



**Key Lab on Bioenvironmental Engineering of the
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Fan

Mode: ATK48SS3P1H

Maker: ATK

Speed: 580 rpm

Diameter: 1230mm

Dimension: 1390x1390 mm

Motor

Mode: 1HP - 3 PH

Maker: Dong Yuan (TECO)

CONN: Please reference the attach file

Power: 0.75KW

Amps: 1.85A

Volts: 380V

Speed: 1430rpm

Frequency: 50Hz

Drive: Driving Belt

Blade

Material: compound metal

Shape: Propeller

Number: 3

Shutter

Material: compound metal

Location: intake

Number Rows: 2

Number Doors: 15

Door Length: 1390mm

Housing

Material: fiber glass

Depth:

Intake Area: 1.932 m²

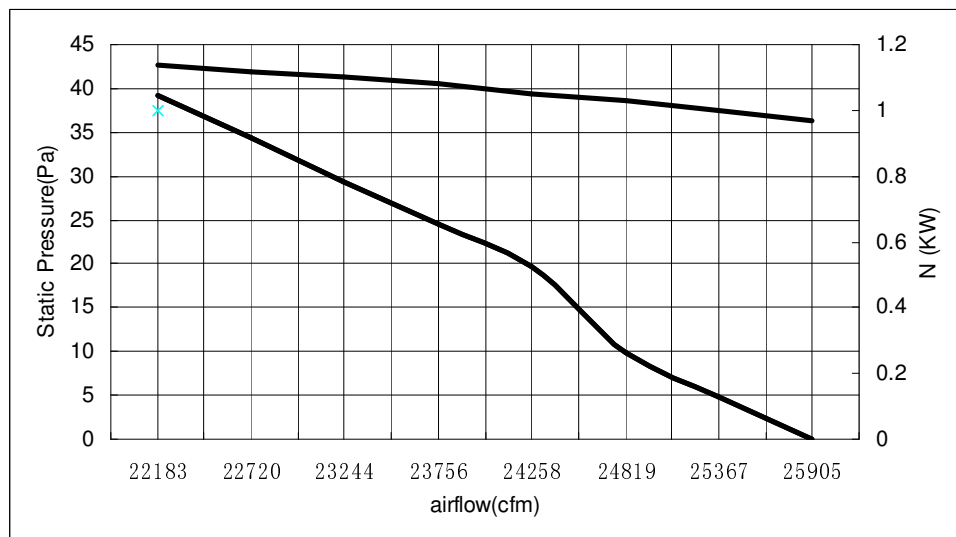
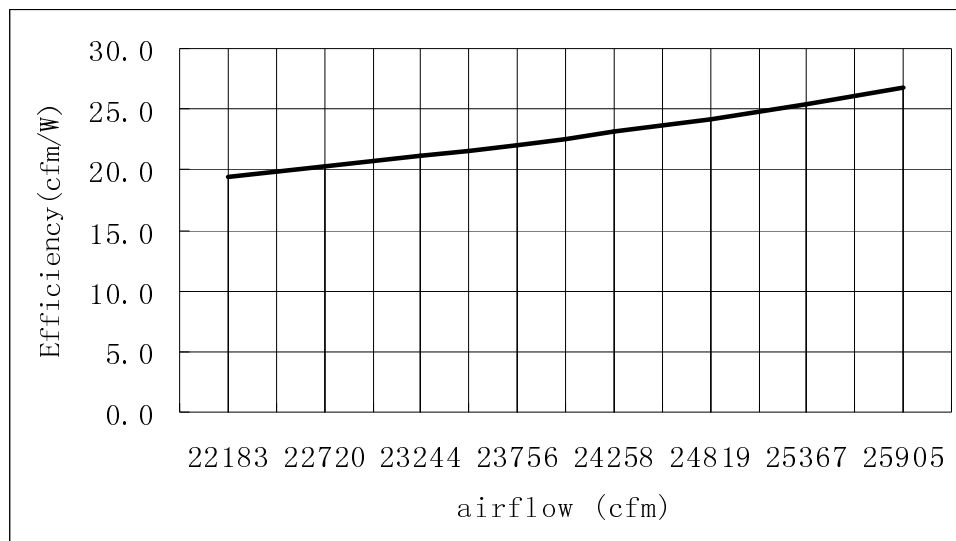
Discharge Area:

Other Attachments

Test Results:

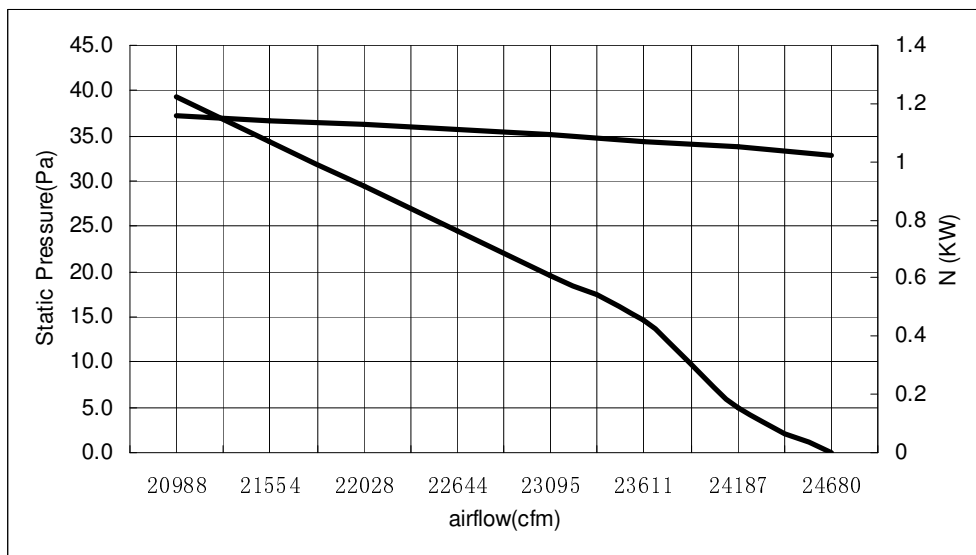
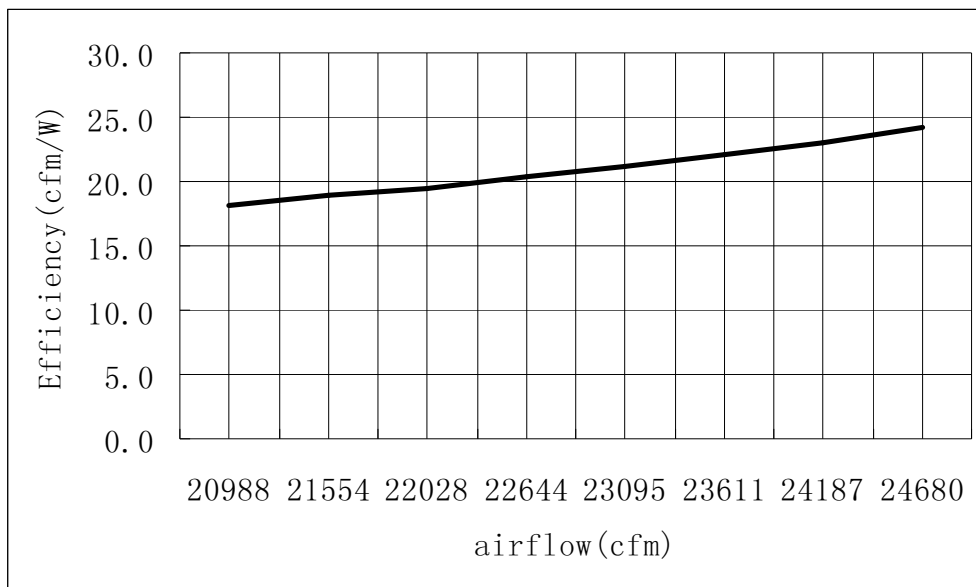
There are no shutters

| Static Pressure <u>in. water</u> | Airflow <u>CFM</u> | Power (N) <u>KW</u> | Efficiency <u>CFM/W</u> |
|-------------------------------------|-----------------------|------------------------|----------------------------|
| 4 | 22183 | 1.14 | 19.459 |
| 3.5 | 22720 | 1.12 | 20.286 |
| 3 | 23244 | 1.1 | 21.131 |
| 2.5 | 23756 | 1.08 | 21.997 |
| 2 | 24258 | 1.05 | 23.103 |
| 1 | 24819 | 1.03 | 24.096 |
| 0.5 | 25367 | 1 | 25.367 |
| 0 | 25905 | 0.968 | 26.761 |



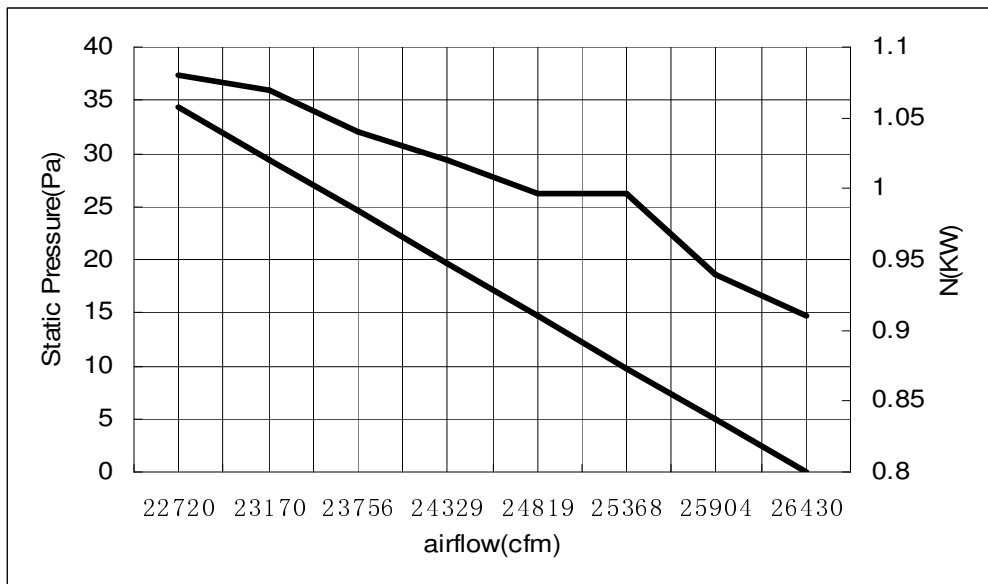
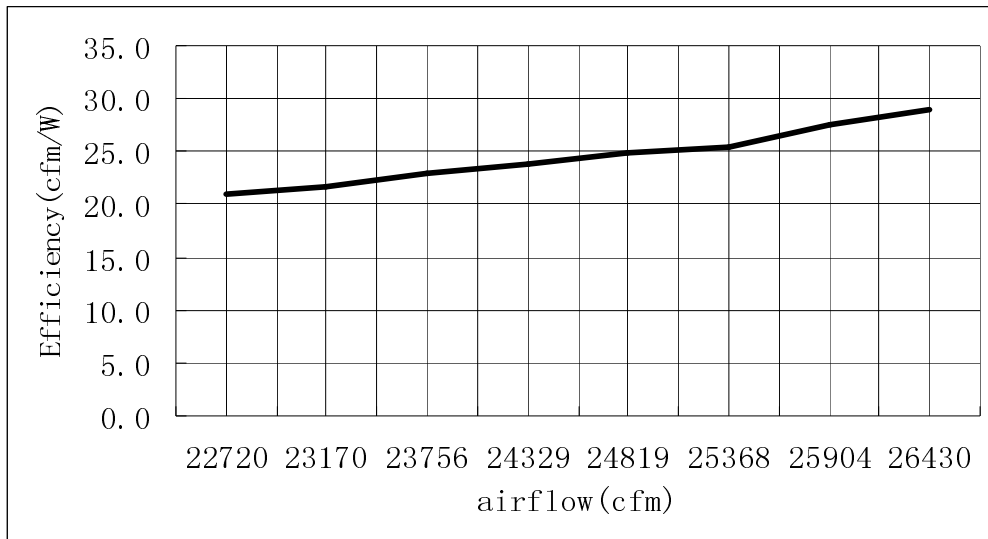
There are 15 shutters

| Static Pressure <u>in. water</u> | Airflow <u>CFM</u> | Power (N) <u>KW</u> | Efficiency <u>CFM/W</u> |
|-------------------------------------|-----------------------|------------------------|----------------------------|
| 4 | 20988 | 1.16 | 18.093 |
| 3.5 | 21554 | 1.14 | 18.907 |
| 3 | 22028 | 1.13 | 19.493 |
| 2.5 | 22644 | 1.11 | 20.400 |
| 2 | 23095 | 1.09 | 21.188 |
| 1.5 | 23611 | 1.07 | 22.066 |
| 0.5 | 24187 | 1.05 | 23.035 |
| 0 | 24680 | 1.02 | 24.196 |



There are 15 shutters and discharge cone

| Static Pressure <u>in. water</u> | Airflow <u>CFM</u> | Power (N) <u>KW</u> | Efficiency <u>CFM/W</u> |
|-------------------------------------|-----------------------|------------------------|----------------------------|
| 3.5 | 22720 | 1.08 | 21.037 |
| 3 | 23170 | 1.07 | 21.654 |
| 2.5 | 23756 | 1.04 | 22.843 |
| 2 | 24329 | 1.02 | 23.852 |
| 1.5 | 24819 | 0.996 | 24.919 |
| 1.0 | 25368 | 0.996 | 25.469 |
| 0.5 | 25904 | 0.939 | 27.587 |
| 0 | 26430 | 0.91 | 29.044 |



Reporter: Ding Tao

2008. 06