisfaction" as subject of national economy, providing first class product to society.

## Product Feature

- Production equipment: dynamic balance calibration unit, hydraulic bending bed, hydraulic shear, level lathe, plasma cutting unit, CO2 electric welding set screw press, Argon welding set.
- Testing equipment: spectrum analyzer, laser aiming unit, thermal linear anemometer, noise decibel gauge, U tube, electronic pressure gauge, thermometer, tachometer, Pitot tube, diaphragm gauge, caliper.
- Education \& training: monthly fixed 4 hours on-job training, invited professional lecturer, the contents of the program include professional know-how, production management, quality control and so on. Two or three persons are selected to attend visit and practice in academic unit yearly.
- Quality control: meet ISO 9001 quality management system.
- After sale service and handling of customer complaint: We provide customer service and maintenance service department exclusive for requirement of after sale service and handling of emergency incident., proceed subject to each customer complaint case, failure determination, cause analysis, trouble shooting, case classification and management. Cope with periodical maintenance of the user yearly.


# Wuxi Chiu Chau Environmental 

Protection Equipment Co., Ltd.

## SAF-A Series




- This is improved turbine model, high efficiency and fixed load, resist to motor overload, with lowest noise in all model Applicable in ordinary ventilation such as air conditioned of common office building, air delivery of various kiln.
- Max air volume up to 100000 CFM.
- Max. static pressure up to 30 inwg.



# Example of Fan Curve Reading 

## SAF-A-16.5 (Inlet Sound Power)



## Total Pressure (Pa) SAF-A-16.5



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


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Total Pressure (Pa) SAF-A-24.5


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

Total Pressure (Pa)


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

Total Pressure ( Pa )
SAF-A-30


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

Total Pressure ( Pa )
SAF-A-33


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

Total Pressure (Pa) SAF-A-36.5


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

## Total Pressure (Pa) SAF-A-40.25



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

Total Pressure (Pa)
SAF-A-44.5


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


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

Total Pressure (Pa) SAF-A-54.25


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

Total Pressure (Pa) SAF-A-60


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

## Total Pressure ( Pa )

SAF-A-66


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

## Fan Dimension

## SAF-A

16.5/18.25/20/22.25/24.5/27/30/33/36.5/40.25/44.5/49/54.25/60/66



B



## Fan Dimension

## SAF-A

## 16.5/18.25/20/22.25/24.5/27/30/33/36.5/40.25/44.5/49/54.25/60/66

Dimension List

| Model | Inlt | Oult |  | Body |  |  |  |  | Center Height |  |  |  |  | *Base |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\phi$ A | B | C | D | E | F | G | I | H1 | H2 | H3 | H4 | H5 | J* | $\phi \mathrm{K}^{*}$ |
| 16.5 | 480 | 370 | 420 | 360 | 408 | 457 | 358 | 285 | 408 | 550 | 458 | 482 | 433 | 6 | 15 |
| 18.25 | 530 | 410 | 465 | 405 | 448 | 505 | 392 | 305 | 457 | 620 | 513 | 542 | 485 | 6 | 15 |
| 20 | 580 | 445 | 505 | 440 | 493 | 552 | 432 | 325 | 497 | 675 | 558 | 587 | 527 | 6 | 15 |
| 22.25 | 640 | 495 | 560 | 443 | 559 | 599 | 468 | 350 | 543 | 720 | 635 | 675 | 580 | 6 | 15 |
| 24.5 | 710 | 550 | 625 | 488 | 616 | 620 | 515 | 375 | 590 | 780 | 690 | 735 | 630 | 8 | 15 |
| 27 | 785 | 602 | 685 | 537 | 678 | 728 | 567 | 400 | 667 | 870 | 778 | 740 | 630 | 8 | 15 |
| 30 | 850 | 670 | 760 | 597 | 755 | 809 | 630 | 435 | 730 | 970 | 855 | 820 | 700 | 8 | 15/19 |
| 33 | 930 | 740 | 830 | 635 | 830 | 889 | 692 | 470 | 792 | 1065 | 930 | 900 | 770 | 8 | 15/19 |
| 36.5 | 1030 | 810 | 920 | 699 | 915 | 982 | 764 | 505 | 780 | 1165 | 1040 | 1000 | 850 | 8 | 19 |
| 40.25 | 1130 | 890 | 1010 | 768 | 1007 | 1081 | 841 | 570 | 860 | 1280 | 1132 | 1100 | 930 | 8 | 19 |
| 44.5 | 1250 | 990 | 1110 | 900 | 1074 | 1208 | 939 | 620 | 960 | 1440 | 1100 | 1160 | 1030 | 8 | 22 |
| 49 | 1380 | 1085 | 1220 | 970 | 1182 | 1330 | 1033 | 695 | 1055 | 1570 | 1210 | 1280 | 1130 | 8 | 22 |
| 54.25 | 1520 | 1200 | 1350 | 1100 | 1037 | 1470 | 1145 | 750 | 1170 | 1720 | 1330 | 1420 | 1250 | 8 | 22 |
| 60 | 1680 | 1330 | 1490 | 1150 | 1444 | 1624 | 1264 | 815 | 1446 | 1856 | 1625 | 1716 | 1536 | 10 | 24 |
| 66 | 1850 | 1460 | 1650 | 1300 | 1588 | 1786 | 1390 | 880 | 1590 | 2136 | 1788 | 1887 | 1690 | 12 | 24 |


| Model | *Base |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{L}^{*}$ | $\mathrm{~L} 1^{*}$ | $\mathrm{~L} 2^{*}$ | $\mathrm{~W}^{*}$ | $\mathrm{~W} 1^{*}$ | $\mathrm{~W} 2^{*}$ |  |
| $\mathbf{1 6 . 5}$ | 1150 | 340 | 810 | 855 | 235 | 620 |  |
| $\mathbf{1 8 . 2 5}$ | 1180 | 385 | 795 | 1020 | 270 | 750 |  |
| $\mathbf{2 0}$ | 1380 | 415 | 965 | 1065 | 290 | 775 |  |
| $\mathbf{2 2 . 2 5}$ | 1350 | 420 | 930 | 1100 | 290 | 810 |  |
| $\mathbf{2 4 . 5}$ | 1500 | 460 | 1040 | 1200 | 325 | 875 |  |
| $\mathbf{2 7}$ | 1600 | 500 | 1100 | 1300 | 350 | 950 |  |
| $\mathbf{3 0}$ | 1750 | 565 | 1185 | 1450 | 400 | 1050 |  |
| $\mathbf{3 3}$ | 1800 | 605 | 1195 | 1550 | 435 | 1115 |  |


| Model | *Base |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{L}^{*}$ | $\mathrm{~L} 1^{*}$ | $\mathrm{~L} 2^{*}$ | $\mathrm{~W}^{*}$ | $\mathrm{~W} 1^{*}$ | $\mathrm{~W} 2^{*}$ |
| $\mathbf{3 6 . 5}$ | 2000 | 665 | 1335 | 1700 | 470 | 1230 |
| $\mathbf{4 0 . 2 5}$ | 2150 | 715 | 1435 | 1800 | 510 | 1290 |
| $\mathbf{4 4 . 5}$ | 2550 | 795 | 1755 | 1970 | 570 | 1400 |
| $\mathbf{4 9}$ | 2700 | 855 | 1845 | 2060 | 620 | 1440 |
| $\mathbf{5 4 . 2 5}$ | 2900 | 935 | 1965 | 2180 | 675 | 1505 |
| $\mathbf{6 0}$ | 3000 | 1015 | 1985 | 2500 | 740 | 1760 |
| $\mathbf{6 6}$ | 3100 | 1100 | 2000 | 2700 | 805 | 1895 |
|  |  |  |  |  |  |  |

[^0] Wuxi Chiu Chau Environmental Protection Equipment Co., Ltd.

## Technology Data

## -Drive Type:

## Coupling Drive



## Belt Drive




Motor Drive

-Rotating Orientation:


A Counter-Clockwise A Top Horizontal

$\mathrm{E}_{\text {Up Blast }}^{\text {Clockwise }}$


K Clockwise
K Bottom Angular Up



B Clockwise
B Top Horizontal


F Counter-Clockwise F Up Blast


Counter-Clockwise
$L$ Bottom Angular Up

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[^0]:    "*" could be altered due to different motor size

