VECTOR
THAI TECHNOLOGY

# HIGH PRESSURE TUNNEL FAN

Vector Thai Technology Co., Ltd certifies that the AXL R and AXL UBS 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.

# High Pressure Tunnel Fan

High Pressure Tunnel Fans, with impeller directly coupled to the electric motor, is built to withstand the operating and emergency conditions meet to NFPA 130 (according to the EN 12101–3 standard)

Fan is built with materials and assemblies suitable for the environment in which it will be installed and it has suitable characteristics to withstand mechanical, corrosive, thermal and humidity conditions to which it will be exposed during operating conditions.

Standard Product

## SPECIFICATION

### Impellers

Precision cast aluminium adjustable pitch aerofoil blades. The blades are of Silumin (AlSi10Mg) alumimium alloy, according to UNI 1706 ENAB 43100 standard. The hub made of alloyed steel.

Large hub to blade ratio prevents backflow of air and moves large volumes of air at high pressure.

### Housings

Heavy gauge cylindrical structure is steel (S355 J0WP) built apt for hard work conditions with drilled stiffening flanges both on the suction side and on the pushing side, built according to the ISO 6580 standard.

### Motors

Motors are 415V / 3 Phase / 50 HZ, (TEAO/TEFC) squir– rel cage induction type with class H / F insulation.

Options are available for a varying range of applications including:

- Single Phase
- Special Frequency
- Explosion proof
- Speed Control
- High Temperature(250°c/2hrs or 400°/1hr)
- 2 Speed
- Thermal Overload Protection
- Special Voltage
- Special Insulation
- PTC or PT100 thermistors
- Anti–condensation heater

### Options

- Bell mouth
- Protection grids
- Flexible coupling
- Matching flanges
- Base frame
- Vibration isolation mounts
- Sound attenuators
- Split housing
- Anti–Stall device
- Vibration detection system

### GUIDE VANE

Multi vane section designed to serve as static regain device to ensure maximum efficiency in converting the velocity pres– sure with minimal turbulance.

The function of the guide vanes is to improve the efficiency and the pressure characteristics by converting rotational energy at the propeller discharge into useful work.

For Model "AXL–UBS" Only

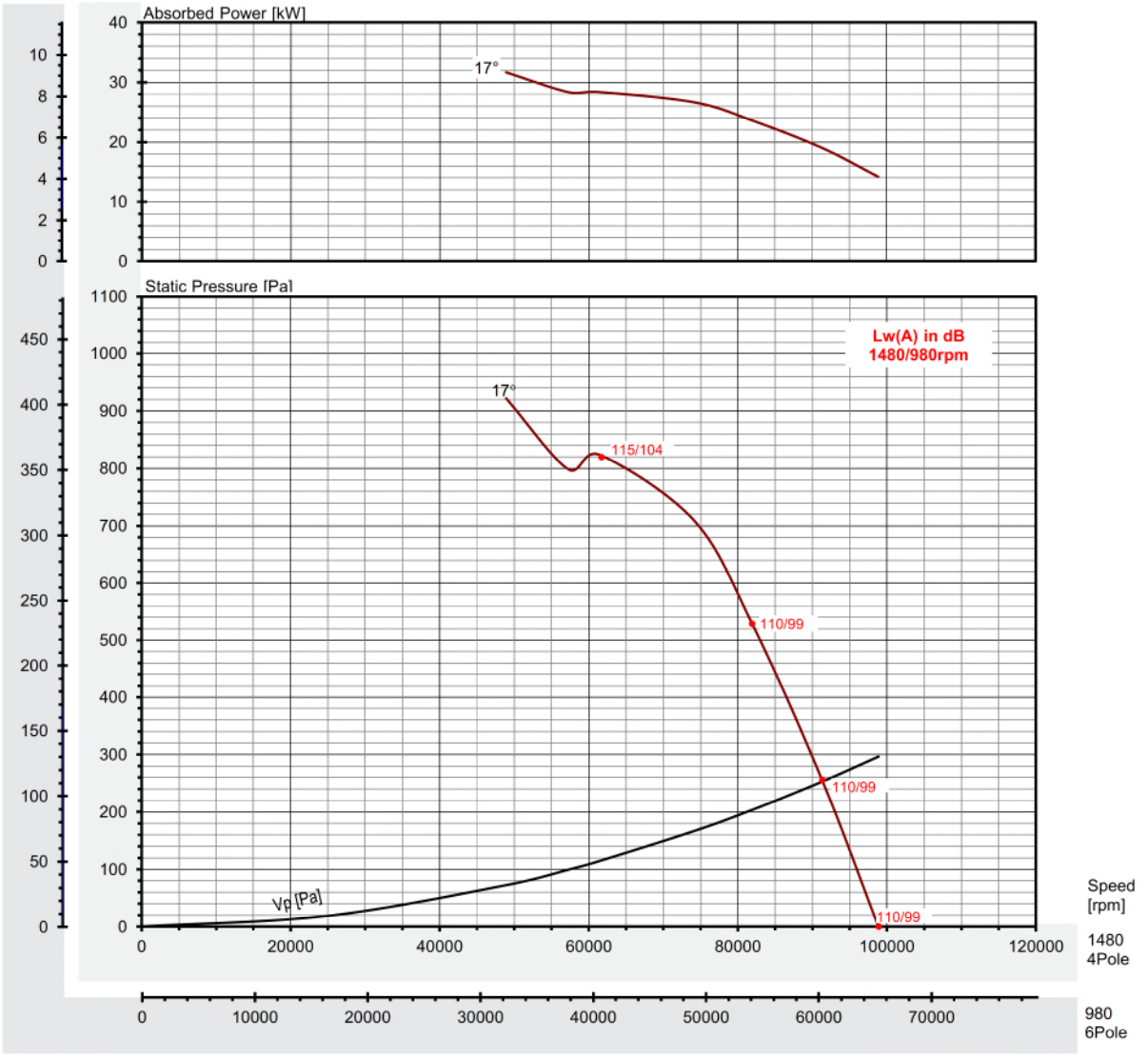
Reversible Pitch Angle Tunnel Axial Fan

## Model: AXL 125 R-625-10-17° (Forward)

ρ = 1.2kg/m³

### FEG 71

Outlet Area: 1.227m²




* Performance certified is for installation type D - Ducted inlet, Ducted outlet.
* Performance ratings do not include the effects of appurtenances (accessories).
* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
* Values shown are for inlet LwiA sound power levels for installation type D: ducted inlet, ducted outlet.
* Ratings include the effects of duct end correction.

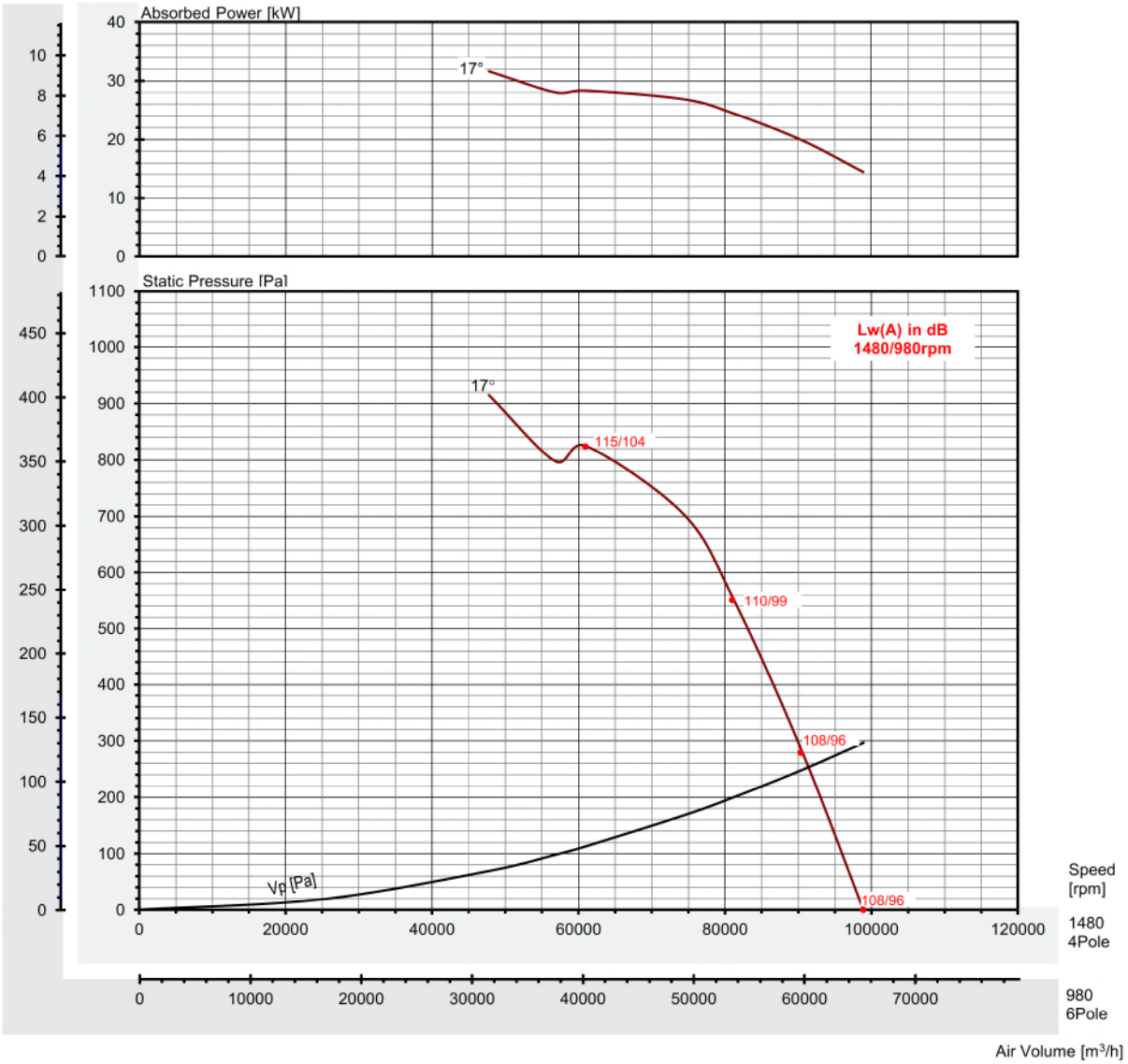
Reversible Pitch Angle Tunnel Axial Fan

## Model: AXL 125 R-625-10-17° (Reverse)

ρ = 1.2kg/m³

### FEG 71

Outlet Area: 1.227m²

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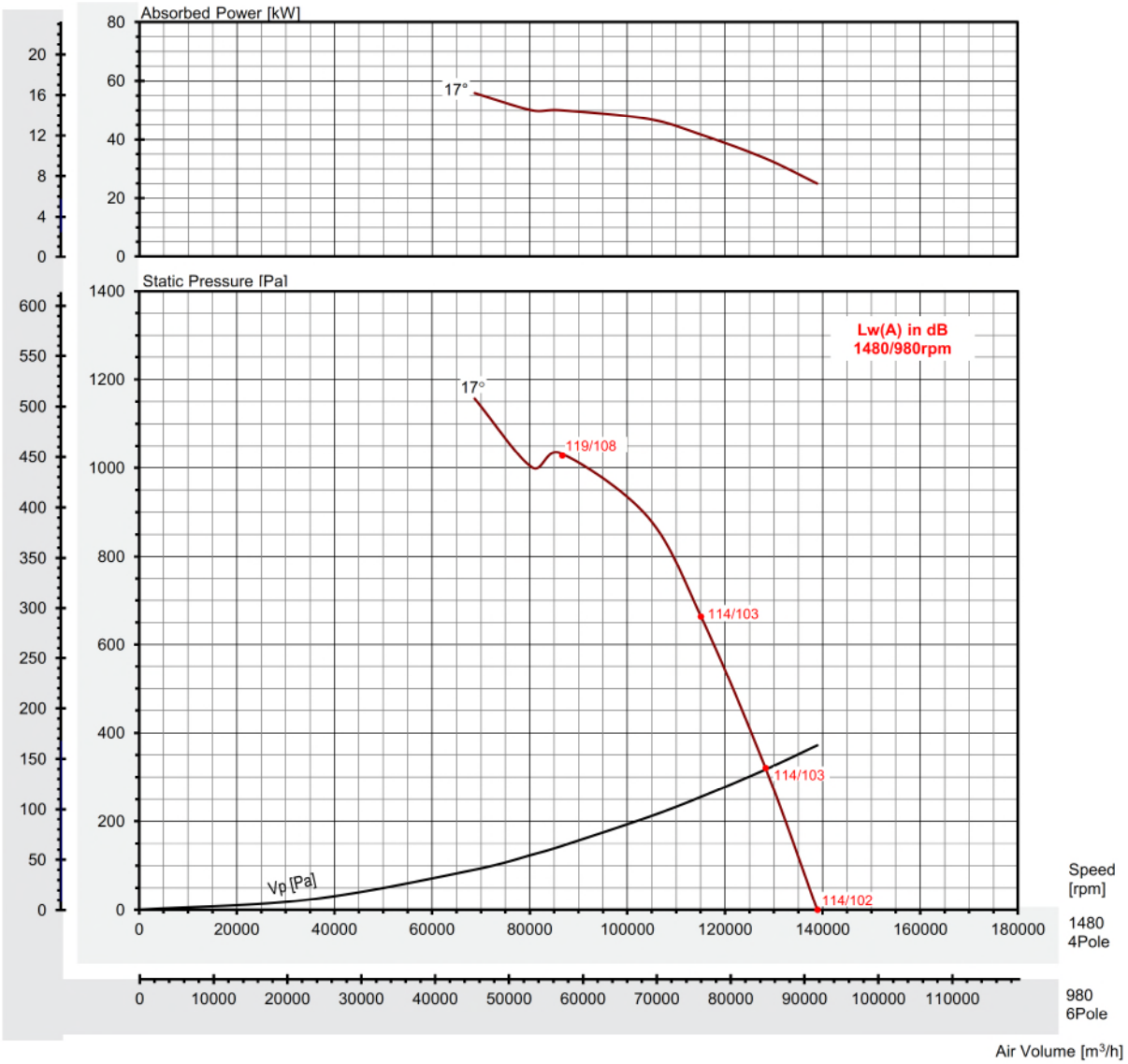
Reversible Pitch Angle Tunnel Axial Fan

## Model: AXL 140 R-700-10-17° (Forward)

$\rho = 1.2 kg/m^3$

### FEG 71

Outlet Area: $1.539 m^2$

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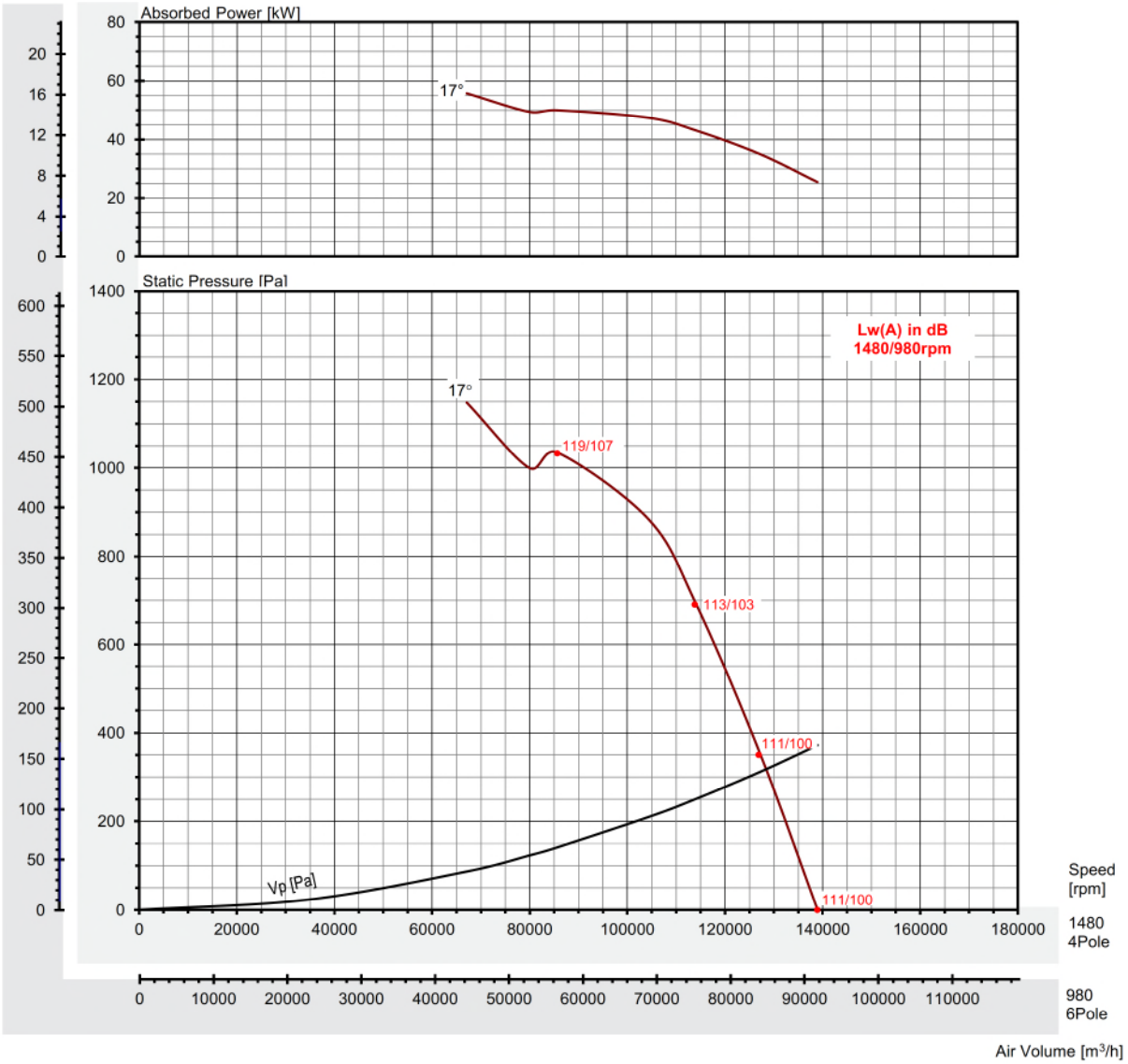


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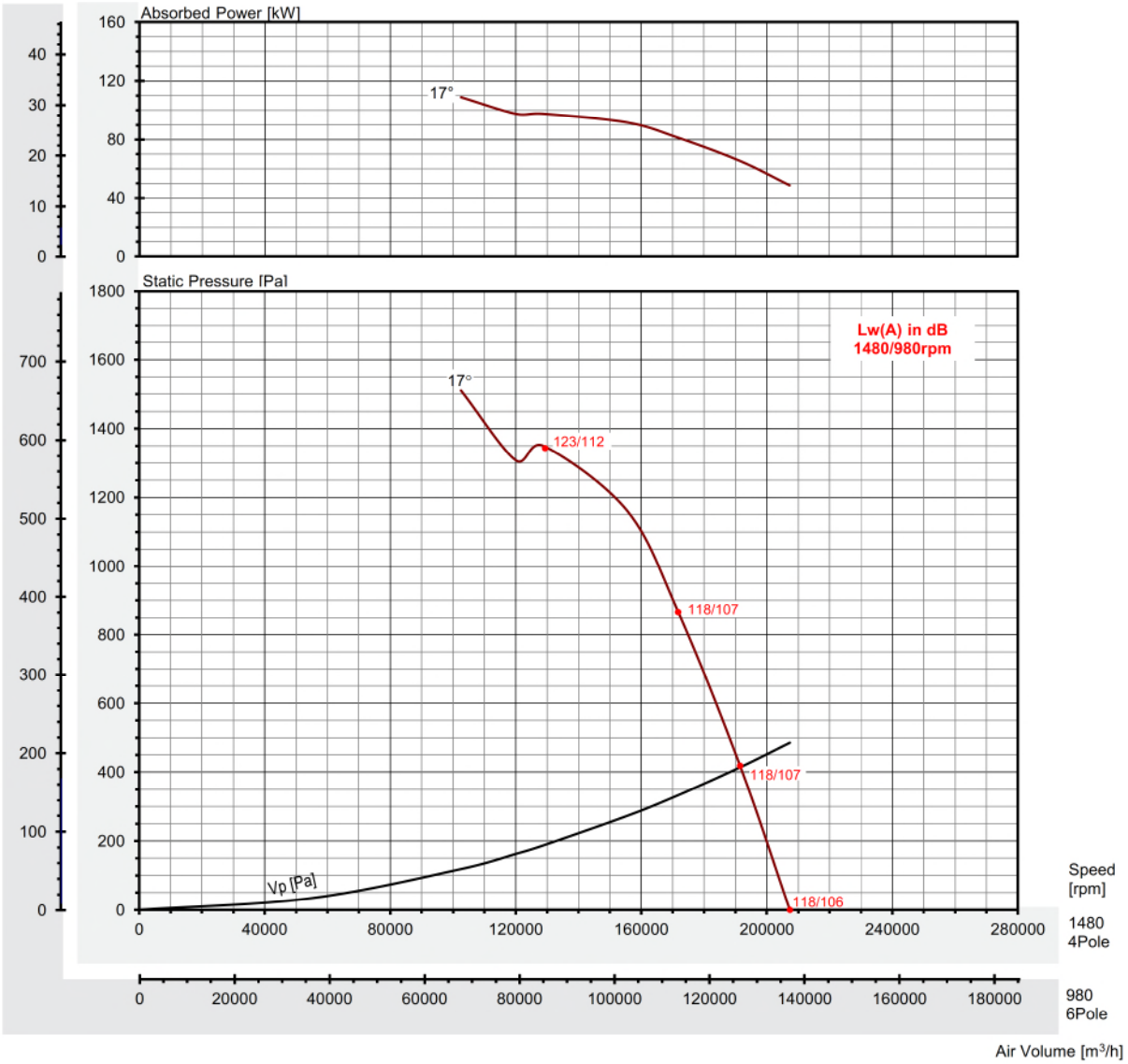
Reversible Pitch Angle Tunnel Axial Fan

## Model: AXL 160 R-800-10-17° (Forward)

$\rho$ = 1.2kg/m$^3$

### FEG 71

Outlet Area: 2.011m$^2$

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Reversible Pitch Angle Tunnel Axial Fan

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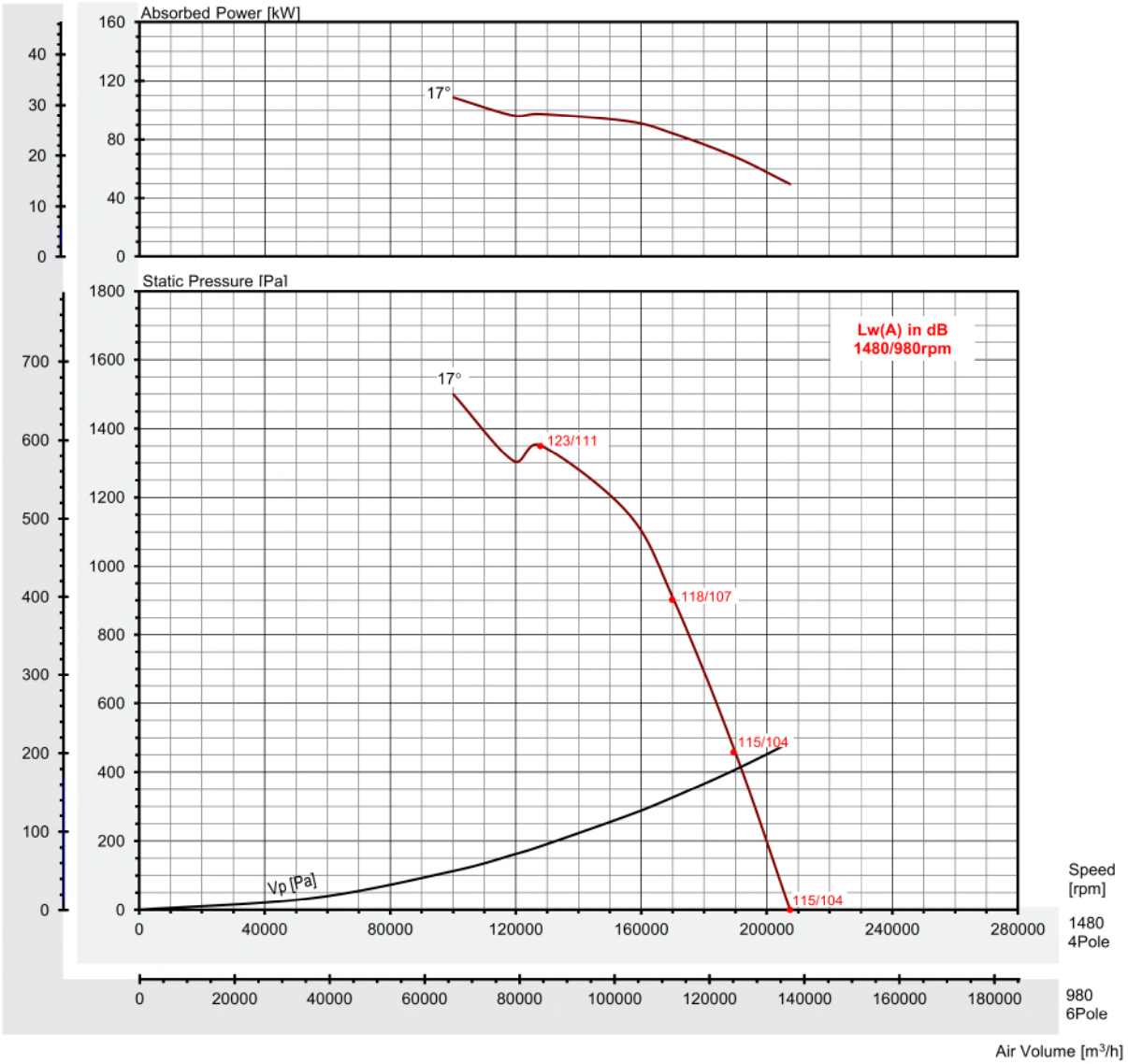


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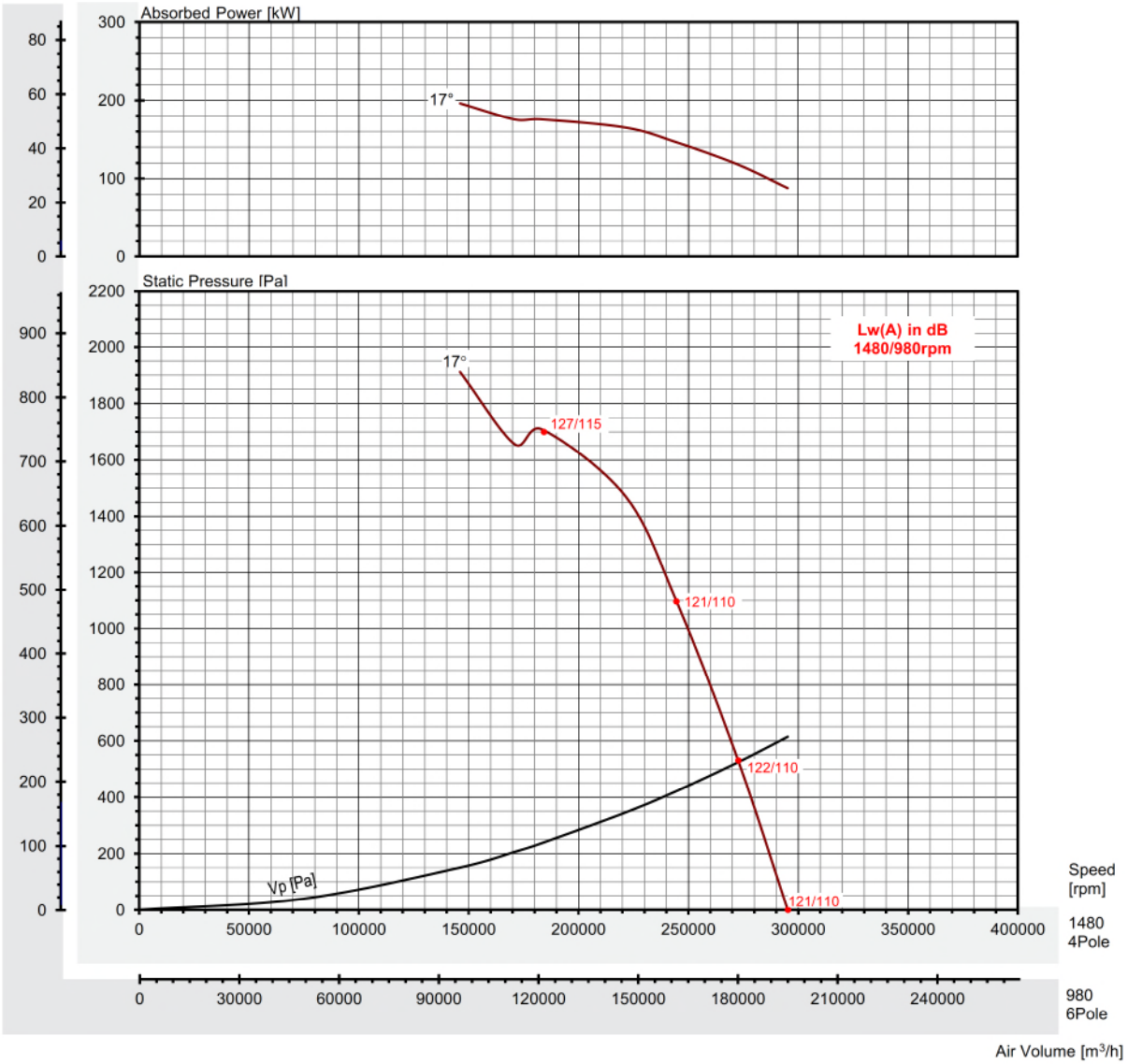
Reversible Pitch Angle Tunnel Axial Fan

## Model: AXL 180 R-900-10-17°(Forward)

$\rho = 1.2kg/m^3$

### FEG 71

Outlet Area: $2.545m^2$

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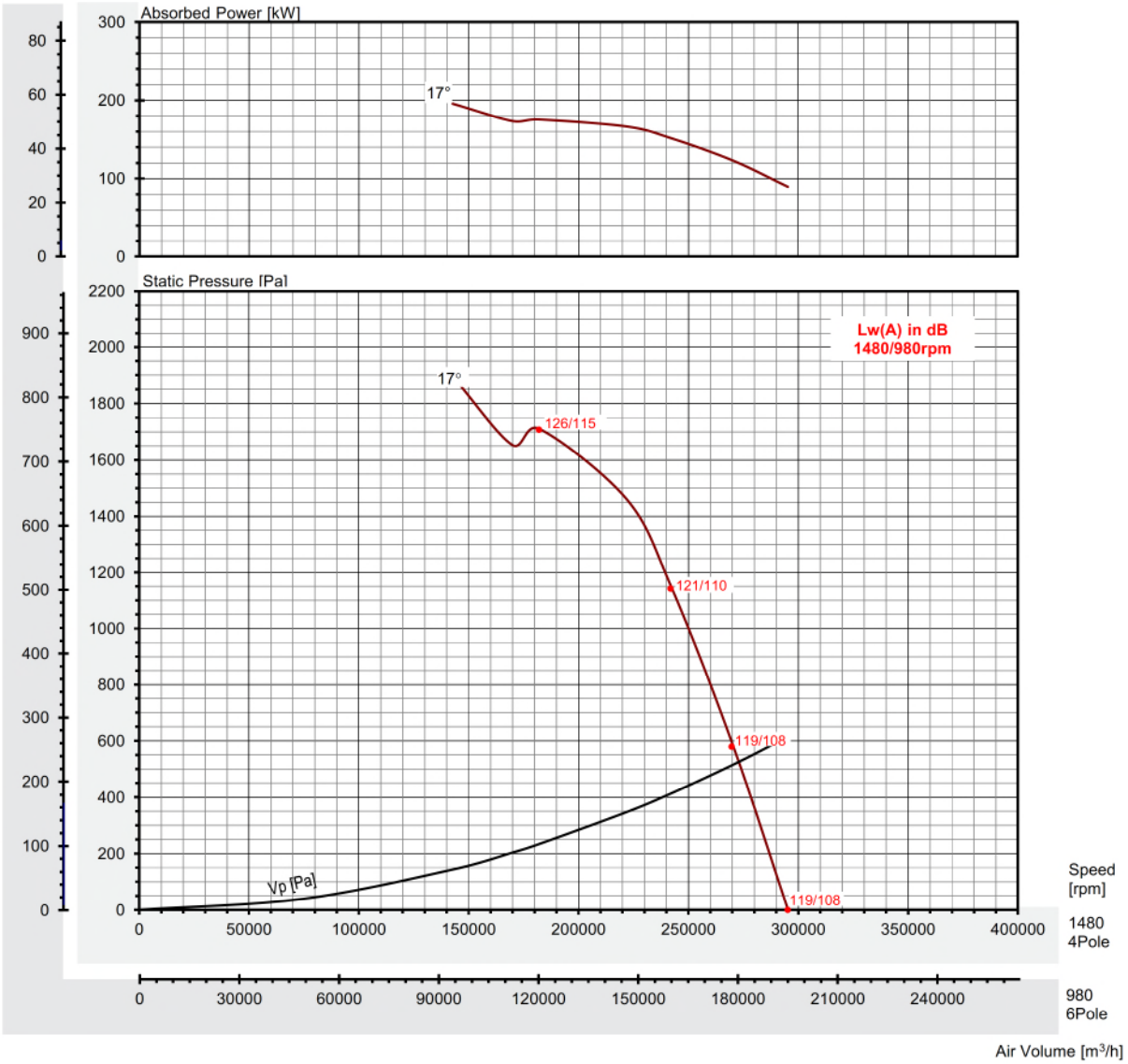


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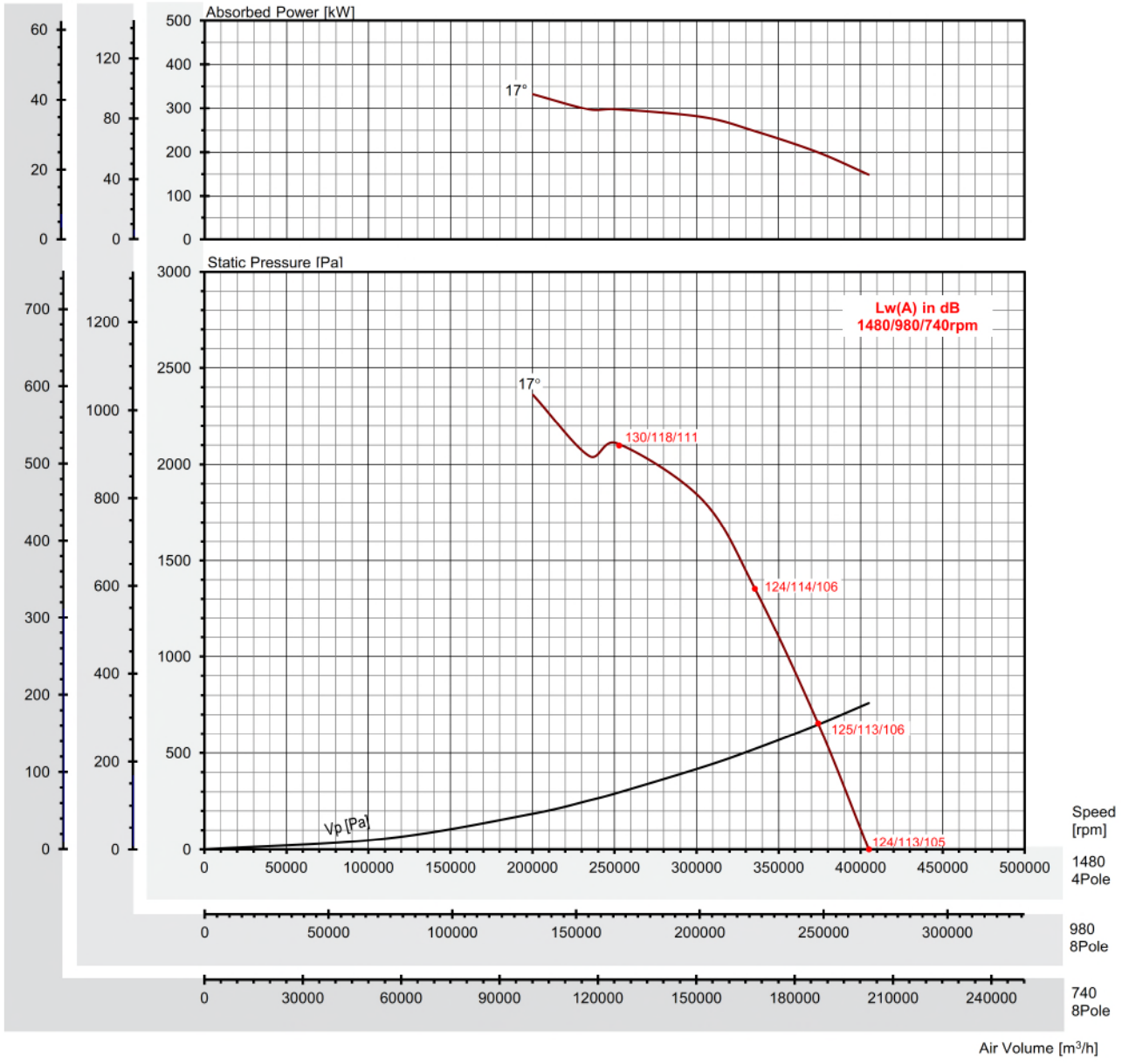
Reversible Pitch Angle Tunnel Axial Fan

## Model: AXL 200 R-1000-10-17° (Forward)

$\rho = 1.2 kg/m^3$

### FEG 71

Outlet Area: $3.142 m^2$

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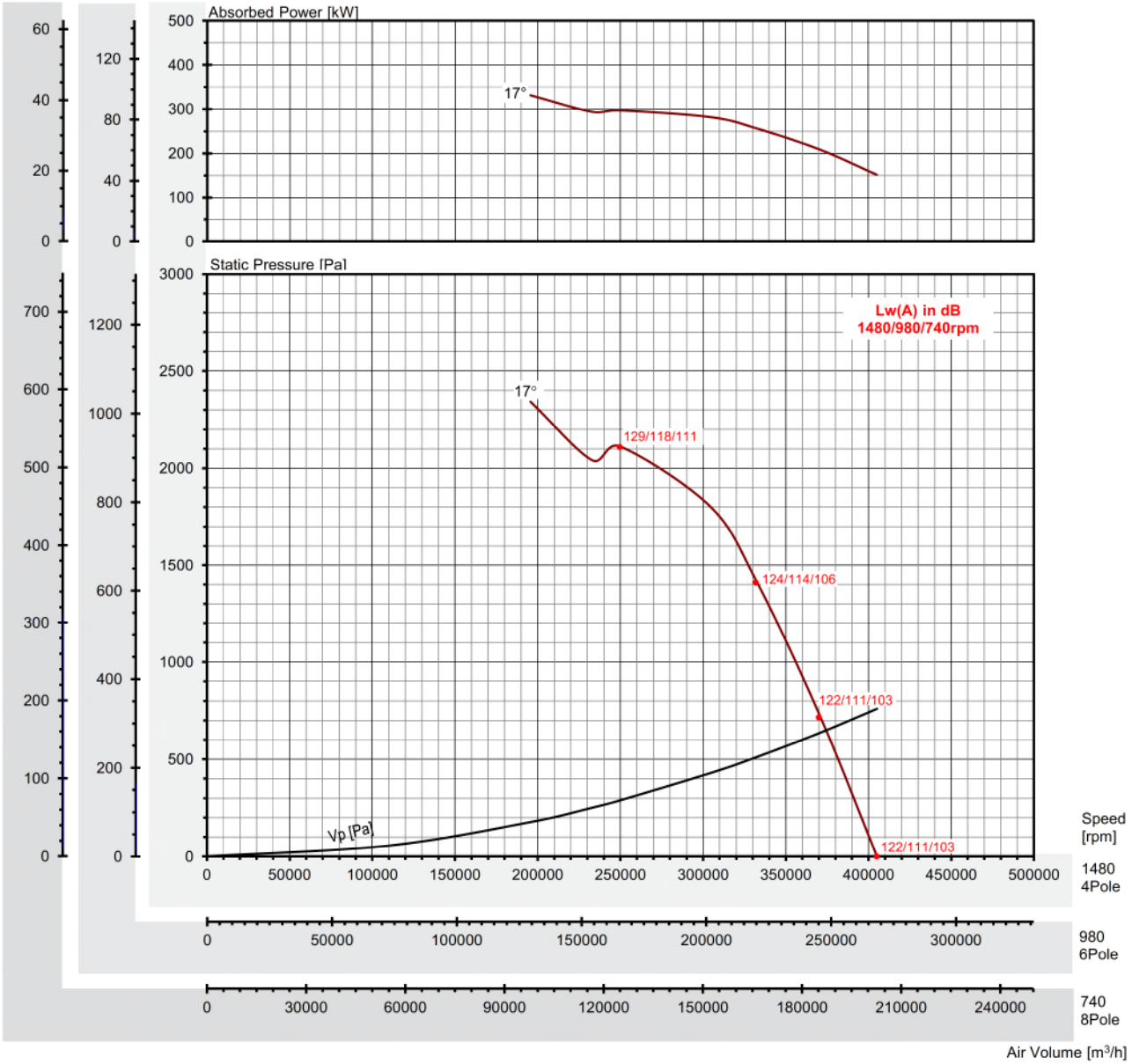


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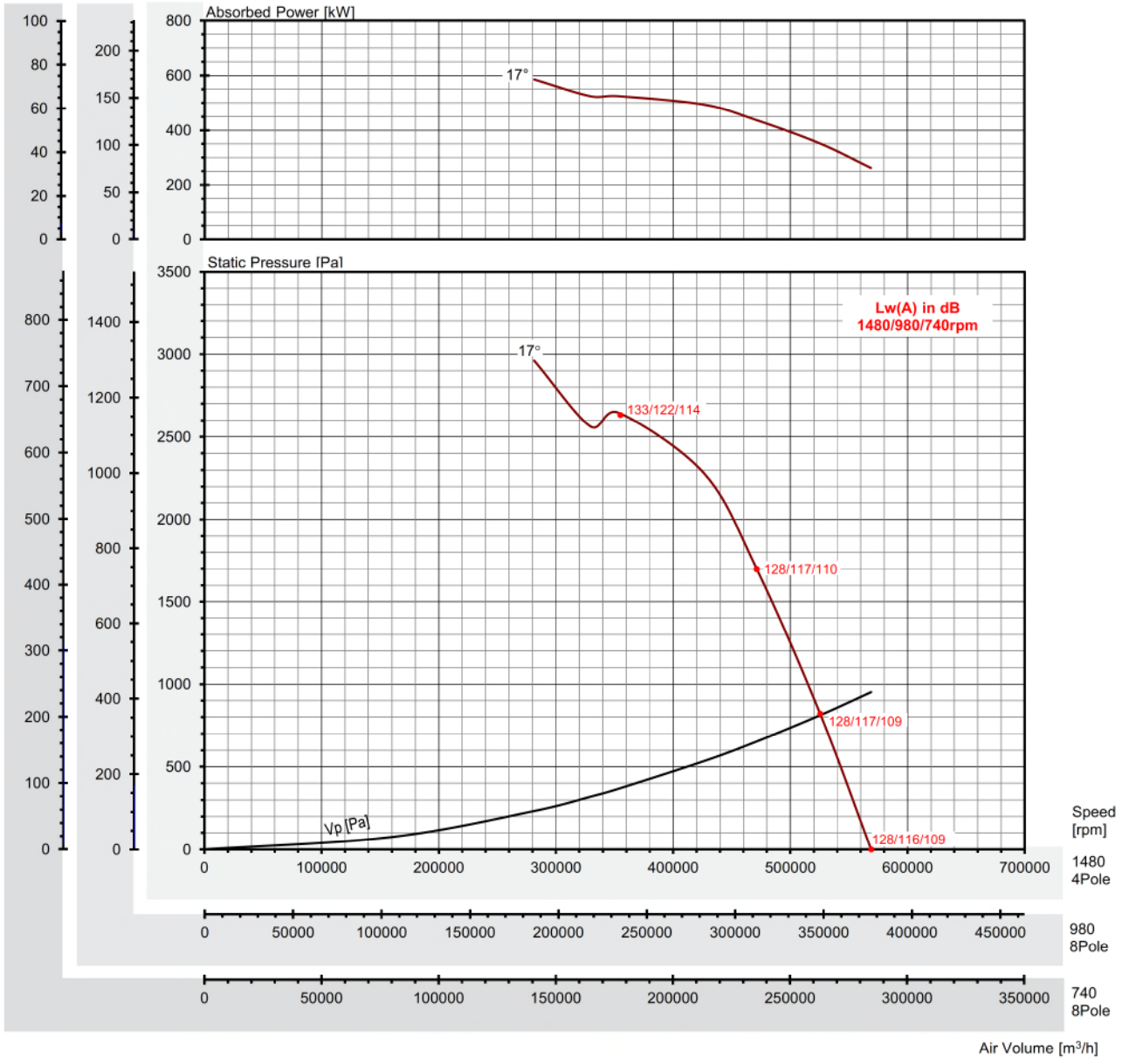
Reversible Pitch Angle Tunnel Axial Fan

## Model: AXL 224 R-1120-10-17° (Forward)

ρ = 1.2kg/m³

### FEG 71

Outlet Area: 3.941m²

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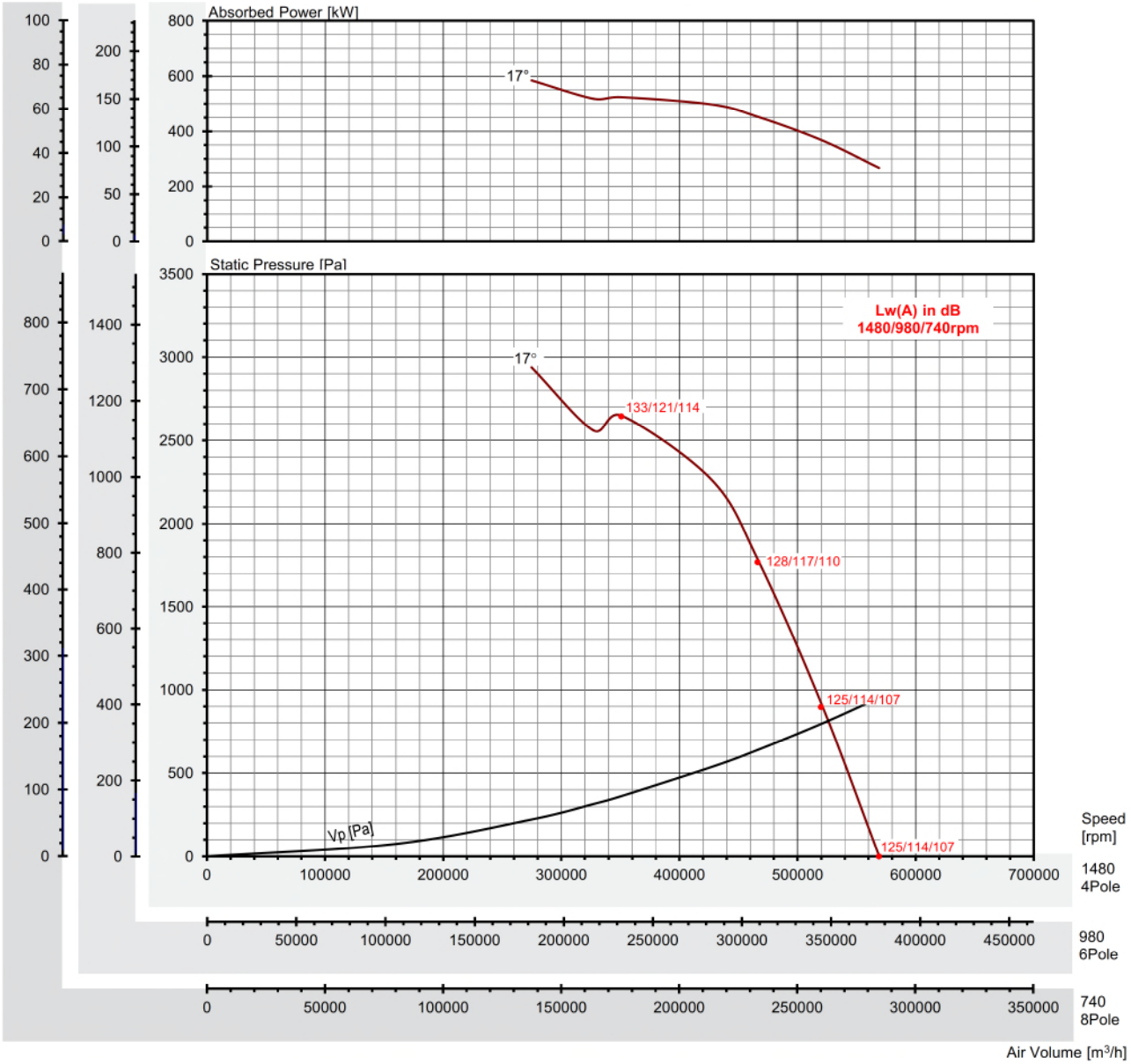
Outlet Area: 3.941m$^2$

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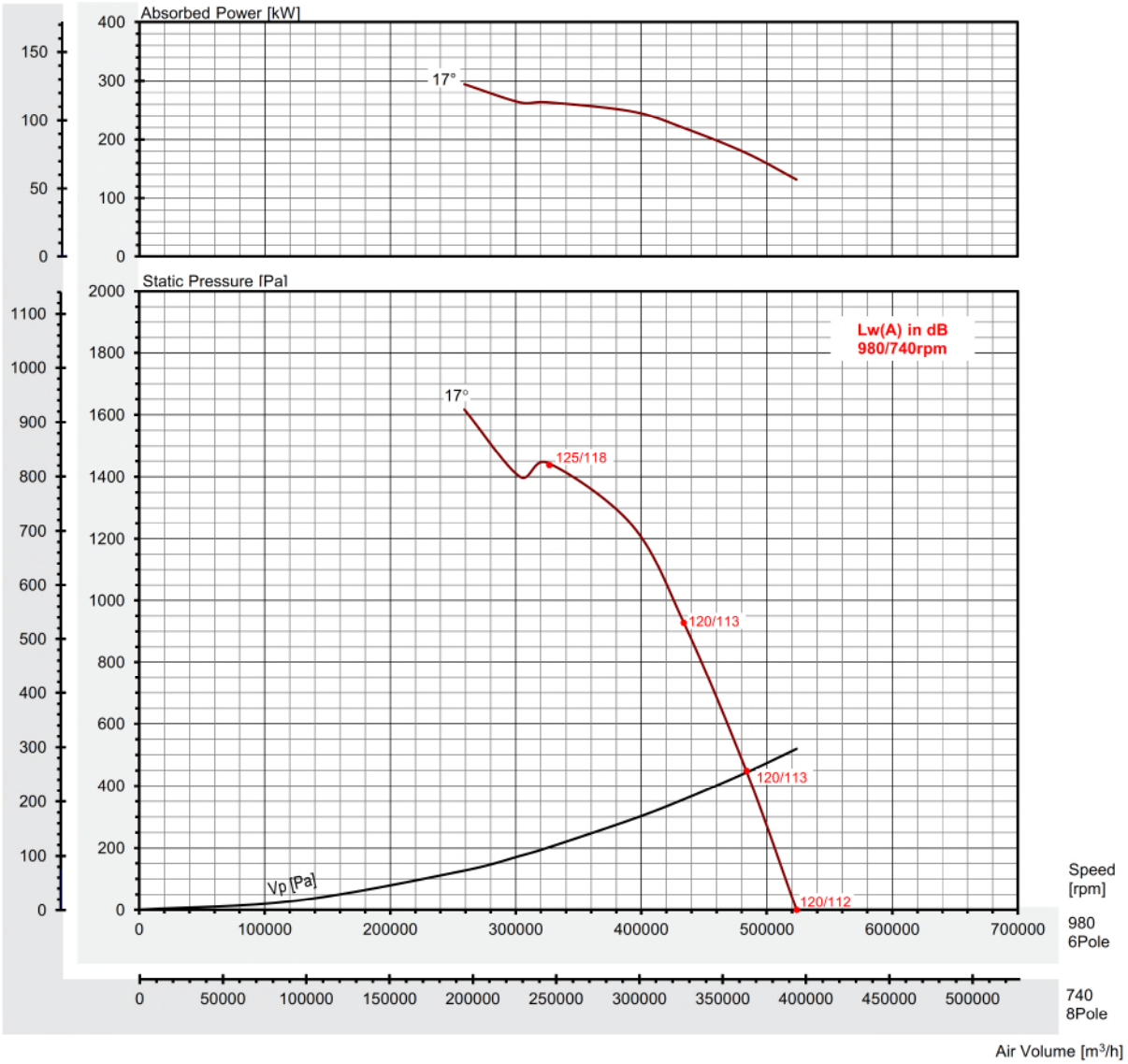
Reversible Pitch Angle Tunnel Axial Fan

## Model: AXL 250 R-1250-10-17° (Forward)

$\rho = 1.2 kg/m^3$

### FEG 71

Outlet Area: $4.909 m^2$

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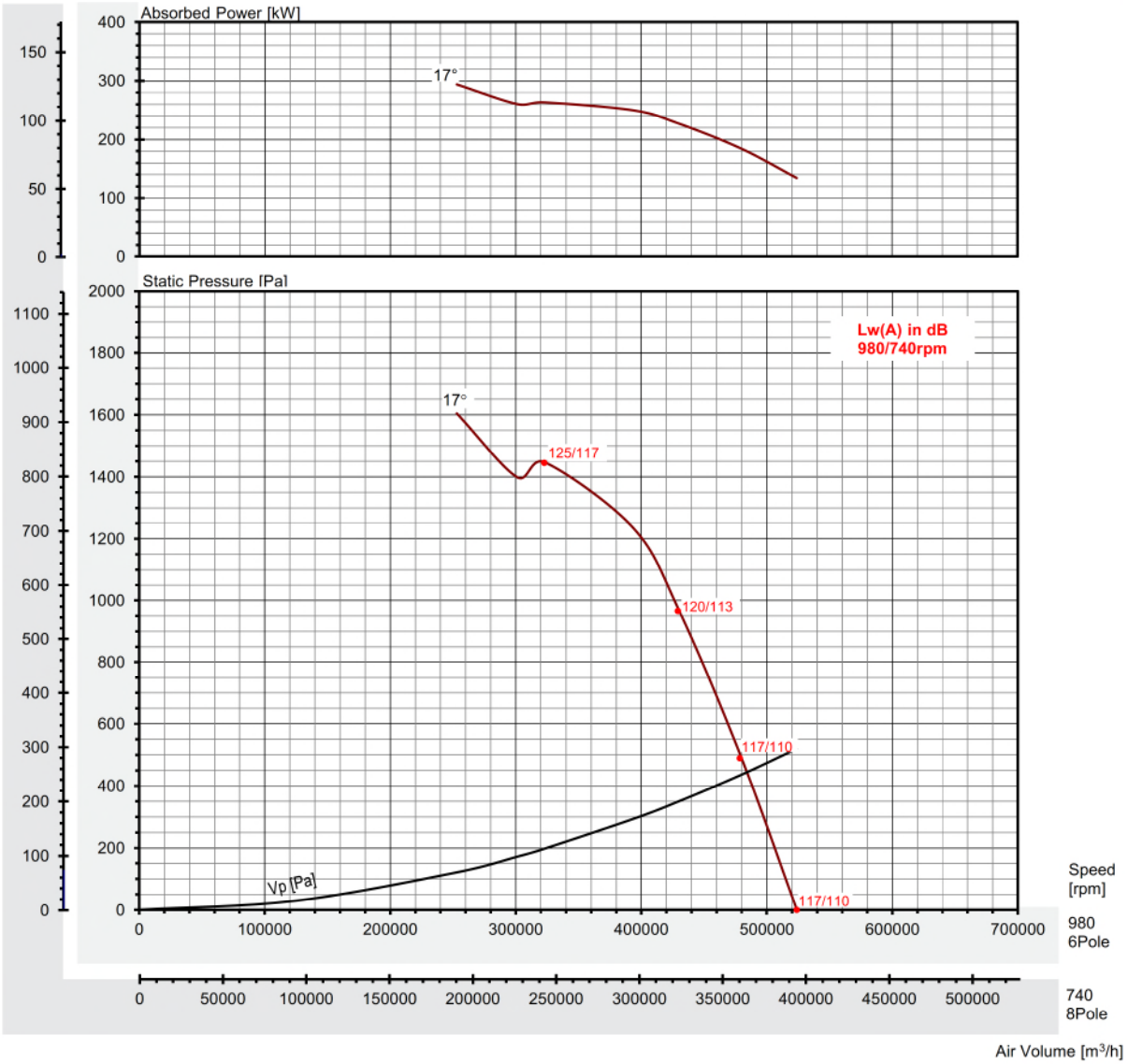


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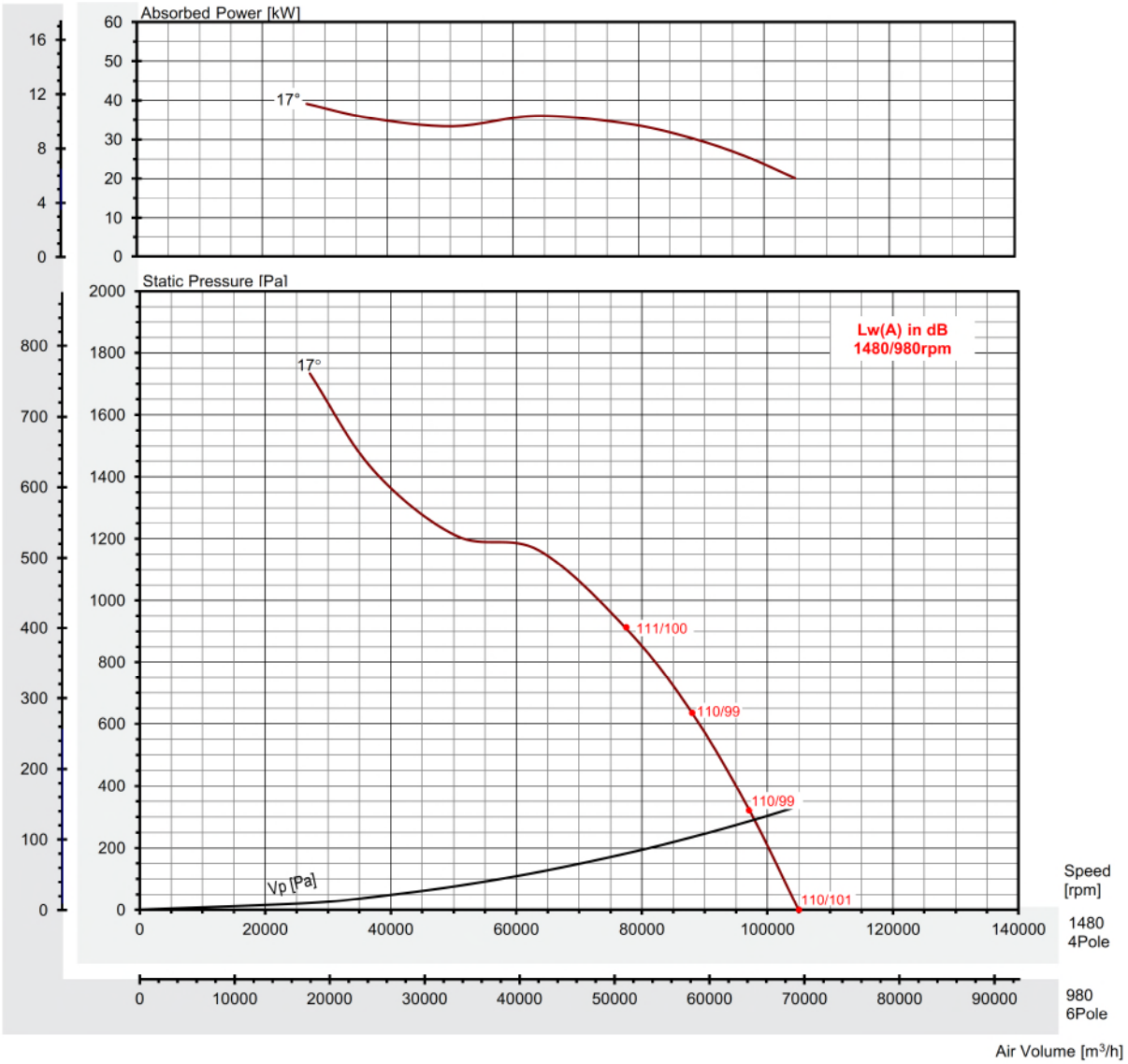
Adjustable Pitch Angle Vane Tunnel Axial Fan

## Model: AXL 125 UBS-625-10-17 °

ρ = 1.2kg/m³

### FEG 71

Outlet Area: 1.227m²

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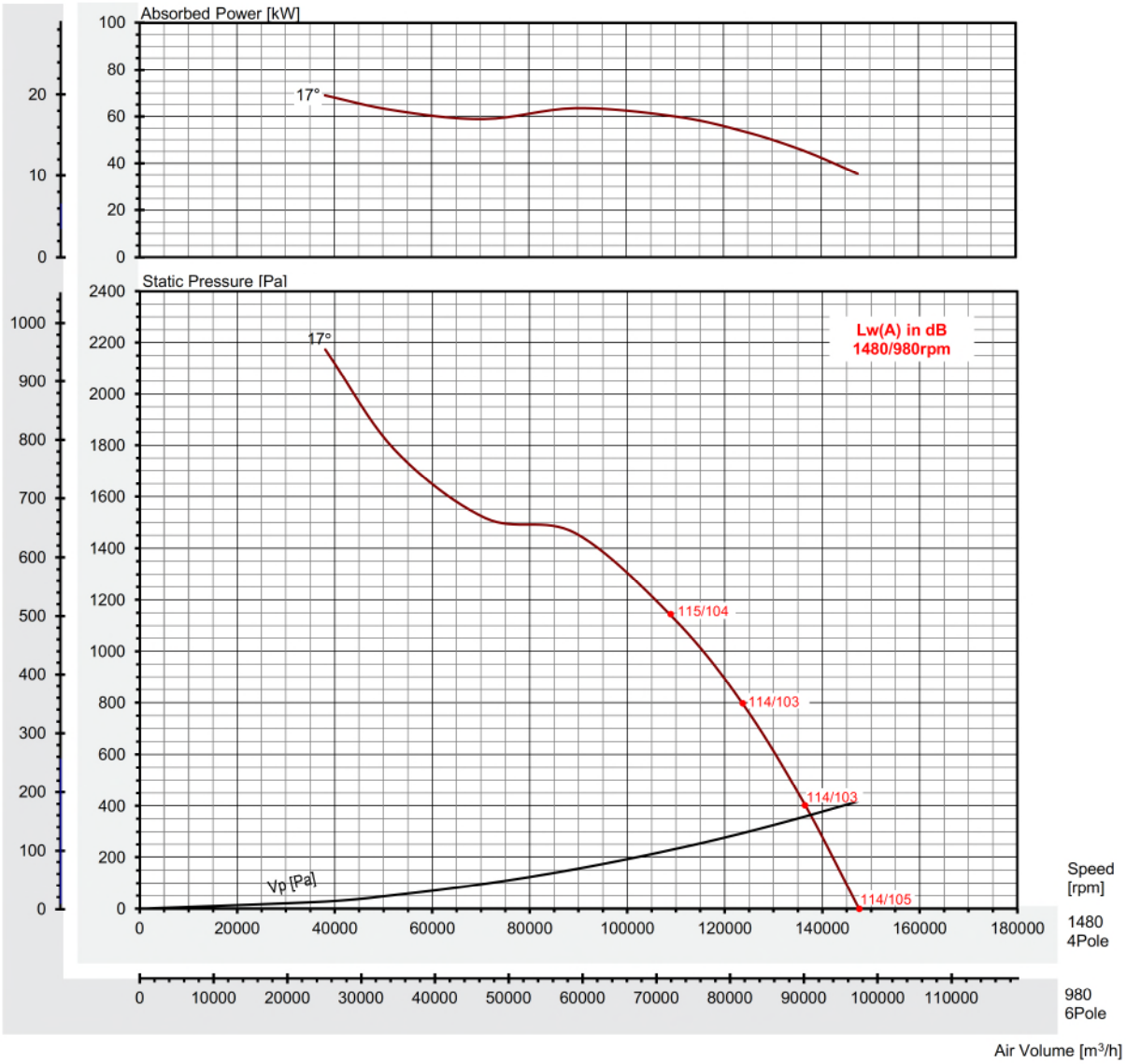
Adjustable Pitch Angle Vane Tunnel Axial Fan

# Model: AXL 140-UBS-700-10-17°

ρ = 1.2kg/m³

## FEG 71

Outlet Area: 1.539m²

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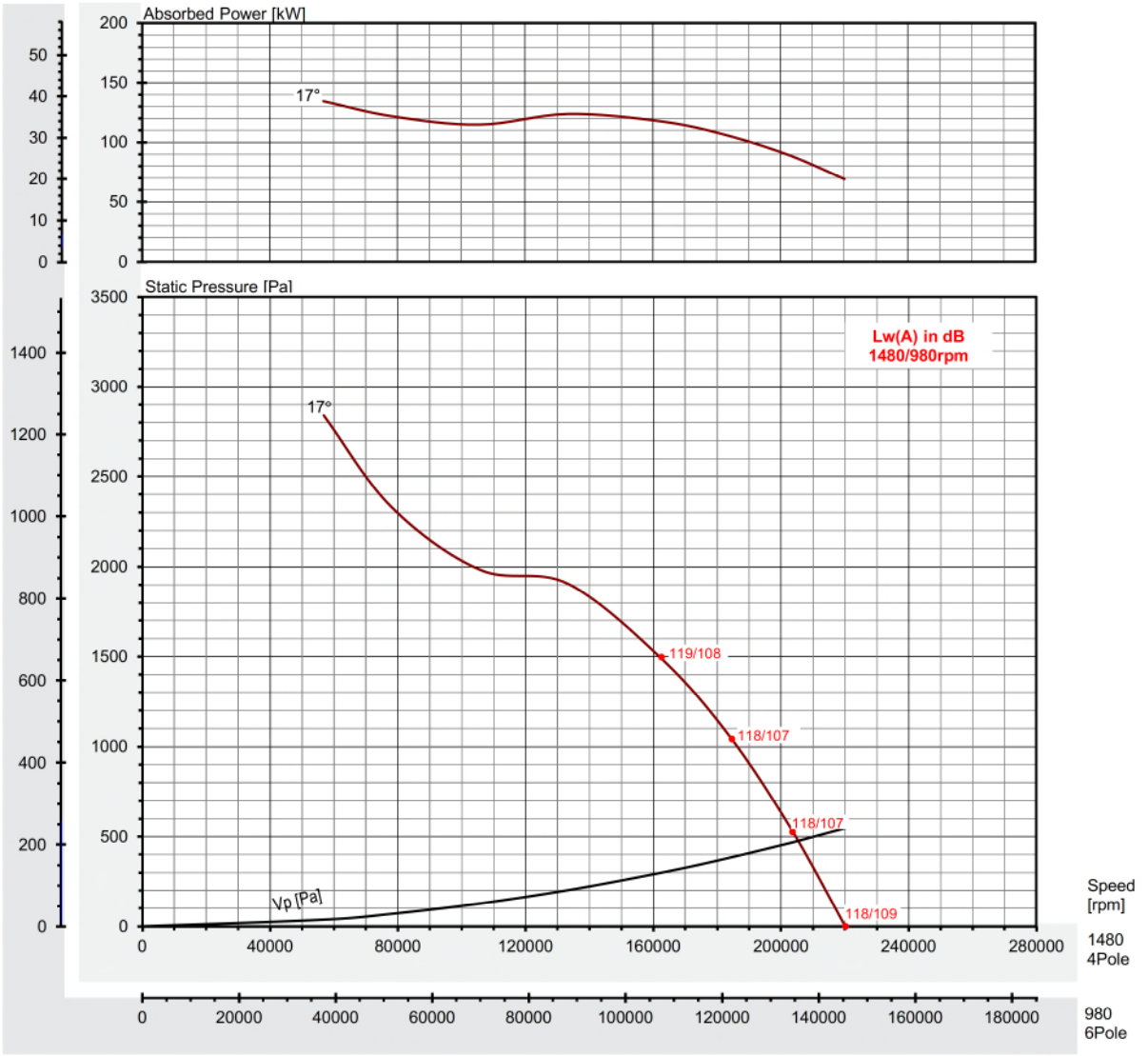
Adjustable Pitch Angle Vane Tunnel Axial Fan

# Model: AXL 160-UBS-800-17°

ρ = 1.2kg/m³

## FEG 71

Outlet Area: 2.011m²

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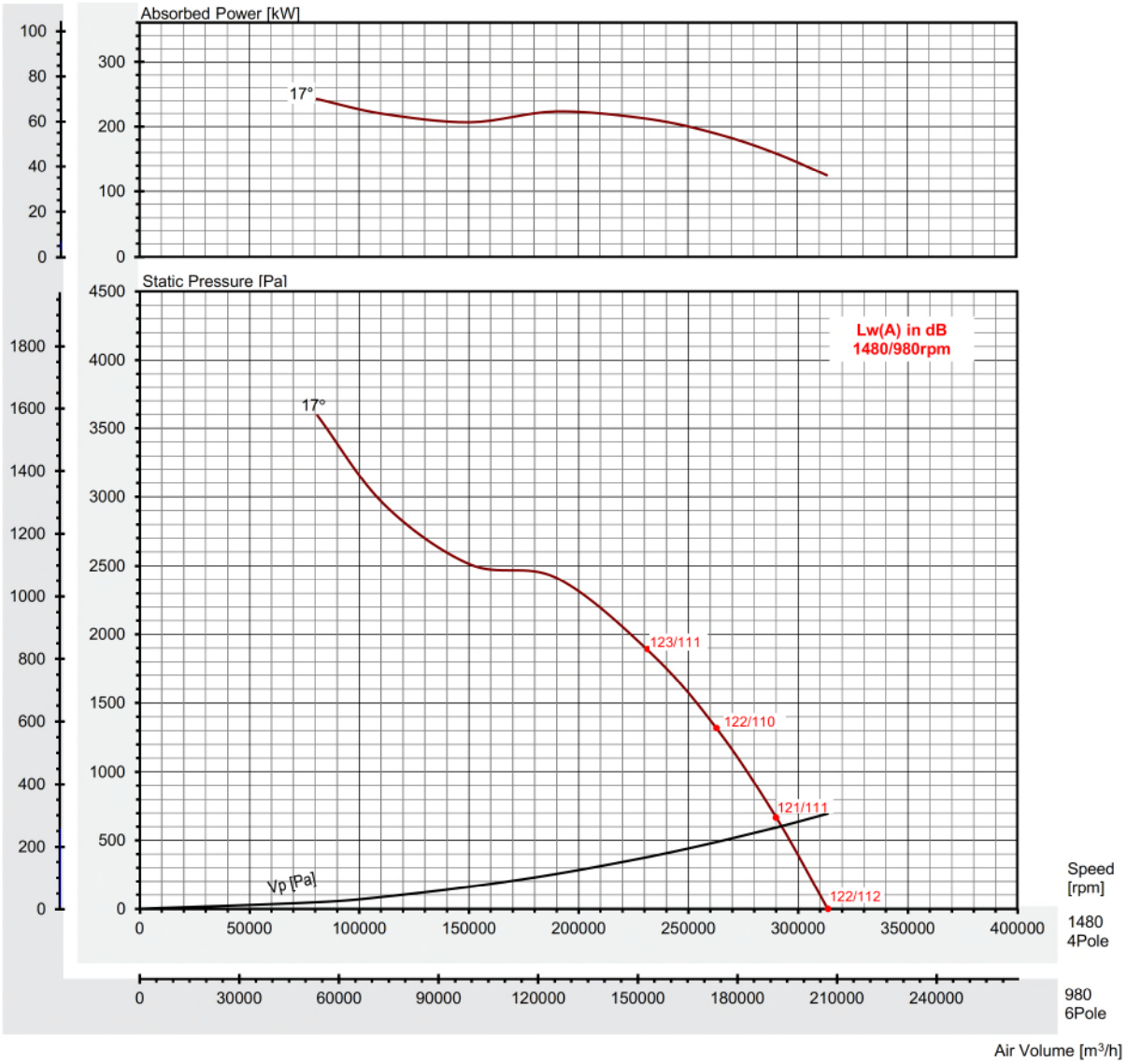
Adjustable Pitch Angle Vane Tunnel Axial Fan

# Model: AXL 180-UBS-900-10-17°

ρ = 1.2kg/m³

## FEG 71

Outlet Area: 2.545m²

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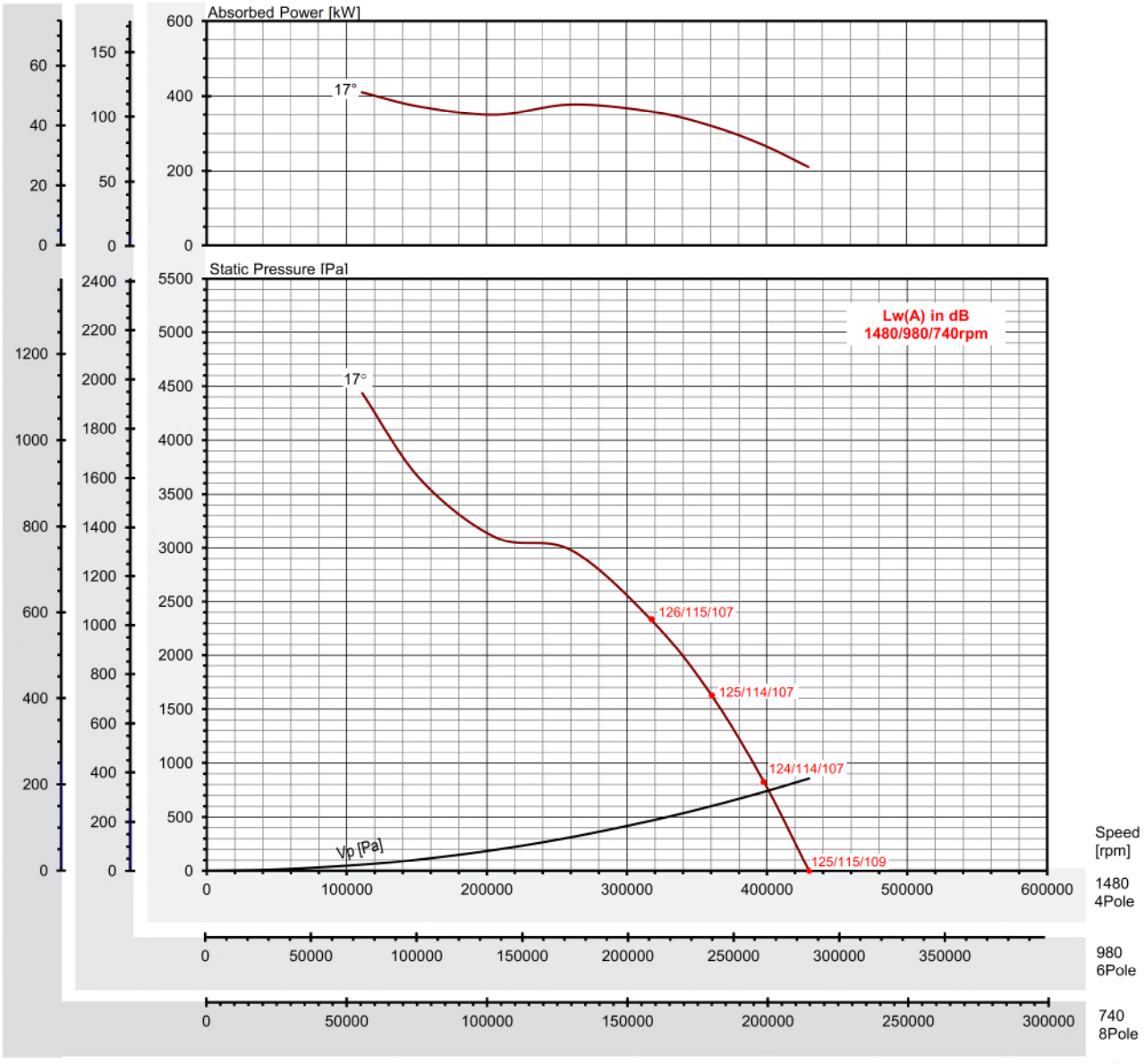
Adjustable Pitch Angle Vane Tunnel Axial Fan

## Model: AXL 200-UBS-1000-10-17°

ρ = 1.2kg/m³

### FEG 71

Outlet Area: 3.142m²

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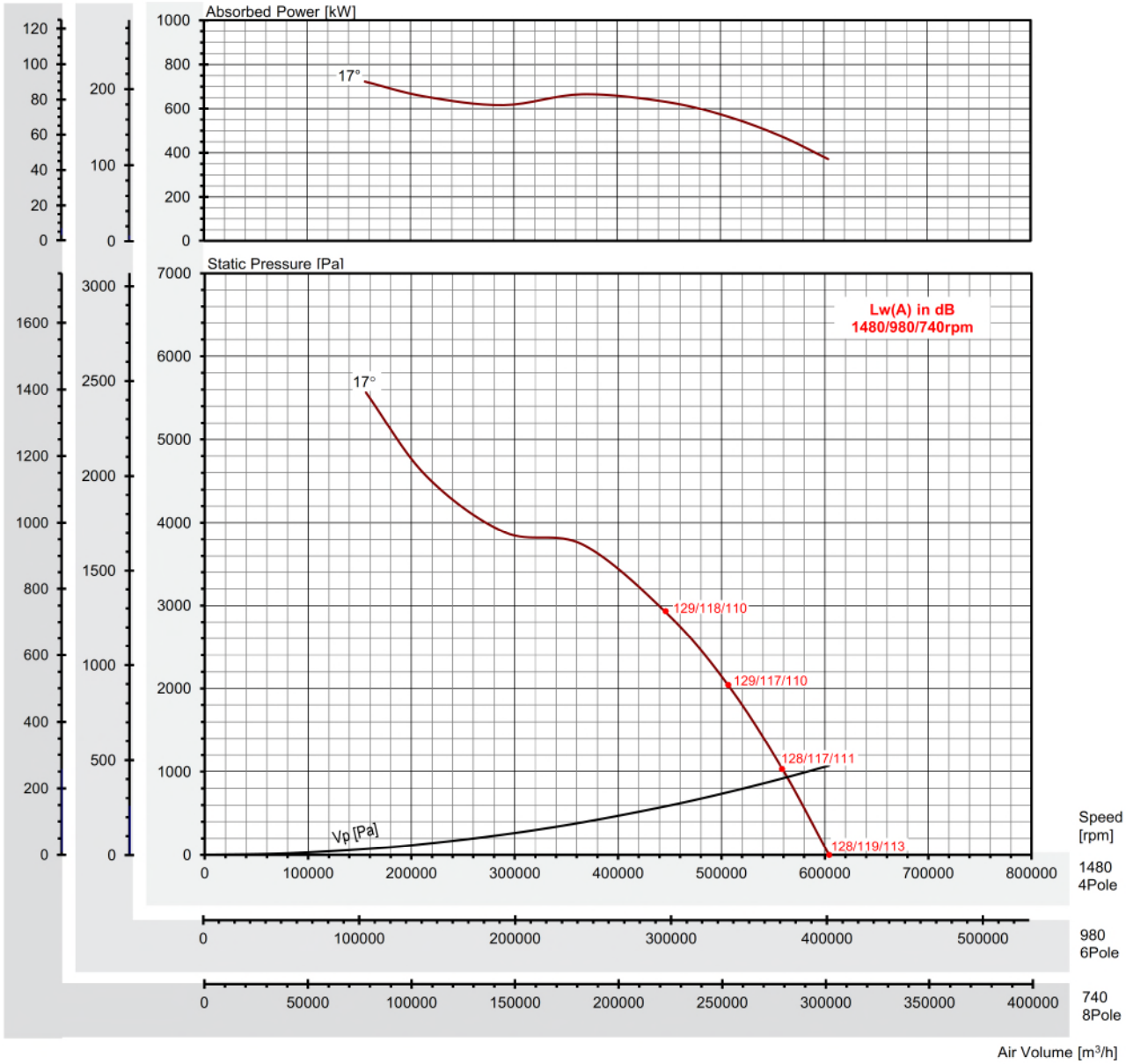
Adjustable Pitch Angle Vane Tunnel Axial Fan

## Model: AXL 224-UBS-1120-10-17°

$\rho$ = 1.2kg/m$^3$

### FEG 71

Outlet Area: 3.941m$^2$

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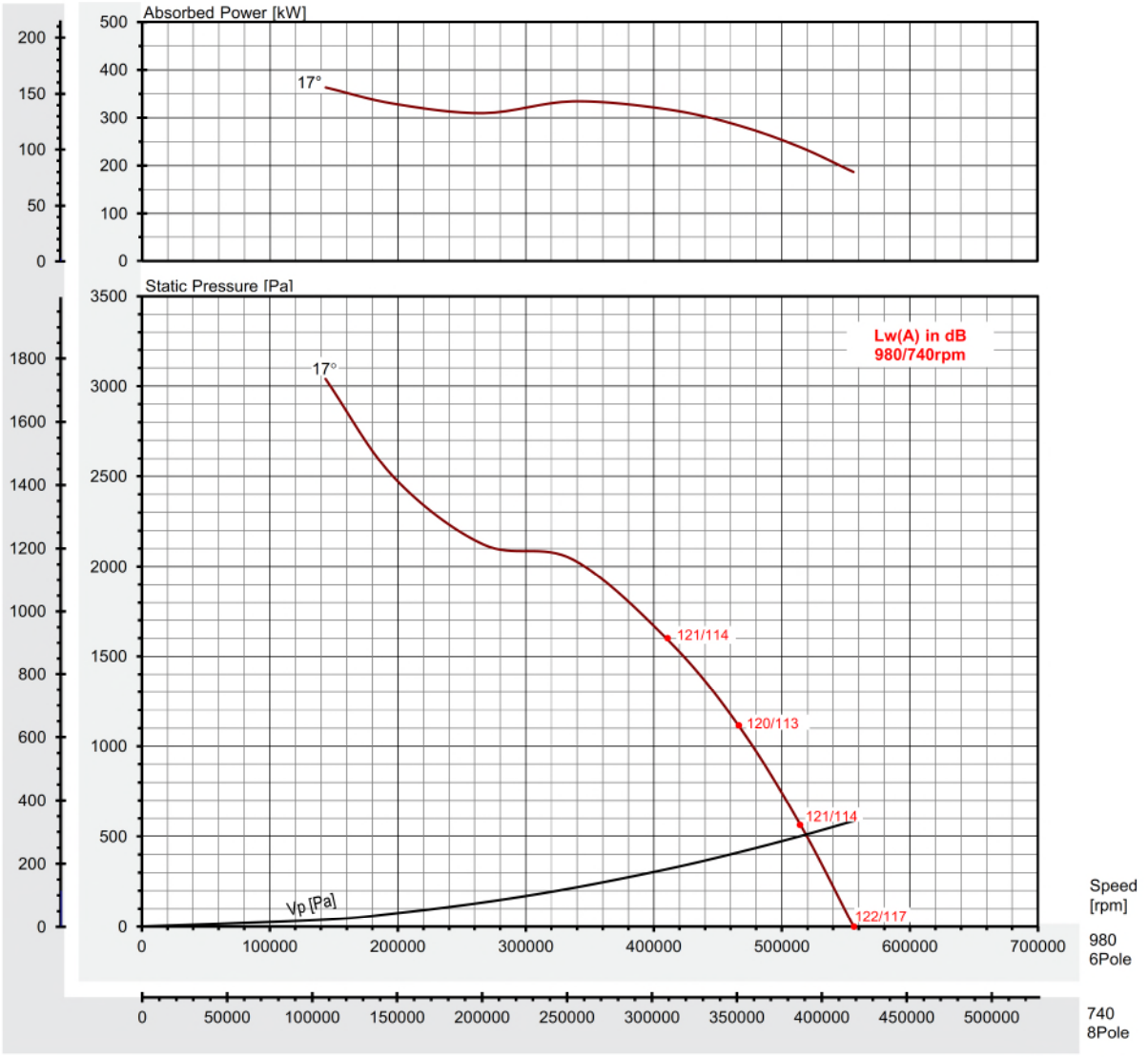
Adjustable Pitch Angle Vane Tunnel Axial Fan

## Model: AXL 250-UBS-1250-10-17°

ρ = 1.2kg/m³

### FEG 71

Outlet Area: 4.909m²

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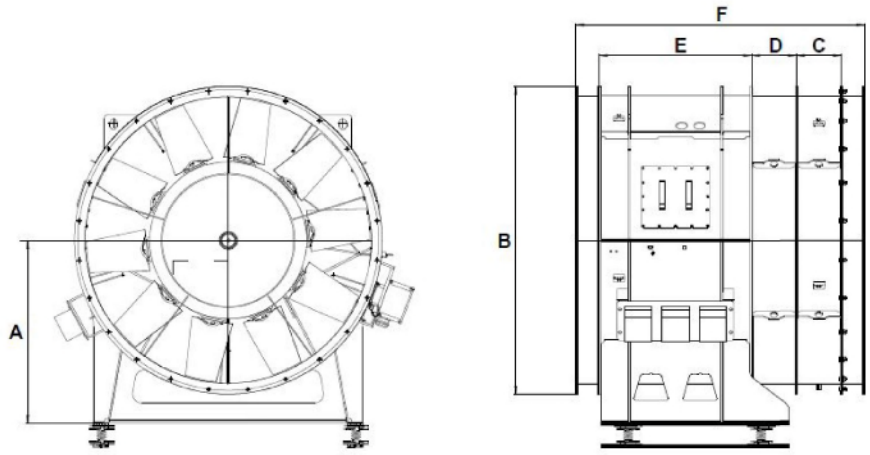
# DIMENSION




| Impeller size [mm] | A [mm] | B [mm] | C [mm] | D [mm] | E mm] | F [mm] |
|---|---|---|---|---|---|---|
| **1250** | 800 | 1370 | 200 | 200 | 700 | 1360 |
| **1400** | 840 | 1550 | 250 | 250 | 780 | 1500 |
| **1600** | 1022 | 1720 | 250 | 250 | 850 | 1610 |
| **1800** | 1145 | 1920 | 300 | 300 | 1200 | 2060 |
| **2000** | 1200 | 2426 | 300 | 300 | 1300 | 2200 |
| **224** | 1350 | 2640 | 300 | 300 | 1400 | 2400 |
| **2500** | 1465 | 2961 | 400 | 400 | 1500 | 2600 |


Catalog ID : VTT/AXL/R0
JULY 2019