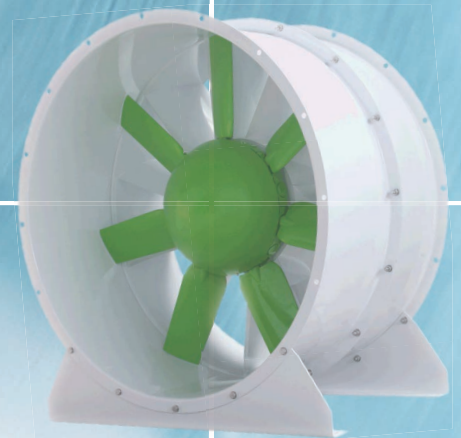


## Vane Axial Flow Fans

- Direct Driven
- Belt Driven



**Air in Motion.**

Wolter Fans.

**A09-F-IN**

**wolter** 

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Subject to change without prior notice.

# Vane Axial Fans

## Technical information



### Fan type code

AXV-F 1400 / 20°

Pitch angle

AXV-F: impeller-Ø

500 ... 2800

Axial impeller blade type



Wolter Ventilators India Pvt. Ltd. certifies that the series AXV-F 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.

## Design features

### Types and duty range

**Wolter** vane axial high pressure fans can be used for various applications in ventilation and process air technology. Standard diameters range from 500 to 2,800 mm, with airflow rates of up to 260 m³/s at static pressure increases of up to 2,500 Pa. The high efficiencies and high pressures are achieved by the use of the aerodynamically designed guide vanes.

### Application

The AXV-F range of vane axial fans is designed, tested and certified to operate at standard temperatures as well as at elevated temperatures of maximum up to 600deg/C for 120 minutes inclusive of F600 (600deg/120mins), F400 (400deg/120mins) and F300 (300deg/60mins) according to EN 12101-3:2015. The following fan curves are valid for standard temperatures and 300°/60(120) minutes operation. To select a fan for 400°C/120 minutes and 600°C/120 minutes operation, please contact our technical support. For F600, fans come in bifurcated and belt driven configuration with motor out of air flow.

Well suited for industrial applications, ventilation, smoke exhaust, stair case pressurisation and for conveying clean and dusty air where medium to high pressures are required with high airflow volume and fan efficiency.

### Casing

Fans are made of steel, with flanges rolled on both sides. The pitch circles of holes are in accordance with DIN 24 154, R2. The fan casings are hot dipped galvanised as standard. Optional: Optimal corrosion protection by powder-coating.

If motors require additional lubrication, tubes and grease-nipples are fitted to the outside of the fan casing. An inspection hole, closed by a rubber plug, allows controlling the direction of rotation.

### Impellers

Hubs and impeller blades are made of highly corrosion resistant pressure-cast aluminium alloy. Optional: Hub and aerofoil profiled blades made of steel for F600. The aerodynamical profile of the impeller blades guarantees a high level of efficiency and low noise. The blade angle is adjustable during standstill. The variable number of blades expands the performance range. Dynamically balanced according to DIN ISO 1940-1, balancing quality G6.3.

## Motors

**Wolter** uses closed squirrel cage motors according to IEC 34, if required also in accordance with EPACT. Standard motors are class F with IP 55 protection class. Multi speed versions with 2 or 3 speeds (Dahlander circuit or separate windings) are also available, as well as explosion-proof versions or specific industrial executions such as marine-type fans. The motor bearings have a L 10 life. For high temperature applications, three phase motor according to EN 12101-3 in protection class IP55, insulation class H.

## Fan performance curves

The performance curves for size 500 to 1250 have been established in installation type - D (according to AMCA 210, ducted inlet and ducted outlet) while installation type A (free inlet and free outlet) is for size 1400 to 2800 and represent the total pressure increase  $\Delta p$ , as a function of the volume flow. The dynamic pressure  $p_{d2}$  refers to the outlet area of the fan.

## Sound levels

The ascertaining of sound level follows the Reverberant Room Method according to AMCA 300. The A-weighted inlet sound power levels  $L_{wIA}$  or outlet sound power levels  $L_{wOA}$  are shown on the performance curves.

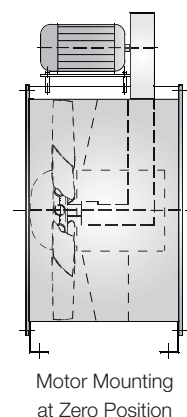
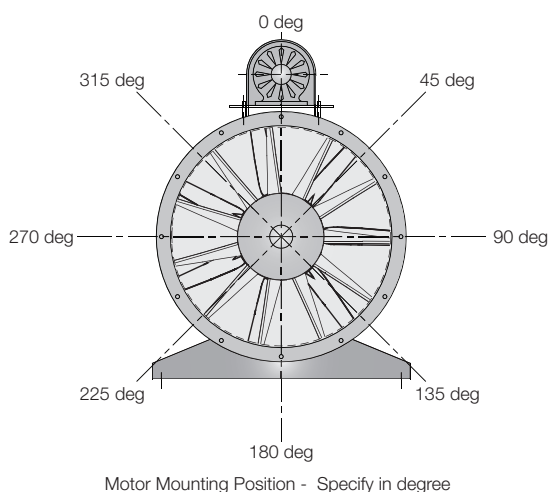
## Belt driven design

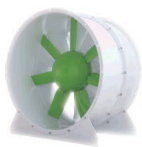
Belt driven fan with single / dual motors can be mounted in various positions to suit the actual site condition. Belt driven fans are used for applications to extract more heavily polluted air i.e. presence of corrosive or hazardous fumes, or dirt-laden, moist air or hot air. Various mounting positions are illustrated.

## Ordering designations

When ordering, please provide the following information:

- › Fan type
- › Fan code and type
- › Quantity required
- › Duty required at standard air and temperature (air volume in m³/h at static pressure in Pa).
- › Motor power rating in kW
- › Electrical supply
- › Ancillaries required





AXV-F

## Fan selection and installation

### Fan selection

Please select fans according to the nearest performance curve above the required duty point. The middle range of each fan curve is the area of highest efficiency. Do not select fans at the upper end of the fan curve, as this might cause the fan to work in stall. In order to avoid motor overloading, please select motors according to the peak power of the respective performance curve. Please refer to the selection example on the following page.

### Fan installation

When installing the fan, please consider the following instructions:

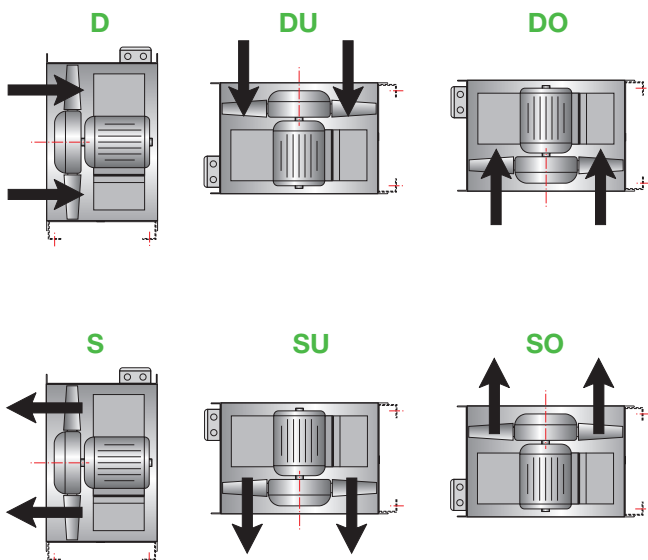
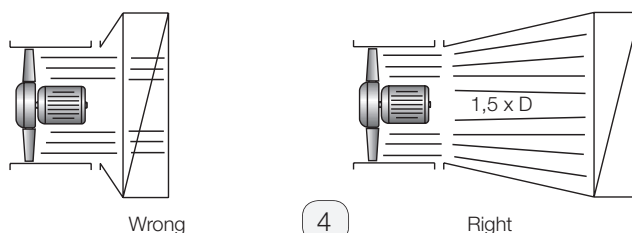
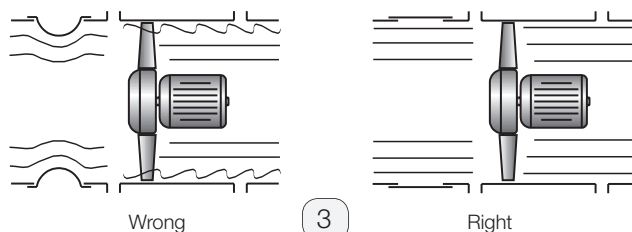
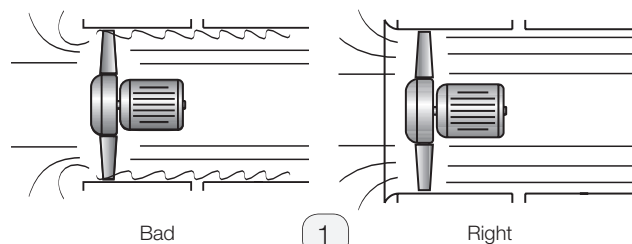
► Fans with free inlet and outlet should be installed with an unobstructed distance of at least  $1,5 \times$  fan diameter on suction and pressure sides. Fans should have a bellmouth on the inlet side in order to assure optimal incoming flow. A diffuser mounted on the pressure side will increase efficiency.

► When installing fans in a ducted system, adequate distance to other structural parts such as bends, filters and silencers should be provided for. A sharp bend radius of the duct near the suction or pressure side of the fan is to be avoided. Flexible connections are to be installed in a way that does not obstruct the outlet cross section of the fan (see following page).

### Forms of running

Wolter axial flow fans are available for all forms of running. The chart below shows all standard forms of running. Please indicate the required configuration when ordering. Arrows outside the fan casing indicates the correct direction of rotation and airflow.

Form S, SU and SO are not licensed by AMCA International.



Selection example

Required duty point

- Volume flow: 50000 m<sup>3</sup>/h
- Static pressure: 735 Pa

In order to calculate the total pressure, please add velocity pressure to static pressure (185 Pa dynamic pressure + 735 Pa static pressure = 920 Pa total pressure)

- Fan speed: 1.500 1/min (4-pole)

Using the fan curve

Having chosen a fan with adequate performance range for the required duty point, plot volume flow and pressure.

At the point of intersection, the following data can be read:

- Motor speed or number of poles 1.500 1/min - 4-pole
- Pitch angle: 30 degrees
- Absorbed power: 19,30 kW
- Sound Power Level: 114 dBA

Calculation of motor power

There are two possibilities to calculate the motor power:

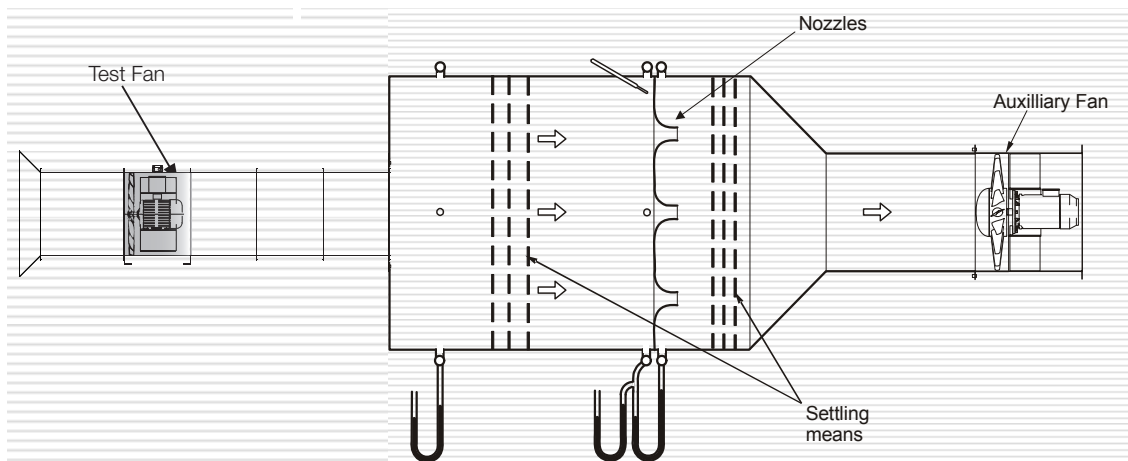
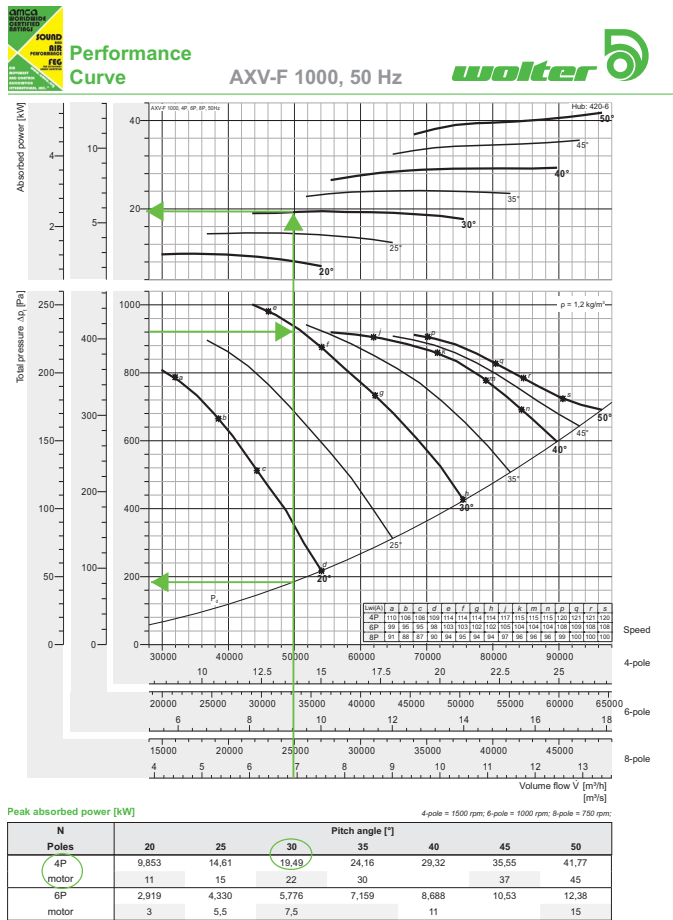
- Calculation of absorbed power by using the fan curve in duty point: 19,30 kW

Motor power: 22 kW

- Calculation according to peak absorbed power, see table below the fan curve: 19,49 kW

Motor power: 22 kW

The given peak absorbed power is the maximum shaft absorbed power over the whole pitch angle curve in.



AMCA 210 Figure 12  
ISO 5801 Figure 73b

# AMCA - FEG rating

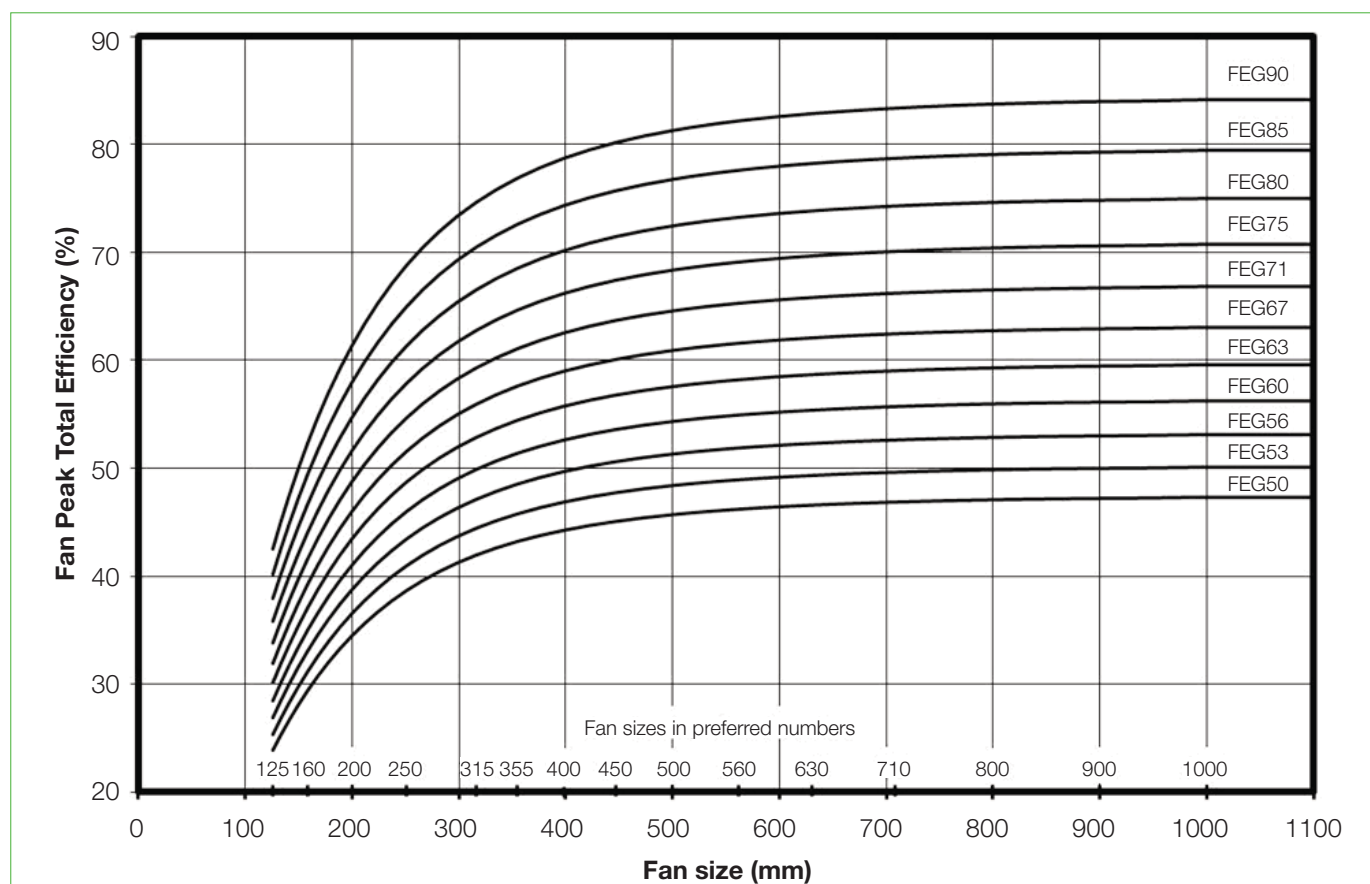
## Fan Efficiency Grade: AXV-F



Certified FEGs are determined in accordance with AMCA 205 Energy Efficiency Classification for fans. In conjunction with AMCA 211 Certified Ratings Program, Product Rating Manual for Fan Air Performance. This classification is based on total peak, or optimum, fan efficiency for a given fan speed, impeller diameter and test application category (test configuration). For the purpose of energy classification, the peak efficiency shall be determined at a speed that is lower than the fan's maximum design speed.

The AMCA Certified Ratings Seal applies to the Fan Efficiency Grade (FEG) for AXV-F series Axial Fan model AXV-F 500 to AXV-F 2800 as shown in the table below.

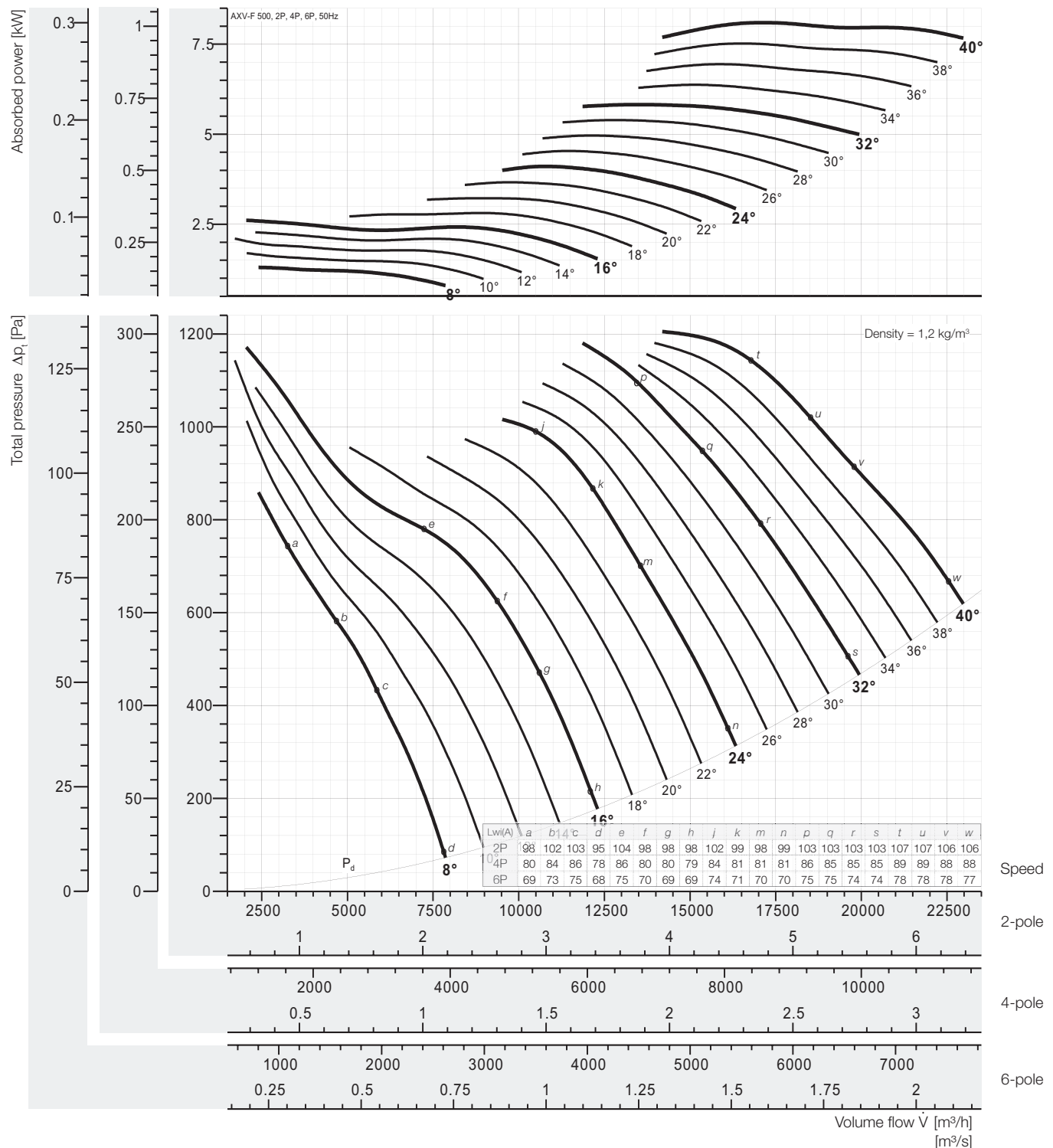
| Fan Model No.    | Fan Speed (rpm) | Fan Outlet Area (m2) | Fan Efficiency Grades | Fan Model No.     | Fan Speed (rpm) | Fan Outlet Area (m2) | Fan Efficiency Grade |
|------------------|-----------------|----------------------|-----------------------|-------------------|-----------------|----------------------|----------------------|
| AXV-F 500-150-6  | 3000/1500/1000  | 0,1987               | FEG 80                | AXV-F 1400-550-7  | 1500/1000/750   | 1,5504               | FEG 80               |
| AXV-F 560-168-6  | 3000/1500/1000  | 0,2507               | FEG 75                | AXV-F 1600-625-7  | 1500/1000/750   | 2,0232               | FEG 80               |
| AXV-F 630-200-6  | 3000/1500/1000  | 0,3157               | FEG 75                | AXV-F 1800-710-7  | 1000/750/600    | 2,5588               | FEG 80               |
| AXV-F 710-212-6  | 3000/1500/1000  | 0,3970               | FEG 75                | AXV-F 2000-785-7  | 1000/750/600    | 3,1573               | FEG 80               |
| AXV-F 800-238-6  | 1500/1000/750   | 0,4989               | FEG 75                | AXV-F 2200-862-7  | 750/600/500     | 3,8186               | FEG 80               |
| AXV-F 900-267-6  | 1500/1000/750   | 0,6277               | FEG 75                | AXV-F 2400-942-7  | 750/600/500     | 4,5428               | FEG 80               |
| AXV-F 1000-420-6 | 1500/1000/750   | 0,7901               | FEG 75                | AXV-F 2500-980-7  | 750/600/500     | 4,9284               | FEG 80               |
| AXV-F 1120-472-6 | 1500/1000/750   | 0,9940               | FEG 75                | AXV-F 2600-1020-7 | 750/600/500     | 5,3297               | FEG 80               |
| AXV-F 1250-525-6 | 1500/1000/750   | 1,2272               | FEG 75                | AXV-F 2800-1095-7 | 750/600/500     | 6,1795               | FEG 80               |





## Performance Curve

AXV-F 500-150-6, 50 Hz



### Peak absorbed power [kW]

2-pole = 3000 rpm; 4-pole = 1500 rpm; 6-pole = 1000 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 8               | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 36    | 38    | 40    |
| 2P         | 1,302           | 1,703 | 2,103 | 2,278 | 2,610 | 2,812 | 3,224 | 3,665 | 4,108 | 4,536 | 4,965 | 5,395 | 5,825 | 6,372 | 6,946 | 7,522 | 8,100 |
| motor      | 1,5             | 2,2   |       | 3,0   |       |       | 4,0   |       | -*    |       |       |       |       |       |       |       |       |
| 4P         | 0,163           | 0,213 | 0,263 | 0,285 | 0,326 | 0,352 | 0,403 | 0,458 | 0,514 | 0,567 | 0,621 | 0,674 | 0,728 | 0,797 | 0,868 | 0,940 | 1,012 |
| motor      | 0,25            |       |       | 0,37  |       |       | 0,55  |       | 0,75  |       |       |       |       | 1,1   |       |       |       |
| 6P         | 0,048           | 0,063 | 0,078 | 0,084 | 0,097 | 0,104 | 0,119 | 0,136 | 0,152 | 0,168 | 0,184 | 0,200 | 0,216 | 0,236 | 0,257 | 0,279 | 0,300 |
| motor      | 0,25            |       |       |       |       |       |       |       |       |       |       |       |       |       | 0,37  |       |       |

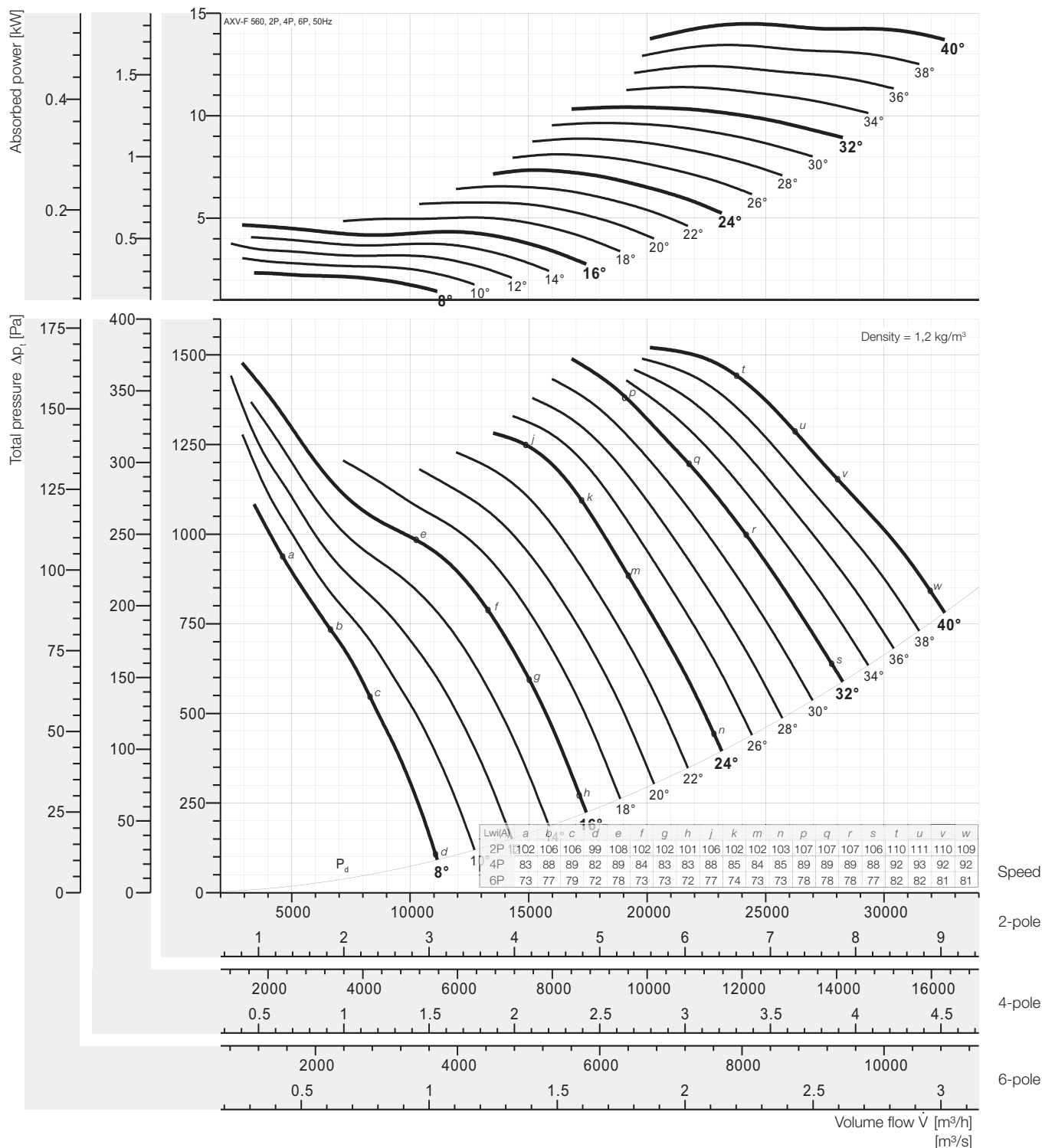
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 560-168-6, 50 Hz



### Peak absorbed power [kW]

2-pole = 3000 rpm; 4-pole = 1500 rpm; 6-pole = 1000 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 8               | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 40    |
| 2P         | 2,329           | 3,045 | 3,761 | 4,073 | 4,667 | 5,028 | 5,765 | 6,553 | 7,345 | 8,111 | 8,878 | 9,646 | 10,42 | 11,39 | 14,48 |
| motor      | 3,0             | 4,0   |       | 5,5   |       |       | 7,5   |       |       | 11    |       |       |       | 15    |       |
| 4P         | 0,291           | 0,381 | 0,470 | 0,509 | 0,583 | 0,629 | 0,721 | 0,819 | 0,918 | 1,014 | 1,110 | 1,206 | 1,302 | 1,424 | 1,810 |
| motor      | 0,37            | 0,55  |       |       | 0,75  |       |       | 1,1   |       |       | 1,5   |       |       | 2,2   |       |
| 6P         | 0,086           | 0,113 | 0,139 | 0,151 | 0,173 | 0,186 | 0,214 | 0,243 | 0,272 | 0,300 | 0,329 | 0,357 | 0,386 | 0,422 | 0,536 |
| motor      | 0,25            |       |       |       |       |       |       |       |       | 0,37  |       |       | 0,55  |       |       |

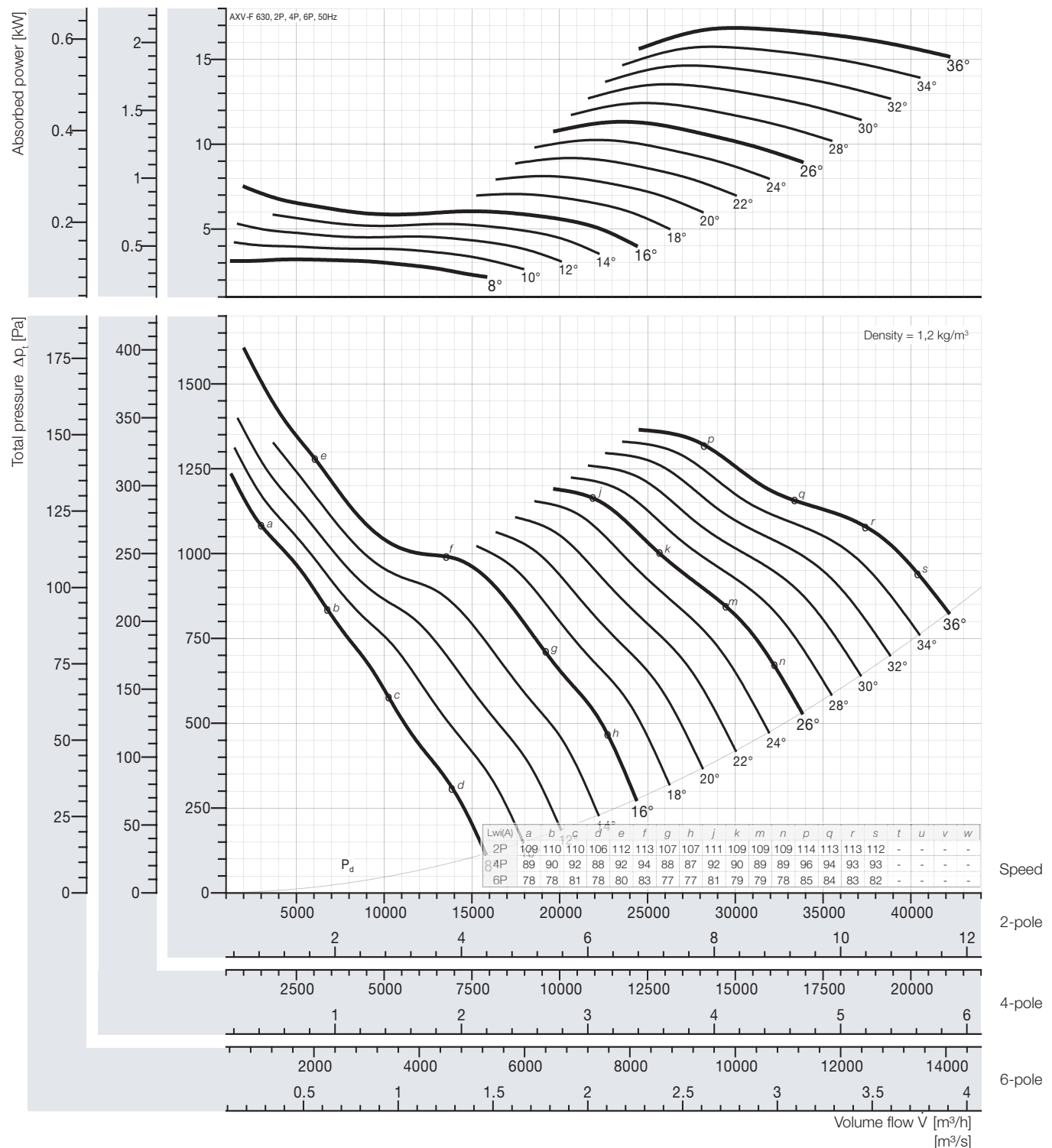
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 630-200-6, 50 Hz



### Peak absorbed power [kW]

2-pole = 3000 rpm; 4-pole = 1500 rpm; 6-pole = 1000 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|
|            | 8               | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 36    | 38 | 40 |
| 2P         | 3,211           | 4,214 | 5,306 | 6,398 | 6,754 | 7,062 | 8,121 | 9,181 | 10,24 | 11,30 | 12,40 | 13,51 | 14,62 | 15,73 | 16,84 | -  | -  |
| motor      | 4,0             | 5,5   |       | 7,5   |       |       | 11    |       |       | 15    |       |       |       | 18,5  |       |    |    |
| 4P         | 0,401           | 0,527 | 0,663 | 0,800 | 0,844 | 0,883 | 1,015 | 1,148 | 1,280 | 1,412 | 1,550 | 1,689 | 1,828 | 1,967 | 2,105 | -  | -  |
| motor      | 0,55            |       | 0,75  | 1,1   |       |       |       | 1,5   |       |       | 2,2   |       |       |       |       |    |    |
| 6P         | 0,119           | 0,156 | 0,197 | 0,237 | 0,250 | 0,262 | 0,301 | 0,340 | 0,379 | 0,419 | 0,459 | 0,500 | 0,542 | 0,583 | 0,624 | -  | -  |
| motor      | 0,25            |       |       |       |       | 0,37  |       |       | 0,55  |       |       |       |       | 0,75  |       |    |    |

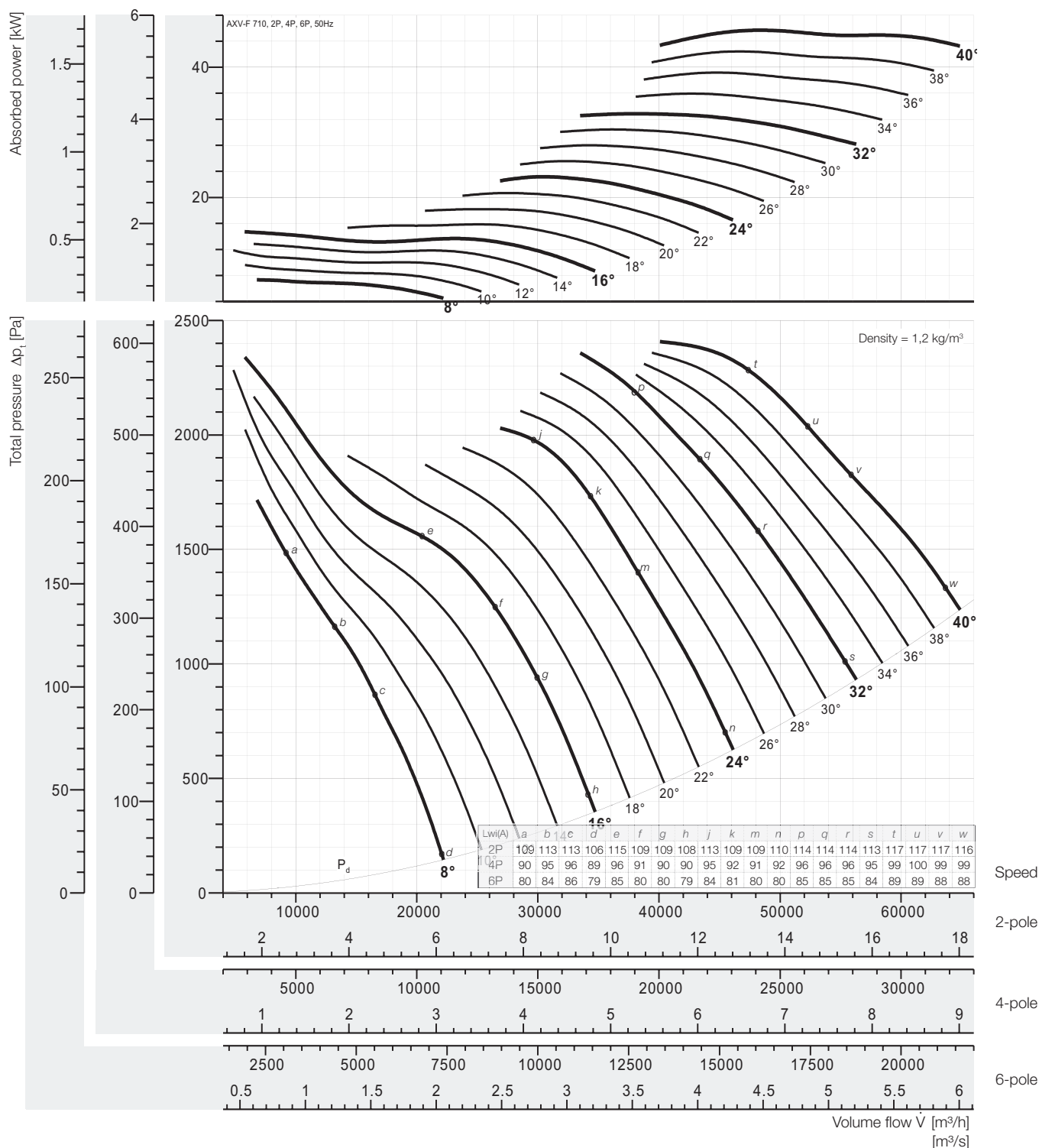
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 710-212-6, 50 Hz



### Peak absorbed power [kW]

2-pole = 3000 rpm; 4-pole = 1500 rpm; 6-pole = 1000 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|
|            | 8               | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 36    | 38    | 40    |  |  |  |
| 2P         | 7,347           | 9,606 | 11,86 | 12,85 | 14,73 | 15,86 | 18,19 | 20,67 | 23,17 | 25,59 | 28,01 | 30,43 | 32,86 | 35,95 | 39,18 | 42,43 | 45,69 |  |  |  |
| motor      | 7,5             | 11    | 15    |       |       | 18,5  |       | 22    | -*    |       |       |       |       |       |       |       |       |  |  |  |
| 4P         | 0,918           | 1,201 | 1,483 | 1,606 | 1,841 | 1,983 | 2,274 | 2,584 | 2,897 | 3,199 | 3,501 | 3,804 | 4,107 | 4,494 | 4,898 | 5,304 | 5,711 |  |  |  |
| motor      | 1,1             | 1,5   |       | 2,2   |       |       | 3,0   |       |       | 4,0   |       |       | 5,5   |       |       |       | 7,5   |  |  |  |
| 6P         | 0,272           | 0,356 | 0,439 | 0,476 | 0,545 | 0,588 | 0,674 | 0,766 | 0,858 | 0,948 | 1,037 | 1,127 | 1,217 | 1,331 | 1,451 | 1,572 | 1,692 |  |  |  |
| motor      | 0,37            |       | 0,55  |       |       | 0,75  |       | 1,1   |       |       |       | 1,5   |       |       |       | 2,2   |       |  |  |  |

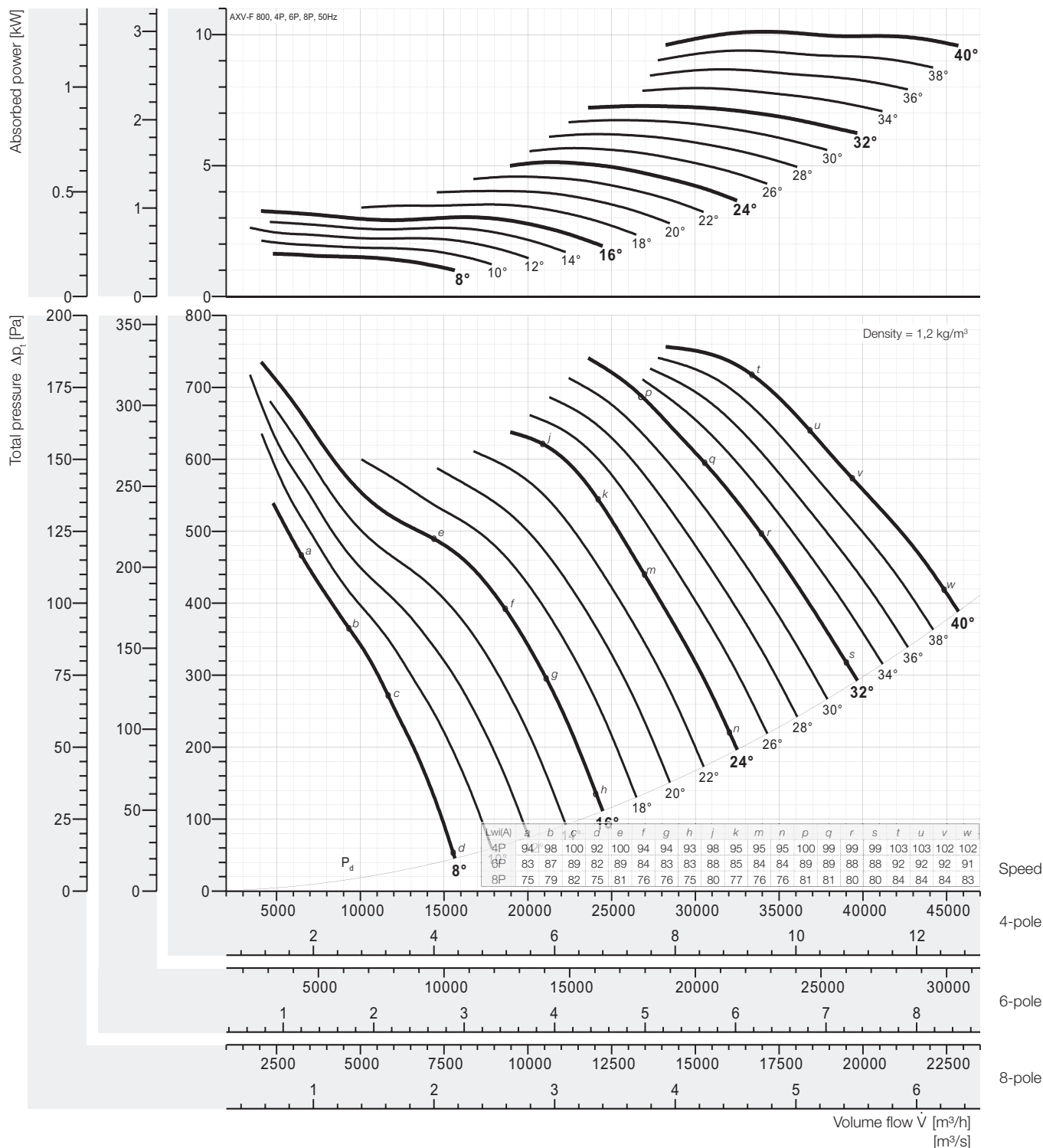
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 800-238-6, 50 Hz



### Peak absorbed power [kW]

4-pole = 1500 rpm; 6-pole = 1000 rpm; 8-pole = 750 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 8               | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34    |
| 4P         | 1,626           | 2,126 | 2,626 | 2,844 | 3,260 | 3,512 | 4,026 | 4,576 | 5,130 | 5,665 | 6,200 | 6,737 | 7,274 | 7,957 |
| motor      | 2,2             |       | 3,0   |       | 4,0   |       | 5,5   |       | 7,5   |       |       |       | 11    |       |
| 6P         | 0,482           | 0,630 | 0,778 | 0,843 | 0,966 | 1,040 | 1,193 | 1,356 | 1,520 | 1,678 | 1,837 | 1,996 | 2,155 | 2,358 |
| motor      | 0,55            | 0,75  | 1,1   |       |       |       | 1,5   |       | 2,2   |       |       |       | 3,0   |       |
| 8P         | 0,203           | 0,266 | 0,328 | 0,356 | 0,407 | 0,439 | 0,503 | 0,572 | 0,641 | 0,708 | 0,775 | 0,842 | 0,909 | 0,995 |
| motor      | 0,37            |       |       |       | 0,55  |       |       | 0,75  |       |       | 1,1   |       |       | 1,5   |

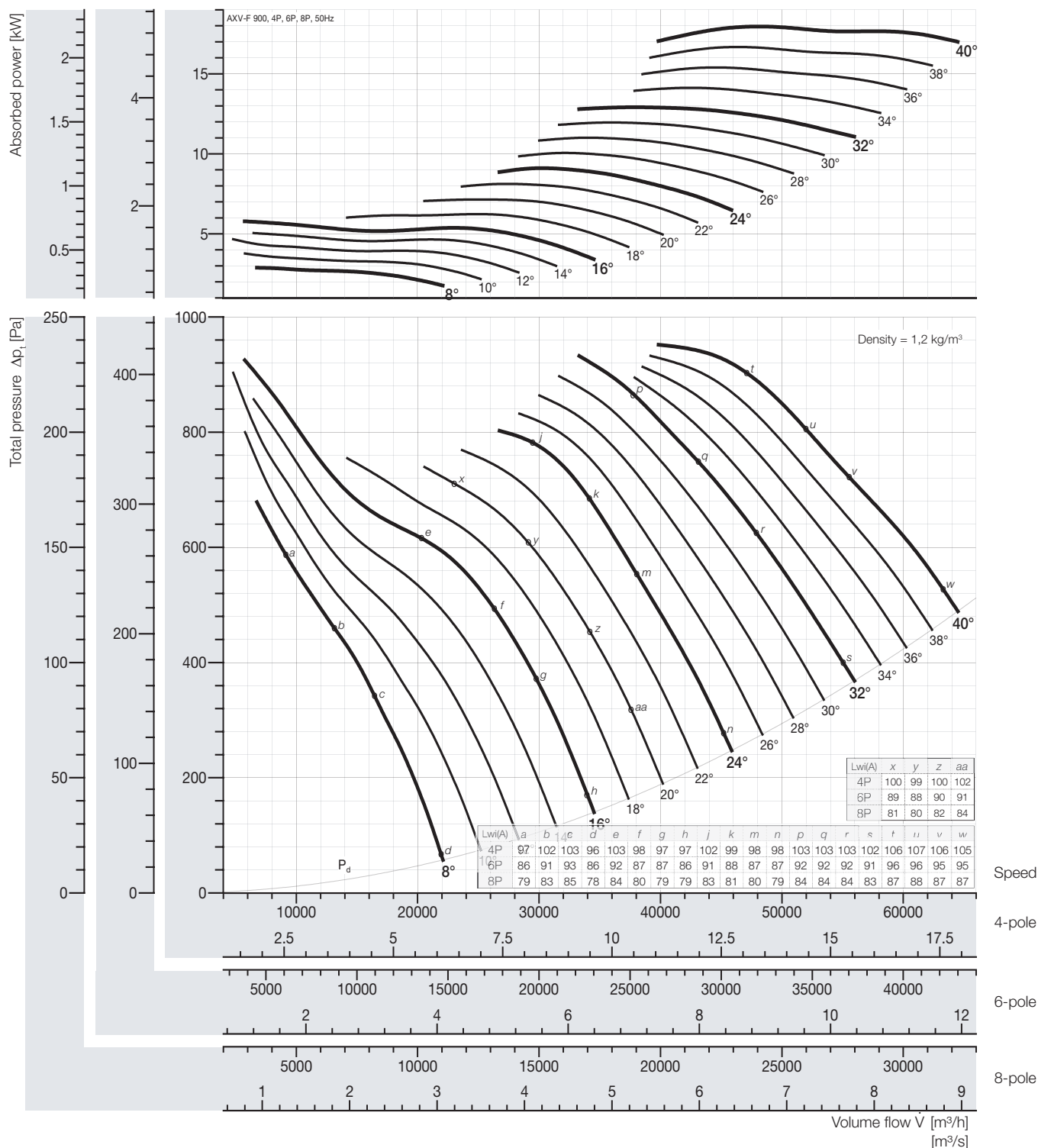
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 900-267-6, 50 Hz



### Peak absorbed power [kW]

4-pole = 1500 rpm; 6-pole = 1000 rpm; 8-pole = 750 rpm;

| N<br>Poles  | Pitch angle [°] |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|             | 8               | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 36    | 38    | 40    |
| 4P<br>motor | 2,888           | 3,775 | 4,663 | 5,050 | 5,787 | 6,235 | 7,149 | 8,125 | 9,108 | 10,06 | 11,00 | 11,96 | 12,91 | 14,13 | 15,40 | 16,68 | 17,96 |
|             | 3,0             | 4,0   | 5,5   |       | 7,5   |       |       | 11    |       |       |       | 15    |       |       | 18,5  |       |       |
| 6P<br>motor | 0,856           | 1,119 | 1,382 | 1,496 | 1,715 | 1,847 | 2,118 | 2,407 | 2,699 | 2,980 | 3,262 | 3,544 | 3,826 | 4,186 | 4,563 | 4,941 | 5,321 |
|             | 1,1             | 1,5   |       |       | 2,2   |       |       | 3,0   |       |       | 4,0   |       |       | 5,5   |       |       |       |
| 8P<br>motor | 0,361           | 0,472 | 0,583 | 0,631 | 0,723 | 0,779 | 0,894 | 1,016 | 1,138 | 1,257 | 1,376 | 1,495 | 1,614 | 1,766 | 1,925 | 2,085 | 2,245 |
|             | 0,37            | 0,55  | 0,75  |       |       | 1,1   |       |       | 1,5   |       |       |       | 2,2   |       |       |       | 3,0   |

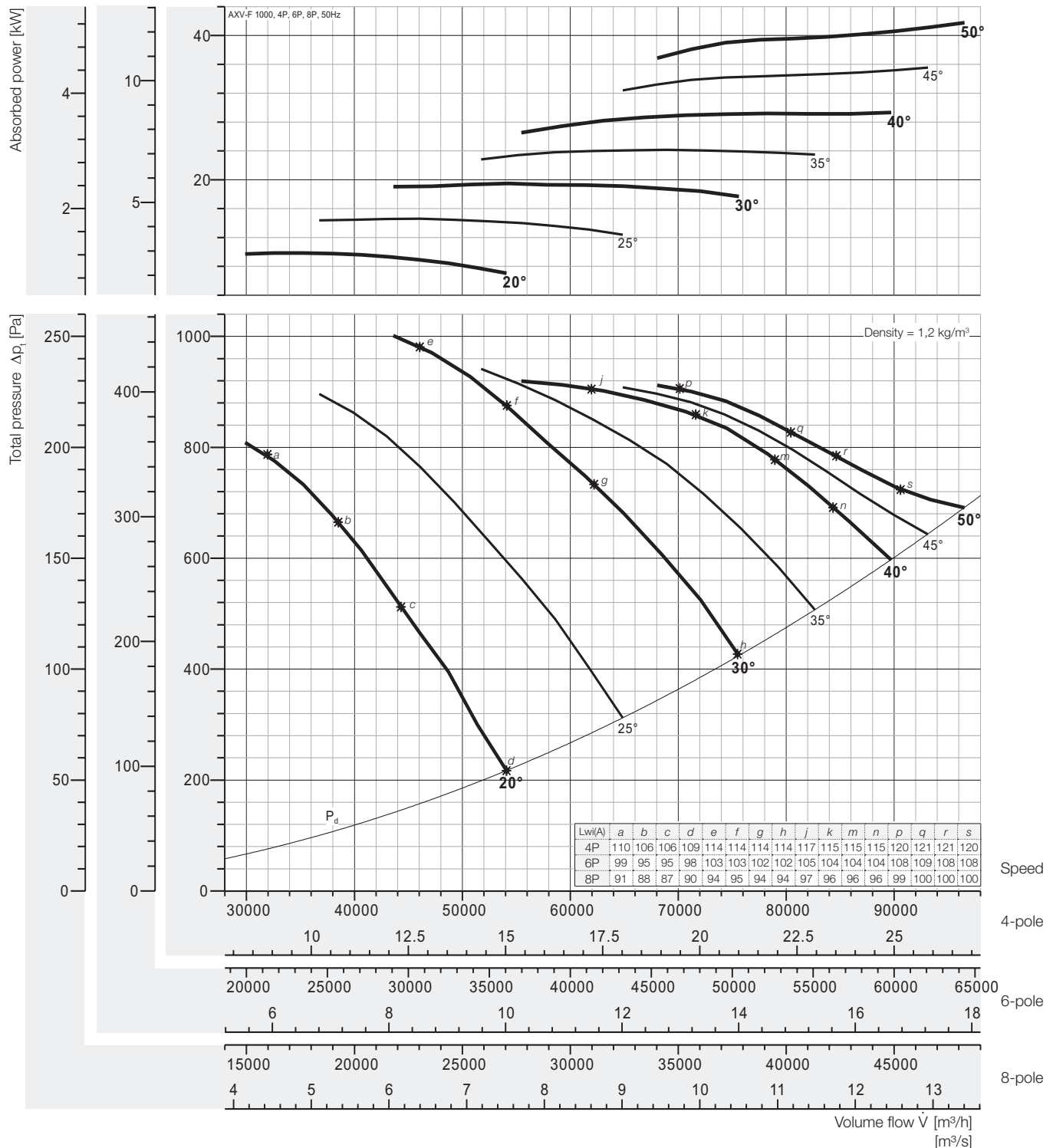
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 1000-420-6, 50 Hz



### Peak absorbed power [kW]

4-pole = 1500 rpm; 6-pole = 1000 rpm; 8-pole = 750 rpm;

| N<br>Poles  | Pitch angle [°] |       |       |       |       |       |       |
|-------------|-----------------|-------|-------|-------|-------|-------|-------|
|             | 20              | 25    | 30    | 35    | 40    | 45    | 50    |
| 4P<br>motor | 9,853           | 14,61 | 19,49 | 24,16 | 29,32 | 35,55 | 41,77 |
|             | 11              | 15    | 22    | 30    |       | 37    | 45    |
| 6P<br>motor | 2,919           | 4,330 | 5,776 | 7,159 | 8,688 | 10,53 | 12,38 |
|             | 3               | 5,5   | 7,5   |       | 11    |       | 15    |
| 8P<br>motor | 1,232           | 1,827 | 2,437 | 3,020 | 3,665 | 4,443 | 5,222 |
|             | 1,5             | 2,2   | 3     | 4     |       | 5,5   |       |

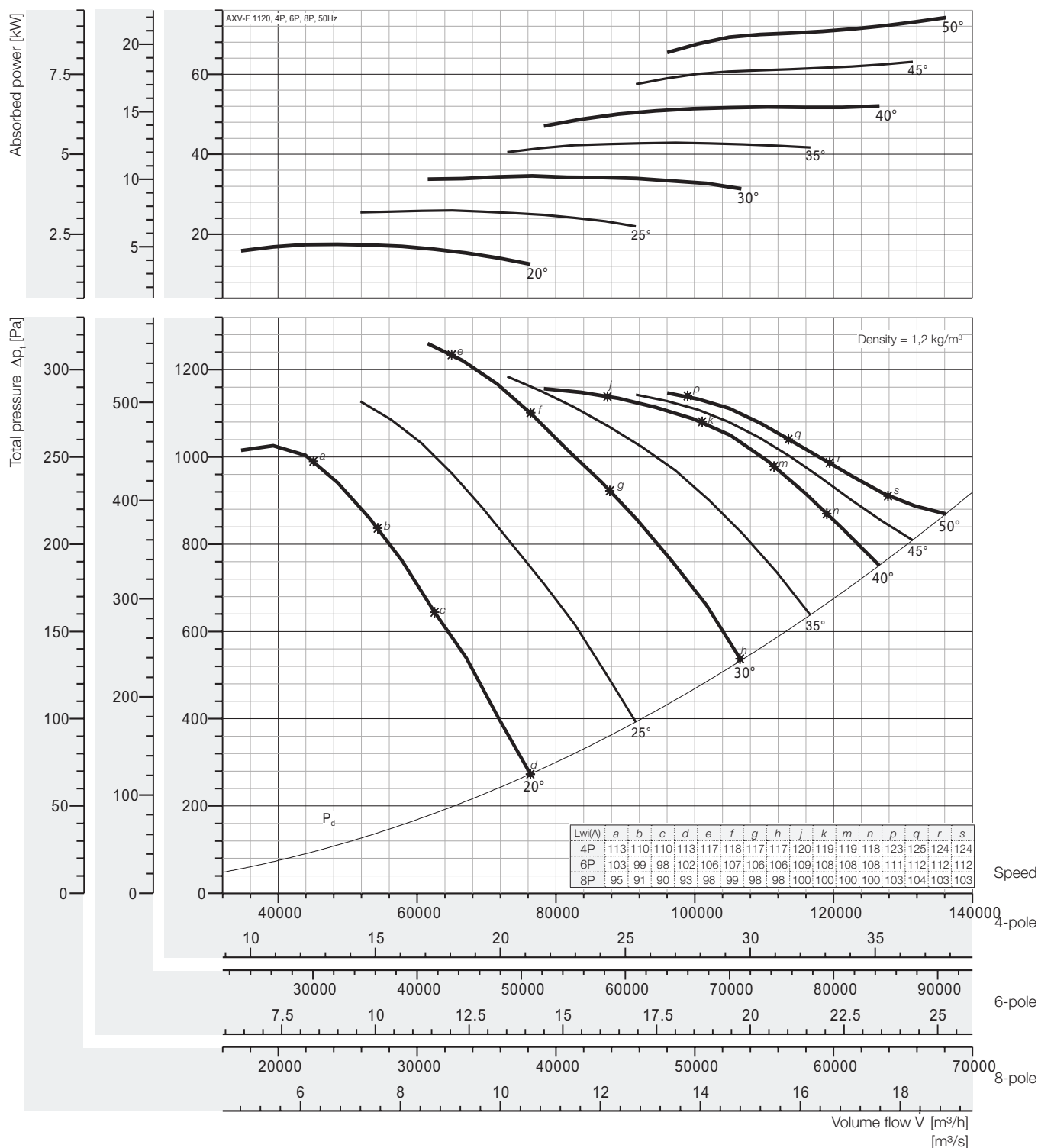
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 1120-472-6, 50 Hz



### Peak absorbed power [kW]

4-pole = 1500 rpm; 6-pole = 1000 rpm; 8-pole = 750 rpm;

| N<br>Poles  | Pitch angle [°] |       |       |       |       |       |       |
|-------------|-----------------|-------|-------|-------|-------|-------|-------|
|             | 20              | 25    | 30    | 35    | 40    | 45    | 50    |
| 4P<br>motor | 17,51           | 25,94 | 34,60 | 42,89 | 52,05 | 63,11 | 74,16 |
|             | 18,5            | 30    | 37    | 45    | 55    | 75    |       |
| 6P<br>motor | 5,187           | 7,686 | 10,25 | 12,71 | 15,42 | 18,70 | 21,97 |
|             | 5,5             | 11    |       | 15    | 18,5  | 22    |       |
| 8P<br>motor | 2,188           | 3,243 | 4,326 | 5,361 | 6,506 | 7,888 | 9,270 |
|             | 2,2             | 4     | 5,5   |       | 7,5   | 11    |       |

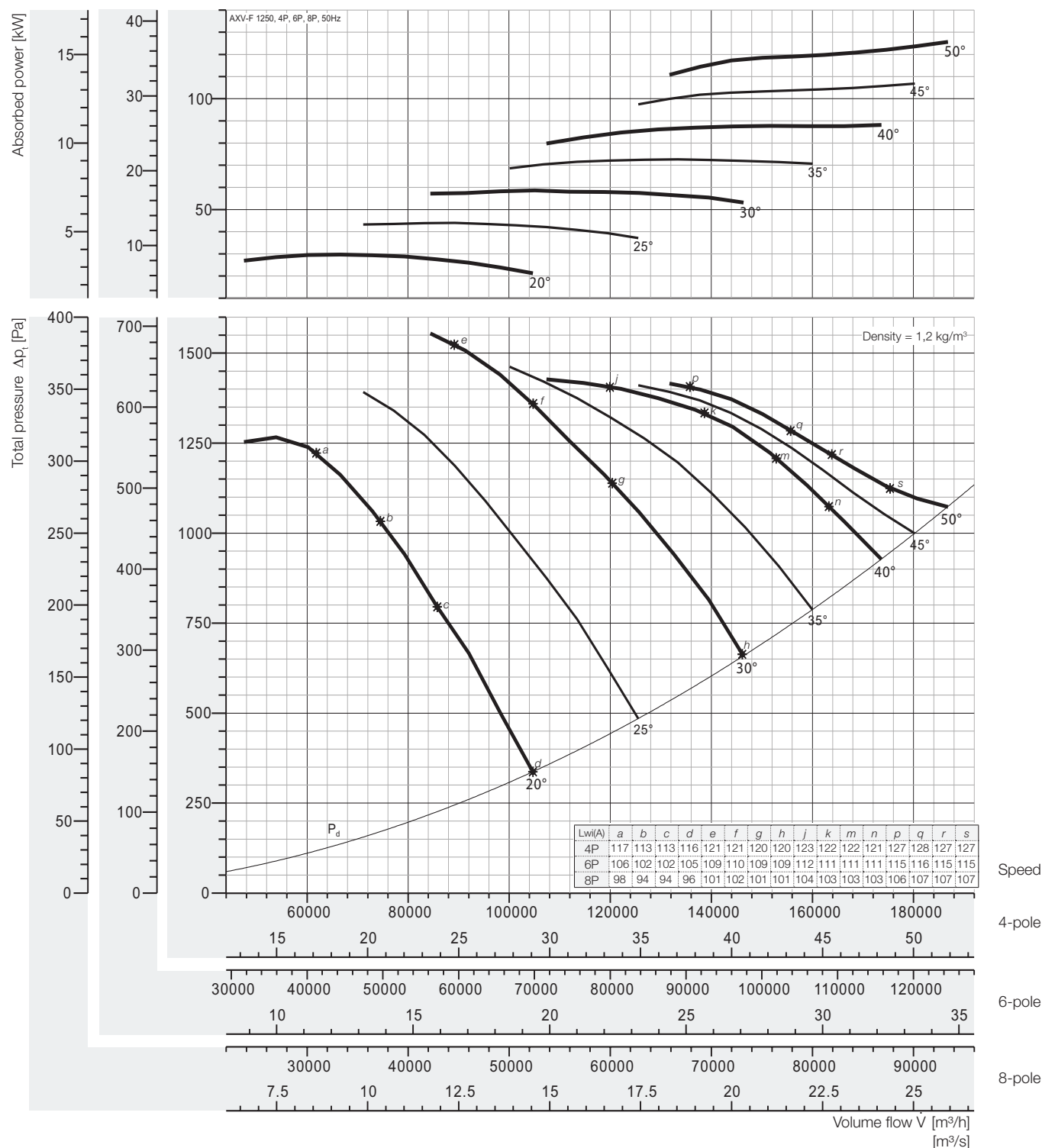
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 1250-525-6, 50 Hz



### Peak absorbed power [kW]

4-pole = 1500 rpm; 6-pole = 1000 rpm; 8-pole = 750 rpm;

| N<br>Poles  | Pitch angle [°] |       |       |       |       |       |       |
|-------------|-----------------|-------|-------|-------|-------|-------|-------|
|             | 20              | 25    | 30    | 35    | 40    | 45    | 50    |
| 4P<br>motor | 29,65           | 43,93 | 58,60 | 72,64 | 88,15 | 106,9 | 125,6 |
|             | 30              | 45    | 75    | 90    | -     | -     | -     |
| 6P<br>motor | 8,78            | 13,02 | 17,36 | 21,52 | 26,12 | 31,66 | 37,21 |
|             | 11              | 15    | 18,5  | 22    | 30    | 37    | 45    |
| 8P<br>motor | 3,706           | 5,492 | 7,325 | 9,080 | 11,02 | 13,36 | 15,70 |
|             | 4               | 5,5   | 7,5   | 11    | 15    | -     | 18,5  |

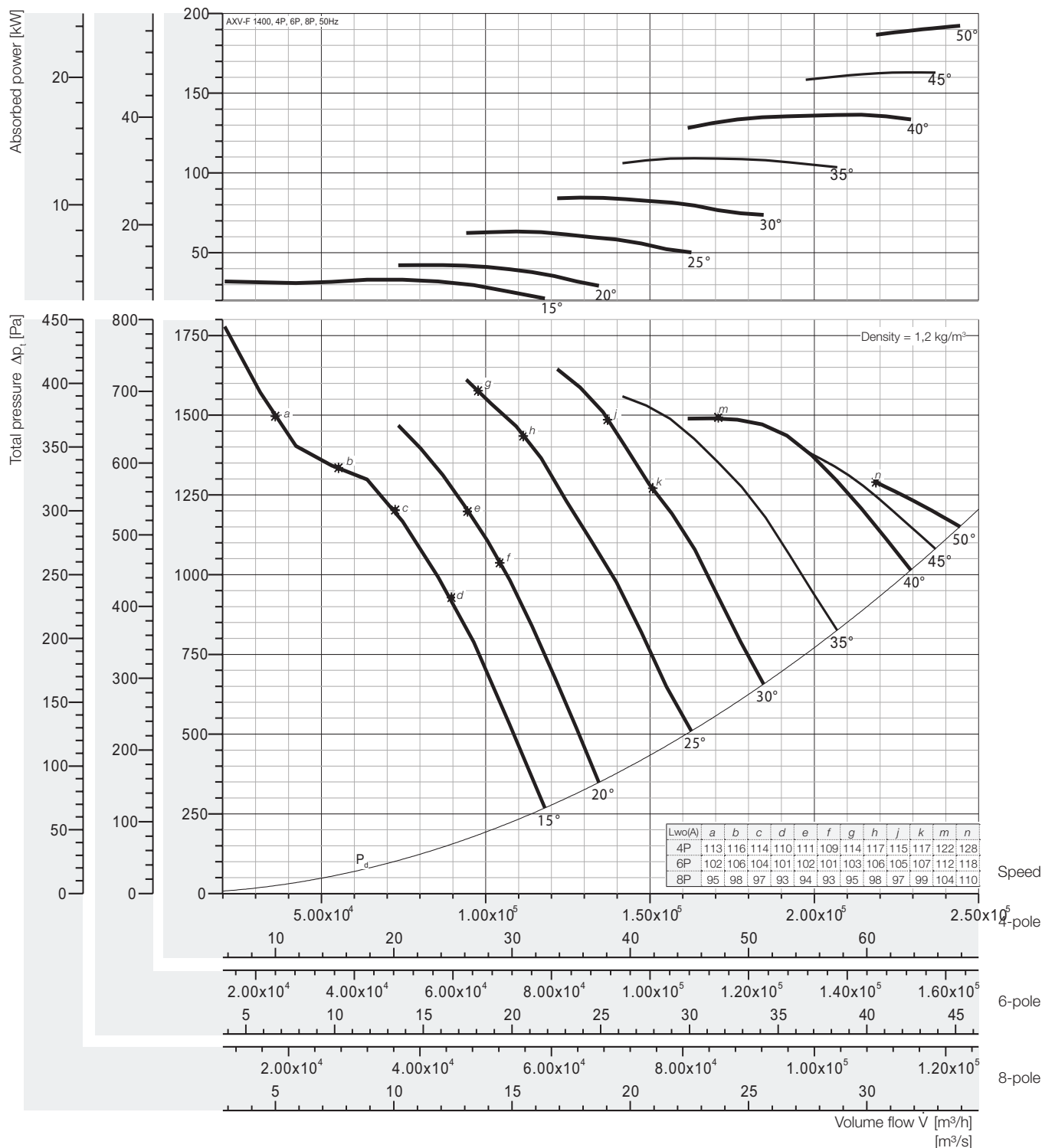
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 1400-550-7, 50 Hz



### Peak absorbed power [kW]

4-pole = 1500 rpm; 6-pole = 1000 rpm; 8-pole = 750 rpm;

| N<br>Poles  | Pitch angle [°] |       |       |       |       |       |       |       |
|-------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|             | 15              | 20    | 25    | 30    | 35    | 40    | 45    | 50    |
| 4P<br>motor | 33,14           | 42,28 | 63,27 | 84,50 | 109,2 | 136,5 | 163,1 | 192,3 |
|             | 37              | 45    | 75    | 90    | 110   | 160   | 200   |       |
| 6P<br>motor | 9,819           | 12,53 | 18,75 | 25,04 | 32,36 | 40,45 | 48,32 | 56,98 |
|             | 11              | 15    | 22    | 30    | 37    | 45    | 55    | 75    |
| 8P<br>motor | 4,142           | 5,285 | 7,908 | 10,56 | 13,65 | 17,06 | 20,38 | 24,04 |
|             | 5,5             |       | 11    |       | 15    | 18,5  | 22    | 30    |

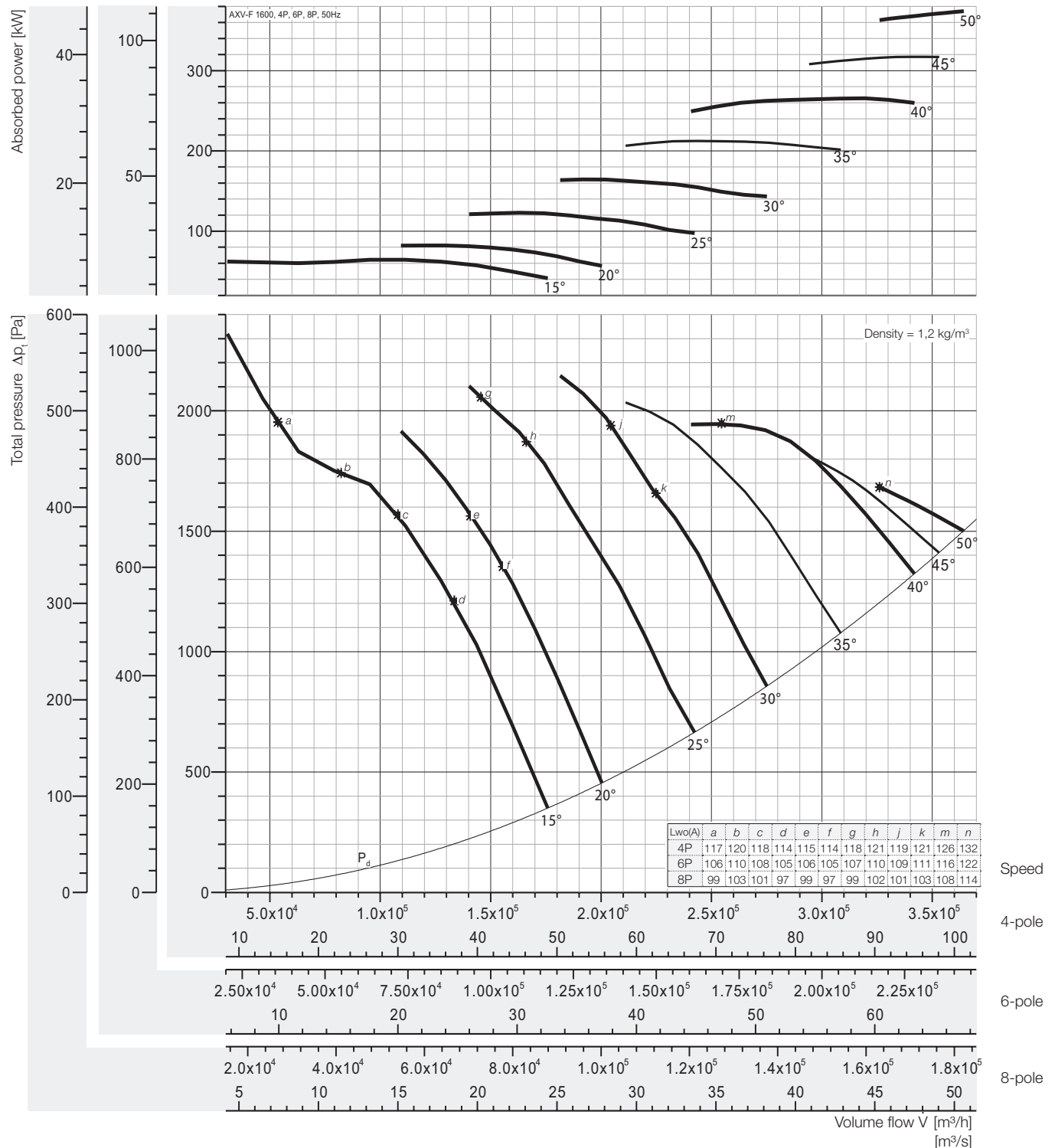
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwoA sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 1600-625-7, 50 Hz



### Peak absorbed power [kW]

4-pole = 1500 rpm; 6-pole = 1000 rpm; 8-pole = 750 rpm;

| N<br>Poles  | Pitch angle [°] |       |       |       |       |       |       |       |
|-------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|             | 15              | 20    | 25    | 30    | 35    | 40    | 45    | 50    |
| 4P<br>motor | 64,46           | 82,25 | 123,1 | 164,4 | 212,4 | 265,6 | 317,2 | 374,1 |
|             | 75              | 90    | 132   | 200   | 250   | 315   | 355   | 400   |
| 6P<br>motor | 19,10           | 24,37 | 36,47 | 48,71 | 62,94 | 78,68 | 93,99 | 110,8 |
|             | 22              | 30    | 37    | 55    | 75    | 90    | 110   | 132   |
| 8P<br>motor | 8,058           | 10,28 | 15,38 | 20,55 | 26,55 | 33,19 | 39,65 | 46,76 |
|             | 11              |       | 18,5  | 22    | 30    | 37    | 45    | 55    |

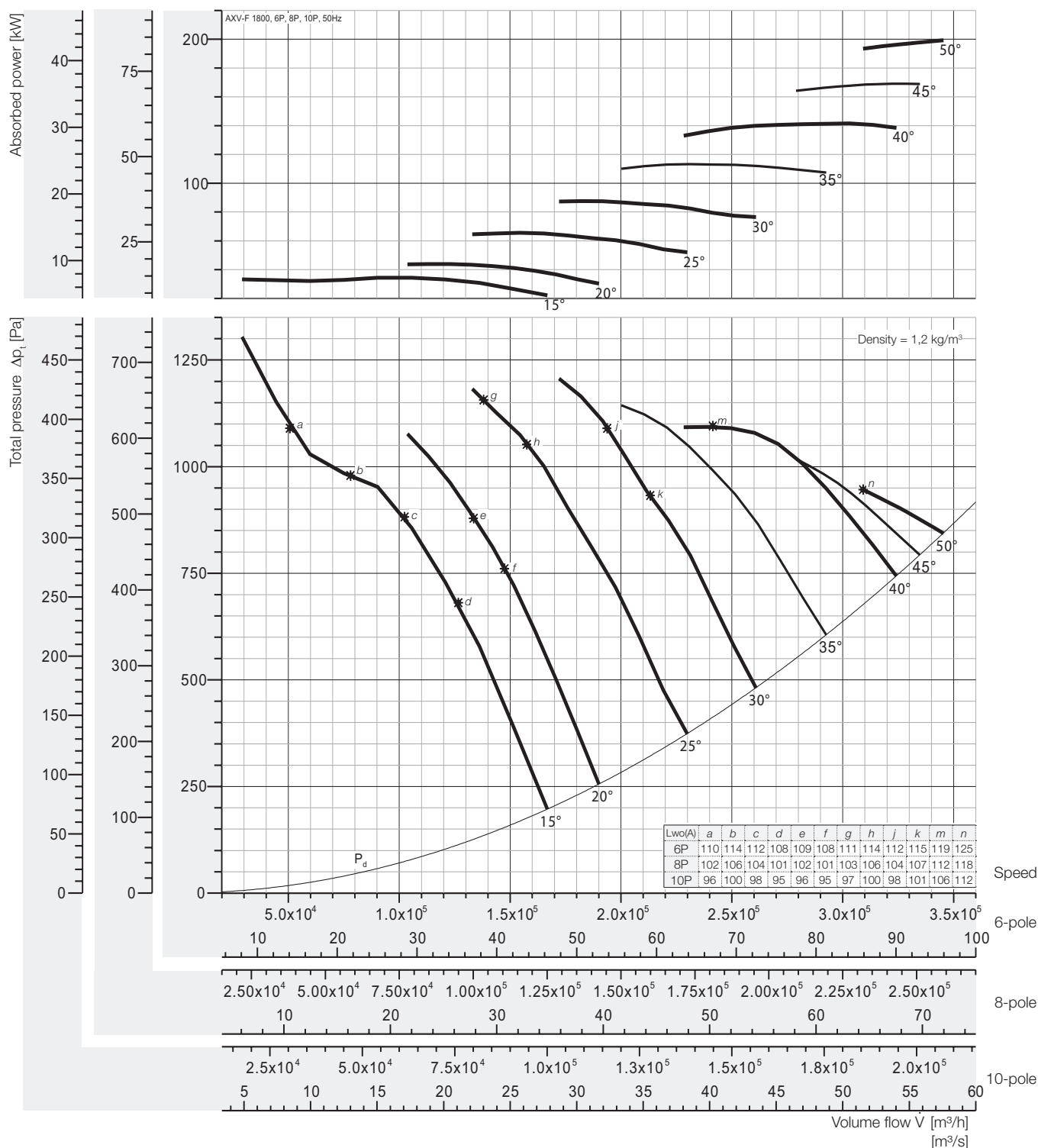
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified is for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lw(A) sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 1800-710-7, 50 Hz



### Peak absorbed power [kW]

6-pole = 1000 rpm; 8-pole = 750 rpm; 10-pole = 600 rpm;

| N<br>Poles   | Pitch angle [°] |       |       |       |       |       |       |
|--------------|-----------------|-------|-------|-------|-------|-------|-------|
|              | 15              | 20    | 25    | 30    | 35    | 40    | 50    |
| 6P<br>motor  | 34,36           | 43,84 | 65,60 | 87,62 | 113,2 | 141,5 | 169,1 |
|              | 37              | 45    | 75    | 90    | 132   | 160   | 200   |
| 8P<br>motor  | 14,50           | 18,49 | 27,68 | 36,96 | 47,77 | 59,71 | 84,12 |
|              | 15              | 18,5  | 30    | 37    | 55    | 75    | 90    |
| 10P<br>motor | 7,422           | 9,470 | 14,17 | 18,93 | 24,46 | 30,57 | 43,07 |
|              | 7,5             | 11    | 15    | 22    | 30    | 37    | 45    |

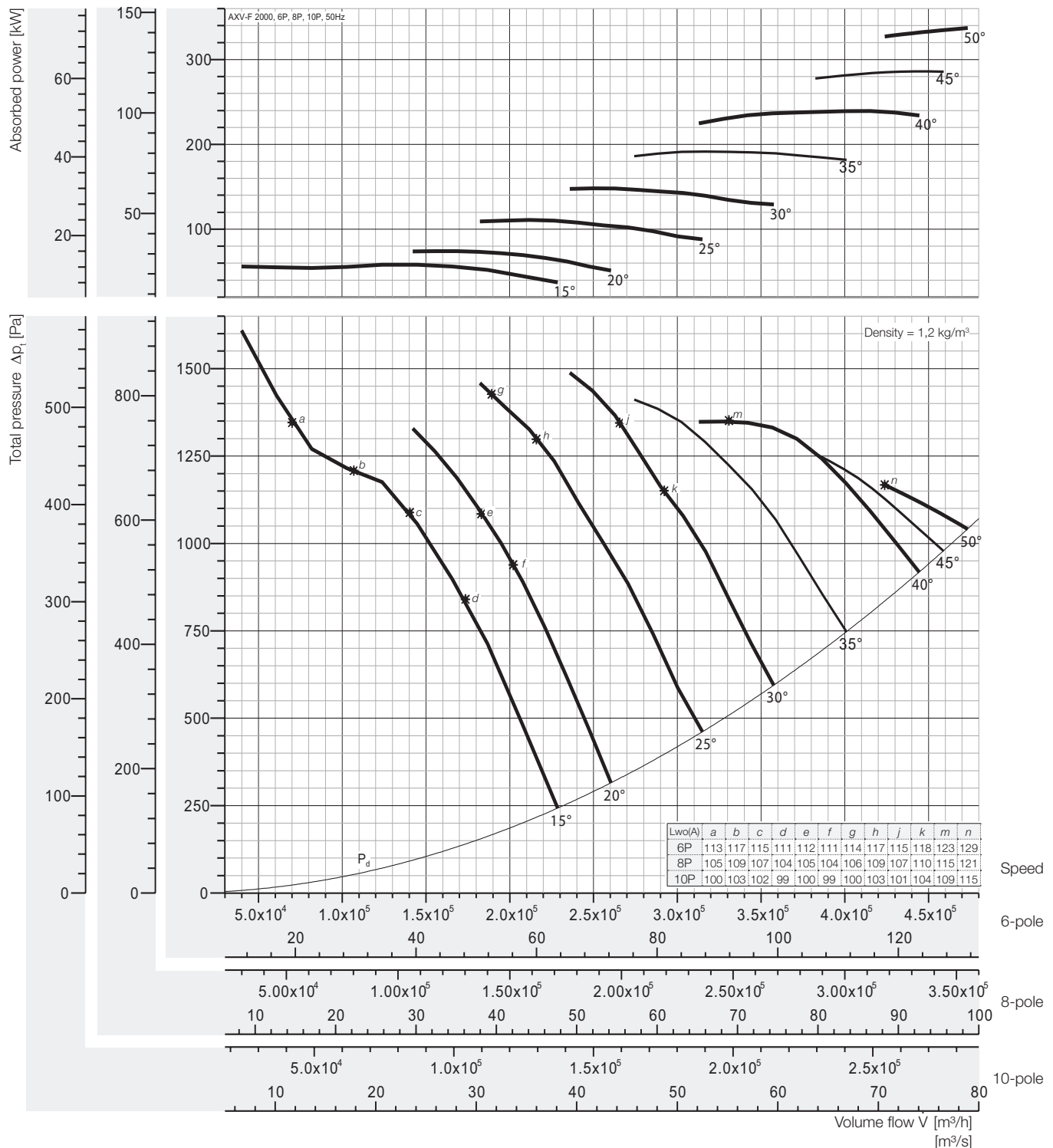
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwoA sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 2000-785-7, 50 Hz



### Peak absorbed power [kW]

6-pole = 1000 rpm; 8-pole = 750 rpm; 10-pole = 600 rpm;

| N<br>Poles   | Pitch angle [°] |       |       |       |       |       |       |       |
|--------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|              | 15              | 20    | 25    | 30    | 35    | 40    | 45    | 50    |
| 6P<br>motor  | 58,11           | 74,14 | 110,9 | 148,2 | 191,5 | 239,4 | 285,9 | 337,2 |
|              | 75              |       | 132   | 160   | 200   | 250   | 315   | 355   |
| 8P<br>motor  | 24,51           | 31,28 | 46,80 | 62,51 | 80,79 | 101,0 | 120,6 | 142,2 |
|              | 30              | 37    | 55    | 75    | 90    | 110   | 132   | 160   |
| 10P<br>motor | 12,55           | 16,01 | 23,96 | 32,01 | 41,36 | 51,71 | 61,76 | 72,84 |
|              | 15              | 18,5  | 30    | 37    | 45    | 55    | 75    |       |

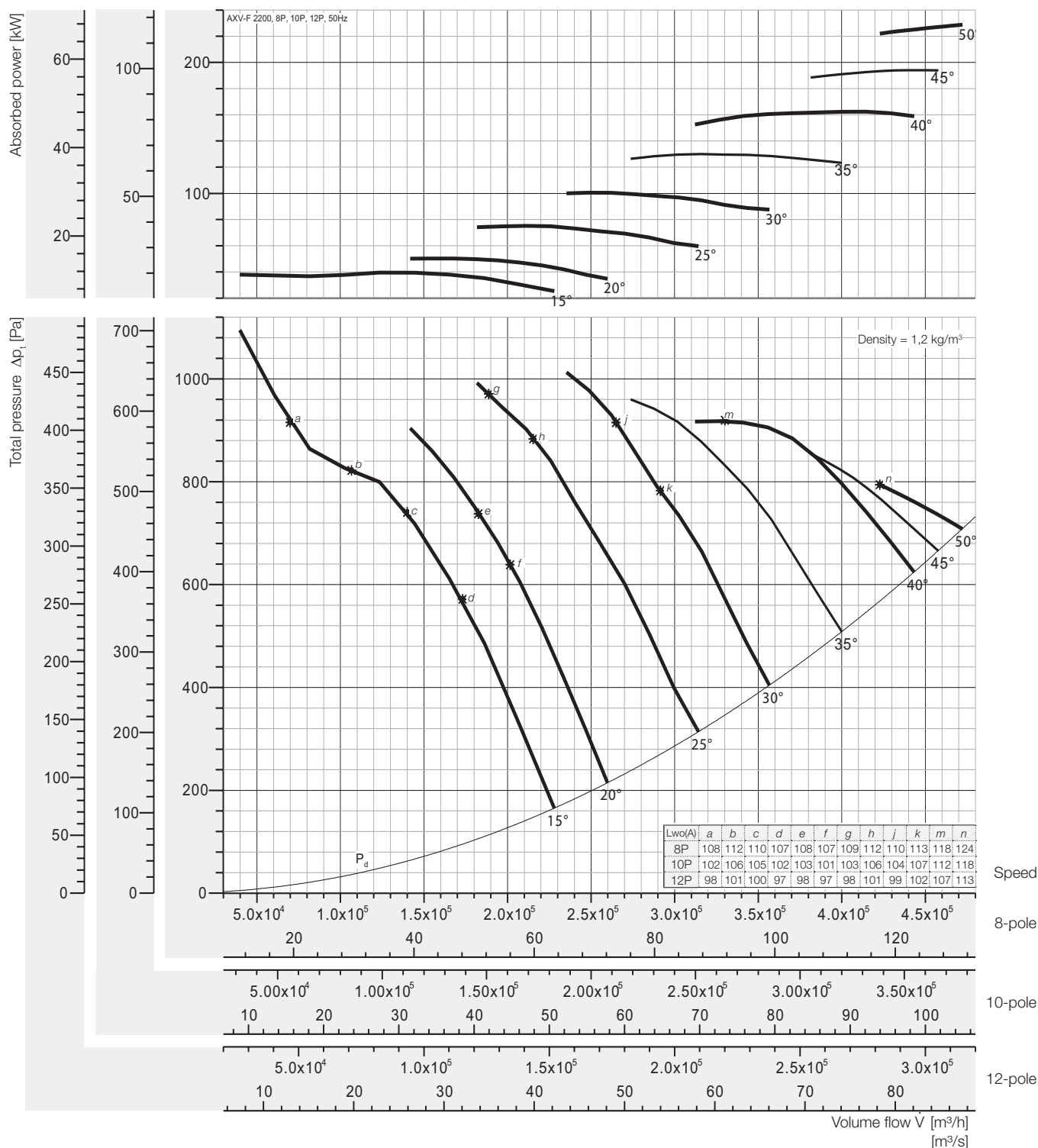
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified is for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwoA sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 2200-862-7, 50 Hz



### Peak absorbed power [kW]

8-pole = 750 rpm; 10-pole = 600 rpm; 12-pole = 500 rpm;

| N<br>Poles   | Pitch angle [°] |       |       |       |       |       |       |
|--------------|-----------------|-------|-------|-------|-------|-------|-------|
|              | 15              | 20    | 25    | 30    | 35    | 40    | 50    |
| 8P<br>motor  | 39,44           | 50,32 | 75,29 | 100,6 | 130,0 | 162,4 | 228,8 |
|              | 45              | 55    | 90    | 110   | 132   | 200   | 250   |
| 10P<br>motor | 20,19           | 25,76 | 38,55 | 51,49 | 66,54 | 83,18 | 117,2 |
|              | 22              | 30    | 45    | 55    | 75    | 90    | 132   |
| 12P<br>motor | 11,68           | 14,91 | 22,31 | 29,80 | 38,51 | 48,14 | 67,81 |
|              | 15              |       | 30    |       | 45    | 55    | 75    |

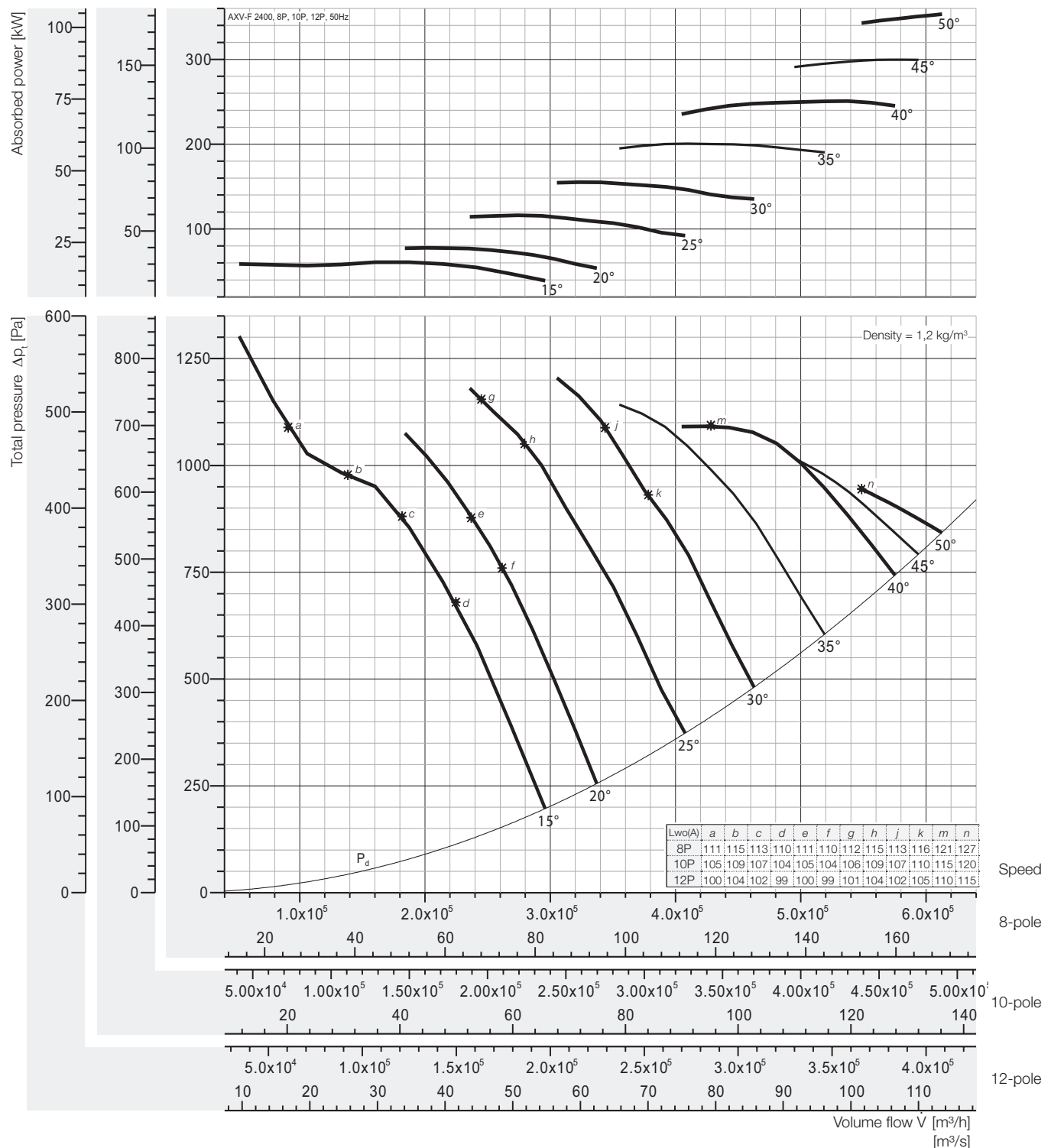
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwoA sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 2400-942-7, 50 Hz



### Peak absorbed power [kW]

8-pole = 750 rpm; 10-pole = 600 rpm; 12-pole = 500 rpm;

| N<br>Poles   | Pitch angle [°] |       |       |       |       |       |       |       |
|--------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|              | 15              | 20    | 25    | 30    | 35    | 40    | 45    | 50    |
| 8P<br>motor  | 60,87           | 77,67 | 116,2 | 155,2 | 200,6 | 250,8 | 299,5 | 353,2 |
|              | 75              | 90    | 132   | 160   | 250   | 315   |       | 355   |
| 10P<br>motor | 31,17           | 39,77 | 59,50 | 79,48 | 102,7 | 128,4 | 153,4 | 180,9 |
|              | 37              | 45    | 75    | 90    | 110   | 132   | 160   | 200   |
| 12P<br>motor | 18,04           | 23,01 | 34,44 | 45,99 | 59,44 | 74,30 | 88,76 | 104,7 |
|              | 18,5            | 30    | 37    | 55    | 75    |       | 90    | 110   |

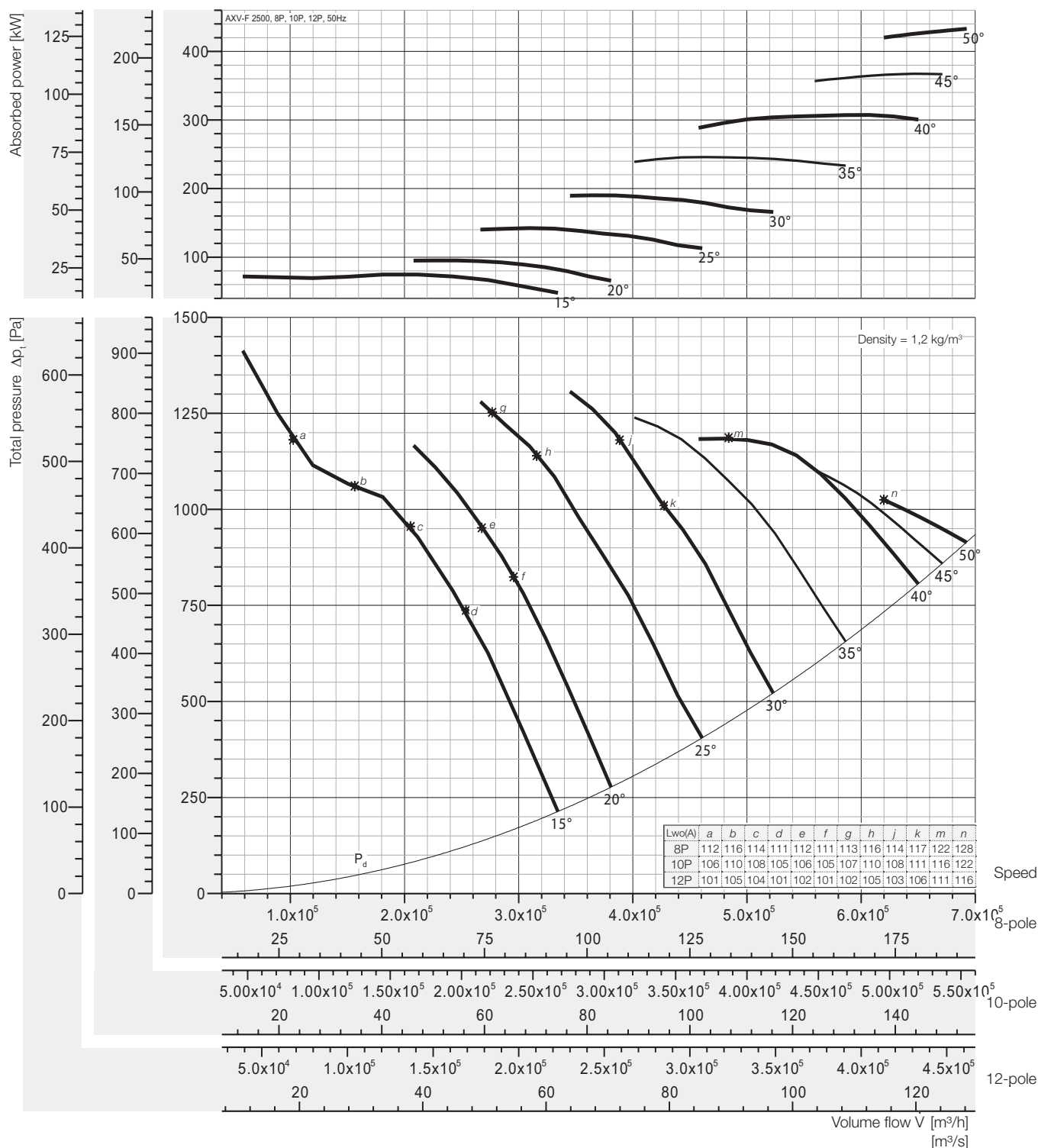
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified is for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lw(A) sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 2500-980-7, 50 Hz



### Peak absorbed power [kW]

8-pole = 750 rpm; 10-pole = 600 rpm; 12-pole = 500 rpm;

| N<br>Poles   | Pitch angle [°] |       |       |       |       |       |       |
|--------------|-----------------|-------|-------|-------|-------|-------|-------|
|              | 15              | 20    | 25    | 30    | 35    | 40    | 45    |
| 8P<br>motor  | 74,63           | 95,22 | 142,5 | 190,3 | 245,9 | 307,4 | 367,2 |
|              | 75              | 110   | 160   | 200   | 250   | 315   | 400   |
| 10P<br>motor | 38,22           | 48,75 | 72,95 | 97,43 | 125,9 | 157,4 | 188,0 |
|              | 45              | 55    | 75    | 110   | 132   | 160   | 200   |
| 12P<br>motor | 22,11           | 28,21 | 42,22 | 56,39 | 72,87 | 91,09 | 108,8 |
|              | 30              |       | 45    | 75    |       | 110   | 132   |

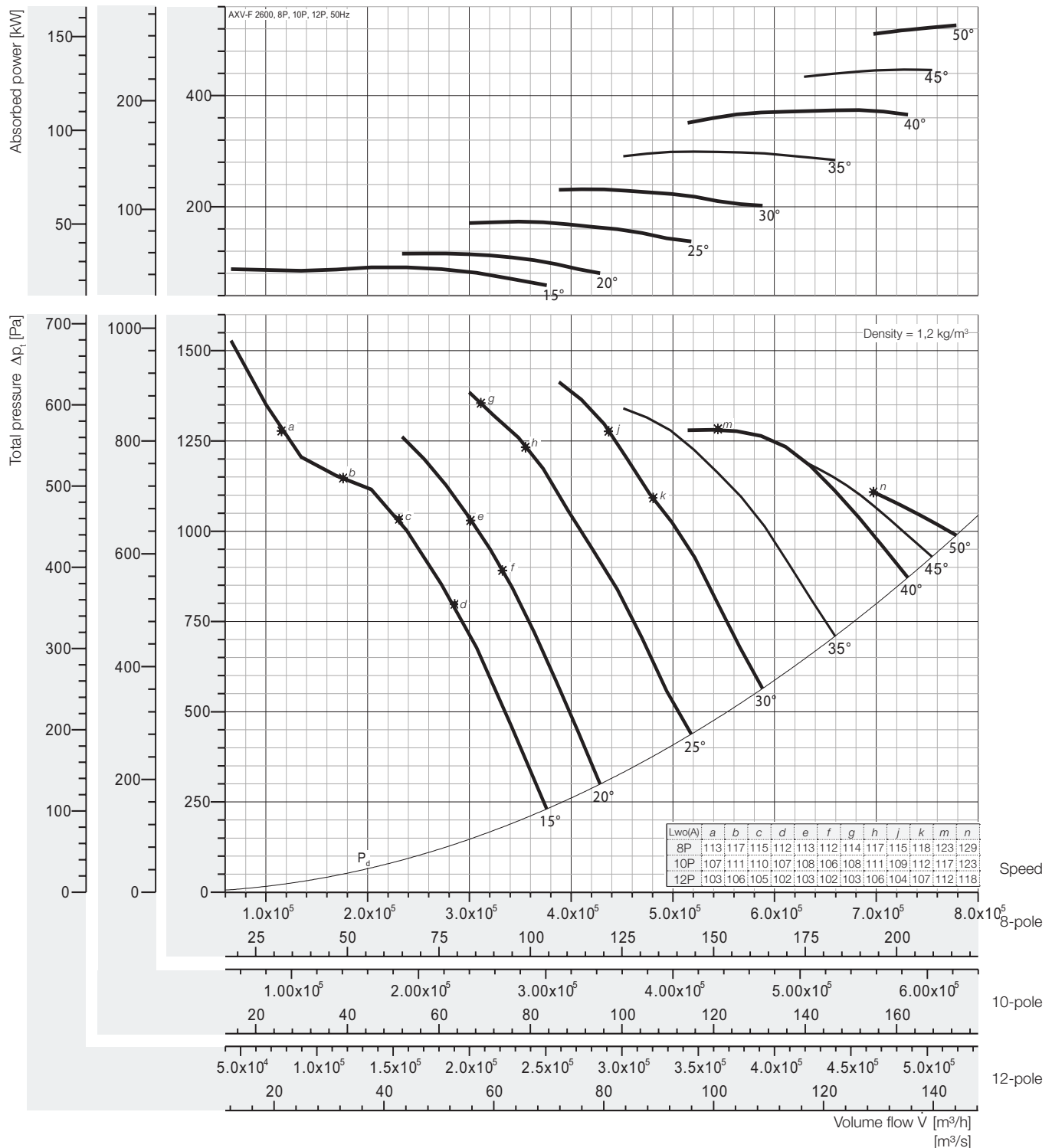
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwoA sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 2600-1020-7, 50 Hz **wolter**



### Peak absorbed power [kW]

8-pole = 750 rpm; 10-pole = 600 rpm; 12-pole = 500 rpm;

| N<br>Poles   | Pitch angle [°] |       |       |        |        |       |       |       |
|--------------|-----------------|-------|-------|--------|--------|-------|-------|-------|
|              | 15              | 20    | 25    | 30     | 35     | 40    | 45    | 50    |
| 8P<br>motor  | 90,76           | 115,8 | 173,3 | 231,4  | 299,1  | 373,9 | 446,6 | 526,7 |
|              | 110             | 132   | 200   | 250    | 315    | 400   | 450   | 560   |
| 10P<br>motor | 46,47           | 59,29 | 88,72 | 118,50 | 153,13 | 191,4 | 228,7 | 269,6 |
|              | 55              | 75    | 90    | 132    | 160    | 200   | 250   | 315   |
| 12P<br>motor | 26,89           | 34,31 | 51,34 | 68,58  | 88,62  | 110,8 | 132,3 | 156,0 |
|              | 30              | 37    | 55    | 75     | 90     | 132   | 160   |       |

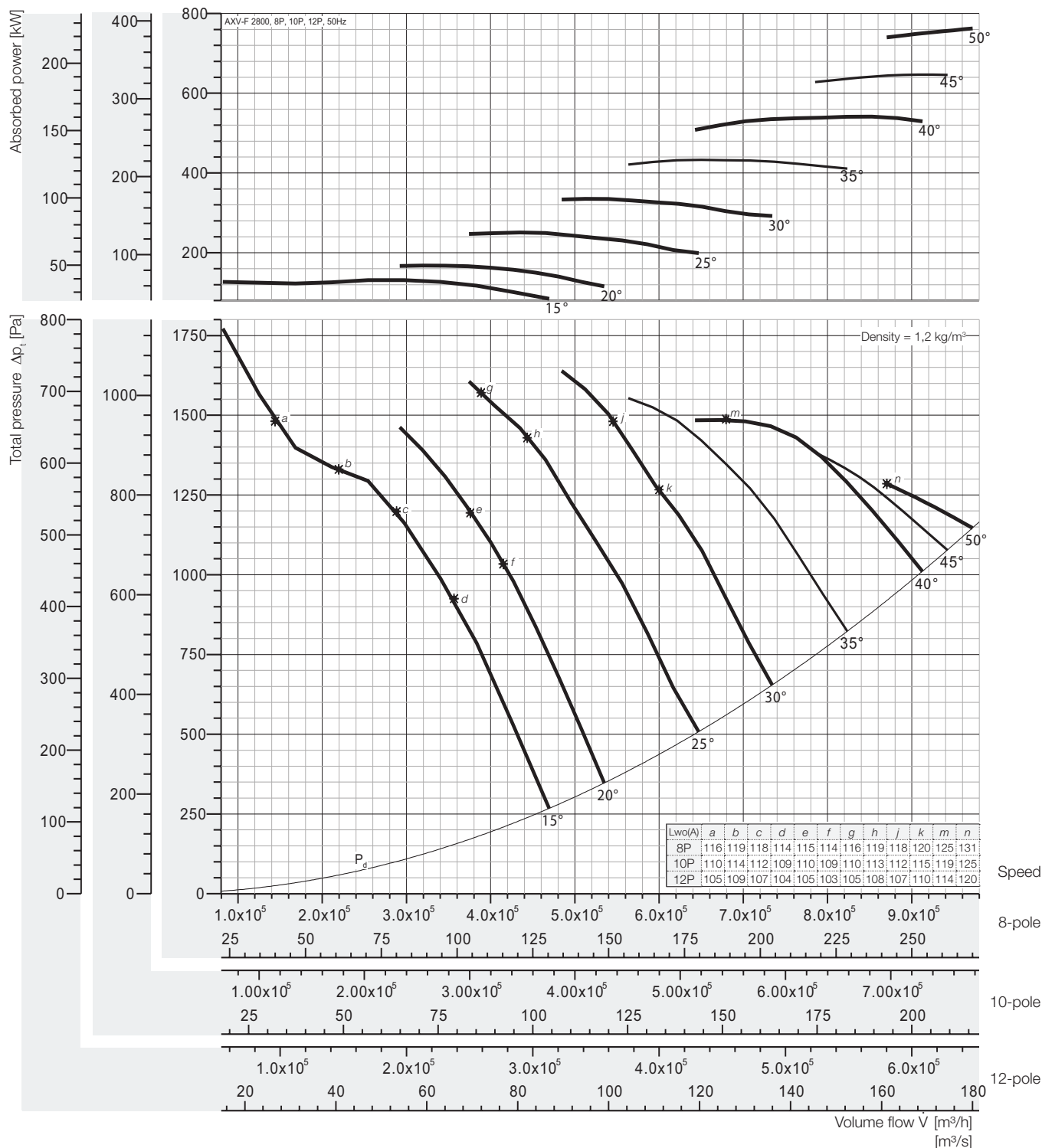
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified is for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lw(A) sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 2800-1095-7, 50 Hz **wolter**



### Peak absorbed power [kW]

8-pole = 750 rpm; 10-pole = 600 rpm; 12-pole = 500 rpm;

| N<br>Poles   | Pitch angle [°] |       |       |       |       |       |       |
|--------------|-----------------|-------|-------|-------|-------|-------|-------|
|              | 15              | 20    | 25    | 30    | 35    | 40    | 50    |
| 8P<br>motor  | 131,4           | 167,6 | 250,8 | 335,0 | 432,9 | 541,2 | 762,4 |
|              | 132             | 200   | 315   | 355   | 450   | 560   | -     |
| 10P<br>motor | 67,26           | 85,82 | 128,4 | 171,5 | 221,7 | 277,1 | 390,3 |
|              | 75              | 90    | 132   | 200   | 250   | 315   | 400   |
| 12P<br>motor | 38,93           | 49,67 | 74,32 | 99,26 | 128,3 | 160,3 | 225,9 |
|              | 45              | 55    | 75    | 110   | 132   | 200   | 250   |

Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). 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 outlet LwoA sound power levels for installation Type A: free inlet, free outlet.

## Introducing the Fan Energy Index

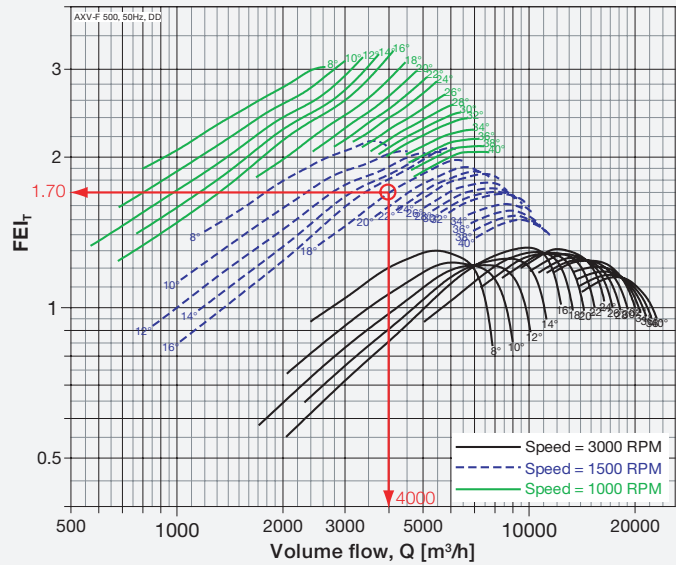
The FEI is a ratio of the actual fan efficiency to a baseline fan efficiency, both calculated at a given airflow and pressure point ( $FEI_s$  is calculated using a static pressure basis,  $FEI_t$  is calculated using a total pressure basis). Since these efficiencies are each calculated at the same airflow and pressure, FEI is also defined as the ratio of the baseline electrical power to the actual electrical power of a fan.

The FEI was designed to encourage responsible application of fans and drive significant and quantifiable energy savings through energy codes, utility rebate programs and federal regulations. This is accomplished by establishing the minimum fan efficiency or maximum fan electrical input power at design airflow and pressure. The FEI can be used by:

- Regulators to improve the efficiency of fan designs and limit market availability of less efficient fans
- Utilities to establish rebate programs to incentivize the efficient use of fans
- Code bodies to drive building owners and contractors to using more energy efficient fans for ventilation and process applications
- Purchasing agents to evaluate the fan selections and their suitability for specific applications

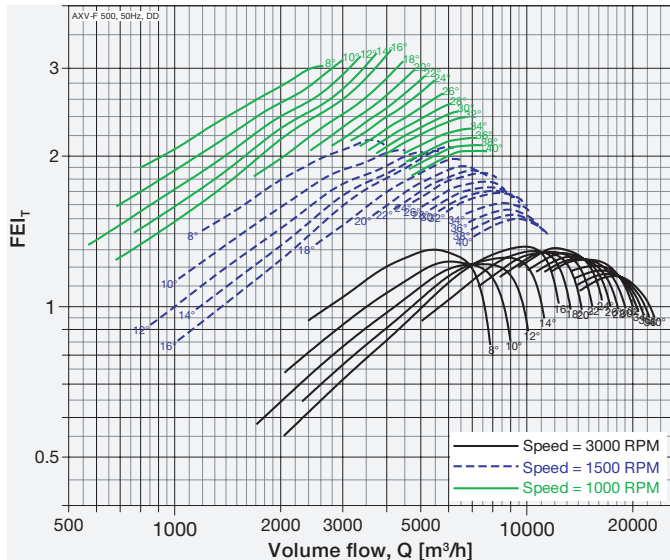
## Selection Example

The **direct driven** axial fan AXV-F 500/18° with three-phase **50Hz** motor power supply, by plotting the FEI curve as per the right graph, the  $FEI_t$  value will be 1.70 under the duty **4,000CMH** airflow, **202Pa total pressure** running at **1,500rpm**.

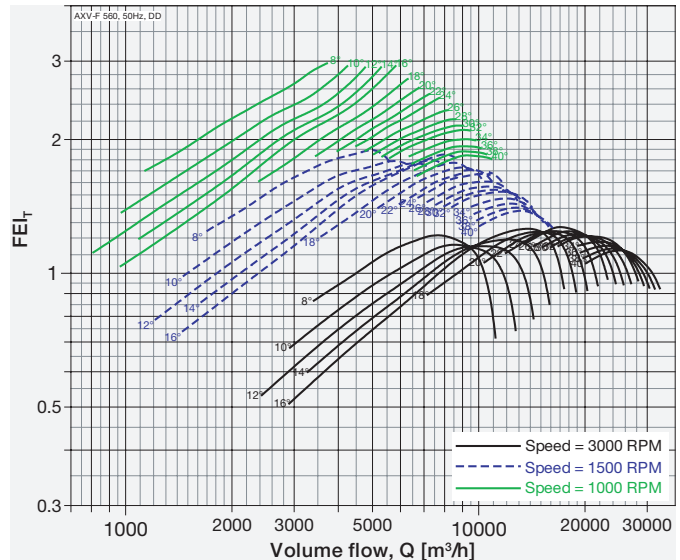


## Direct Driven Models, Size from 500 to 2800, 50Hz

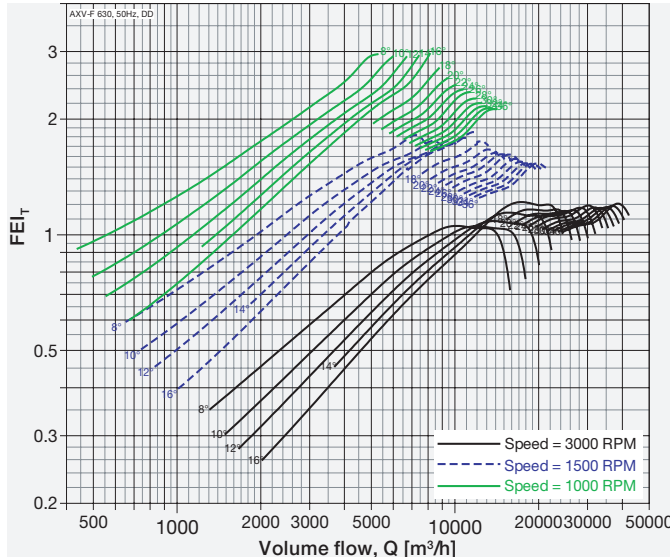
Model: AXV-F 500-150-6



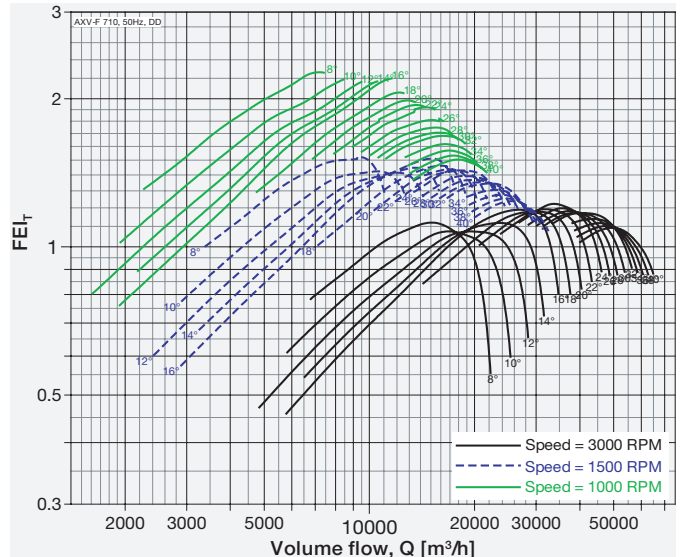
Model: AXV-F 560-168-6



Model: AXV-F 630-200-6

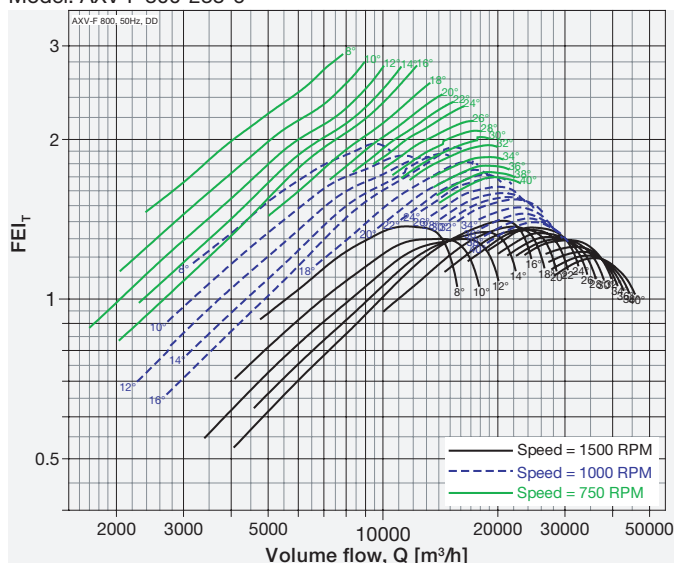


Model: AXV-F 710-212-6

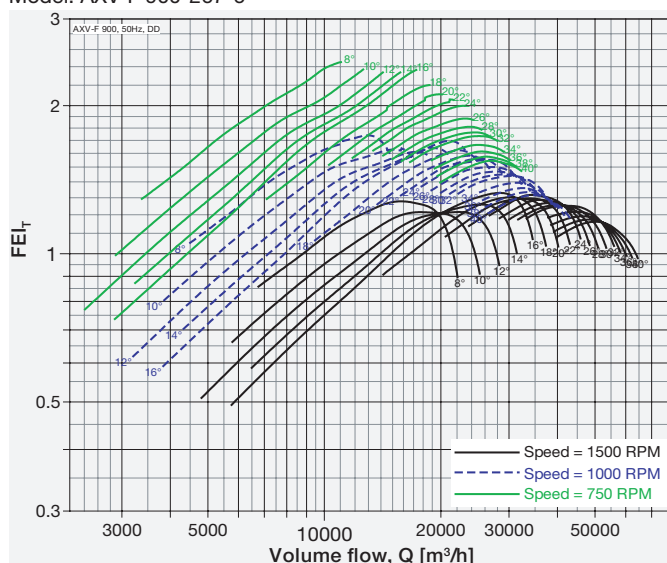


Performance of size 500 to 1250 certified is for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified is for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt).  $FEI_t$  /  $FEI_s$  values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Direct Driven type).  $FEI_t$  /  $FEI_s$  values for fans with specific motors will vary slightly from those shown.

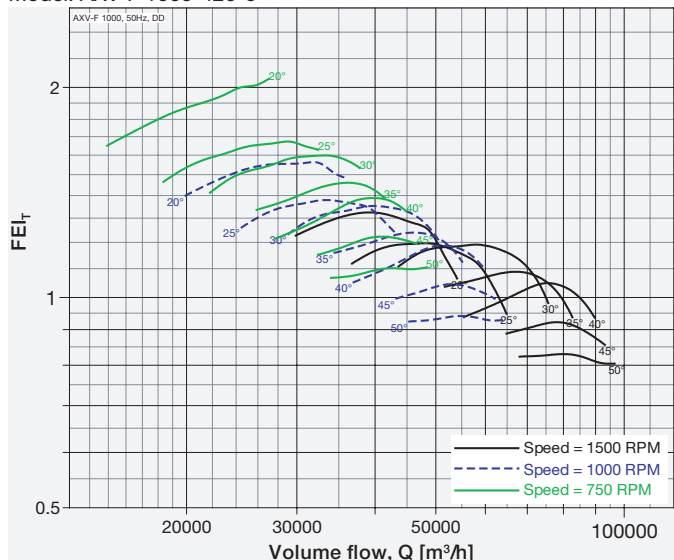
Model: AXV-F 800-238-6



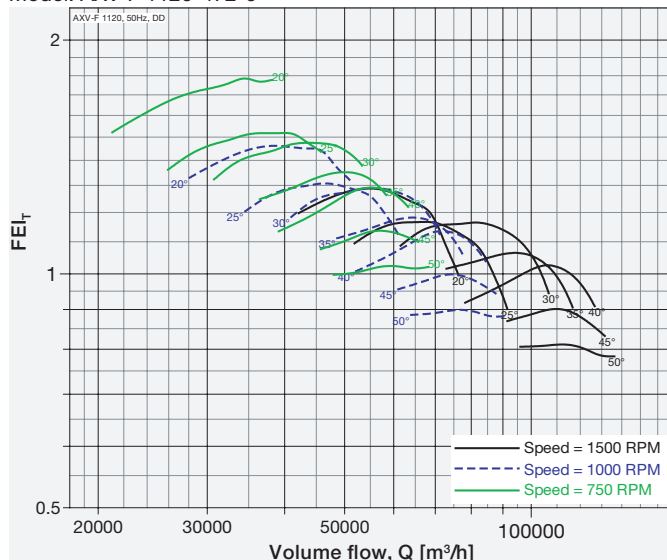
Model: AXV-F 900-267-6



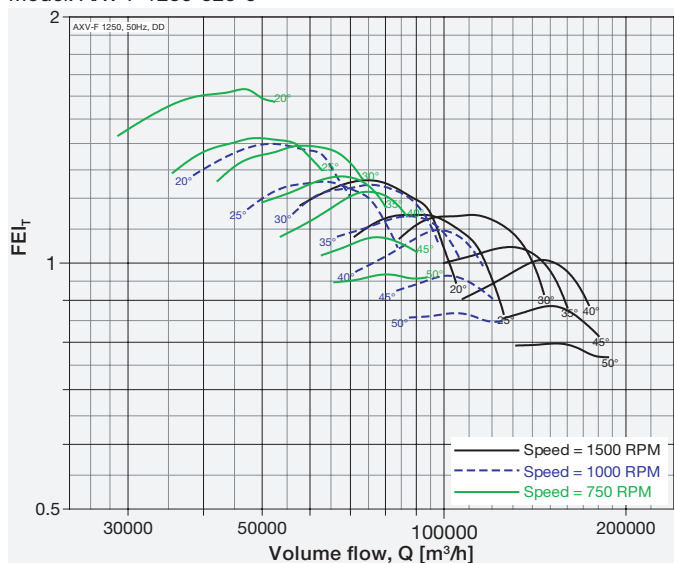
Model: AXV-F 1000-420-6



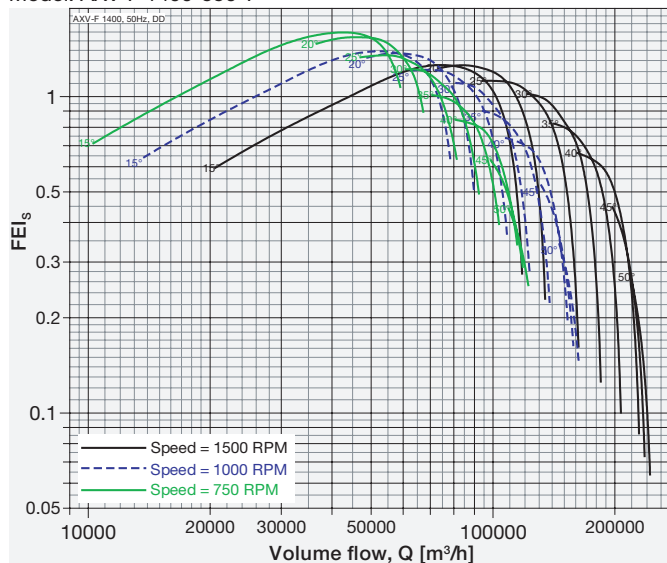
Model: AXV-F 1120-472-6



Model: AXV-F 1250-525-6

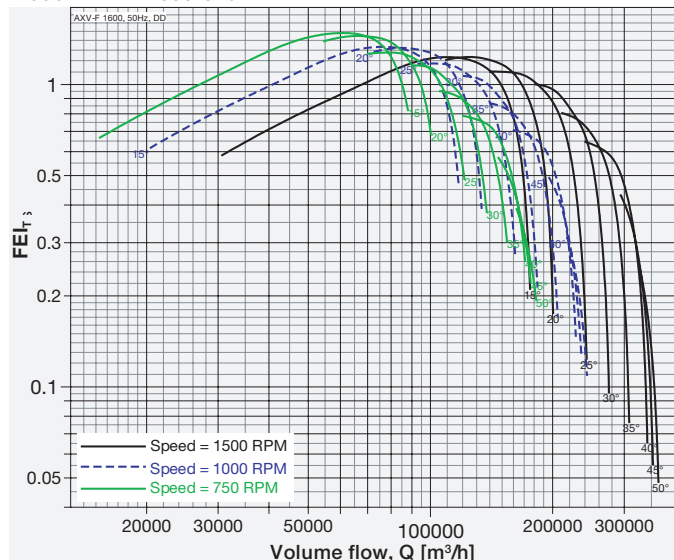


Model: AXV-F 1400-550-7

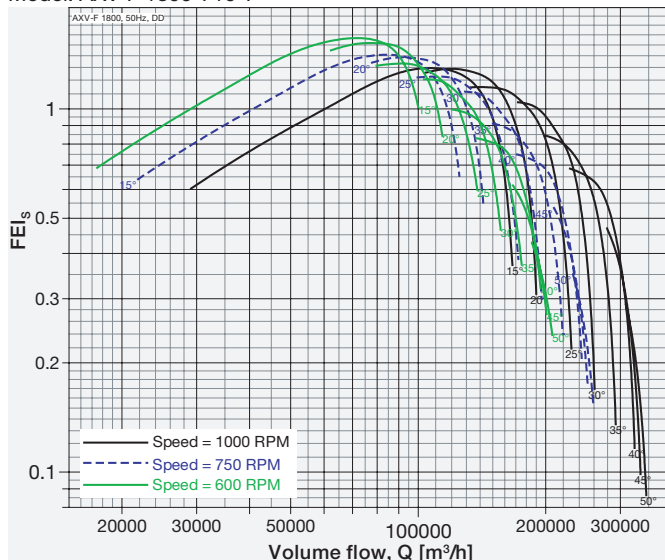


Performance of size 500 to 1250 certified is for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified is for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt).  $FEI_T$  /  $FEI_S$  values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Direct Driven type).  $FEI_T$  /  $FEI_S$  values for fans with specific motors will vary slightly from those shown.

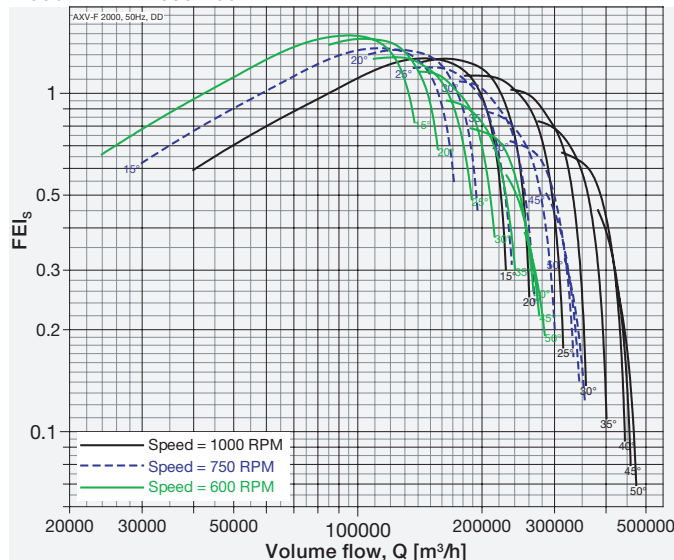
Model: AXV-F 1600-625-7



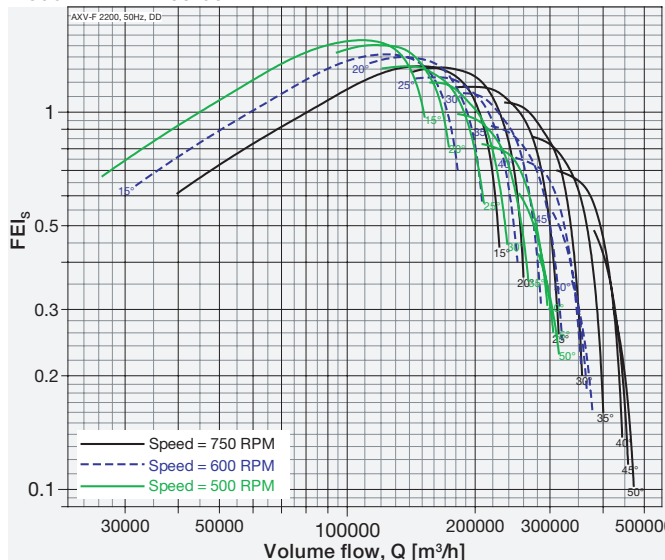
Model: AXV-F 1800-710-7



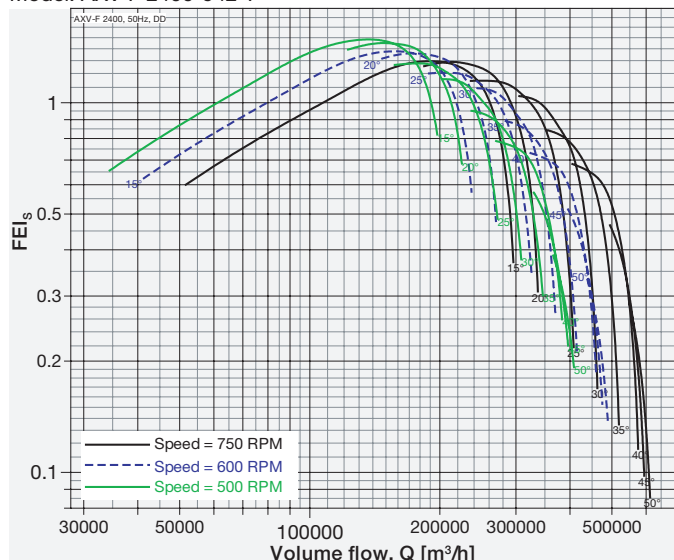
Model: AXV-F 2000-785-7



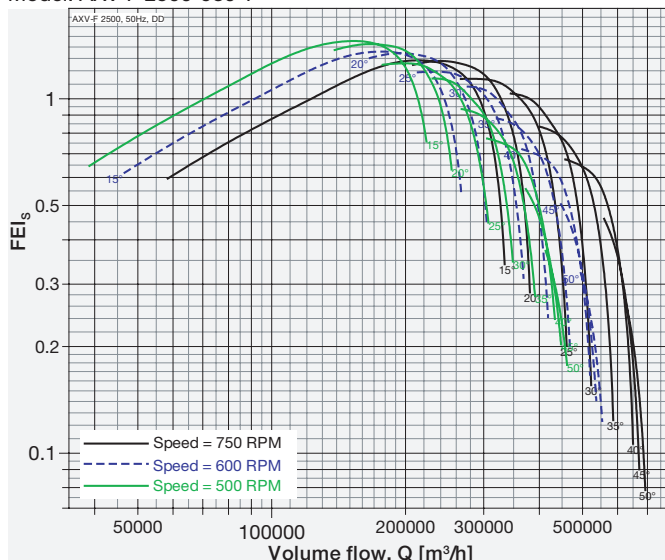
Model: AXV-F 2200-862-7



Model: AXV-F 2400-942-7



Model: AXV-F 2500-980-7



Performance of size 500 to 1250 certified for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). FEI<sub>r</sub> / FEI<sub>s</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Direct Driven type). FEI<sub>r</sub> / FEI<sub>s</sub> values for fans with specific motors will vary slightly from those shown.

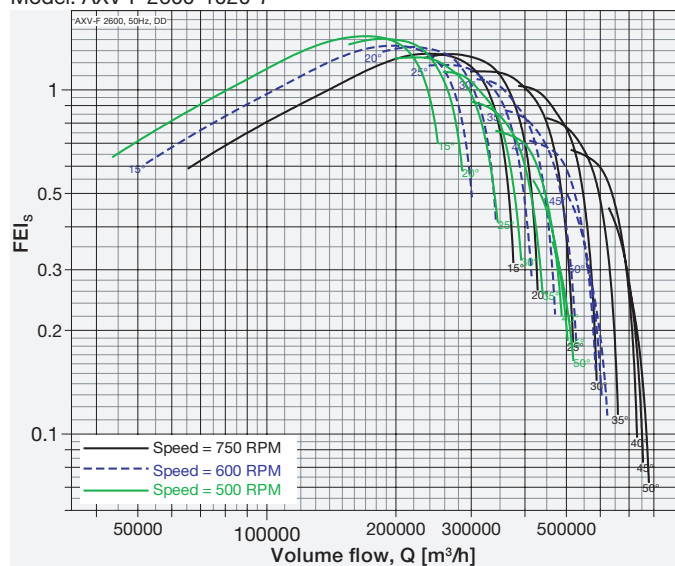


## Fan Energy Index

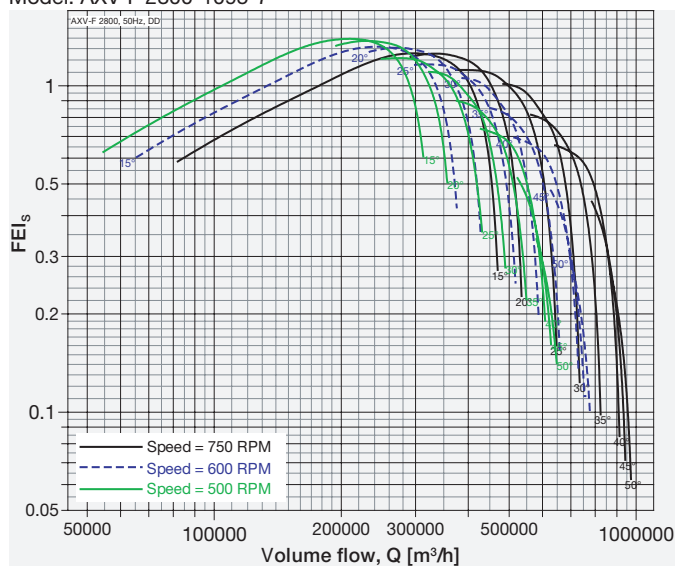
Direct Driven, 50Hz



Model: AXV-F 2600-1020-7



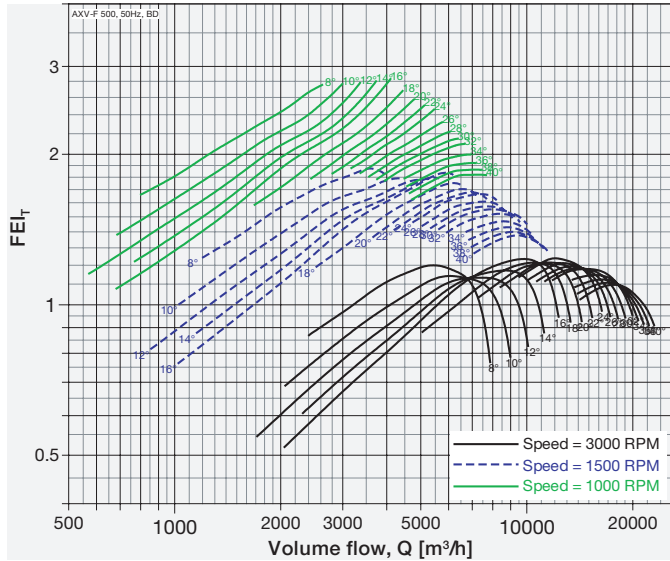
Model: AXV-F 2800-1095-7



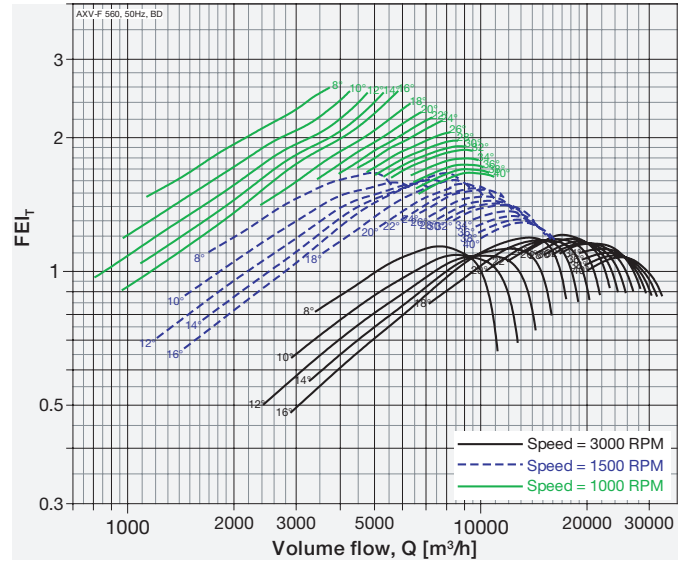
Performance of size 500 to 1250 certified is for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified is for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). FEI<sub>r</sub> / FEI<sub>s</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Direct Driven type). FEI<sub>r</sub> / FEI<sub>s</sub> values for fans with specific motors will vary slightly from those shown.

Belt Driven Models, Size from 500 to 2800, 50Hz

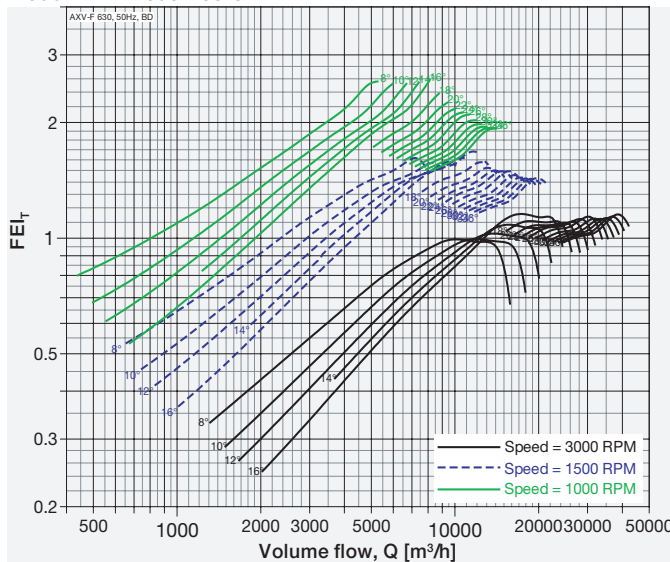
Model: AXV-F 500-150-6



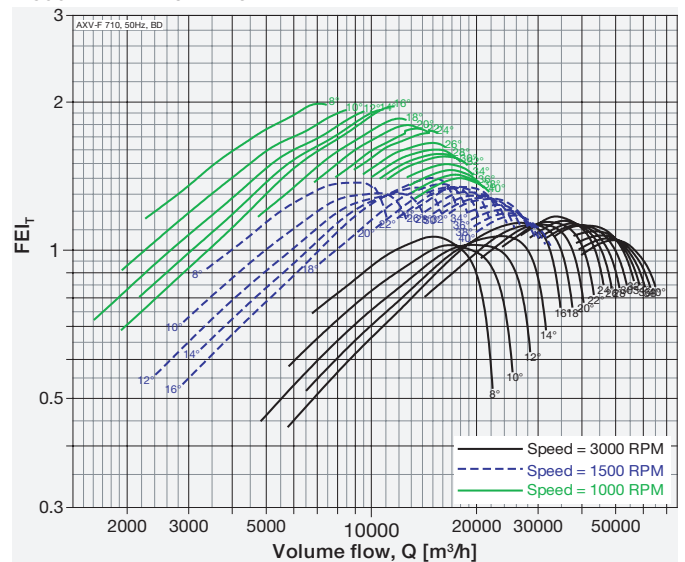
Model: AXV-F 560-168-6



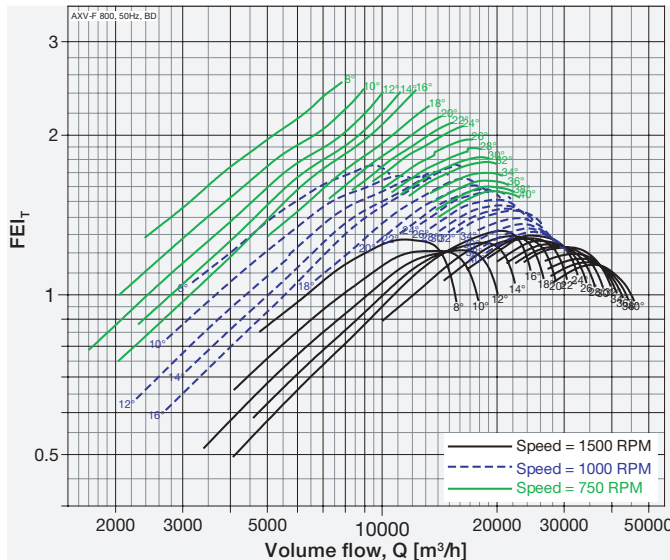
Model: AXV-F 630-200-6



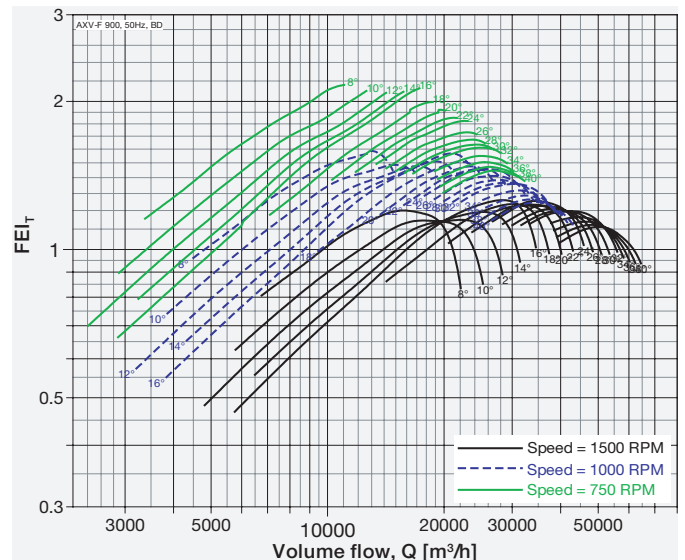
Model: AXV-F 710-212-6



Model: AXV-F 800-238-6

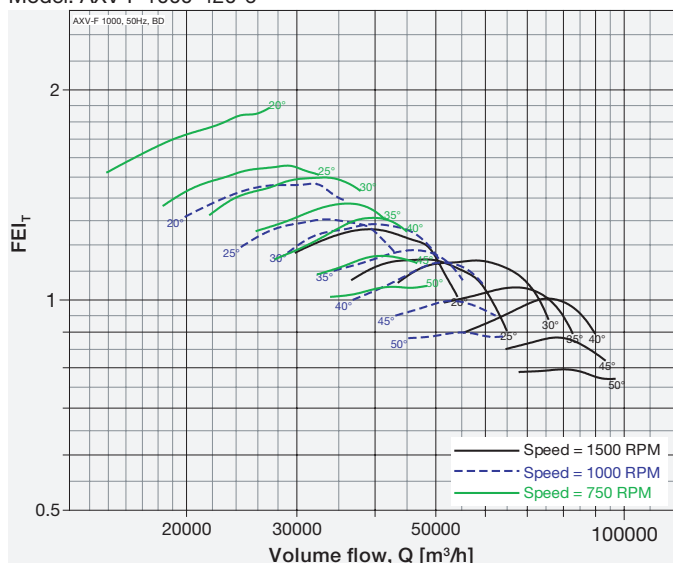


Model: AXV-F 900-267-6

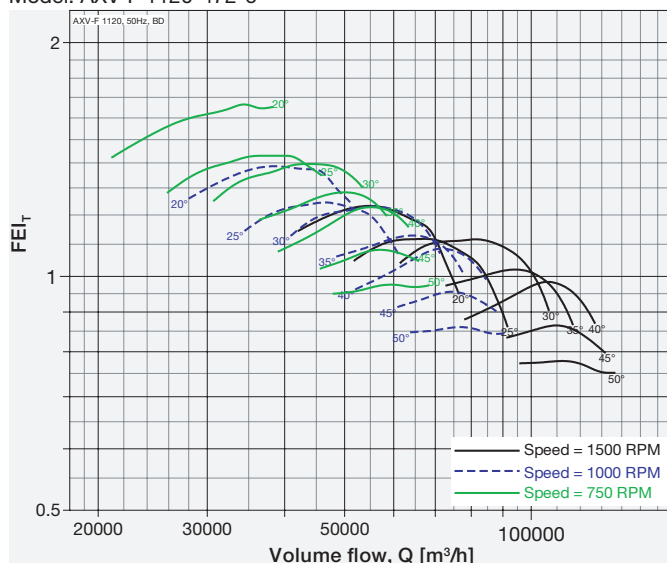


Performance of size 500 to 1250 certified is for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified is for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). FEI<sub>T</sub> / FEI<sub>S</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Belt Driven type). FEI<sub>T</sub> / FEI<sub>S</sub> values for fans with specific motors will vary slightly from those shown.

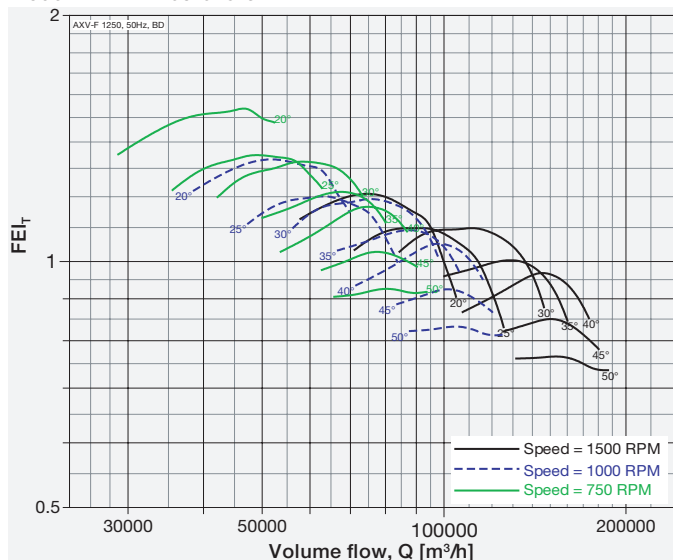
Model: AXV-F 1000-420-6



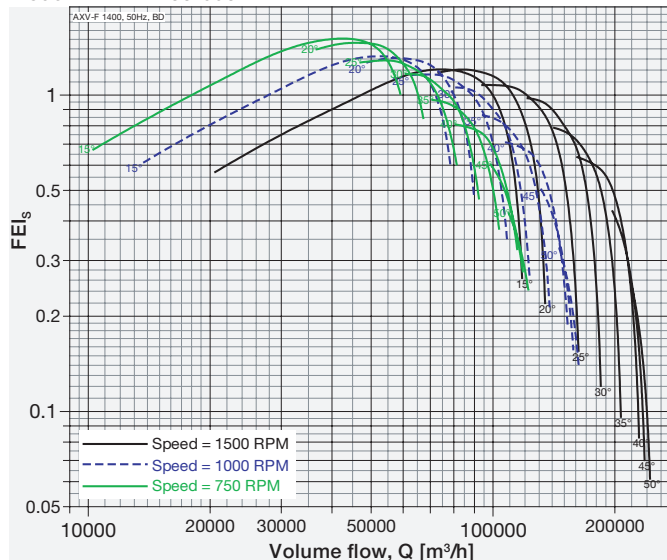
Model: AXV-F 1120-472-6



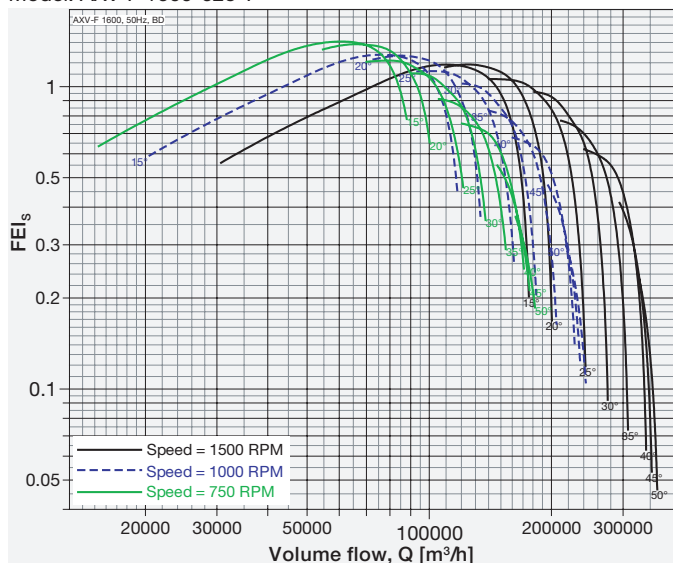
Model: AXV-F 1250-525-6



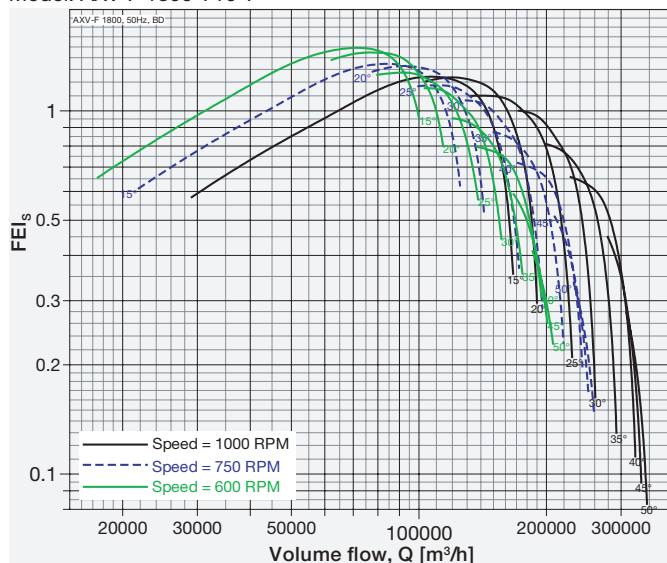
Model: AXV-F 1400-550-7



Model: AXV-F 1600-625-7

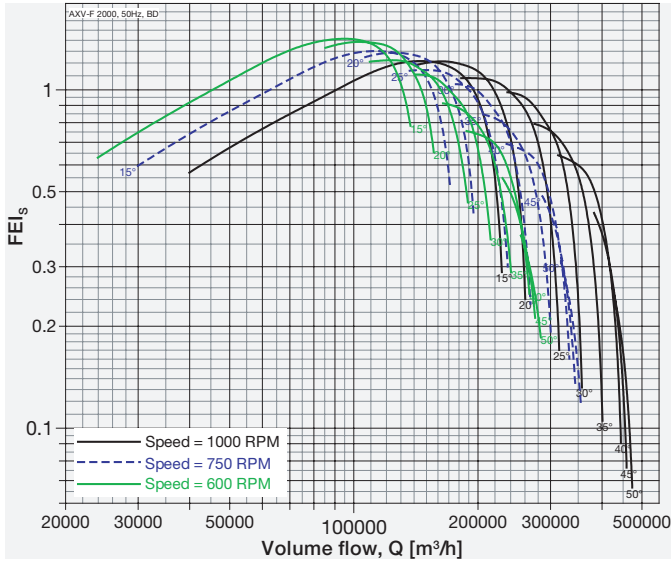


Model: AXV-F 1800-710-7

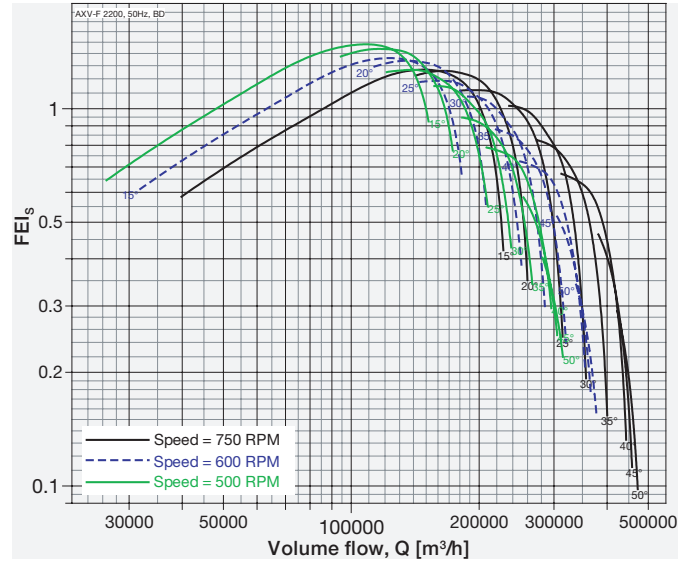


Performance of size 500 to 1250 certified is for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified is for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt).  $FEI_T$  /  $FEI_S$  values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Belt Driven type).  $FEI_T$  /  $FEI_S$  values for fans with specific motors will vary slightly from those shown.

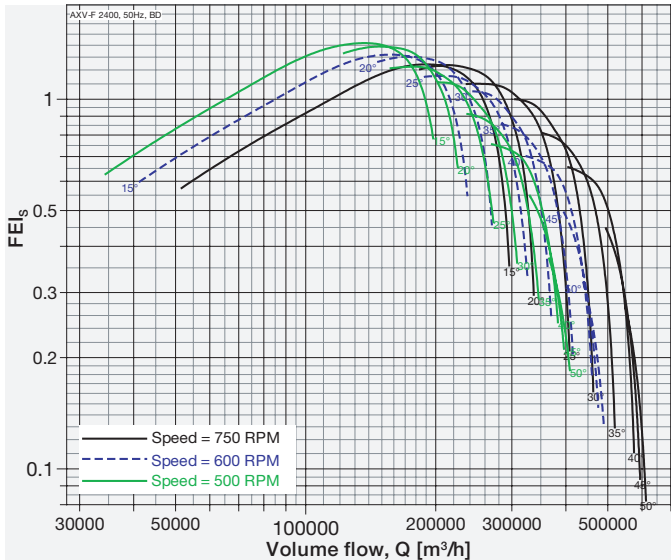
Model: AXV-F 2000-780-7



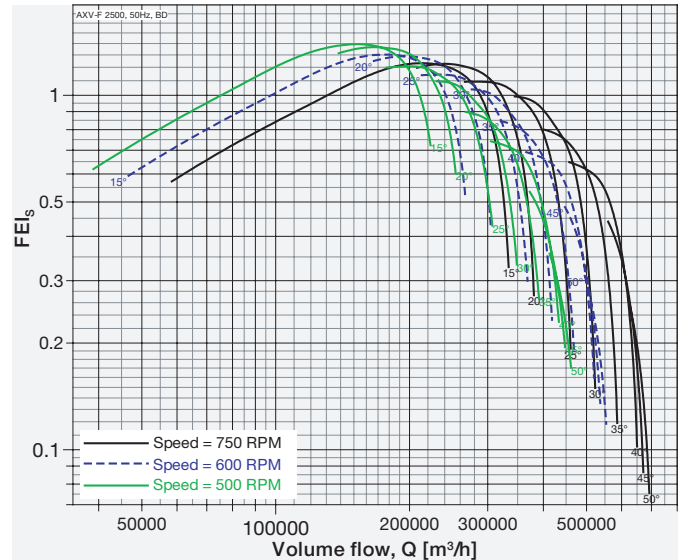
Model: AXV-F 2200-862-7



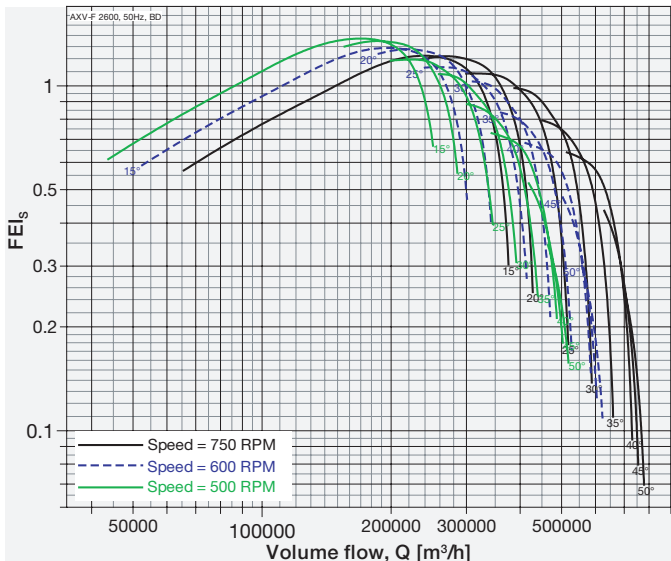
Model: AXV-F 2400-942-7



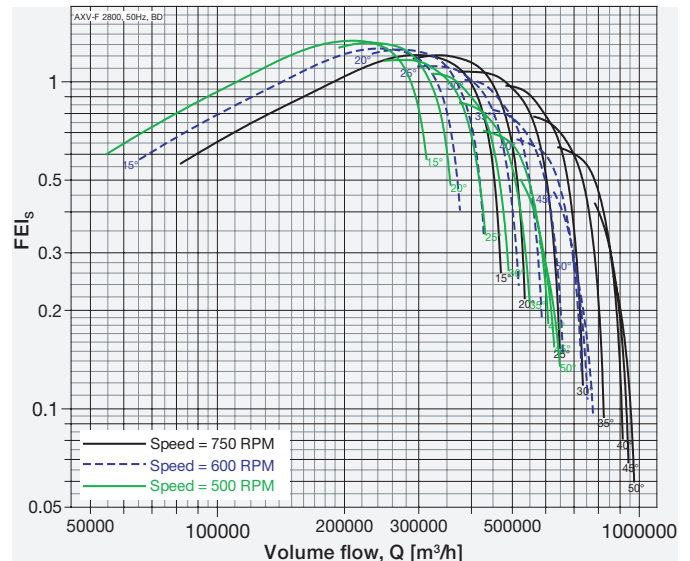
Model: AXV-F 2500-980-7



Model: AXV-F 2600-1020-7



Model: AXV-F 2800-1095-7



Performance of size 500 to 1250 certified is for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified is for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt).  $FEI_r$  /  $FEI_s$  values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Belt Driven type).  $FEI_r$  /  $FEI_s$  values for fans with specific motors will vary slightly from those shown.

# AMCA - FEG rating

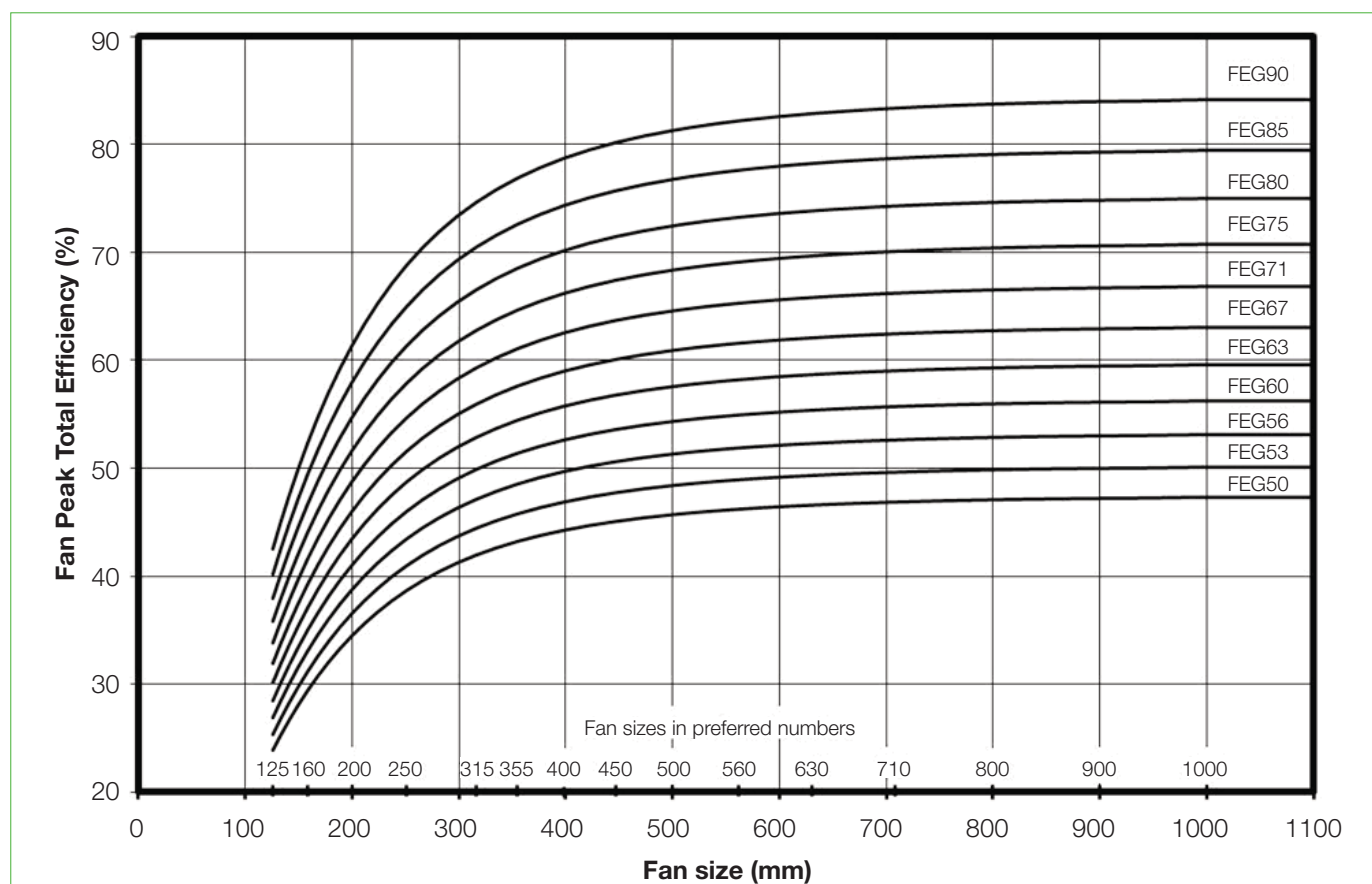
Fan Efficiency Grade: AXV-F, 60Hz



Certified FEGs are determined in accordance with AMCA 205 Energy Efficiency Classification for fans. In conjunction with AMCA 211 Certified Ratings Program, Product Rating Manual for Fan Air Performance. This classification is based on total peak, or optimum, fan efficiency for a given fan speed, impeller diameter and test application category (test configuration). For the purpose of energy classification, the peak efficiency shall be determined at a speed that is lower than the fan's maximum design speed.

The AMCA Certified Ratings Seal applies to the Fan Efficiency Grade (FEG) for AXV-F series Axial Fan model AXV-F 500 to AXV-F 2800 as shown in the table below.

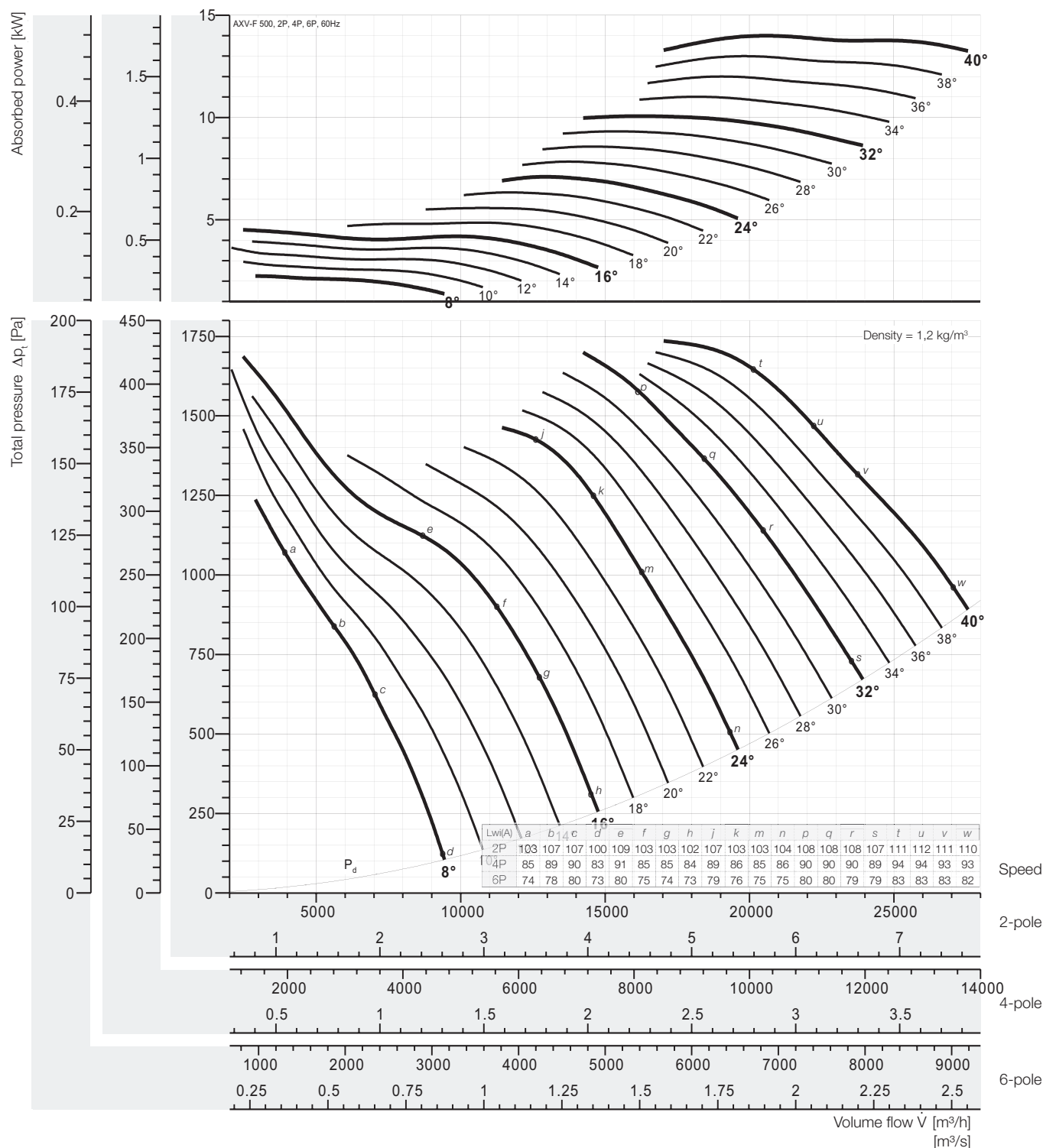
| Fan Model No.    | Fan Speed (rpm) | Fan Outlet Area (m2) | Fan Efficiency Grades | Fan Model No.     | Fan Speed (rpm) | Fan Outlet Area (m2) | Fan Efficiency Grade |
|------------------|-----------------|----------------------|-----------------------|-------------------|-----------------|----------------------|----------------------|
| AXV-F 500-150-6  | 3600/1800/1200  | 0,1987               | FEG 80                | AXV-F 1400-550-7  | 1800/1200/900   | 1,5504               | FEG 80               |
| AXV-F 560-168-6  | 3600/1800/1200  | 0,2507               | FEG 75                | AXV-F 1600-625-7  | 1800/1200/900   | 2,0232               | FEG 80               |
| AXV-F 630-200-6  | 3600/1800/1200  | 0,3157               | FEG 75                | AXV-F 1800-710-7  | 1200/900/720    | 2,5588               | FEG 80               |
| AXV-F 710-212-6  | 3600/1800/1200  | 0,3970               | FEG 75                | AXV-F 2000-785-7  | 1200/900/720    | 3,1573               | FEG 80               |
| AXV-F 800-238-6  | 1800/1200/900   | 0,4989               | FEG 75                | AXV-F 2200-862-7  | 900/720/600     | 3,8186               | FEG 80               |
| AXV-F 900-267-6  | 1800/1200/900   | 0,6277               | FEG 75                | AXV-F 2400-942-7  | 900/720/600     | 4,5428               | FEG 80               |
| AXV-F 1000-420-6 | 1800/1200/900   | 0,7901               | FEG 75                | AXV-F 2500-980-7  | 900/720/600     | 4,9284               | FEG 80               |
| AXV-F 1120-472-6 | 1800/1200/900   | 0,9940               | FEG 75                | AXV-F 2600-1020-7 | 900/720/600     | 5,3297               | FEG 80               |
| AXV-F 1250-525-6 | 1800/1200/900   | 1,2272               | FEG 75                | AXV-F 2800-1095-7 | 900/720/600     | 6,1795               | FEG 80               |





## Performance Curve

AXV-F 500-150-6, 60Hz



### Peak absorbed power [kW]

2-pole = 3600 rpm; 4-pole = 1800 rpm; 6-pole = 1200 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 8               | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 36    | 38    | 40    |
| 2P         | 2,251           | 2,943 | 3,634 | 3,936 | 4,511 | 4,859 | 5,572 | 6,333 | 7,099 | 7,839 | 8,580 | 9,322 | 10,06 | 11,01 | 12,00 | 13,00 | 14,00 |
| motor      | 3,0             |       | 4,0   |       | -*    |       |       |       |       |       |       |       |       |       |       |       |       |
| 4P         | 0,281           | 0,368 | 0,454 | 0,492 | 0,564 | 0,607 | 0,696 | 0,792 | 0,887 | 0,980 | 1,072 | 1,165 | 1,258 | 1,376 | 1,500 | 1,625 | 1,749 |
| motor      | 0,37            |       | 0,55  |       | 0,75  |       |       | 1,1   |       |       |       | 1,5   |       |       |       | 2,2   |       |
| 6P         | 0,083           | 0,109 | 0,135 | 0,146 | 0,167 | 0,180 | 0,206 | 0,235 | 0,263 | 0,290 | 0,318 | 0,345 | 0,373 | 0,408 | 0,445 | 0,481 | 0,518 |
| motor      | 0,25            |       |       |       |       |       |       |       | 0,37  |       |       |       | 0,55  |       |       |       |       |

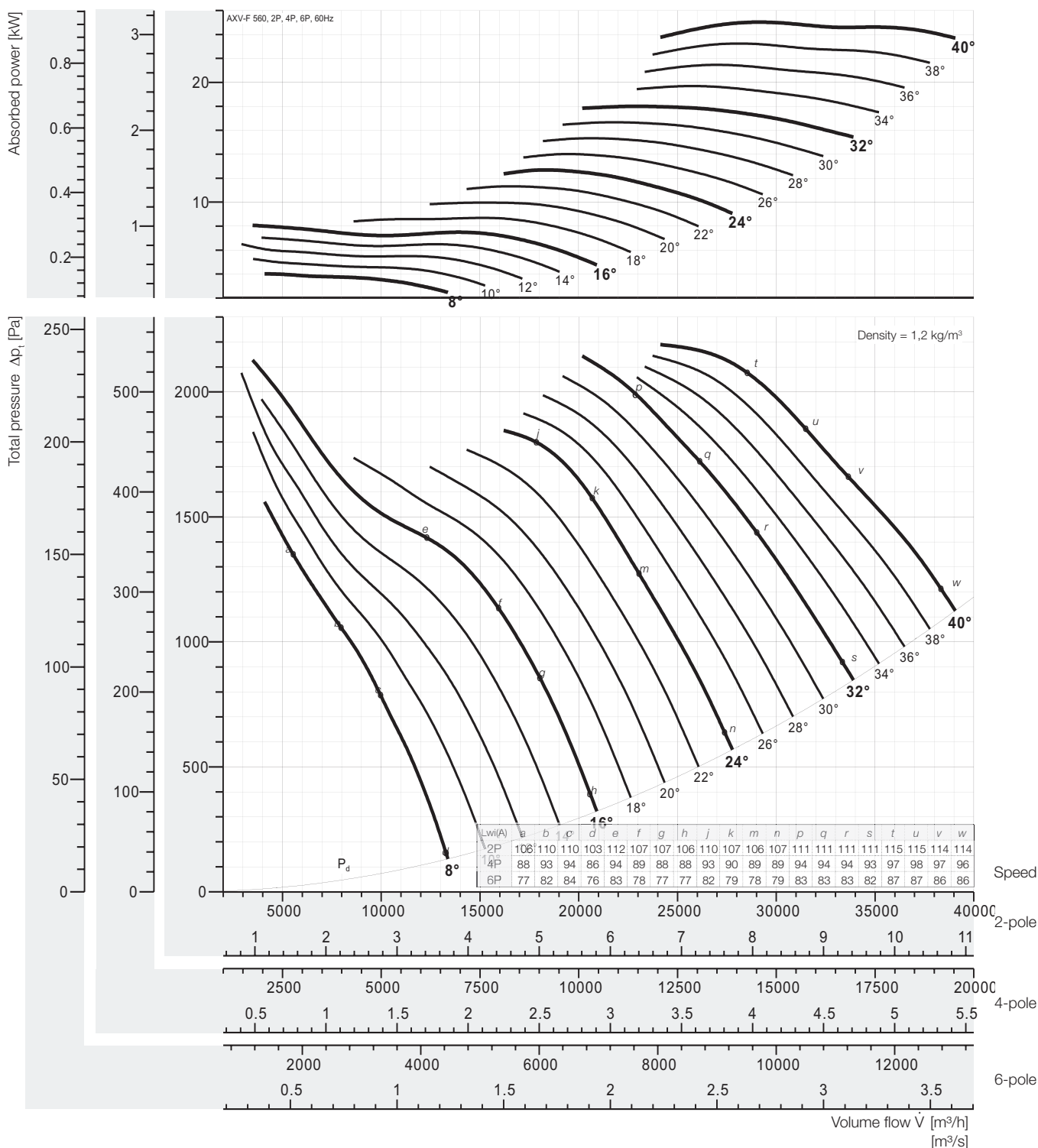
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 560-168-6, 60Hz



### Peak absorbed power [kW]

2-pole = 3600 rpm; 4-pole = 1800 rpm; 6-pole = 1200 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 8               | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 36    | 38    | 40    |
| 2P         | 4,024           | 5,261 | 6,499 | 7,037 | 8,065 | 8,689 | 9,962 | 11,32 | 12,69 | 14,02 | 15,34 | 16,67 | 18,00 | 19,69 | 2,146 | 23,24 | 25,03 |
| motor      | 5,5             |       | 7,5   |       | 11    |       |       | 15    |       |       | 18,5  |       |       | -*    |       |       |       |
| 4P         | 0,503           | 0,658 | 0,812 | 0,880 | 1,008 | 1,086 | 1,245 | 1,415 | 1,587 | 1,752 | 1,918 | 2,084 | 2,250 | 2,461 | 2,682 | 2,905 | 3,128 |
| motor      | 0,55            | 0,75  | 1,1   |       |       |       | 1,5   |       | 2,2   |       |       |       | 3,0   |       |       |       | 4,0   |
| 6P         | 0,149           | 0,195 | 0,241 | 0,261 | 0,299 | 0,322 | 0,369 | 0,419 | 0,470 | 0,519 | 0,568 | 0,617 | 0,667 | 0,729 | 0,795 | 0,861 | 0,927 |
| motor      | 0,25            |       |       | 0,37  |       |       |       | 0,55  |       |       | 0,75  |       |       |       | 1,1   |       |       |

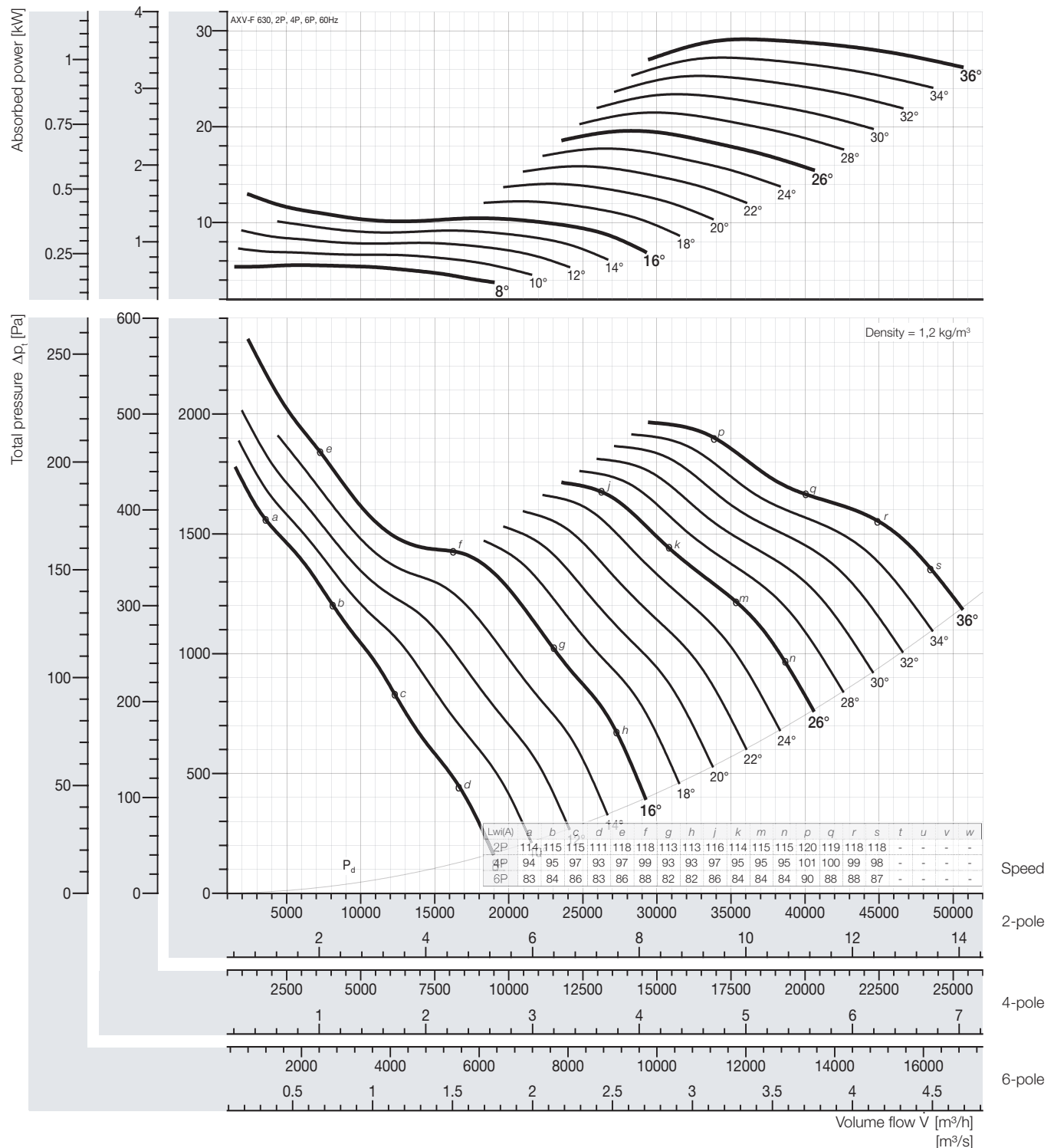
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 630-200-6, 60Hz



### Peak absorbed power [kW]

2-pole = 3600 rpm; 4-pole = 1800 rpm; 6-pole = 1200 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|
|            | 8               | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 36    | 38 | 40 |
| 2P         | 5,549           | 7,281 | 9,169 | 11,06 | 12,94 | 12,2  | 14,03 | 15,86 | 17,69 | 19,52 | 21,41 | 23,30 | 25,19 | 27,18 | 29,10 | -  | -  |
| motor      | 7,5             |       | 11    | 15    |       |       |       | 18,5  |       | -*    |       |       |       |       |       | -  | -  |
| 4P         | 0,694           | 0,910 | 1,146 | 1,382 | 1,618 | 1,525 | 1,754 | 1,982 | 2,211 | 2,440 | 2,676 | 2,912 | 3,149 | 3,397 | 3,637 | -  | -  |
| motor      | 0,75            | 1,1   | 1,5   |       | 2,2   |       |       |       | 3,0   |       |       |       | 4,0   |       |       | -  | -  |
| 6P         | 0,206           | 0,270 | 0,340 | 0,409 | 0,479 | 0,452 | 0,520 | 0,587 | 0,655 | 0,723 | 0,793 | 0,863 | 0,933 | 1,007 | 1,078 | -  | -  |
| motor      | 0,37            |       |       | 0,55  |       |       |       | 0,75  |       |       | 1,1   |       |       |       |       | -  | -  |

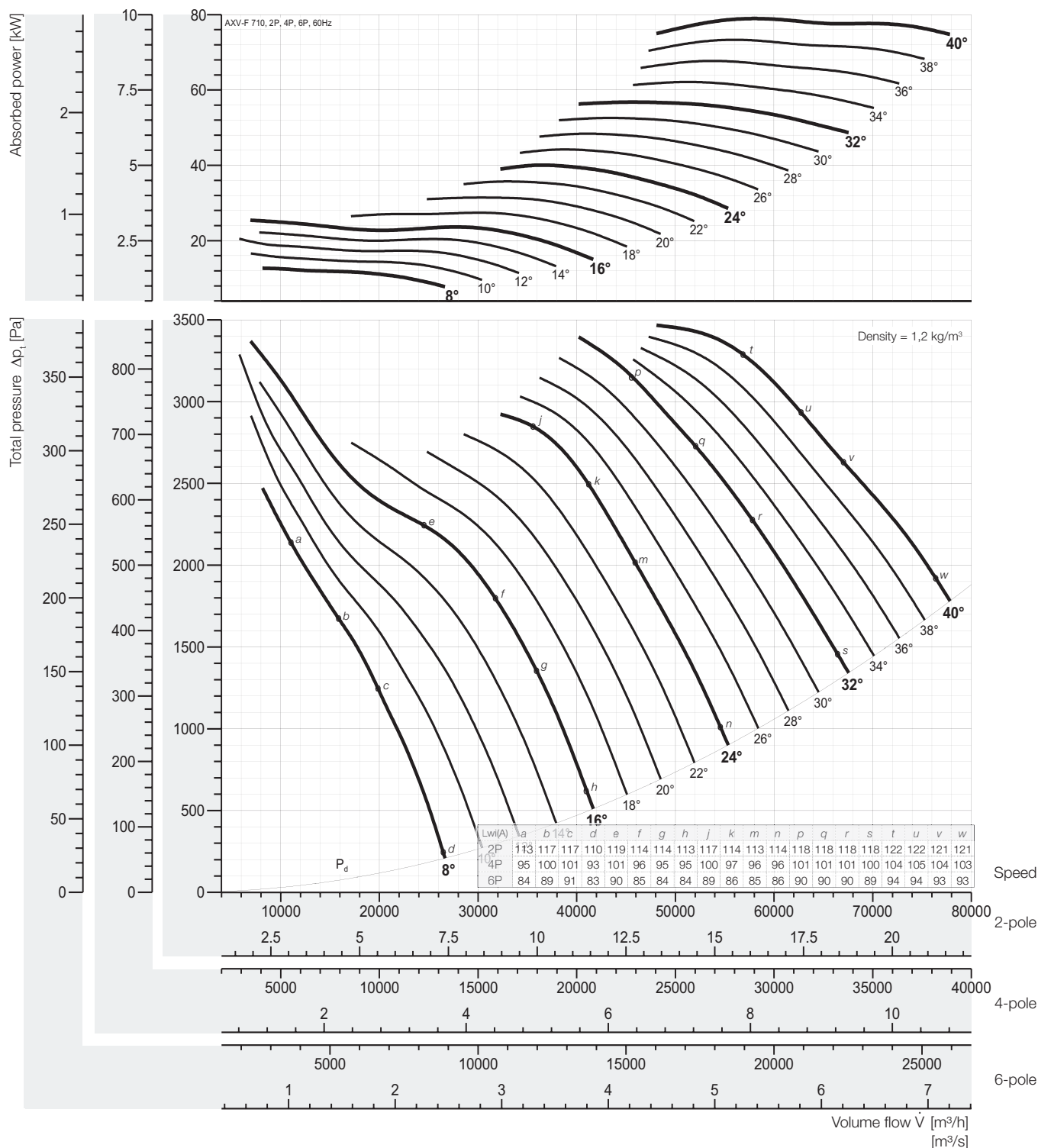
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 710-212-6, 60Hz



### Peak absorbed power [kW]

2-pole = 3600 rpm; 4-pole = 1800 rpm; 6-pole = 1200 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 8               | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34    |
| 2P         | 12,70           | 16,60 | 20,50 | 22,20 | 25,45 | 27,41 | 31,43 | 35,72 | 40,05 | 44,22 | 48,40 | 52,59 | 56,78 | 62,12 |
| motor      | 15              | 18,5  | 22    | -*    |       |       |       |       |       |       |       |       |       |       |
| 4P         | 1,587           | 2,075 | 2,563 | 2,775 | 3,181 | 3,427 | 3,929 | 4,465 | 5,006 | 5,527 | 6,050 | 6,574 | 7,098 | 7,765 |
| motor      | 2,2             |       | 3,0   |       | 4,0   |       |       | 5,5   |       | 7,5   |       |       | 11    |       |
| 6P         | 0,470           | 0,615 | 0,759 | 0,822 | 0,942 | 1,015 | 1,164 | 1,323 | 1,483 | 1,638 | 1,793 | 1,948 | 2,103 | 2,301 |
| motor      | 0,55            | 0,75  | 1,1   |       |       |       | 1,5   |       |       | 2,2   |       |       |       | 3,0   |

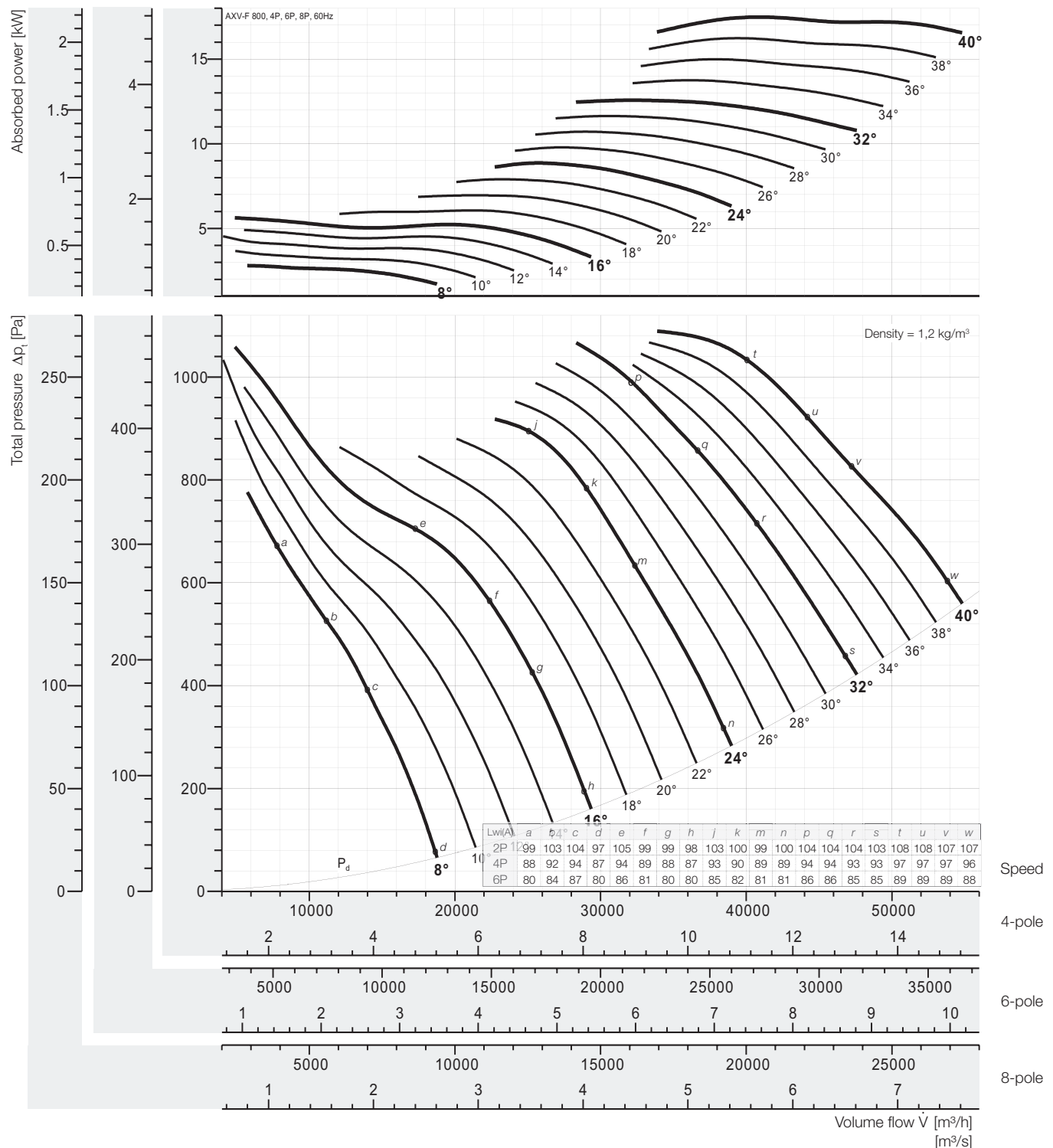
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 800-238-6, 60Hz



### Peak absorbed power [kW]

4-pole = 1800 rpm; 6-pole = 1200 rpm; 8-pole = 900 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 8               | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 36    | 40    |
| 4P         | 2,810           | 3,674 | 4,538 | 4,915 | 5,633 | 6,068 | 6,957 | 7,908 | 8,864 | 9,788 | 10,71 | 11,64 | 12,57 | 13,75 | 14,99 | 16,23 |
| motor      | 3,0             | 4,0   | 5,5   |       | 7,5   |       |       | 11    |       |       |       | 15    |       |       |       | 18,5  |
| 6P         | 0,833           | 1,089 | 1,345 | 1,456 | 1,669 | 1,798 | 2,061 | 2,343 | 2,626 | 2,900 | 3,175 | 3,449 | 3,724 | 4,074 | 4,441 | 4,809 |
| motor      | 1,1             |       | 1,5   |       | 2,2   |       |       | 3,0   |       |       | 4,0   |       | 5,5   |       |       |       |
| 8P         | 0,351           | 0,459 | 0,567 | 0,614 | 0,704 | 0,759 | 0,870 | 0,988 | 1,108 | 1,224 | 1,339 | 1,455 | 1,571 | 1,719 | 1,873 | 2,029 |
| motor      | 0,37            | 0,55  | 0,75  |       |       | 1,1   |       |       | 1,5   |       |       |       | 2,2   |       |       |       |

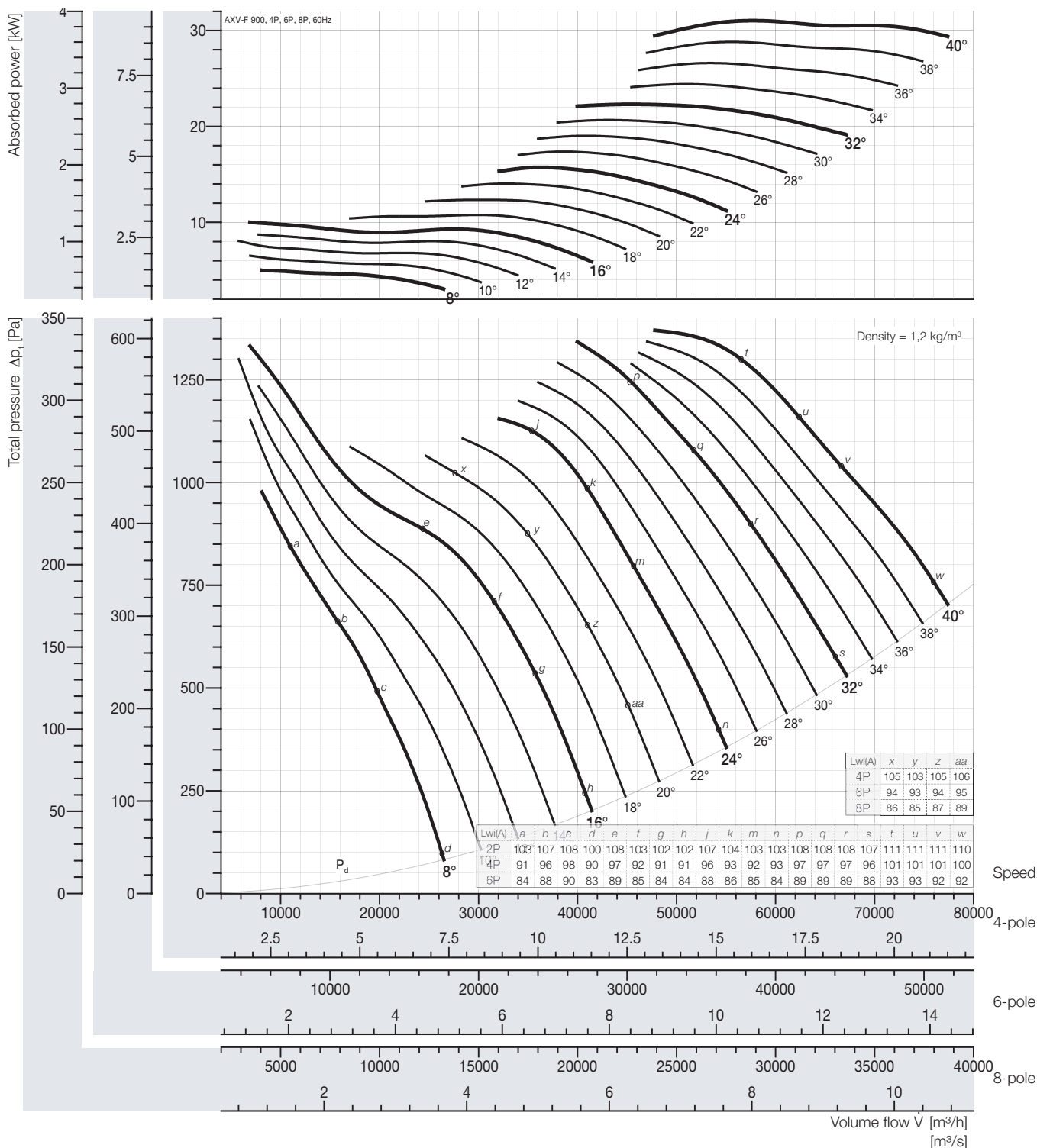
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 900-267-6, 60Hz



### Peak absorbed power [kW]

4-pole = 1800 rpm; 6-pole = 1200 rpm; 8-pole = 900 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 8               | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 36    | 38    | 40    |
| 4P         | 4,990           | 6,524 | 8,058 | 8,726 | 10,00 | 10,77 | 12,35 | 14,04 | 15,74 | 17,38 | 19,02 | 20,67 | 22,32 | 24,41 | 26,61 | 28,82 | 31,03 |
| motor      | 5,5             | 7,5   | 11    |       |       |       |       | 15    | 18,5  |       | 22    |       | 30    |       |       | 37    |       |
| 6P         | 1,478           | 1,933 | 2,388 | 2,585 | 2,963 | 3,192 | 3,660 | 4,160 | 4,663 | 5,149 | 5,636 | 6,124 | 6,612 | 7,234 | 7,884 | 8,538 | 9,194 |
| motor      | 1,5             | 2,2   | 3,0   |       |       |       | 4,0   | 5,5   |       |       | 7,5   |       | 11    |       |       |       |       |
| 8P         | 0,624           | 0,815 | 1,007 | 1,091 | 1,250 | 1,347 | 1,544 | 1,755 | 1,967 | 2,172 | 2,378 | 2,584 | 2,789 | 3,052 | 3,326 | 3,602 | 3,879 |
| motor      | 0,75            | 1,1   |       |       |       | 1,5   | 2,2   |       | 3,0   |       |       |       | 4,0   |       |       |       |       |

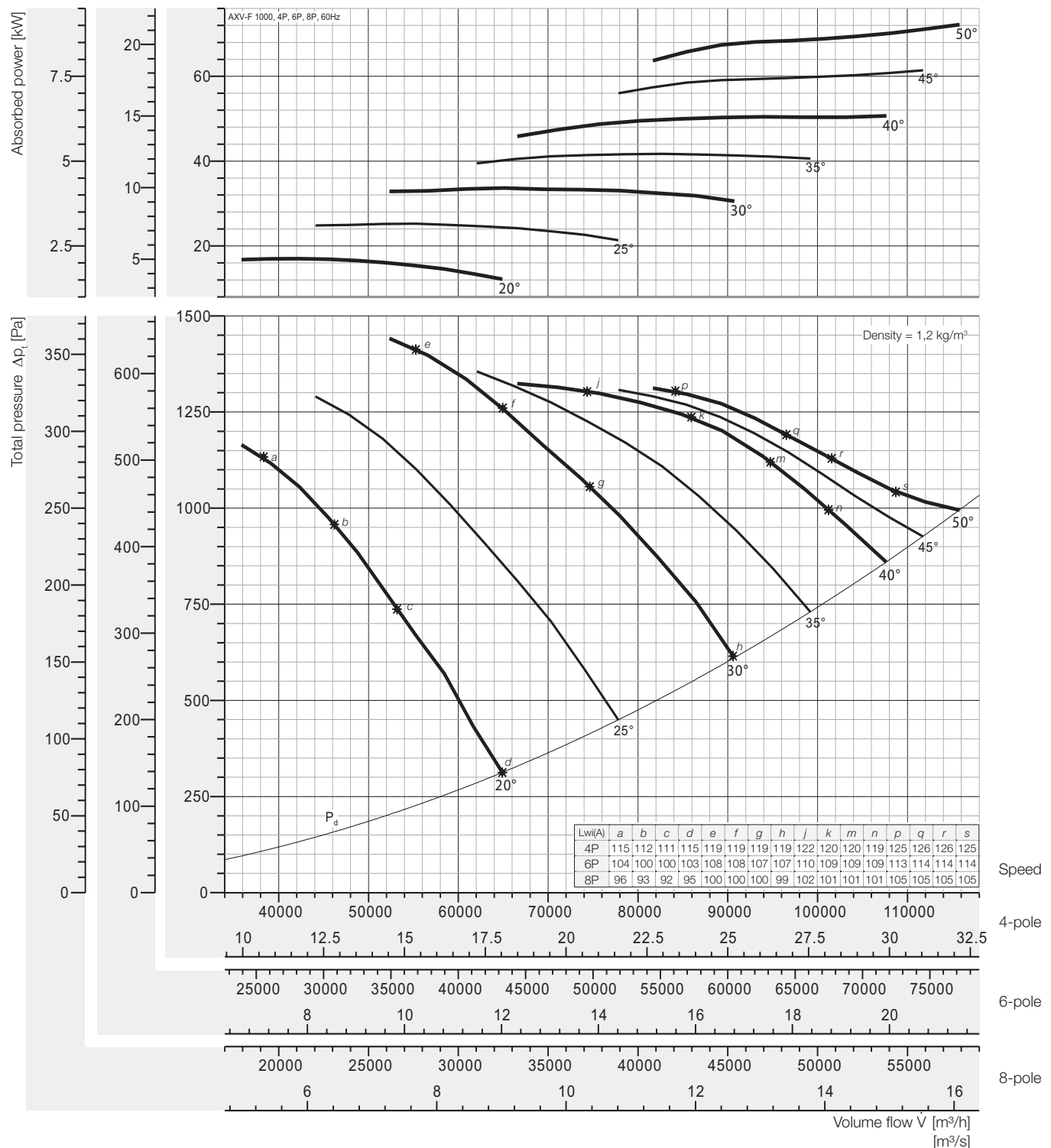
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 1000-420-6, 60Hz



### Peak absorbed power [kW]

4-pole = 1800 rpm; 6-pole = 1200 rpm; 8-pole = 900 rpm;

| N<br>Poles  | Pitch angle [°] |       |       |       |       |       |       |
|-------------|-----------------|-------|-------|-------|-------|-------|-------|
|             | 20              | 25    | 30    | 35    | 40    | 45    | 50    |
| 4P<br>motor | 17,03           | 25,25 | 33,68 | 41,75 | 50,67 | 61,43 | 72,19 |
|             | 18,5            | 30    | 37    | 45    | 55    | 75    |       |
| 6P<br>motor | 5,045           | 7,482 | 9,980 | 12,37 | 15,01 | 18,20 | 21,39 |
|             | 5,5             | 7,5   | 11    | 15    | 18,5  |       | 22    |
| 8P<br>motor | 2,128           | 3,156 | 4,210 | 5,219 | 6,333 | 7,678 | 9,023 |
|             | 2,2             | 4     | 5,5   |       | 7,5   | 11    |       |

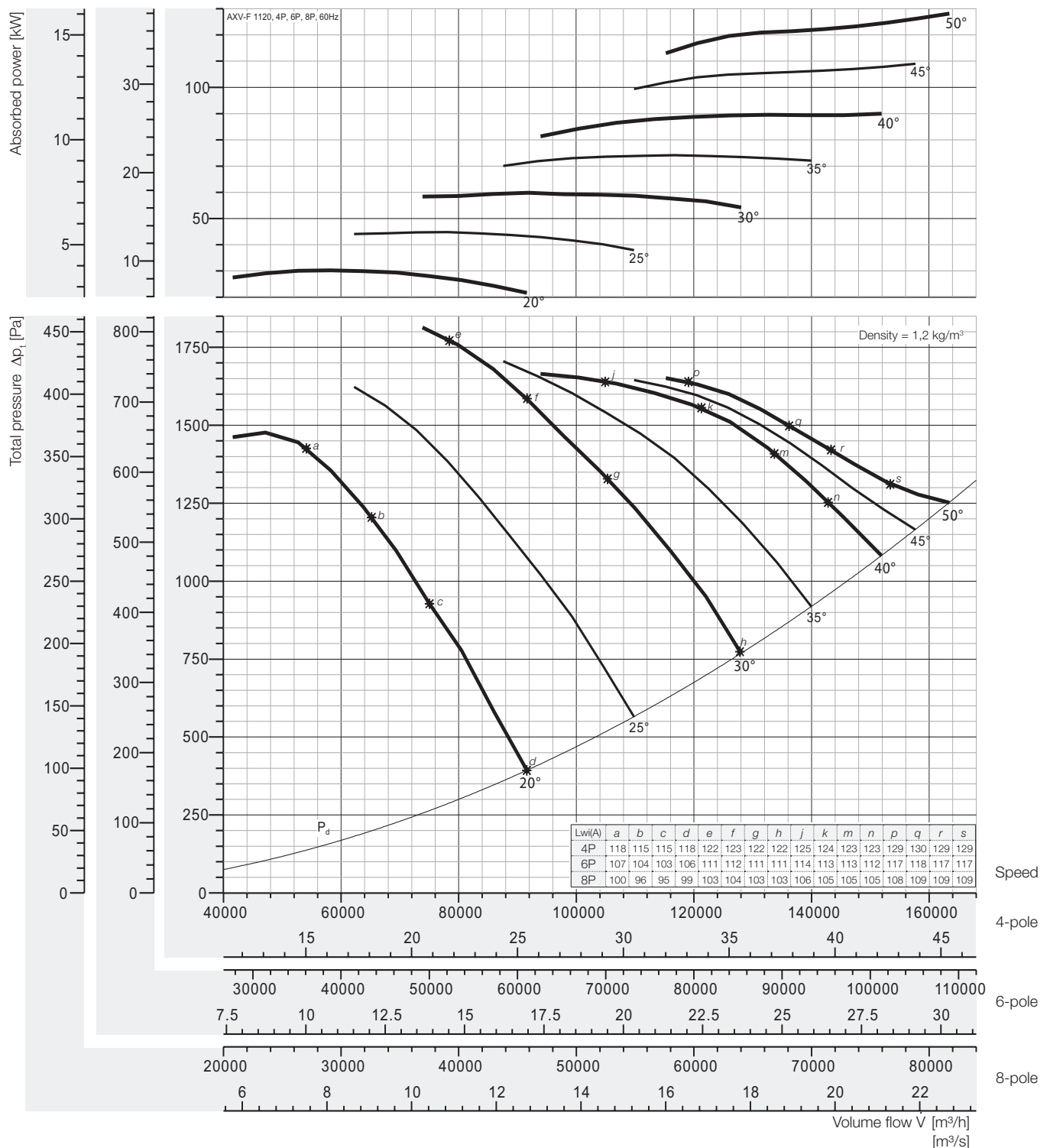
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 1120-472-6, 60Hz



### Peak absorbed power [kW]

4-pole = 1800 rpm; 6-pole = 1200 rpm; 8-pole = 900 rpm;

| N<br>Poles  | Pitch angle [°] |       |       |       |       |       |       |
|-------------|-----------------|-------|-------|-------|-------|-------|-------|
|             | 20              | 25    | 30    | 35    | 40    | 45    | 50    |
| 4P<br>motor | 30,25           | 44,83 | 59,80 | 74,12 | 89,94 | 109,0 | 128,1 |
|             | 37              | 45    | 75    |       | 90    | 110   | 132   |
| 6P<br>motor | 8,964           | 13,28 | 17,72 | 21,96 | 26,65 | 32,31 | 37,97 |
|             | 11              | 15    | 18,5  | 22    | 30    | 37    | 45    |
| 8P<br>motor | 3,782           | 5,603 | 7,475 | 9,265 | 11,24 | 13,63 | 16,02 |
|             | 4               | 7,5   |       | 11    | 15    |       | 18,5  |

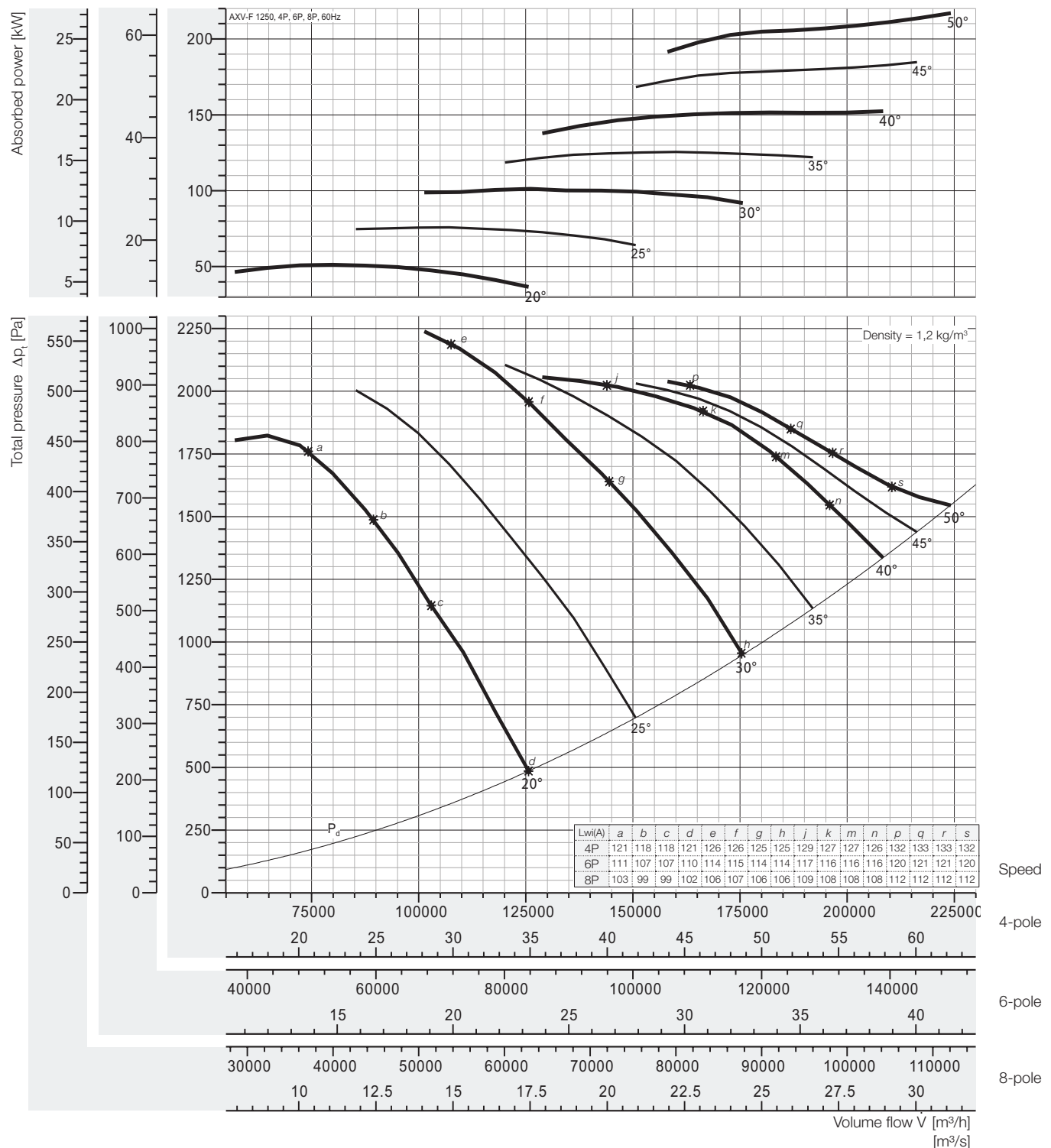
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 1250-525-6, 60Hz



### Peak absorbed power [kW]

4-pole = 1800 rpm; 6-pole = 1200 rpm; 8-pole = 900 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |
|------------|-----------------|-------|-------|-------|-------|-------|-------|
|            | 20              | 25    | 30    | 35    | 40    | 45    | 50    |
| 4P         | 51,23           | 75,91 | 101,3 | 125,5 | 152,3 | 184,7 | 217,0 |
| motor      | 55              | 90    | -     | -     | -     | -     | -     |
| 6P         | 15,18           | 22,49 | 30,00 | 37,19 | 45,13 | 54,72 | 64,30 |
| motor      | 18,5            | 30    |       | 45    | 55    |       | 75    |
| 8P         | 6,404           | 9,489 | 12,66 | 15,69 | 19,04 | 23,08 | 27,13 |
| motor      | 7,5             | 11    | 15    | 18,5  | 22    | 30    |       |

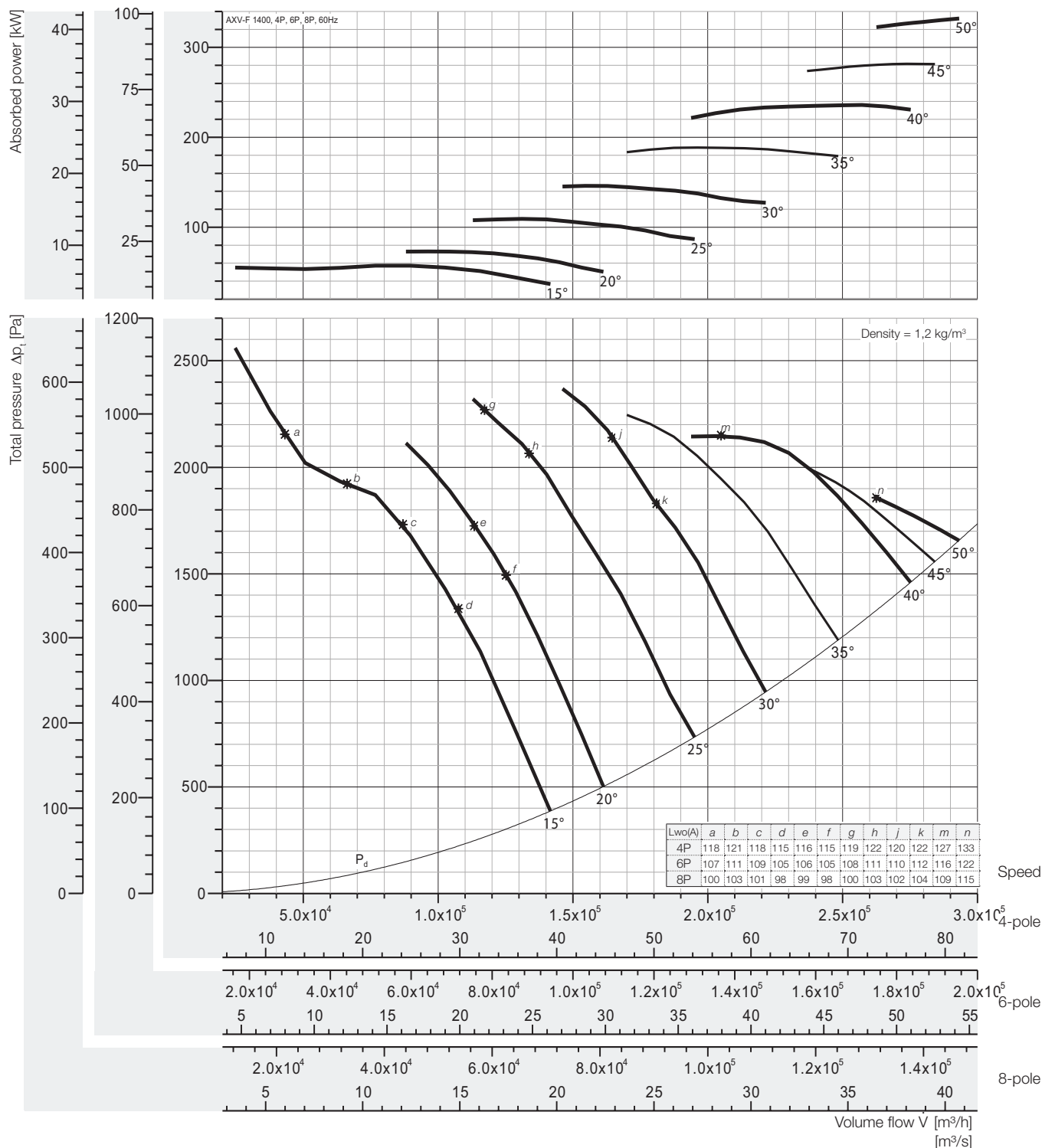
Fan test laboratory AMCA 210 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



## Performance Curve

AXV-F 1400-550-7, 60Hz



### Peak absorbed power [kW]

4-pole = 1800 rpm; 6-pole = 1200 rpm; 8-pole = 900 rpm;

| N<br>Poles  | Pitch angle [°] |       |       |       |       |       |       |
|-------------|-----------------|-------|-------|-------|-------|-------|-------|
|             | 15              | 20    | 25    | 30    | 35    | 40    | 50    |
| 4P<br>motor | 57,26           | 73,06 | 109,3 | 146,0 | 188,7 | 235,9 | 332,3 |
|             | 75              |       | 110   | 160   | 200   | 250   | 355   |
| 6P<br>motor | 16,97           | 21,65 | 32,39 | 43,27 | 55,91 | 69,89 | 98,46 |
|             | 18,5            | 22    | 37    | 45    | 75    |       | 110   |
| 8P<br>motor | 7,158           | 9,133 | 13,67 | 18,25 | 23,59 | 29,49 | 41,54 |
|             | 7,5             | 11    | 15    | 18,5  | 30    |       | 45    |

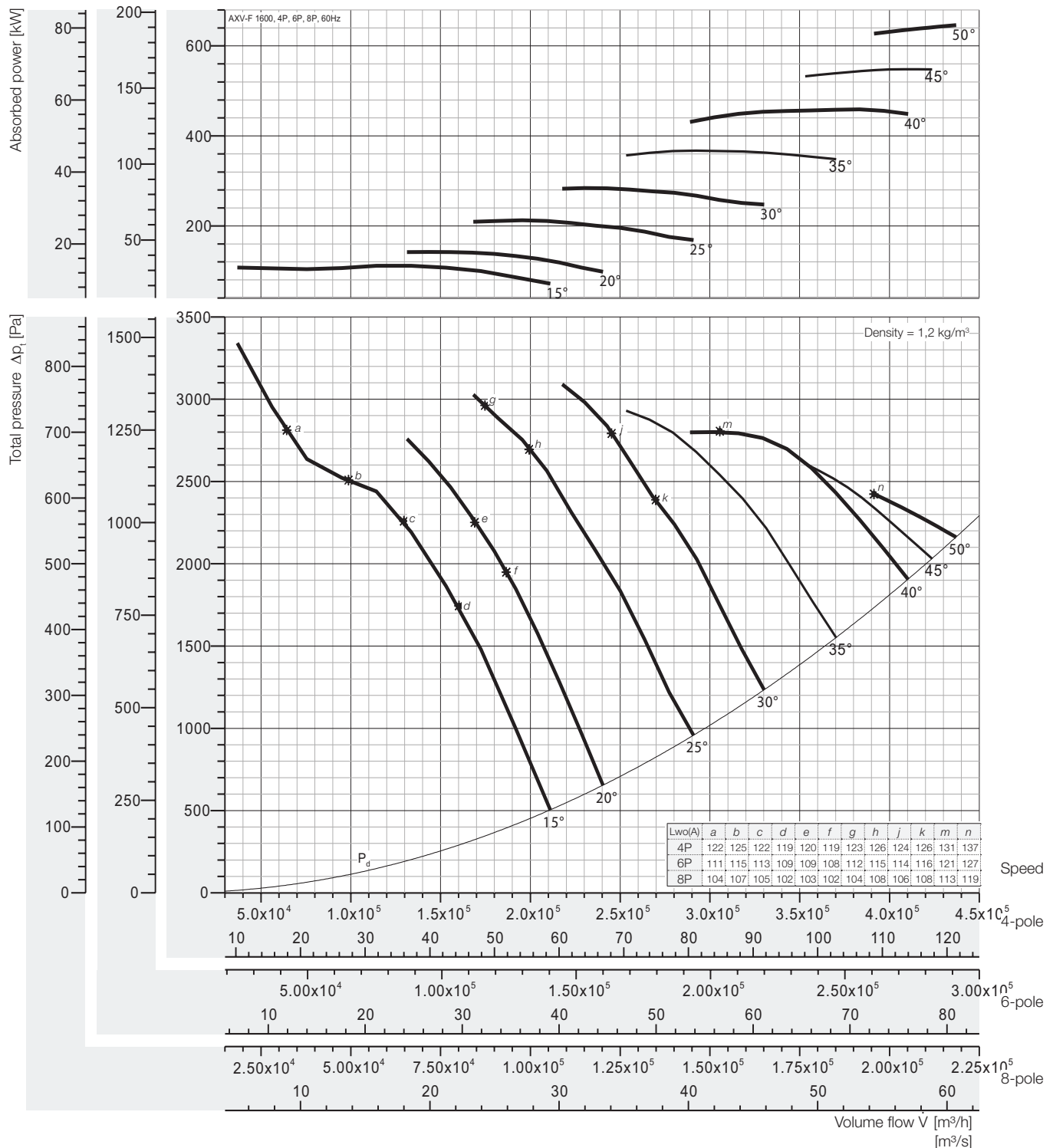
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified is for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwoA sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 1600-625-7, 60Hz



### Peak absorbed power [kW]

4-pole = 1800 rpm; 6-pole = 1200 rpm; 8-pole = 900 rpm;

| N<br>Poles  | Pitch angle [°] |       |       |       |       |       |       |       |
|-------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|             | 15              | 20    | 25    | 30    | 35    | 40    | 45    | 50    |
| 4P<br>motor | 111,4           | 142,1 | 212,7 | 284,1 | 367,1 | 458,9 | 548,2 | 646,4 |
|             | 132             | 160   | 250   | 315   | 400   | -     | -     | -     |
| 6P<br>motor | 33,01           | 42,11 | 63,01 | 84,17 | 108,8 | 136,0 | 162,4 | 191,5 |
|             | 37              | 45    | 75    | 90    | 110   | 160   | 200   |       |
| 8P<br>motor | 13,92           | 17,77 | 26,58 | 35,51 | 45,89 | 57,36 | 68,52 | 80,80 |
|             | 15              | 18,5  | 30    | 37    | 55    | 75    |       | 90    |

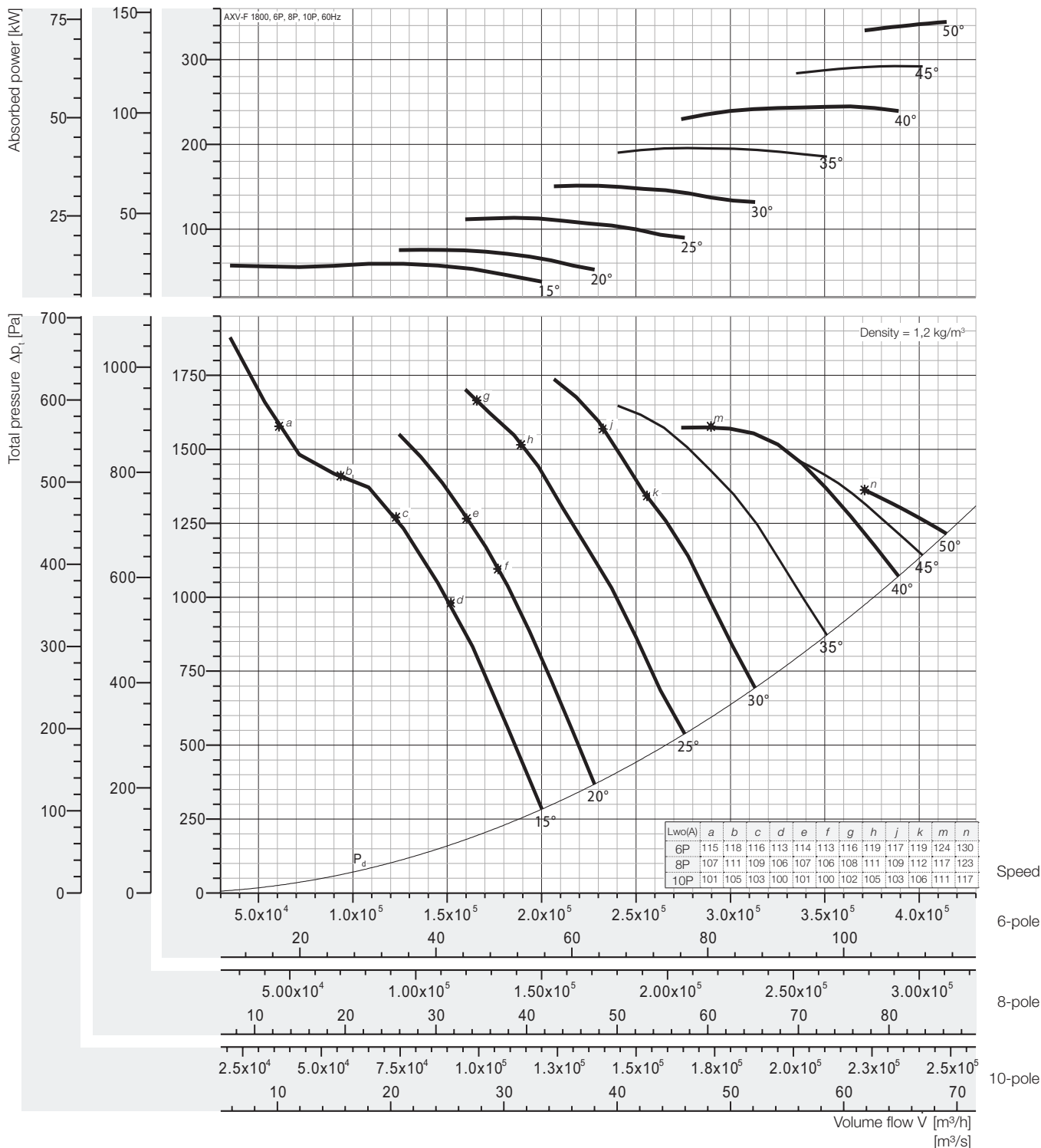
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lw(A) sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 1800-710-7, 60Hz



### Peak absorbed power [kW]

6-pole = 1200 rpm; 8-pole = 900 rpm; 10-pole = 720 rpm;

| N<br>Poles   | Pitch angle [°] |       |       |       |       |       |       |       |
|--------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|              | 15              | 20    | 25    | 30    | 35    | 40    | 45    | 50    |
| 6P<br>motor  | 59,37           | 75,76 | 113,3 | 151,4 | 195,7 | 244,6 | 292,2 | 344,5 |
|              | 75              | 90    | 132   | 160   | 200   | 250   | 315   | -     |
| 8P<br>motor  | 25,05           | 31,96 | 47,82 | 63,88 | 82,55 | 103,2 | 123,3 | 145,3 |
|              | 30              | 37    | 55    | 75    | 90    | 110   | 132   | 160   |
| 10P<br>motor | 12,82           | 16,36 | 24,49 | 32,70 | 42,26 | 52,83 | 63,11 | 74,42 |
|              | 15              | 18,5  | 30    | 37    | 45    | 55    | 75    |       |

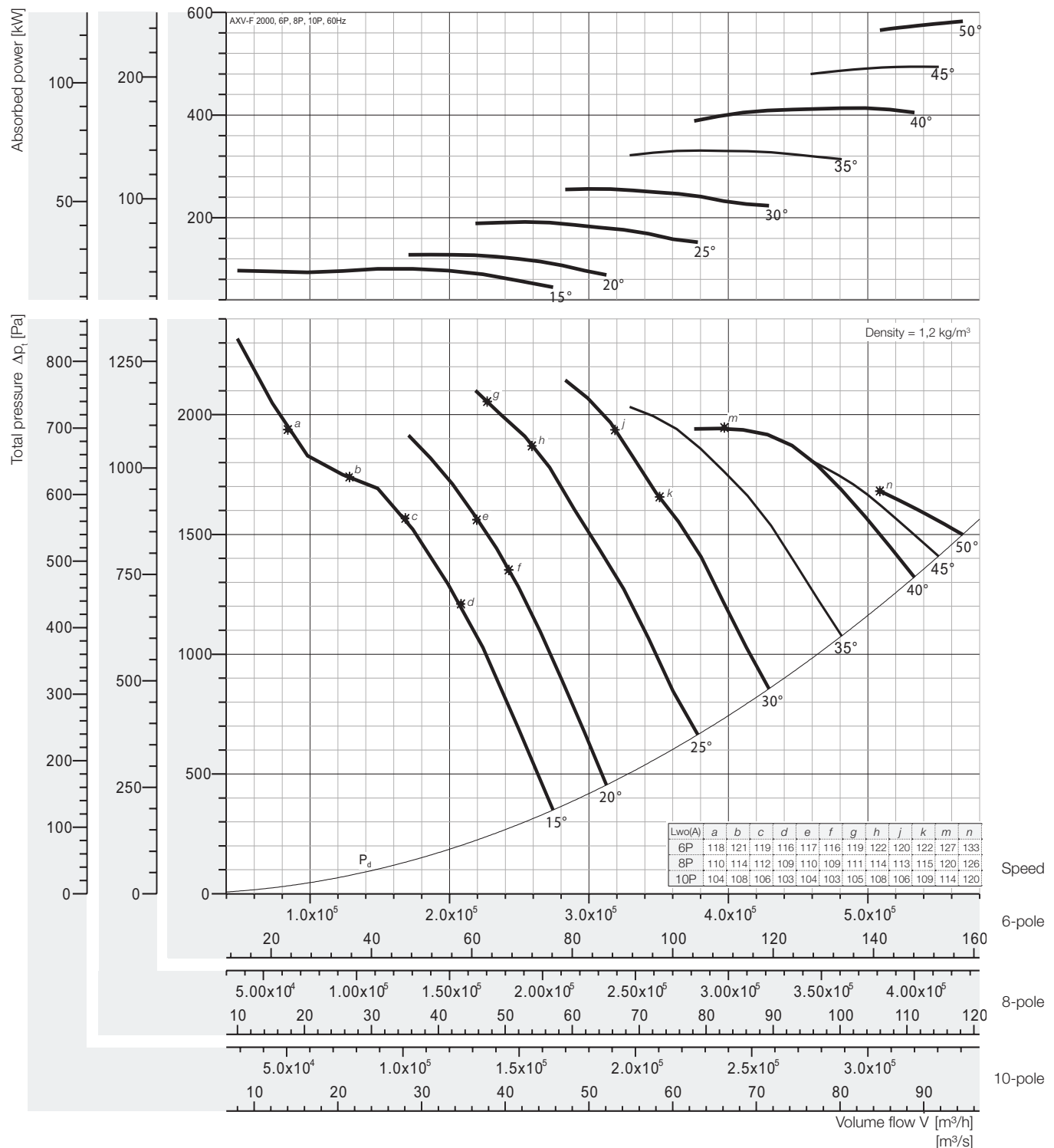
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwoA sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 2000-785-7, 60Hz



### Peak absorbed power [kW]

6-pole = 1200 rpm; 8-pole = 900 rpm; 10-pole = 720 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|            | 15              | 20    | 25    | 30    | 35    | 40    | 45    | 50    |
| 6P         | 100,4           | 128,1 | 191,7 | 256,1 | 330,9 | 413,6 | 494,1 | 582,7 |
| motor      | 110             | 132   | 200   | 315   | 355   | 450   | 500   | -     |
| 8P         | 42,36           | 54,05 | 80,88 | 108,0 | 139,6 | 174,5 | 208,4 | 245,8 |
| motor      | 45              | 55    | 90    | 110   | 160   | 200   | 250   |       |
| 10P        | 21,69           | 27,67 | 41,41 | 55,31 | 71,47 | 89,35 | 106,7 | 125,9 |
| motor      | 22              | 30    | 45    | 75    |       | 90    | 110   | 132   |

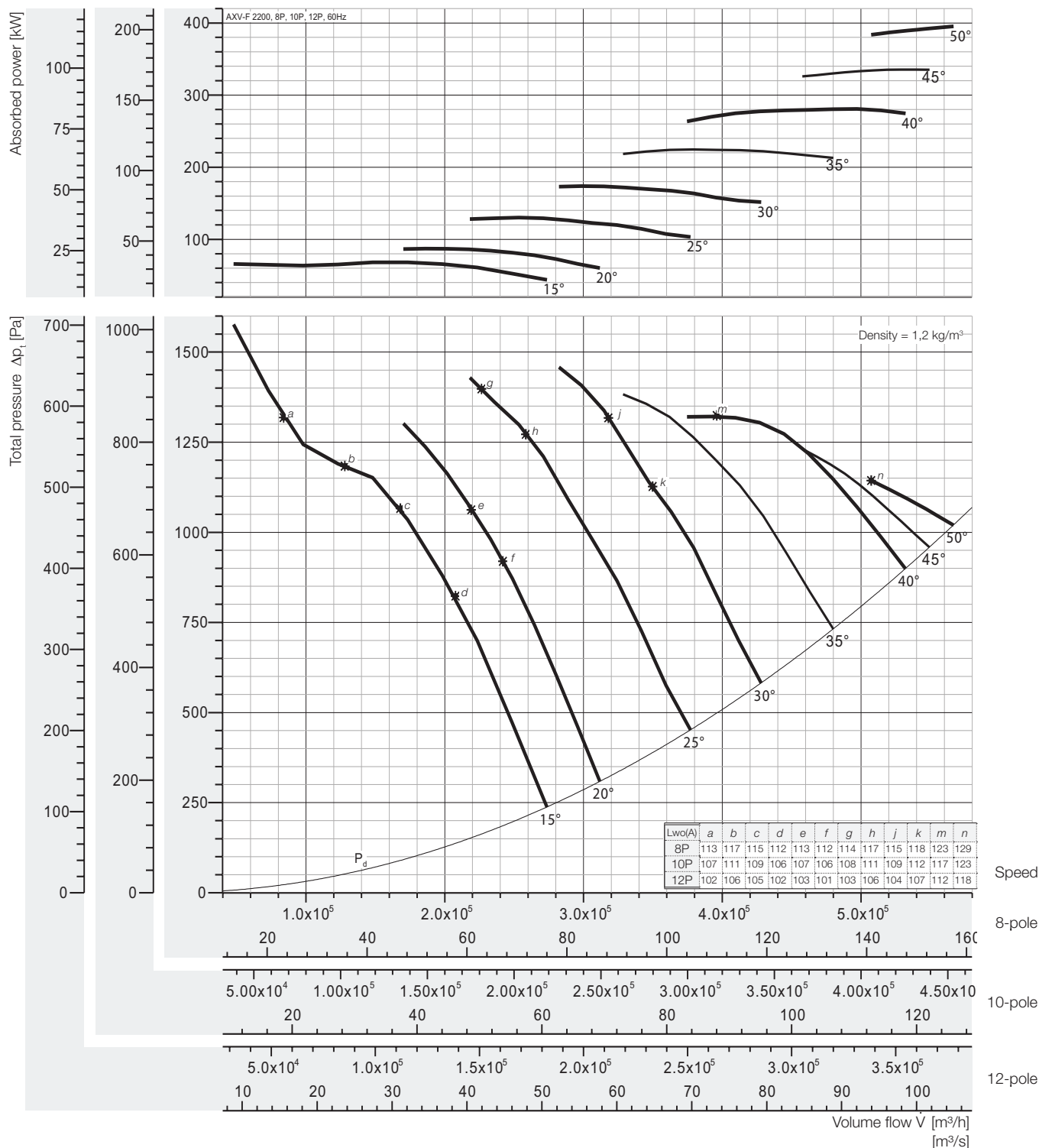
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified is for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lw(A) sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 2200-862-7, 60Hz



### Peak absorbed power [kW]

8-pole = 900 rpm; 10-pole = 720 rpm; 12-pole = 600 rpm;

| N<br>Poles   | Pitch angle [°] |       |       |       |       |       |       |       |
|--------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|              | 15              | 20    | 25    | 30    | 35    | 40    | 45    | 50    |
| 8P<br>motor  | 68,45           | 86,95 | 130,1 | 173,8 | 224,6 | 280,7 | 335,3 | 395,4 |
|              | 75              | 90    | 132   | 200   | 250   | 315   | 355   | 400   |
| 10P<br>motor | 34,89           | 44,52 | 66,61 | 88,97 | 115,0 | 143,7 | 171,7 | 202,5 |
|              | 37              | 45    | 75    | 90    | 132   | 160   | 200   | 250   |
| 12P<br>motor | 20,19           | 25,76 | 38,55 | 51,49 | 66,54 | 83,18 | 99,36 | 117,2 |
|              | 22              | 30    | 45    | 55    | 75    | 90    | 110   | 132   |

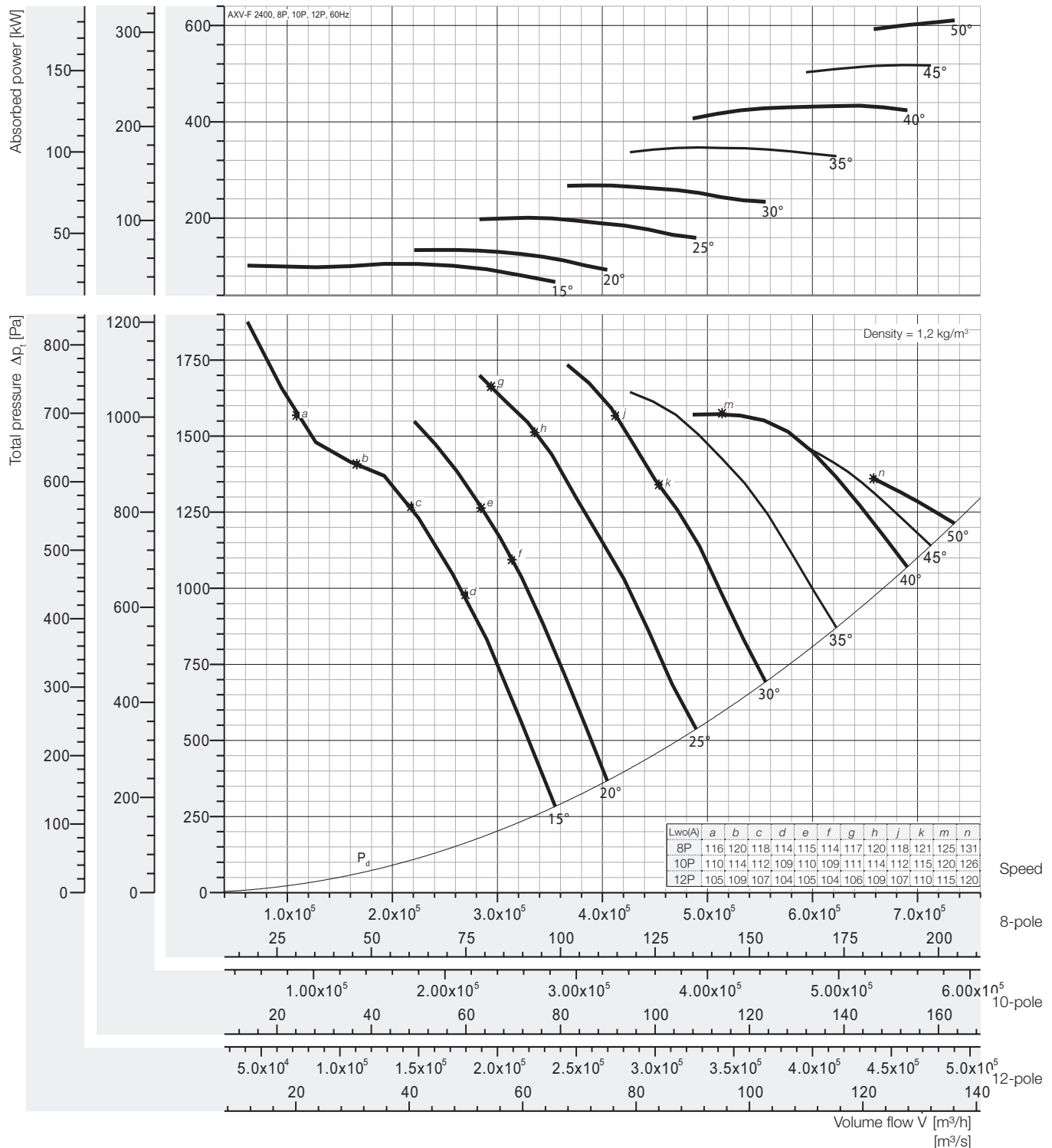
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwoA sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 2400-942-7, 60Hz



### Peak absorbed power [kW]

8-pole = 900 rpm; 10-pole = 720 rpm; 12-pole = 600 rpm;

| N<br>Poles   | Pitch angle [°] |       |       |       |       |       |       |       |
|--------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|              | 15              | 20    | 25    | 30    | 35    | 40    | 45    | 50    |
| 8P<br>motor  | 105,2           | 134,2 | 200,8 | 268,2 | 346,6 | 433,3 | 517,6 | 610,4 |
|              | 110             | 160   | 250   | 315   | 355   | 450   | 560   | 630   |
| 10P<br>motor | 53,86           | 68,72 | 102,8 | 137,3 | 177,5 | 221,9 | 265,0 | 312,5 |
|              | 55              | 75    | 110   | 160   | 200   | 250   | 315   |       |
| 12P<br>motor | 31,17           | 39,77 | 59,50 | 79,48 | 102,7 | 128,4 | 153,4 | 180,9 |
|              | 37              | 45    | 75    | 90    | 110   | 132   | 160   | 200   |

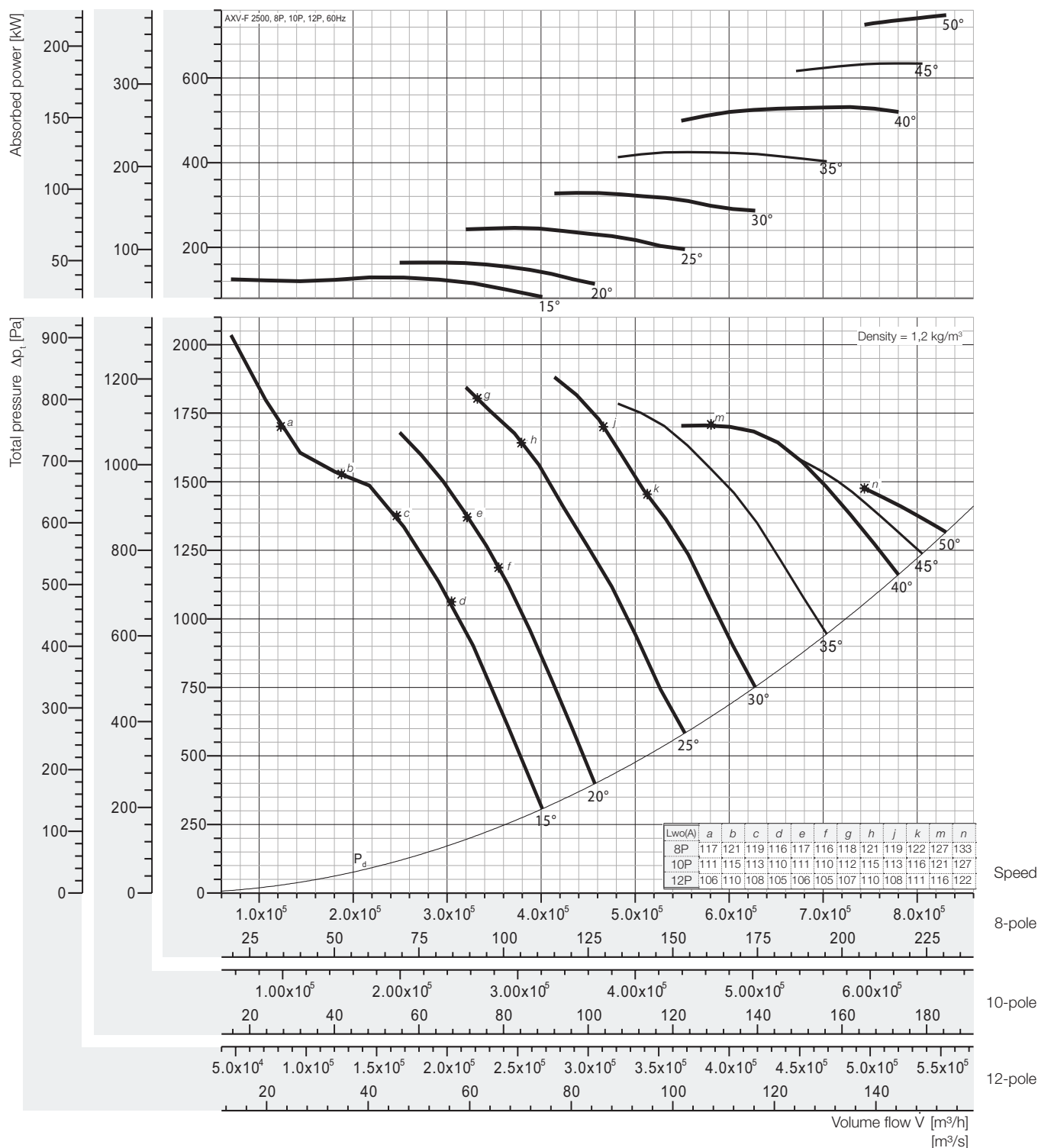
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified is for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwoA sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 2500-980-7, 60Hz



### Peak absorbed power [kW]

8-pole = 900 rpm; 10-pole = 720 rpm; 12-pole = 600 rpm;

| N<br>Poles   | Pitch angle [°] |       |       |       |       |       |       |       |
|--------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|              | 15              | 20    | 25    | 30    | 35    | 40    | 45    | 50    |
| 8P<br>motor  | 128,9           | 164,5 | 246,2 | 328,8 | 425,0 | 531,2 | 634,6 | 748,3 |
|              | 132             | 200   | 250   | 355   | 450   | 560   | 710   | -     |
| 10P<br>motor | 66,02           | 84,24 | 126,0 | 168,4 | 217,6 | 272,0 | 324,9 | 383,1 |
|              | 75              | 90    | 132   | 200   | 250   | 315   | 355   | 400   |
| 12P<br>motor | 38,21           | 48,75 | 72,95 | 97,43 | 125,9 | 157,4 | 188,0 | 221,7 |
|              | 45              | 55    | 75    | 110   | 132   | 160   | 200   | 250   |

Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

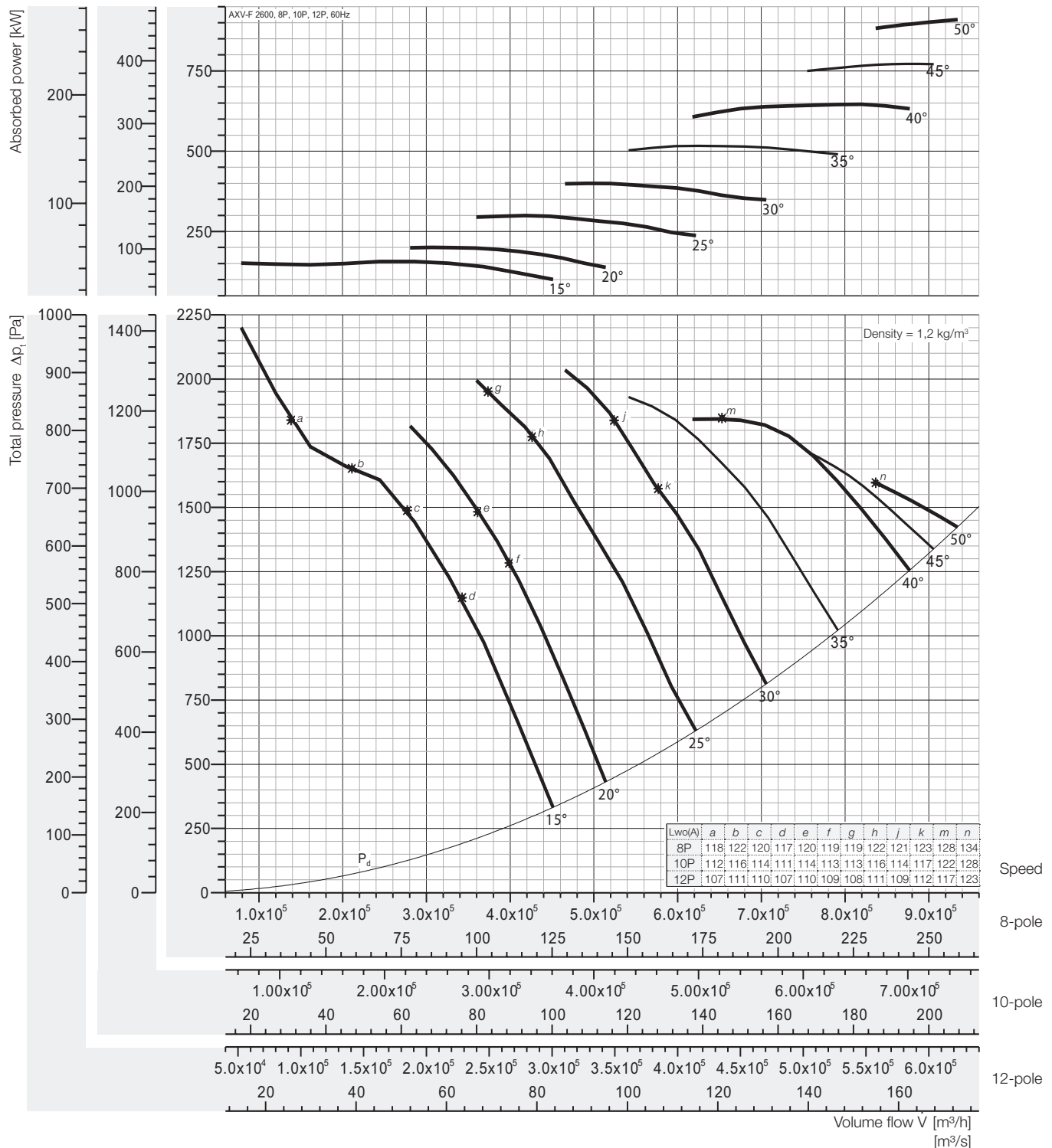
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwoA sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 2600-1020-7, 60Hz

wolter



### Peak absorbed power [kW]

8-pole = 900 rpm; 10-pole = 720 rpm; 12-pole = 600 rpm;

| N<br>Poles | Pitch angle [°] |       |       |       |       |       |       |       |
|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|            | 15              | 20    | 25    | 30    | 35    | 40    | 45    | 50    |
| 8P         | 156,8           | 200,1 | 299,4 | 399,9 | 516,8 | 646,1 | 771,8 | 910,1 |
| motor      | 160             | 250   | 315   | 400   | 560   | 710   | -     | -     |
| 10P        | 80,30           | 102,4 | 153,3 | 204,8 | 264,6 | 330,8 | 395,1 | 466,0 |
| motor      | 90              | 110   | 160   | 250   | 315   | 355   | 400   | 500   |
| 12P        | 46,47           | 59,29 | 88,72 | 118,5 | 153,1 | 191,4 | 228,7 | 269,6 |
| motor      | 55              | 75    | 90    | 132   | 160   | 200   | 250   | 315   |

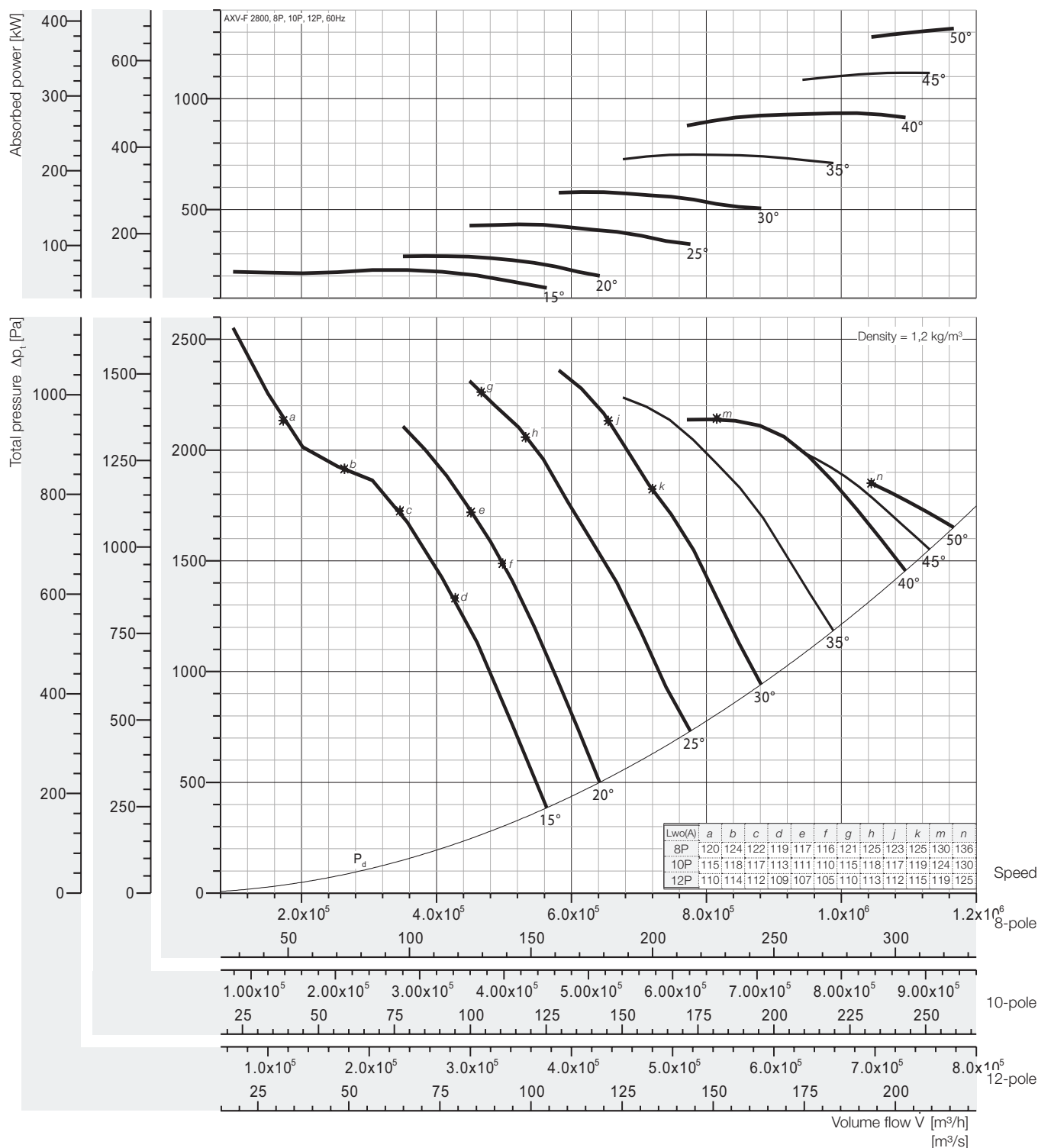
Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified is for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lw(A) sound power levels for installation Type A: free inlet, free outlet.



## Performance Curve

AXV-F 2800-1095-7, 60Hz



### Peak absorbed power [kW]

8-pole = 900 rpm; 10-pole = 720 rpm; 12-pole = 600 rpm;

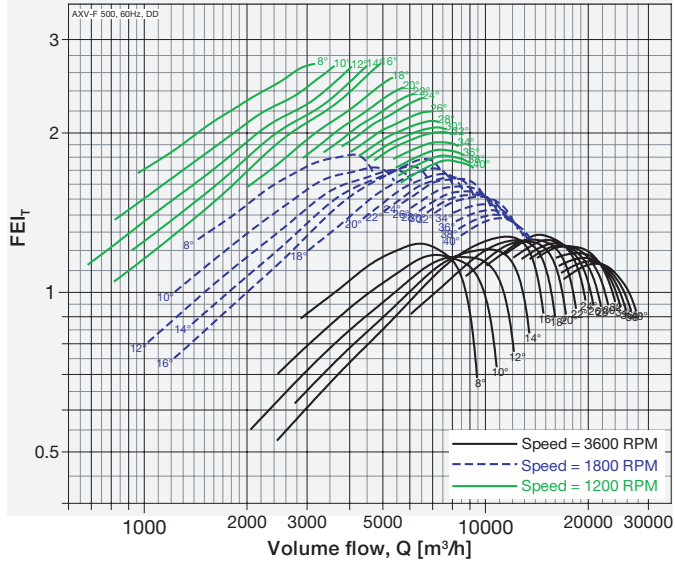
| N<br>Poles   | Pitch angle [°] |       |       |       |       |       |       |       |
|--------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|              | 15              | 20    | 25    | 30    | 35    | 40    | 45    | 50    |
| 8P<br>motor  | 227,0           | 289,6 | 433,4 | 578,9 | 748,1 | 935,2 | 1117  | 1317  |
|              | 250             | 315   | 450   | 630   | -     | -     | -     | -     |
| 10P<br>motor | 116,2           | 148,3 | 221,9 | 296,4 | 383,0 | 478,8 | 572,0 | 674,5 |
|              | 132             | 160   | 250   | 315   | 400   | 500   | 630   | 710   |
| 12P<br>motor | 67,26           | 85,82 | 128,4 | 171,5 | 221,7 | 277,1 | 331,0 | 390,3 |
|              | 75              | 90    | 132   | 200   | 250   | 315   | 355   | 400   |

Fan test laboratory AMCA 210 Fig.15, Test Chamber. Performance certified for installation type A - Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

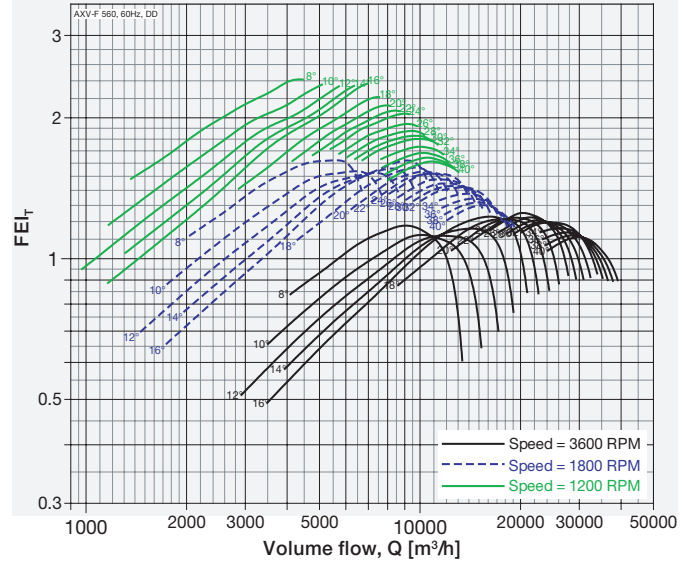
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet LwoA sound power levels for installation Type A: free inlet, free outlet.

Direct Driven Models, Size from 500 to 2800, 60Hz

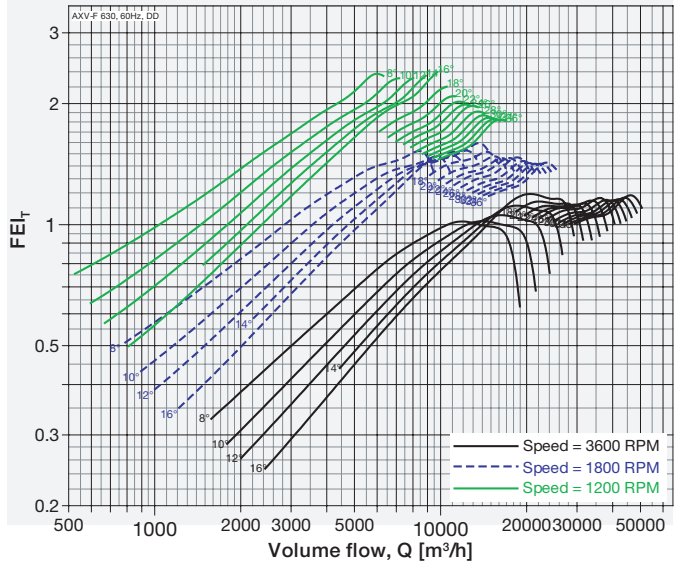
Model: AXV-F 500-150-6



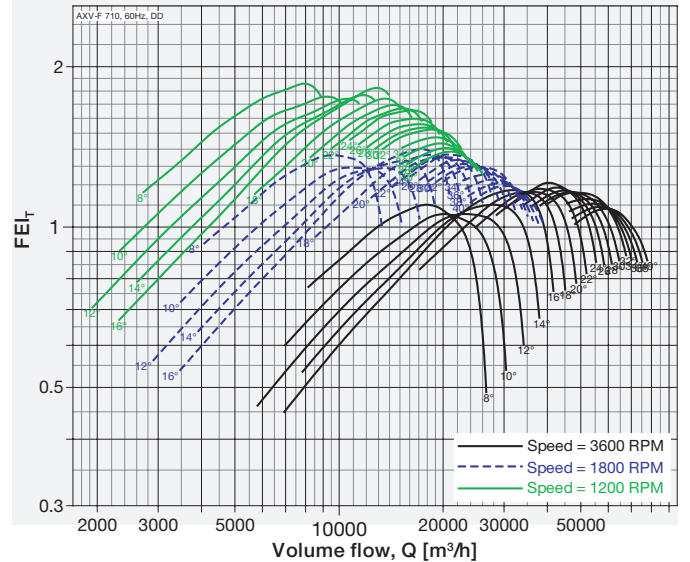
Model: AXV-F 560-168-6



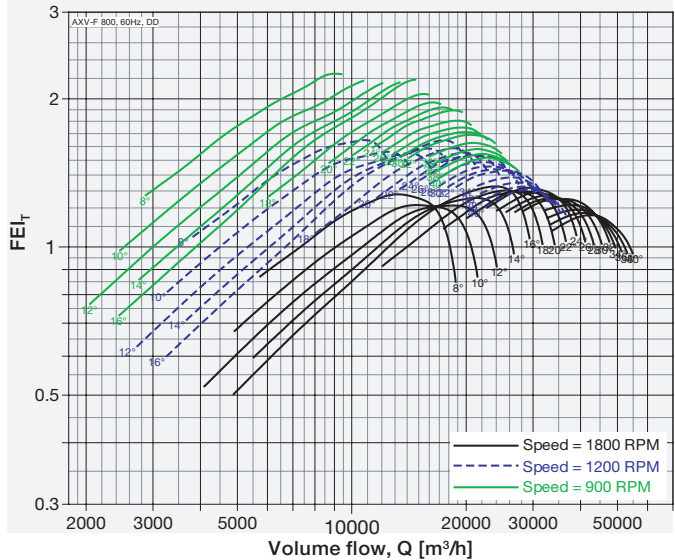
Model: AXV-F 630-200-6



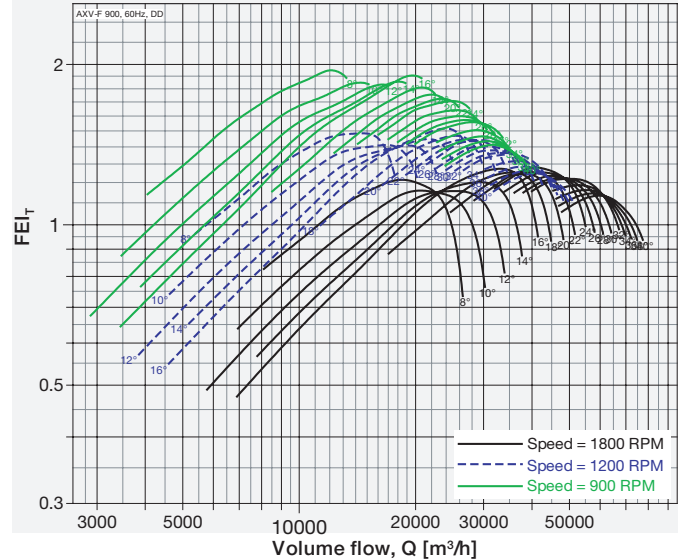
Model: AXV-F 710-212-6



Model: AXV-F 800-238-6

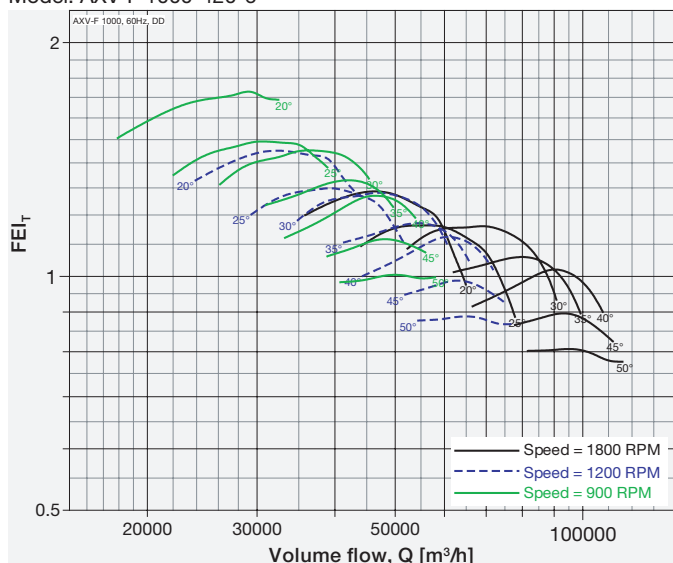


Model: AXV-F 900-267-6

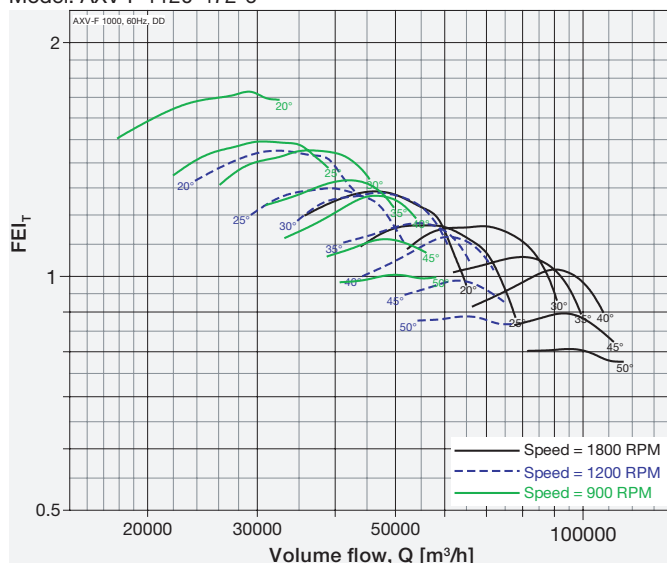


Performance of size 500 to 1250 certified is for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified is for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). FEI<sub>r</sub> / FEI<sub>s</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Direct Driven type). FEI<sub>r</sub> / FEI<sub>s</sub> values for fans with specific motors will vary slightly from those shown.

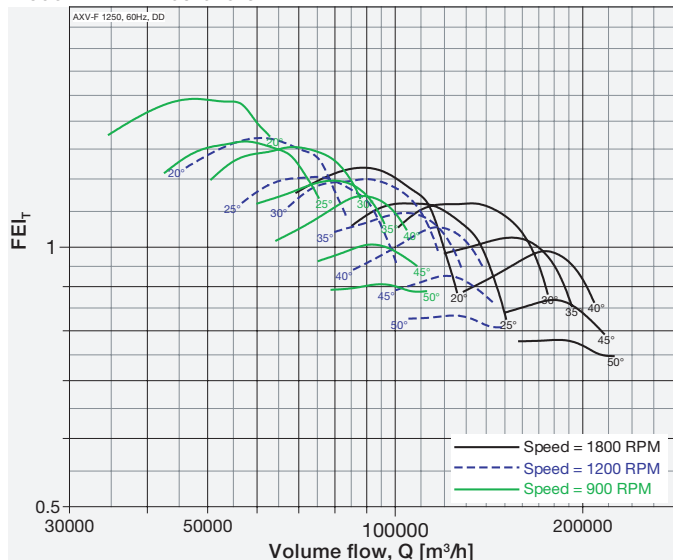
Model: AXV-F 1000-420-6



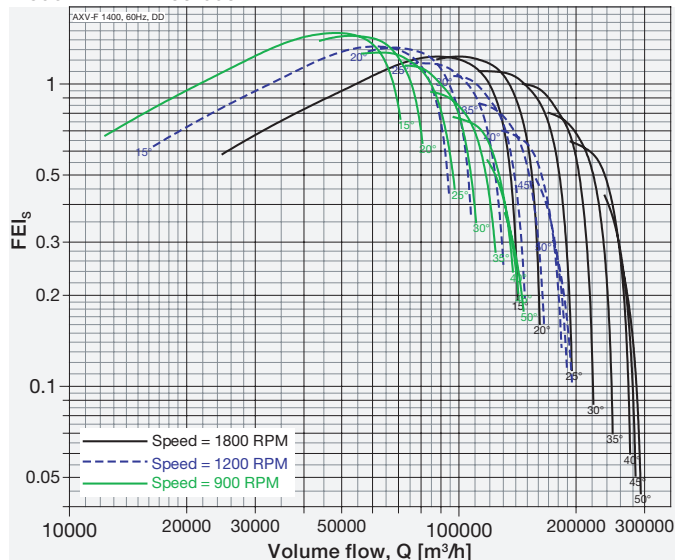
Model: AXV-F 1120-472-6



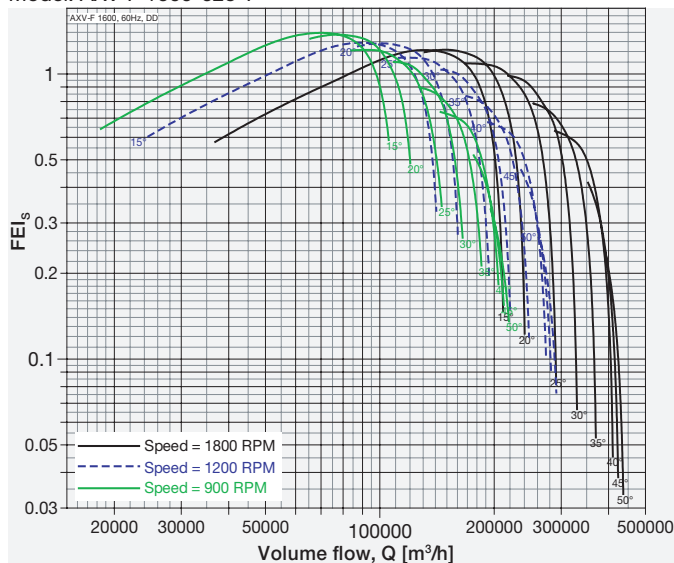
Model: AXV-F 1250-525-6



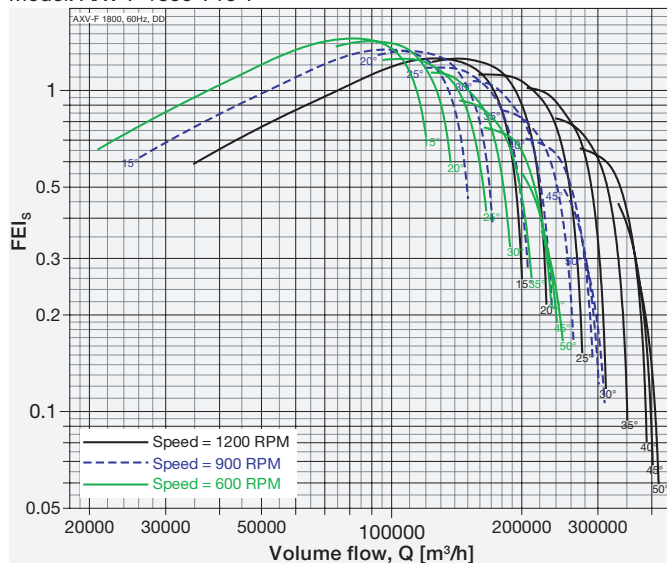
Model: AXV-F 1400-550-7



Model: AXV-F 1600-625-7

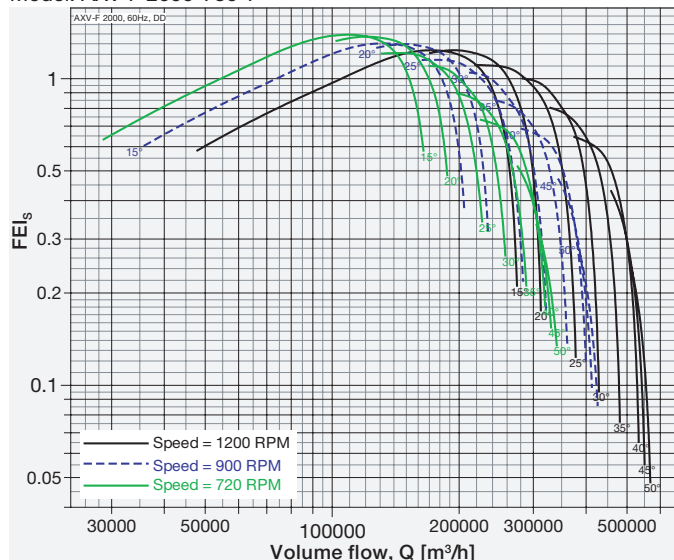


Model: AXV-F 1800-710-7

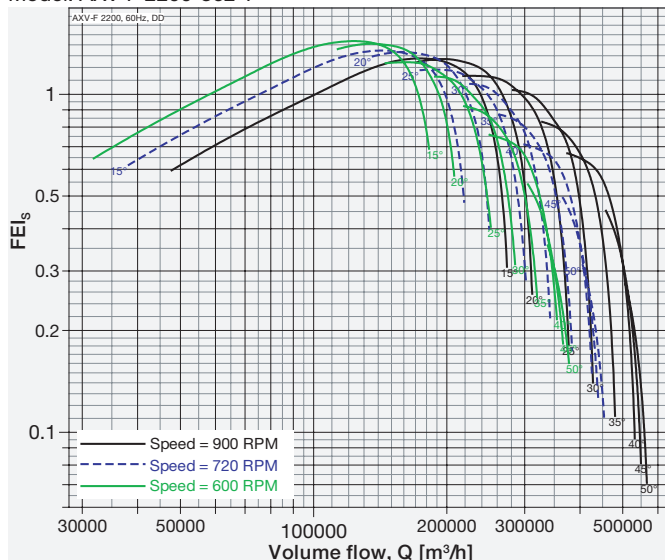


Performance of size 500 to 1250 certified is for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified is for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). FEI<sub>t</sub> / FEI<sub>s</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Direct Driven type). FEI<sub>t</sub> / FEI<sub>s</sub> values for fans with specific motors will vary slightly from those shown.

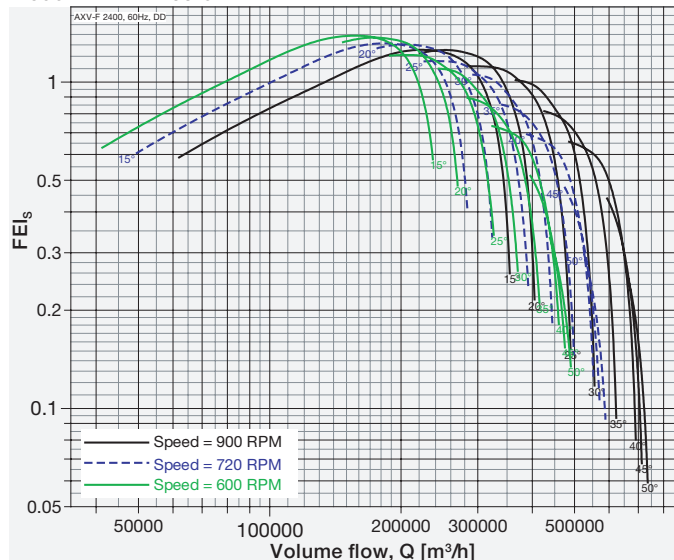
Model: AXV-F 2000-780-7



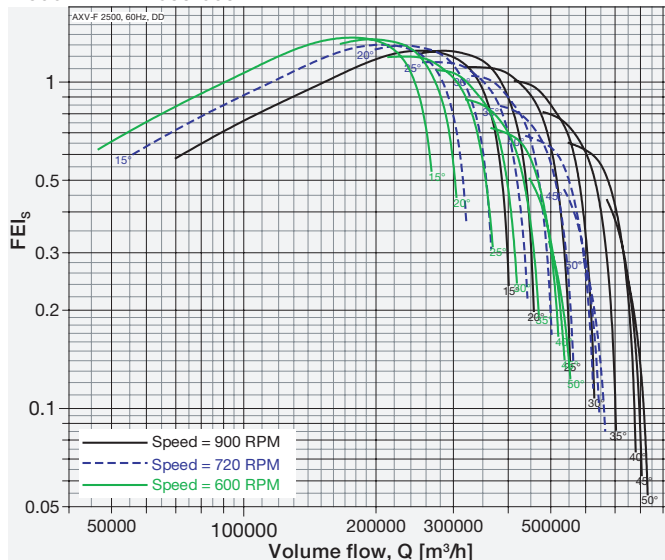
Model: AXV-F 2200-862-7



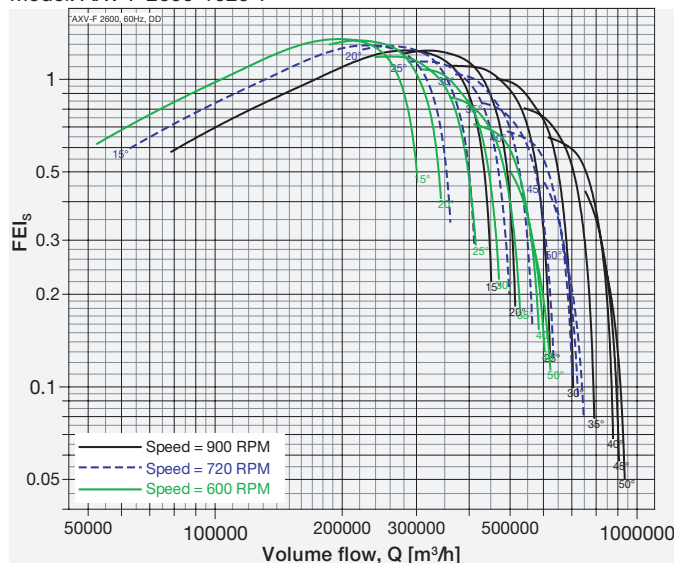
Model: AXV-F 2400-942-7



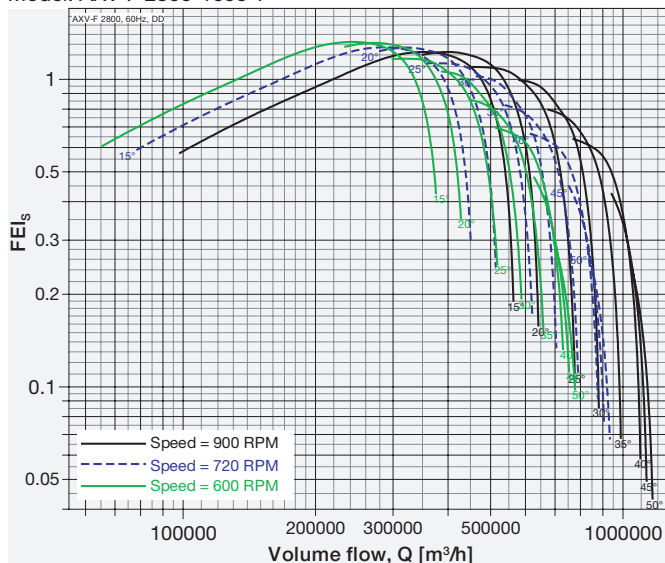
Model: AXV-F 2500-980-7



Model: AXV-F 2600-1020-7



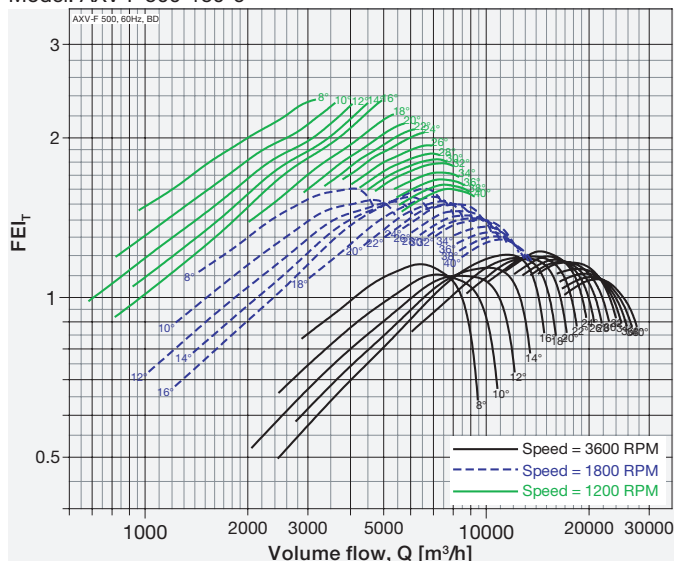
Model: AXV-F 2800-1095-7



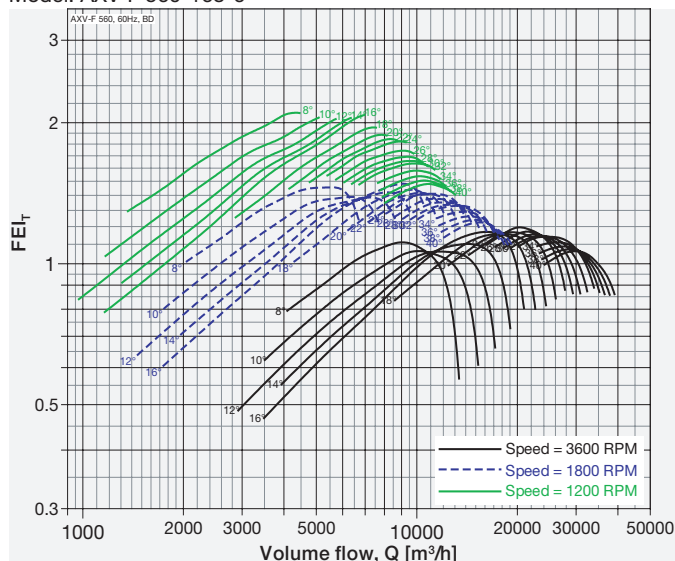
Performance of size 500 to 1250 certified for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). FEI<sub>r</sub> / FEI<sub>s</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Direct Driven type). FEI<sub>r</sub> / FEI<sub>s</sub> values for fans with specific motors will vary slightly from those shown.

Belt Driven Models, Size from 500 to 2800, 60Hz

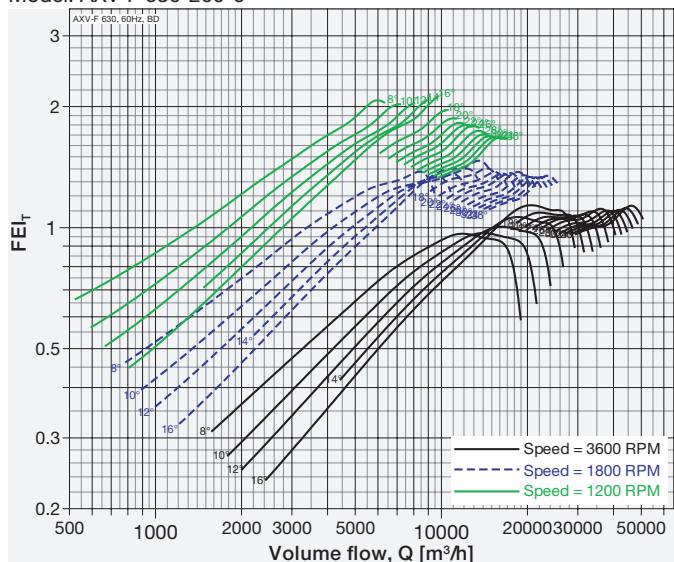
Model: AXV-F 500-150-6



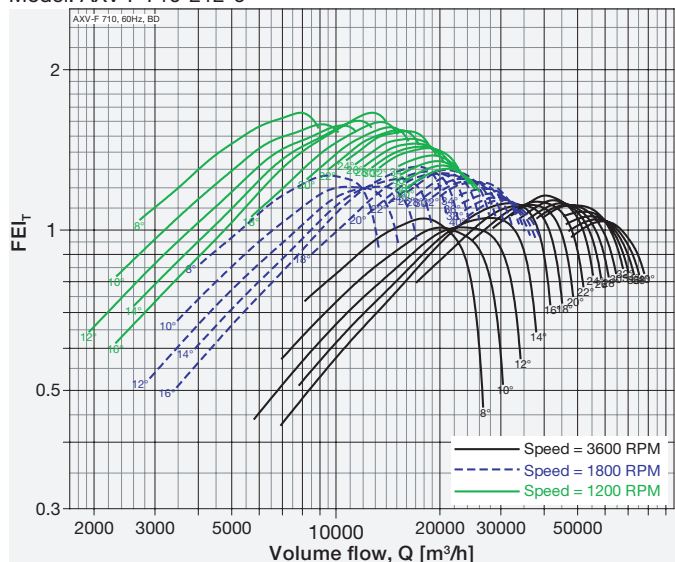
Model: AXV-F 560-168-6



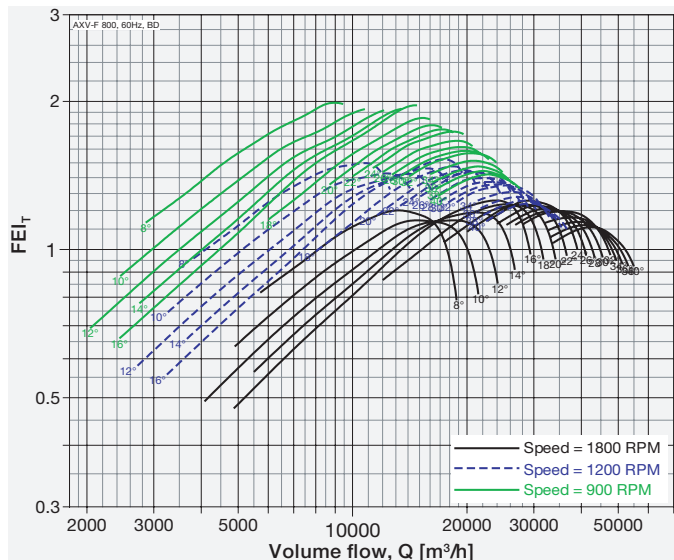
Model: AXV-F 630-200-6



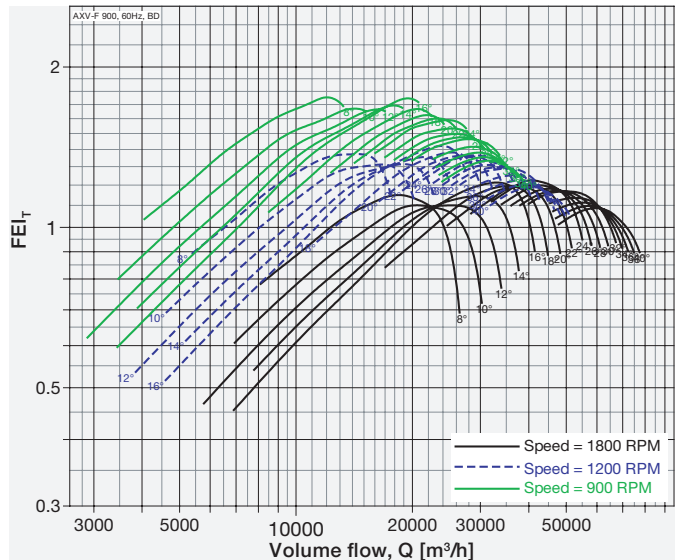
Model: AXV-F 710-212-6



Model: AXV-F 800-238-6

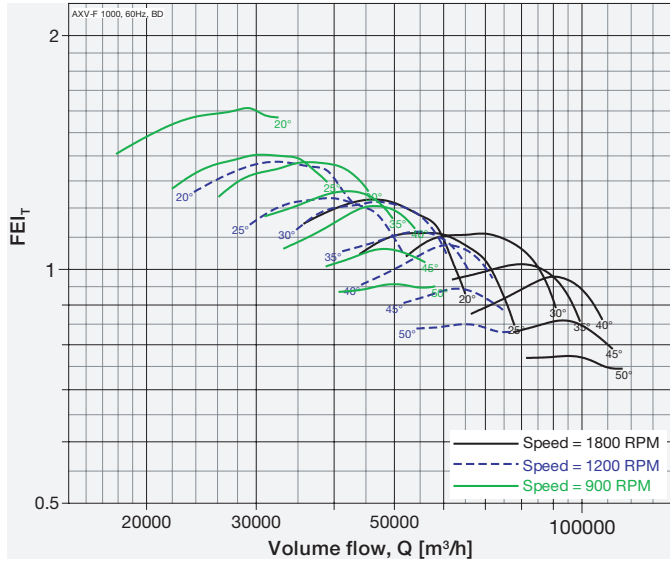


Model: AXV-F 900-267-6

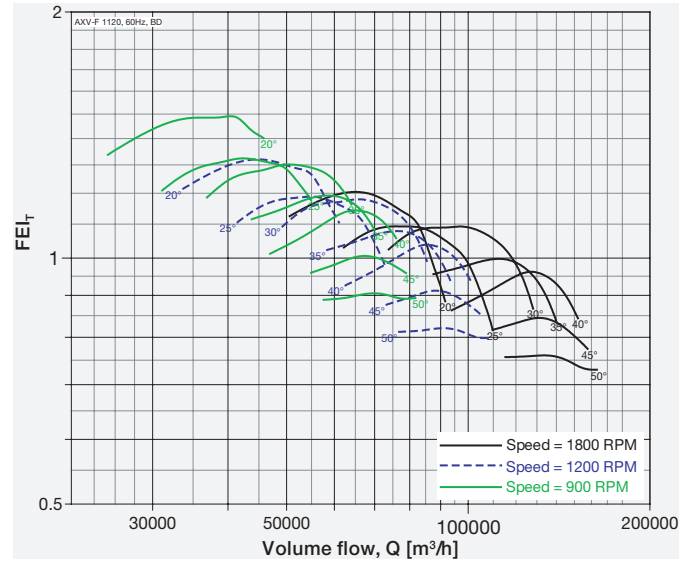


Performance of size 500 to 1250 certified is for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified is for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). FEI<sub>T</sub> / FEI<sub>S</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Belt Driven type). FEI<sub>T</sub> / FEI<sub>S</sub> values for fans with specific motors will vary slightly from those shown.

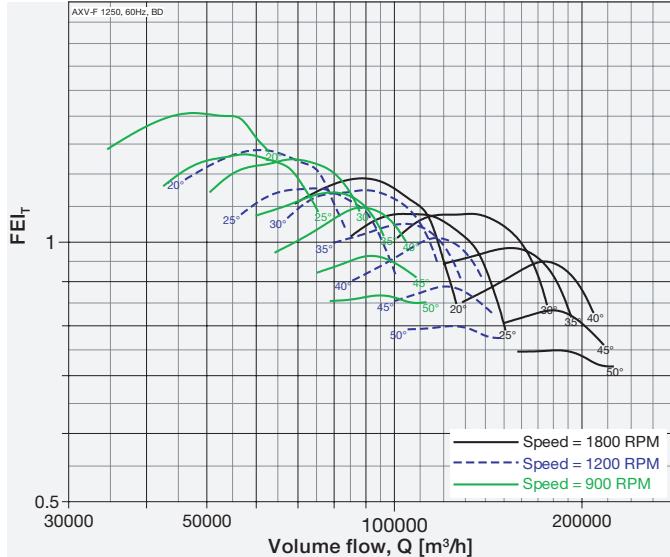
Model: AXV-F 1000-420-6



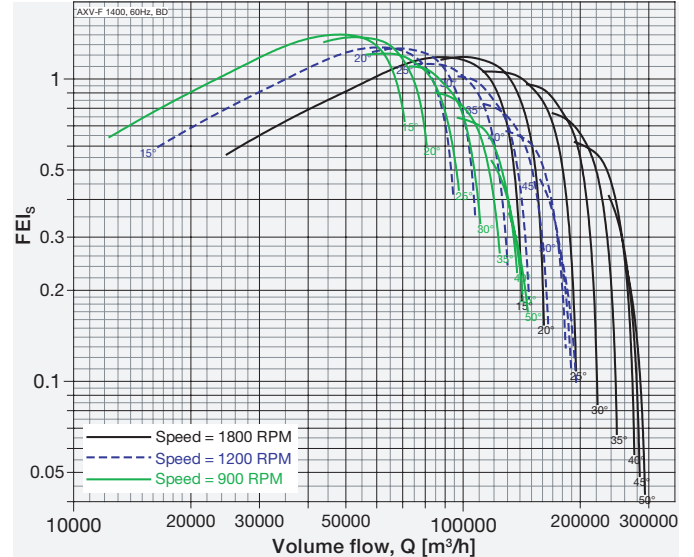
Model: AXV-F 1120-472-6



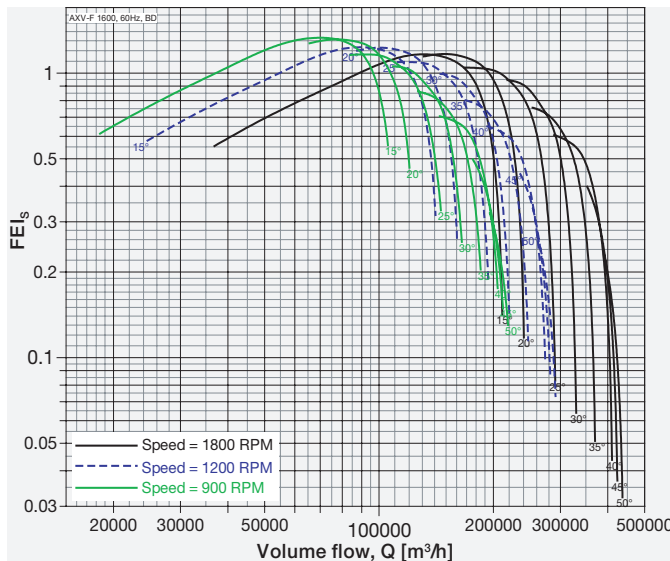
Model: AXV-F 1250-525-6



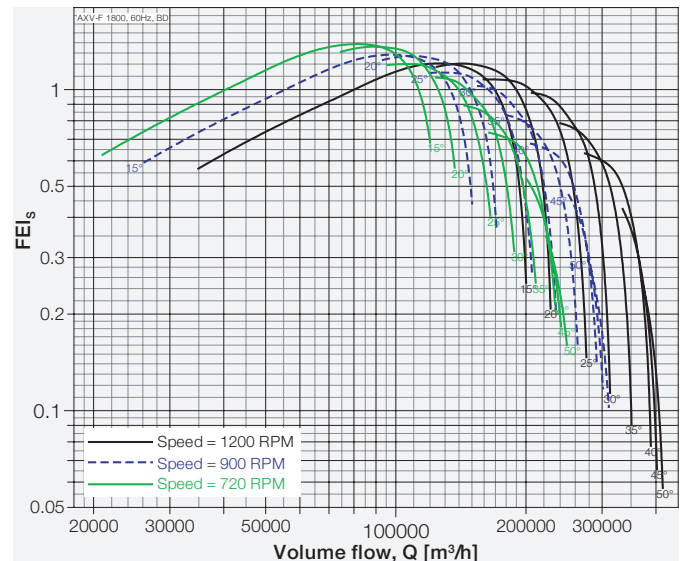
Model: AXV-F 1400-550-7



Model: AXV-F 1600-625-7

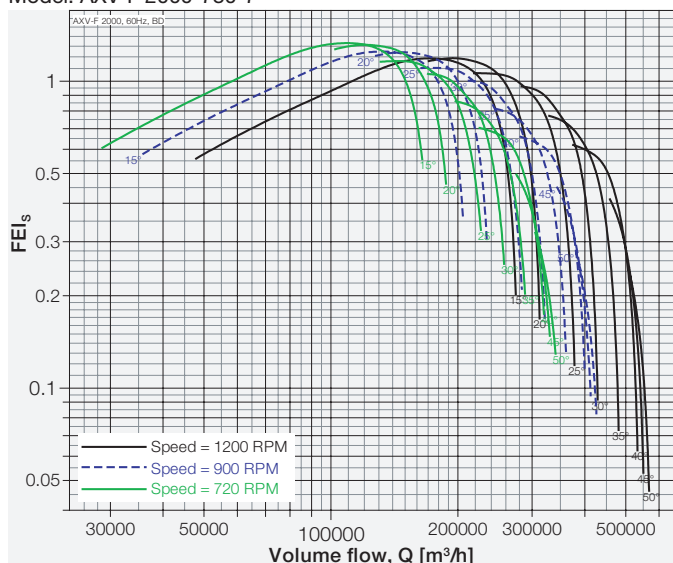


Model: AXV-F 1800-710-7

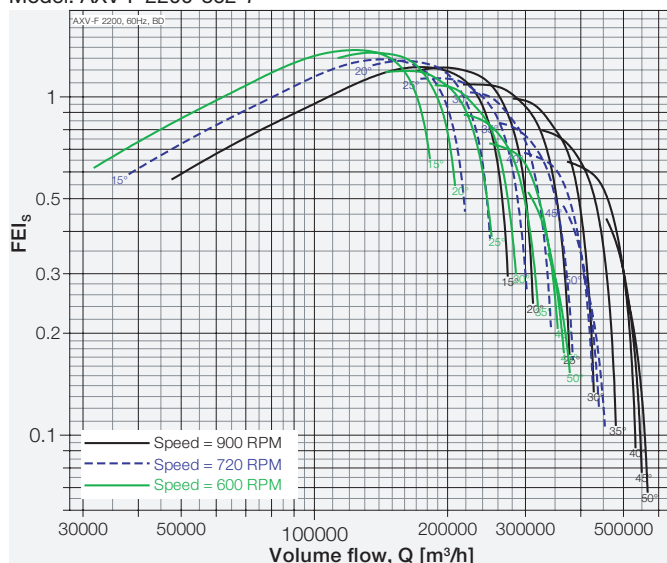


Performance of size 500 to 1250 certified is for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified is for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). FEI<sub>T</sub> / FEI<sub>S</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Belt Driven type). FEI<sub>T</sub> / FEI<sub>S</sub> values for fans with specific motors will vary slightly from those shown.

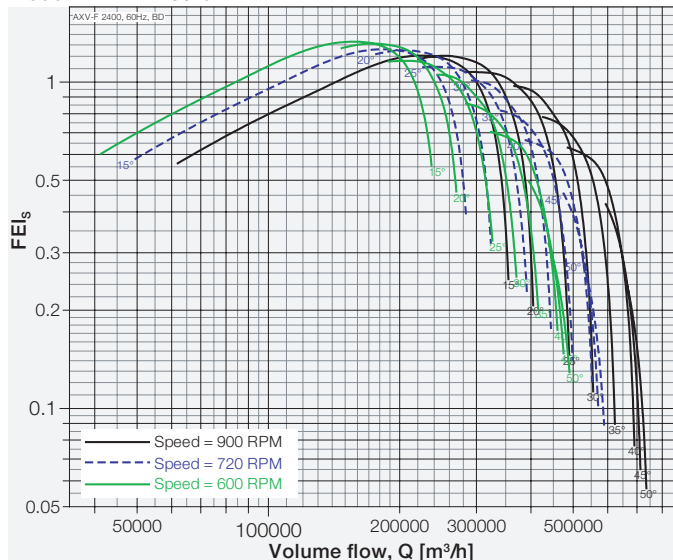
Model: AXV-F 2000-780-7



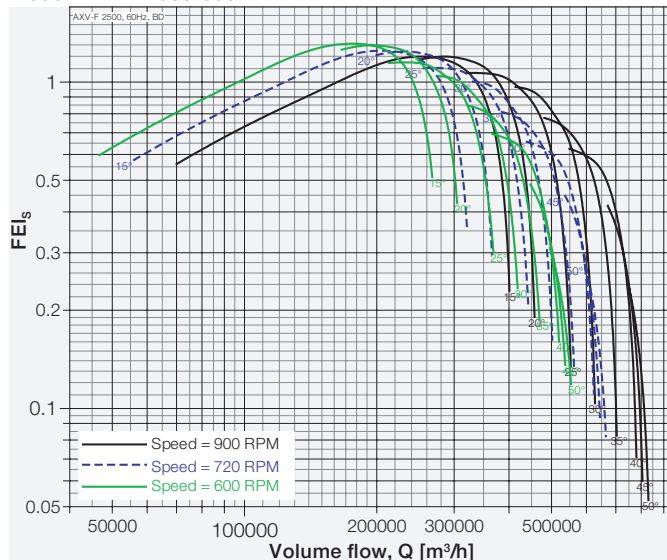
Model: AXV-F 2200-862-7



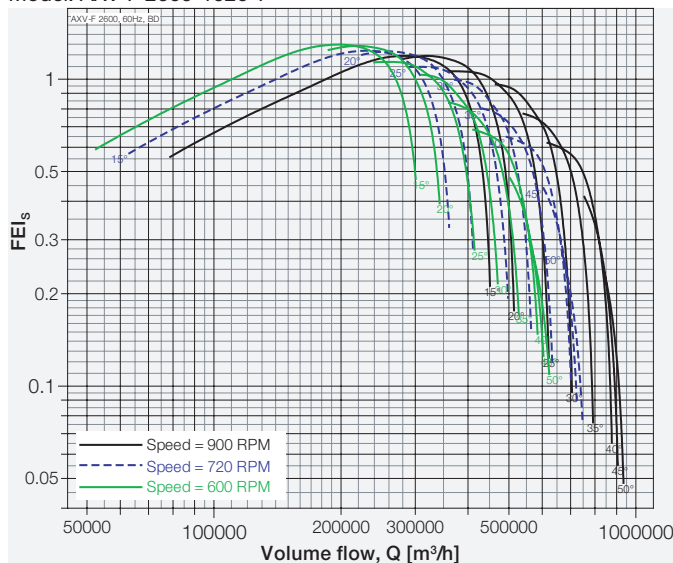
Model: AXV-F 2400-942-7



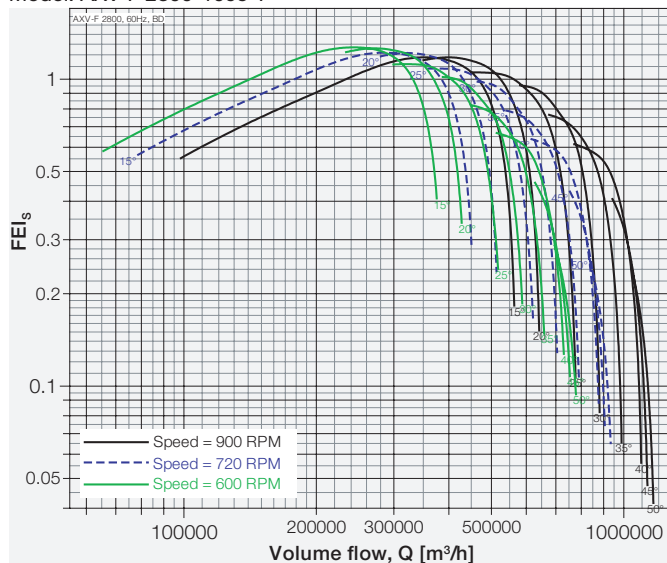
Model: AXV-F 2500-980-7



Model: AXV-F 2600-1020-7



Model: AXV-F 2800-1095-7



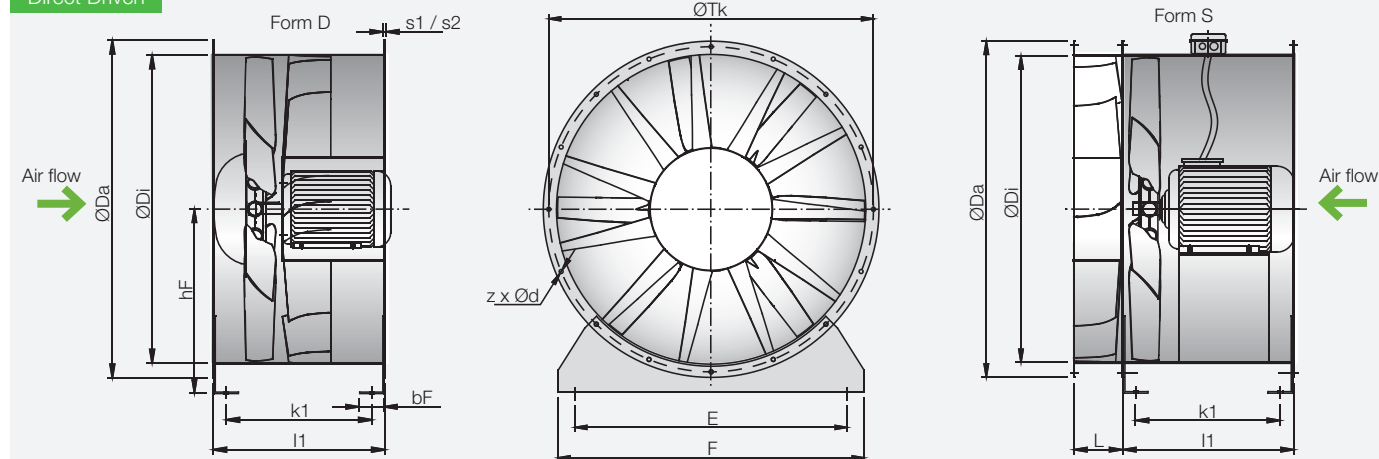
Performance of size 500 to 1250 certified is for installation type D - Ducted inlet, Ducted outlet, Performance of size 1400 to 2800 certified is for installation type A - Free inlet, Free outlet with partition. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). FEI<sub>r</sub> / FEI<sub>s</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Belt Driven type). FEI<sub>r</sub> / FEI<sub>s</sub> values for fans with specific motors will vary slightly from those shown.

# Vane Axial Flow Fans

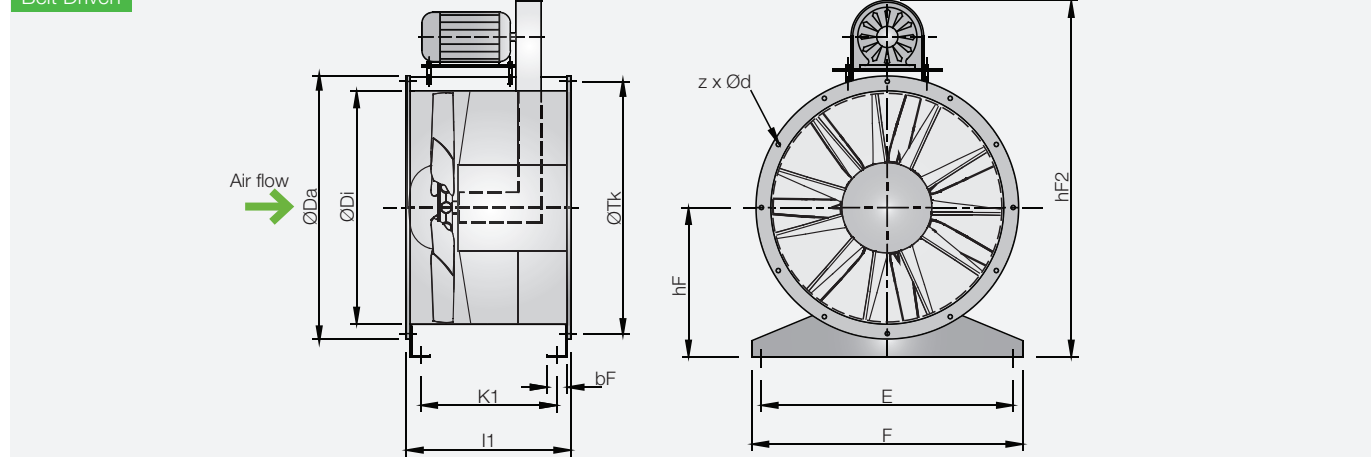
## Dimensions



### Direct Driven



### Belt Driven



| Model size | Da [mm] | Di [mm] | hF [mm] | hF2 [mm] | z x d [mm] | Tk [mm] | E [mm] | F [mm] | L [mm] | bF [mm] |
|------------|---------|---------|---------|----------|------------|---------|--------|--------|--------|---------|
| 500        | 584     | 504     | 315     | 910      | 12 x 12    | 551     | 440    | 500    | 140    | 70      |
| 560        | 664     | 565     | 345     | 998      | 16 x 14    | 629     | 500    | 560    | 150    | 70      |
| 630        | 734     | 634     | 400     | 1156     | 16 x 14    | 698     | 570    | 630    | 160    | 70      |
| 710        | 814     | 711     | 450     | 1300     | 16 x 14    | 775     | 650    | 710    | 180    | 70      |
| 800        | 904     | 797     | 500     | 1445     | 12* x 14   | 861     | 730    | 800    | 200    | 80      |
| 900        | 1004    | 894     | 580     | 1676     | 12* x 14   | 958     | 830    | 900    | 210    | 80      |
| 1000       | 1105    | 1003    | 630     | 1821     | 12* x 14   | 1067    | 930    | 990    | 280    | 80      |
| 1120       | 1245    | 1125    | 690     | 1990     | 16* x 18   | 1200    | 1050   | 1110   | 300    | 100     |
| 1250       | 1370    | 1250    | 750     | 2175     | 16* x 18   | 1337    | 1180   | 1240   | 330    | 100     |
| 1400       | 1525    | 1405    | 830     | 2362     | 16* x 18   | 1475    | 1330   | 1390   | 370    | 100     |
| 1600       | 1725    | 1605    | 930     | 2550     | 20* x 18   | 1675    | 1530   | 1590   | 420    | 100     |

| LH/1 size | k1 [mm] | l1 [mm] | s1 [mm] | motor max. | s2 [mm] | motor max. | LH/2 size | k1 [mm] | l1 [mm] | s1 [mm] | motor max. | s2 [mm] | motor max. |
|-----------|---------|---------|---------|------------|---------|------------|-----------|---------|---------|---------|------------|---------|------------|
| 500       | 326     | 400     | 2       | 132        | 2       | 112        | 560       | 624     | 700     | 3       | 160        | -       | -          |
| 560       | 326     | 400     | 2       | 132        | 2       | 112        | 630       | 624     | 700     | 3       | 160        | -       | -          |
| 630       | 326     | 400     | 2       | 160        | 2       | 132        | 710       | 490     | 565     | 2,5     | 180        | -       | -          |
| 710       | 326     | 400     | 2,5     | 160        | 2       | 132        | 800       | 614     | 700     | 3       | 180        | -       | -          |
| 800       | 326     | 400     | 2,5     | 160        | 2       | 132        | 900       | 612     | 700     | 4       | 180        | 3       | 160        |
| 900       | 444     | 530     | 3       | 225        | 2       | 200        | 1000      | 692     | 780     | 4       | 250        | 3       | 225        |
| 1000      | 444     | 530     | 3       | 225        | 2       | 200        | 1120      | 892     | 1000    | 4       | 250        | 3       | 225        |
| 1120      | 522     | 630     | 4       | 225        | 3       | 200        | 1250      | 892     | 1000    | 4       | 280        | 3       | 250        |
| 1250      | 522     | 630     | 4       | 250        | 3       | 225        | 1400      | 892     | 1000    | 4       | 315        | 3       | 280        |
|           |         |         |         |            |         |            | 1600      | 892     | 1000    | 4       | 315        | 3       | 280        |

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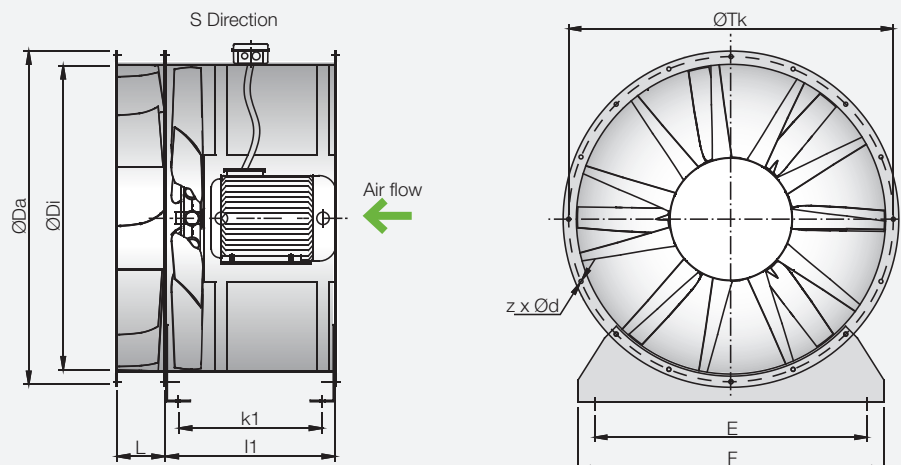
We reserve the right to alter measurements without notice in case of technical improvements.

# Vane Axial Flow Fans

## Dimensions



### Bifurcated



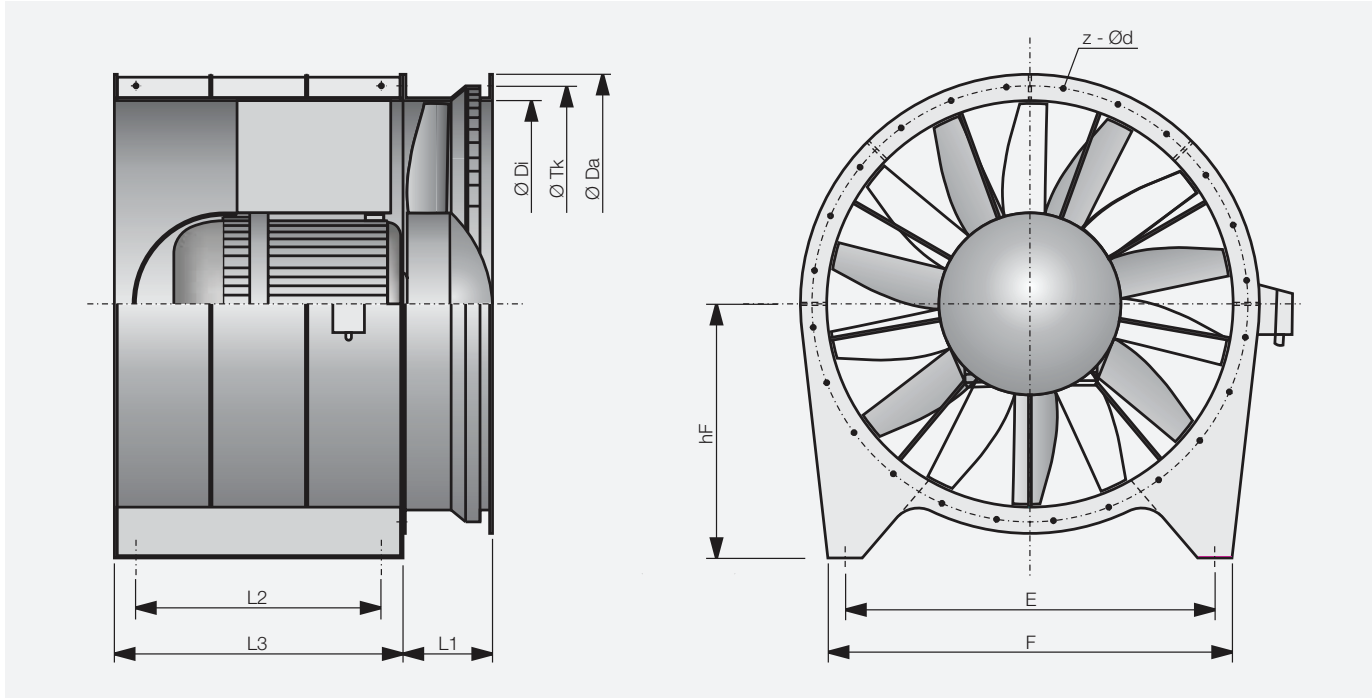
| Model size | Da [mm] | Di [mm] | z x d [mm] | Tk [mm] | E [mm] | F [mm] | L [mm] |
|------------|---------|---------|------------|---------|--------|--------|--------|
| 500        | 584     | 504     | 12 x 12    | 551     | 440    | 500    | 140    |
| 560        | 664     | 565     | 16 x 14    | 629     | 500    | 560    | 150    |
| 630        | 734     | 634     | 16 x 14    | 698     | 570    | 630    | 160    |
| 710        | 814     | 711     | 16 x 14    | 775     | 650    | 710    | 180    |
| 800        | 904     | 797     | 12* x 14   | 861     | 730    | 800    | 200    |
| 900        | 1004    | 894     | 12* x 14   | 958     | 830    | 900    | 210    |
| 1000       | 1105    | 1003    | 12* x 14   | 1067    | 930    | 990    | 280    |
| 1120       | 1245    | 1125    | 16* x 18   | 1200    | 1050   | 1110   | 300    |
| 1250       | 1370    | 1250    | 16* x 18   | 1337    | 1180   | 1240   | 330    |
| 1400       | 1525    | 1405    | 16* x 18   | 1475    | 1330   | 1390   | 370    |
| 1600       | 1725    | 1605    | 20* x 18   | 1675    | 1530   | 1590   | 420    |

| LH/1 size | k1 [mm] | l1 [mm] | s1 [mm] | motor max. | s2 [mm] | motor max. |
|-----------|---------|---------|---------|------------|---------|------------|
| 500       | 326     | 400     | 2       | 132        | 2       | 112        |
| 560       | 326     | 400     | 2       | 132        | 2       | 112        |
| 630       | 326     | 400     | 2       | 160        | 2       | 132        |
| 710       | 326     | 400     | 2,5     | 160        | 2       | 132        |
| 800       | 326     | 400     | 2,5     | 160        | 2       | 132        |
| 900       | 444     | 530     | 3       | 225        | 2       | 200        |
| 1000      | 444     | 530     | 3       | 225        | 2       | 200        |
| 1120      | 522     | 630     | 4       | 225        | 3       | 200        |
| 1250      | 522     | 630     | 4       | 250        | 3       | 225        |

| LH/2 size | k1 [mm] | l1 [mm] | s1 [mm] | motor max. | s2 [mm] | motor max. |
|-----------|---------|---------|---------|------------|---------|------------|
| 560       | 624     | 700     | 3       | 160        | -       | -          |
| 630       | 624     | 700     | 3       | 160        | -       | -          |
| 710       | 490     | 565     | 2,5     | 180        | -       | -          |
| 800       | 614     | 700     | 3       | 180        | -       | -          |
| 900       | 612     | 700     | 4       | 180        | 3       | 160        |
| 1000      | 692     | 780     | 4       | 250        | 3       | 225        |
| 1120      | 892     | 1000    | 4       | 250        | 3       | 225        |
| 1250      | 892     | 1000    | 4       | 280        | 3       | 250        |
| 1400      | 892     | 1000    | 4       | 315        | 3       | 280        |
| 1600      | 892     | 1000    | 4       | 315        | 3       | 280        |

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We reserve the right to alter measurements without notice in case of technical improvements.



| Model size | Da [mm] | Di [mm] | hF [mm] | z x d [mm] | Tk [mm] | E [mm] | F [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|------------|---------|---------|---------|------------|---------|--------|--------|---------|---------|---------|
| 1800       | 2010    | 1805    | 1120    | 24x18      | 1920    | 1660   | 1800   | 400     | 1200    | 1400    |
| 2000       | 2210    | 2005    | 1165    | 32x18      | 2120    | 1820   | 2000   | 445     | 1300    | 1500    |
| 2200       | 2440    | 2205    | 1265    | 32x18      | 2340    | 2020   | 2200   | 490     | 1400    | 1650    |
| 2400       | 2630    | 2405    | 1370    | 32x18      | 2530    | 2220   | 2400   | 550     | 1500    | 1800    |
| 2500       | 2740    | 2505    | 1420    | 36x24      | 2640    | 2320   | 2500   | 555     | 1530    | 1820    |
| 2600       | 2840    | 2605    | 1470    | 36x24      | 2740    | 2380   | 2600   | 590     | 1580    | 1850    |
| 2800       | 3150    | 2805    | 1570    | 36x24      | 3000    | 2500   | 2800   | 1300    | 1680    | 1900    |

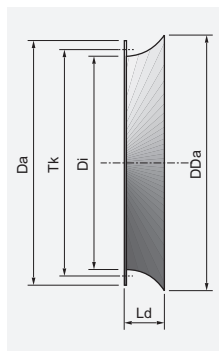
# Vane Axial Flow Fans

## Accessories



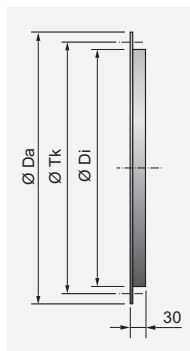
### ED

Bellmouth inlet



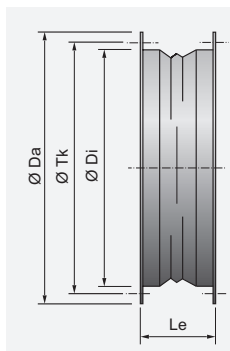
### GL-AXV

Matching flange



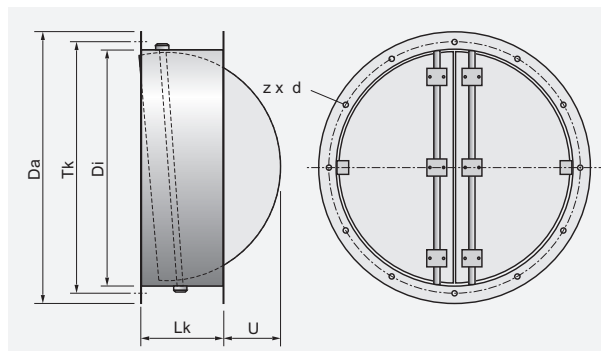
### EV-AXV

Flexible connector



### LRK

Air-operated damper



| Model size | Da [mm] | Di [mm] | Tk [mm] | z x d [mm] | DDa [mm] | Ld [mm] | Lk [mm] | Le [mm] | U [mm] |
|------------|---------|---------|---------|------------|----------|---------|---------|---------|--------|
| 500        | 584     | 504     | 551     | 12 x 12    | 617      | 165     | 250     | 130     | 45     |
| 560        | 664     | 565     | 629     | 16 x 14    | 667      | 165     | 250     | 130     | 80     |
| 630        | 734     | 634     | 698     | 16 x 14    | 757      | 165     | 250     | 130     | 120    |
| 710        | 814     | 711     | 775     | 16 x 14    | 816      | 170     | 350     | 130     | 60     |
| 800        | 904     | 797     | 861     | 12* x 14   | 915      | 250     | 350     | 130     | 110    |
| 900        | 1004    | 894     | 958     | 12* x 14   | 1015     | 250     | 350     | 130     | 170    |
| 1000       | 1105    | 1003    | 1067    | 12* x 14   | 1115     | 250     | 350     | 130     | 225    |
| 1120       | 1245    | 1125    | 1200    | 16* x 18   | 1243     | 250     | 350     | 130     | 255    |
| 1250       | 1370    | 1250    | 1337    | 16* x 18   | 1364     | 250     | 400     | 170     | 375    |
| 1400       | 1525    | 1405    | 1475    | 16* x 18   | 1523     | 250     | 400     | 170     | 450    |
| 1600       | 1725    | 1605    | 1675    | 20* x 18   | 1723     | 250     | 400     | 170     | 550    |

We reserve the right to alter measurements without notice in case of technical improvements.

### Sound power levels

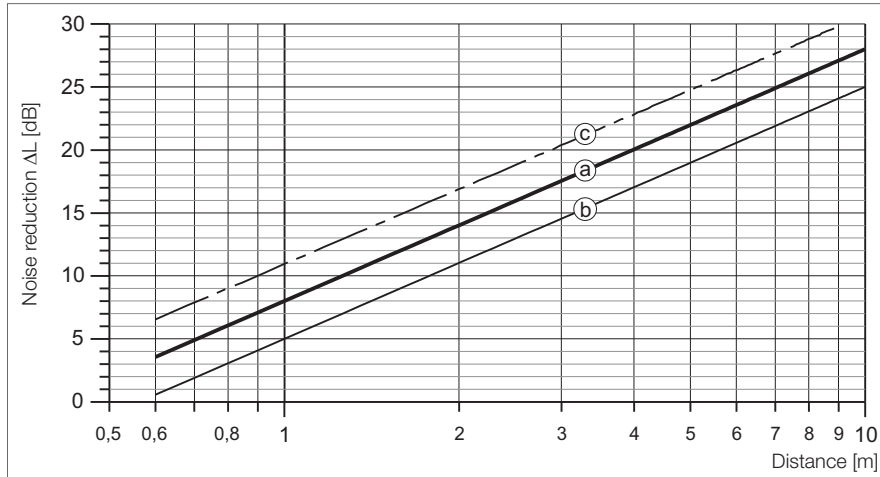
This term refers to the power which a source radiates as sound. Sound power levels are expressed in decibels with a reference level of 1 picoWatt. The sound power level of a source remains the same regardless of its environment and the distance to the listener.

If the sound power frequency spectrum is needed, for as follows: example, the design of sound attenuators, the A-weighted rated sound power levels at particular octave band frequency  $L_{WA}$  can be calculated by subtracting the relative sound  $L_{wrel}$ .

$$L_{WA} = L_{wi} + L_{wrel}$$

### Sound pressure level

These are pressure fluctuations generated by a source expressed in decibels with a reference level of 20 µPa. The sound pressure level varies with the distance of a sound source to the listener and its environment.



Sound level reduction half sphere

- a: without reflexion
- b: with reflexion
- c: full sphere without reflexion

### Frequencies

Sound is split into different frequencies. Frequencies of human hearing range from about 20 cycles per second (Hz) to 20.000 cycles per second (Hz). For practical purposes, Wolter publishes noise data in eight octave bands with the centre frequencies of (63,) 125, 250, 500, 1000, 2000, 4000 and 8000 Hz.

Each fan has its own specific correction factor which is to be deducted from sound power according to the octave band.

### A-weighted sound pressure level in dB (A)

The human ear is more sensitive to sound in some frequencies than in others. The A-weighting is an attempt to reflect this natural perception of sound. The A-weighting is a set of figures which are applied to the sound pressure levels. The levels in each of the octave bands are added logarithmically to give a single figure. The A-weighting over the octave band is as follows:

Table 1)

| Frequency [Hz]   | 63    | 125   | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
|------------------|-------|-------|------|------|------|------|------|------|
| A-weighting [dB] | -26,2 | -16,1 | -8,6 | -3,2 | 0    | +1,2 | +1,0 | -1,1 |

Table 2)

Addition of sound levels

| Difference between two sound levels<br>[dB] | Add to the higher level<br>[dB] |
|---------------------------------------------|---------------------------------|
| 0 - 1                                       | 3                               |
| 2 - 3                                       | 2                               |
| 4 - 9                                       | 1                               |
| ≥10                                         | 0                               |

$$L_{\Sigma} = 10 \cdot \lg(10^{0,1 \cdot L_1} + 10^{0,1 \cdot L_2} + \dots + 10^{0,1 \cdot L_n})$$

where:

$L_1$  = sound level of a source 1  
 $L_{\Sigma}$  = resulting summation sound level

### Summation of several congeneric sound levels

$$L_{\Sigma} = L_1 + 10 \cdot \lg(z)$$

where:

$z$  = number of sources  
 $L_1$  = sound level of a single source  
 $L_{\Sigma}$  = resulting summation sound level

Relative Sound Power Frequency Spectrum ( $L_{wrel}$ ) [ΔdB]

| Fan Model | Poles | 63   | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
|-----------|-------|------|------|------|------|------|------|------|------|
| Size      | [-]   | [Hz] | [Hz] | [Hz] | [Hz] | [Hz] | [Hz] | [Hz] | [Hz] |
| 500       | 2     | -11  | -8   | -10  | -7   | -8   | -12  | -16  | -21  |
|           | 4     | -8   | -10  | -6   | -8   | -11  | -16  | -21  | -26  |
|           | 6     | -8   | -8   | -5   | -10  | -13  | -18  | -23  | -28  |
| 560       | 2     | -11  | -8   | -10  | -7   | -8   | -12  | -16  | -21  |
|           | 4     | -8   | -10  | -6   | -8   | -11  | -16  | -21  | -26  |
|           | 6     | -8   | -8   | -5   | -10  | -13  | -18  | -23  | -28  |
| 630       | 2     | -11  | -8   | -10  | -7   | -8   | -12  | -16  | -21  |
|           | 4     | -8   | -10  | -6   | -8   | -11  | -16  | -21  | -26  |
|           | 6     | -8   | -8   | -5   | -10  | -13  | -18  | -23  | -28  |
| 710       | 2     | -11  | -8   | -10  | -7   | -8   | -12  | -16  | -21  |
|           | 4     | -8   | -10  | -6   | -8   | -11  | -16  | -21  | -26  |
|           | 6     | -8   | -8   | -5   | -10  | -13  | -18  | -23  | -28  |
| 800       | 4     | -8   | -10  | -6   | -8   | -11  | -16  | -21  | -26  |
|           | 6     | -8   | -8   | -5   | -10  | -13  | -18  | -23  | -28  |
|           | 8     | -9   | -5   | -6   | -10  | -15  | -19  | -24  | -30  |
| 900       | 4     | -7   | -10  | -6   | -8   | -11  | -16  | -21  | -26  |
|           | 6     | -8   | -8   | -5   | -10  | -13  | -18  | -23  | -28  |
|           | 8     | -9   | -5   | -6   | -10  | -15  | -19  | -24  | -30  |
| 1000      | 4     | -10  | -5   | -6   | -8   | -14  | -18  | -24  | -29  |
|           | 6     | -7   | -6   | -5   | -10  | -15  | -20  | -26  | -31  |
|           | 8     | -7   | -5   | -6   | -11  | -15  | -21  | -27  | -32  |
| 1120      | 4     | -10  | -5   | -6   | -8   | -14  | -18  | -24  | -29  |
|           | 6     | -7   | -6   | -5   | -11  | -15  | -20  | -26  | -31  |
|           | 8     | -6   | -5   | -6   | -11  | -16  | -22  | -27  | -32  |
| 1250      | 4     | -9   | -5   | -6   | -8   | -14  | -18  | -24  | -30  |
|           | 6     | -6   | -6   | -6   | -11  | -15  | -21  | -26  | -31  |
|           | 8     | -6   | -5   | -6   | -12  | -16  | -22  | -27  | -32  |
| 1400      | 4     | -9   | -5   | -4   | -5   | -7   | -9   | -12  | -15  |
|           | 6     | -11  | -6   | -5   | -6   | -9   | -13  | -16  | -20  |
|           | 8     | -11  | -6   | -6   | -9   | -13  | -18  | -22  | -26  |
| 1600      | 4     | -9   | -5   | -4   | -5   | -7   | -9   | -12  | -15  |
|           | 6     | -11  | -6   | -6   | -6   | -9   | -13  | -16  | -20  |
|           | 8     | -10  | -6   | -7   | -9   | -13  | -18  | -22  | -26  |

• Sound power frequency spectrum calculated with this  $L_{wrel}$  are not licensed by AMCA International.

**Relative Sound Power Frequency Spectrum ( $L_{wrel}$ ) [ $\Delta$ dB]**

| Fan Model | Poles | 63   | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
|-----------|-------|------|------|------|------|------|------|------|------|
| Size      | [-]   | [Hz] | [Hz] | [Hz] | [Hz] | [Hz] | [Hz] | [Hz] | [Hz] |
| 1800      | 6     | -7   | -4   | -4   | -6   | -8   | -11  | -13  | -17  |
|           | 8     | -9   | -5   | -5   | -7   | -10  | -14  | -18  | -22  |
|           | 10    | -8   | -6   | -7   | -10  | -15  | -19  | -23  | -27  |
| 2000      | 6     | -7   | -4   | -4   | -6   | -8   | -11  | -13  | -17  |
|           | 8     | -8   | -5   | -5   | -7   | -10  | -14  | -18  | -22  |
|           | 10    | -8   | -6   | -7   | -10  | -15  | -19  | -23  | -27  |
| 2200      | 8     | -6   | -3   | -4   | -6   | -9   | -11  | -14  | -18  |
|           | 10    | -7   | -5   | -5   | -8   | -12  | -15  | -19  | -23  |
|           | 12    | -7   | -6   | -7   | -11  | -16  | -20  | -24  | -28  |
| 2400      | 8     | -5   | -3   | -4   | -6   | -9   | -12  | -15  | -18  |
|           | 10    | -7   | -5   | -5   | -8   | -12  | -15  | -19  | -23  |
|           | 12    | -6   | -6   | -8   | -11  | -16  | -20  | -24  | -28  |
| 2500      | 8     | -5   | -3   | -4   | -6   | -9   | -12  | -15  | -18  |
|           | 10    | -7   | -5   | -5   | -8   | -12  | -15  | -19  | -23  |
|           | 12    | -6   | -6   | -8   | -11  | -16  | -20  | -24  | -28  |
| 2600      | 8     | -5   | -3   | -4   | -7   | -9   | -12  | -15  | -18  |
|           | 10    | -7   | -5   | -5   | -8   | -12  | -15  | -19  | -23  |
|           | 12    | -6   | -6   | -8   | -11  | -16  | -20  | -24  | -28  |
| 2800      | 8     | -5   | -3   | -4   | -7   | -9   | -12  | -15  | -18  |
|           | 10    | -7   | -5   | -6   | -8   | -12  | -15  | -19  | -23  |
|           | 12    | -6   | -6   | -8   | -11  | -16  | -20  | -24  | -28  |

• Sound power frequency spectrum calculated with this  $L_{wrel}$  are not licensed by AMCA International.

# Tubular Sound Attenuator

## SA, SPA



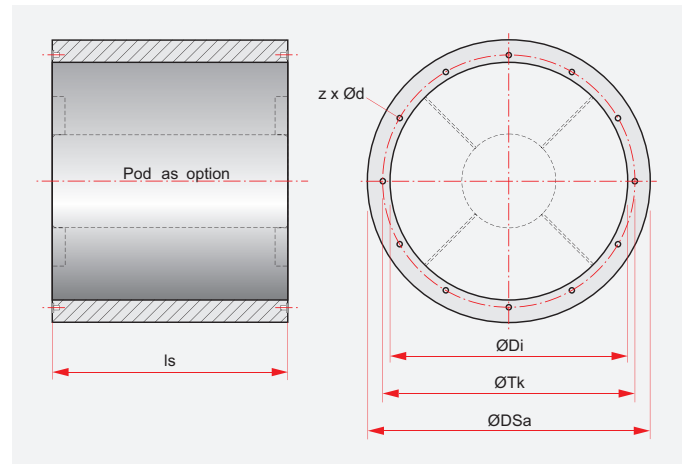
### SPA 1000 -1D

Length \_\_\_\_\_

Size  
355...1600

Sound attenuator  
SA - without pod  
SPA - with pod

Attenuators made of galvanised sheet steel. Connecting flanges correspond to those of the axial fan series.



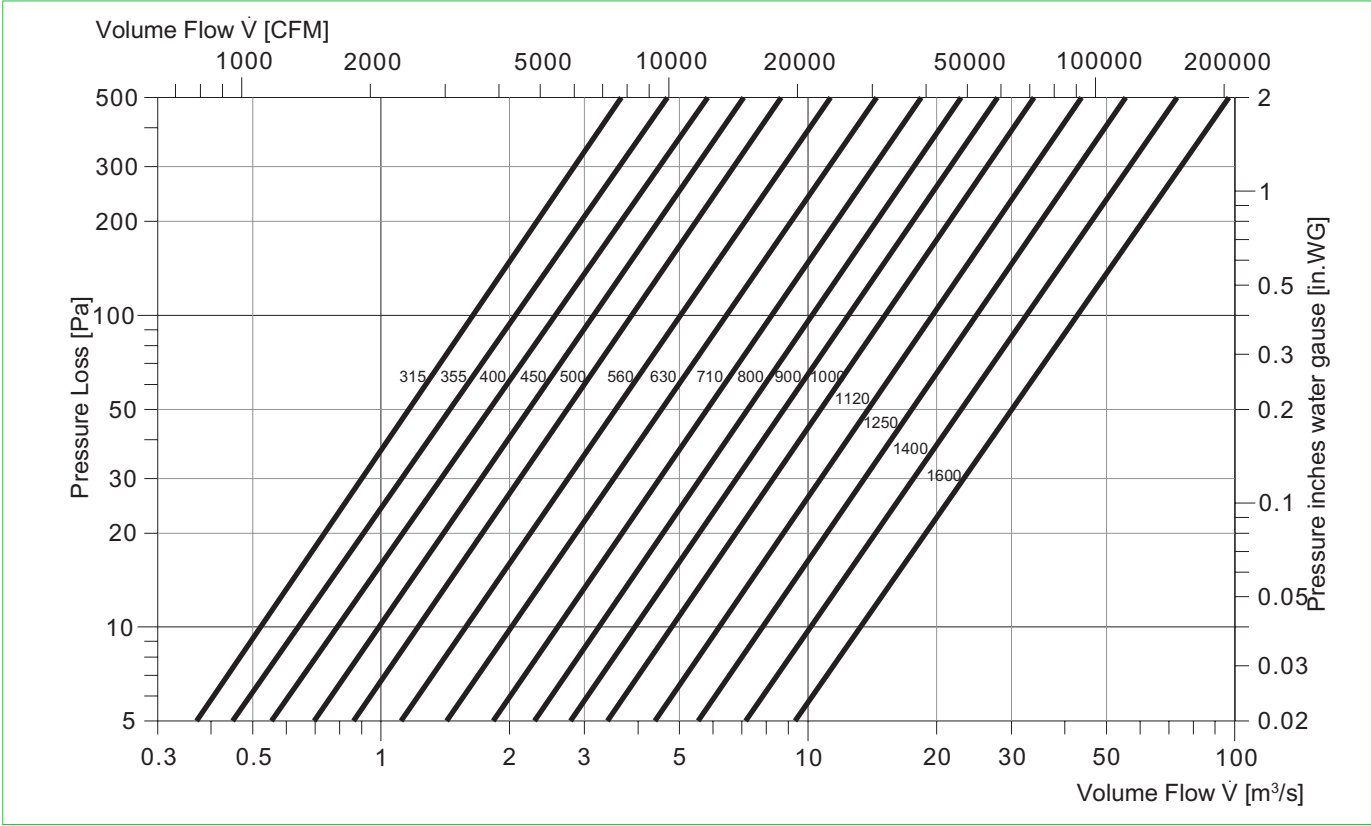
| Size | DSa  | Tk   | Di   | Is   |      | SA-1D | SPA-1D | SA-2D | SPA-2D | Length | Type   | Pitch angle | Octave band mid-frequency [Hz] |     |     |     |    |    |    |    |
|------|------|------|------|------|------|-------|--------|-------|--------|--------|--------|-------------|--------------------------------|-----|-----|-----|----|----|----|----|
|      |      |      |      | x 1D | x 2D |       |        |       |        |        |        |             | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|      | [mm] | [mm] | [mm] | [mm] | [mm] | [kg]  | [kg]   | [kg]  | [kg]   |        |        | setting     |                                |     |     |     |    |    |    |    |
| 355  | 459  | 405  | 359  | 355  | 710  | 12    | 18     | 16    | 23     | 1D     | SA-1D  | all         | 2                              | 4   | 6   | 10  | 14 | 10 | 7  | 8  |
| 400  | 601  | 448  | 401  | 400  | 800  | 14    | 23     | 19    | 29     |        | SPA-1D | low         | 4                              | 6   | 8   | 13  | 20 | 21 | 18 | 16 |
| 450  | 650  | 497  | 450  | 450  | 900  | 18    | 29     | 23    | 36     |        |        | med         | 4                              | 6   | 8   | 12  | 18 | 19 | 18 | 14 |
|      |      |      |      |      |      |       |        |       |        |        |        | high        | 4                              | 6   | 8   | 11  | 13 | 16 | 16 | 11 |
|      |      |      |      |      |      |       |        |       |        | 2D     | SA-2D  | low         | 4                              | 7   | 12  | 18  | 22 | 17 | 12 | 13 |
|      |      |      |      |      |      |       |        |       |        |        |        | med         | 4                              | 7   | 11  | 17  | 21 | 17 | 13 | 12 |
|      |      |      |      |      |      |       |        |       |        |        |        | high        | 4                              | 7   | 10  | 15  | 19 | 16 | 13 | 10 |
|      |      |      |      |      |      |       |        |       |        |        | SPA-2D | low         | 7                              | 10  | 15  | 24  | 32 | 35 | 30 | 28 |
|      |      |      |      |      |      |       |        |       |        |        |        | med         | 7                              | 10  | 15  | 21  | 26 | 26 | 24 | 22 |
|      |      |      |      |      |      |       |        |       |        |        |        | high        | 7                              | 10  | 15  | 16  | 15 | 17 | 13 | 13 |
| 500  | 704  | 551  | 504  | 500  | 1000 | 22    | 36     | 28    | 43     | 1D     | SA-1D  | all         | 3                              | 4   | 8   | 14  | 14 | 9  | 8  | 7  |
| 560  | 765  | 629  | 565  | 560  | 1120 | 25    | 41     | 31    | 50     |        | SPA-1D | low         | 4                              | 6   | 9   | 17  | 26 | 21 | 18 | 12 |
| 630  | 834  | 698  | 634  | 630  | 1260 | 29    | 47     | 37    | 59     |        |        | med         | 4                              | 6   | 9   | 17  | 23 | 20 | 18 | 11 |
| 710  | 911  | 775  | 711  | 710  | 1420 | 37    | 60     | 47    | 75     |        |        | high        | 4                              | 6   | 9   | 16  | 17 | 16 | 14 | 11 |
| 800  | 997  | 861  | 797  | 800  | 1600 | 69    | 108    | 90    | 141    | 2D     | SA-2D  | low         | 6                              | 8   | 14  | 23  | 24 | 15 | 13 | 10 |
|      |      |      |      |      |      |       |        |       |        |        |        | med         | 6                              | 8   | 13  | 22  | 22 | 14 | 13 | 9  |
|      |      |      |      |      |      |       |        |       |        |        |        | high        | 6                              | 8   | 12  | 20  | 18 | 13 | 11 | 9  |
|      |      |      |      |      |      |       |        |       |        |        | SPA-2D | low         | 8                              | 11  | 16  | 30  | 39 | 35 | 32 | 22 |
|      |      |      |      |      |      |       |        |       |        |        |        | med         | 8                              | 11  | 16  | 27  | 32 | 32 | 29 | 19 |
|      |      |      |      |      |      |       |        |       |        |        |        | high        | 8                              | 11  | 16  | 24  | 23 | 23 | 24 | 17 |
| 900  | 1094 | 958  | 894  | 900  | 1800 | 86    | 135    | 112   | 176    | 1D     | SA-1D  | all         | 3                              | 4   | 9   | 14  | 12 | 8  | 7  | 7  |
| 1000 | 1203 | 1067 | 1003 | 1000 | 2000 | 125   | 190    | 156   | 234    |        | SPA-1D | low         | 4                              | 6   | 11  | 22  | 21 | 16 | 14 | 11 |
| 1120 | 1325 | 1200 | 1125 | 1120 | 2240 | 132   | 210    | 169   | 260    |        |        | med.        | 4                              | 6   | 11  | 20  | 19 | 15 | 13 | 11 |
| 1250 | 1450 | 1337 | 1250 | 1250 | 2500 | 146   | 234    | 185   | 294    |        |        | high        | 4                              | 6   | 11  | 17  | 17 | 14 | 12 | 11 |
|      |      |      |      |      |      |       |        |       |        | 2D     | SA-2D  | low         | 6                              | 8   | 14  | 22  | 20 | 13 | 12 | 10 |
|      |      |      |      |      |      |       |        |       |        |        |        | med.        | 6                              | 8   | 13  | 21  | 18 | 12 | 11 | 10 |
|      |      |      |      |      |      |       |        |       |        |        |        | high        | 6                              | 8   | 12  | 19  | 15 | 11 | 10 | 9  |
|      |      |      |      |      |      |       |        |       |        |        | SPA-2D | low         | 8                              | 11  | 19  | 30  | 32 | 30 | 24 | 17 |
|      |      |      |      |      |      |       |        |       |        |        |        | med.        | 8                              | 11  | 19  | 26  | 27 | 26 | 22 | 17 |
|      |      |      |      |      |      |       |        |       |        |        |        | high        | 8                              | 11  | 19  | 21  | 20 | 22 | 20 | 16 |
| 1400 | 1605 | 1475 | 1405 | 1400 | 2800 | 197   | 316    | 250   | 397    | 1D     | SA-1D  | all         | 4                              | 5   | 10  | 14  | 11 | 7  | 6  | 6  |
| 1600 | 1805 | 1675 | 1605 | 1600 | 3200 | 275   | 540    | 348   | 682    |        | SPA-1D | low         | 5                              | 7   | 12  | 21  | 20 | 14 | 12 | 9  |
|      |      |      |      |      |      |       |        |       |        |        |        | med.        | 5                              | 7   | 12  | 19  | 18 | 13 | 11 | 9  |
|      |      |      |      |      |      |       |        |       |        |        |        | high        | 5                              | 7   | 12  | 15  | 16 | 12 | 10 | 8  |
|      |      |      |      |      |      |       |        |       |        | 2D     | SA-2D  | low         | 8                              | 9   | 15  | 20  | 19 | 12 | 11 | 9  |
|      |      |      |      |      |      |       |        |       |        |        |        | med.        | 8                              | 9   | 14  | 20  | 17 | 11 | 10 | 9  |
|      |      |      |      |      |      |       |        |       |        |        |        | high        | 8                              | 9   | 13  | 19  | 14 | 10 | 9  | 9  |
|      |      |      |      |      |      |       |        |       |        |        | SPA-2D | low         | 10                             | 14  | 22  | 28  | 31 | 29 | 18 | 15 |
|      |      |      |      |      |      |       |        |       |        |        |        | med.        | 10                             | 14  | 22  | 25  | 27 | 25 | 16 | 15 |
|      |      |      |      |      |      |       |        |       |        |        |        | high        | 10                             | 14  | 22  | 21  | 21 | 21 | 15 | 14 |

• Low, Medium and High Pitch Angle setting correspond to 10°, 22° and 35° pitch angle approximately: for other pitch angles use interpolation.

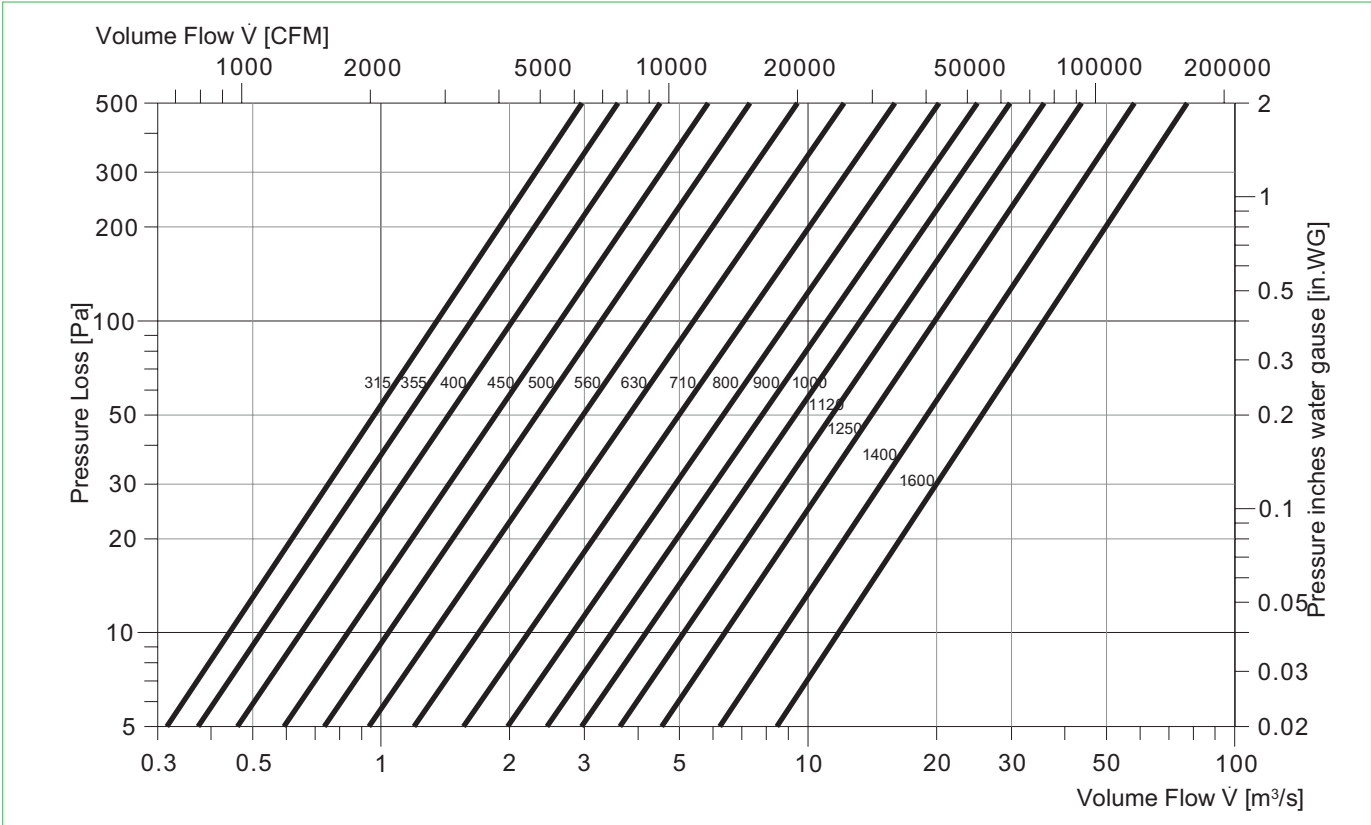
• Sizes 1800 - 2800 TBA.



Pressure Loss SPA - 1D



Pressure Loss SPA - 2D



• Performance of sound attenuator are not licensed by AMCA International.

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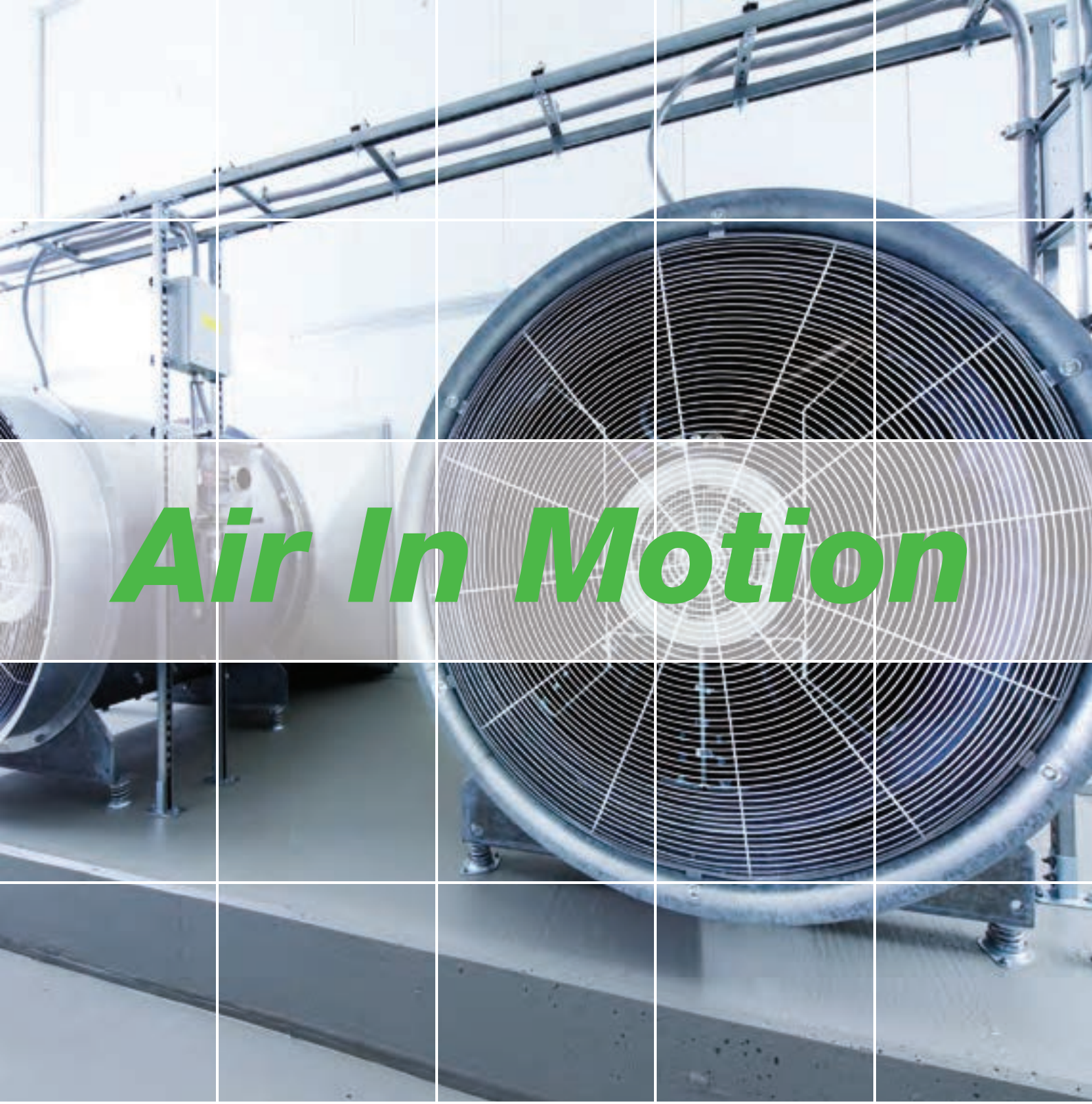
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# ***Air In Motion***

Reference: **A09-F-IN**, March 2025, Printed in March, 2025

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