Series

# VPVO

Axial pressurisation fan

Air flow: up to **120 000** m³/h

## PURPOSE

The fans are used:

– as a part of a smoke extraction system for air pressurization to create a positive air pressure differential in stairway enclosures, airlock vestibules and lift shafts, to prevent spreading of smoke in premises, protect people using evacuation routes from fire hazards and enable conditions for fire-extinguishing measures.

– in general ventilation systems in industrial, administrative and residential buildings.

## DESIGN

The metal casing with rolled flanges helps achieve outstanding rigidity and minimum clearances between the casing and the blades. There is an inspection hatch in the casing for easy maintenance. All the casing components are powder coated for improved protection against the environmental effects. The weight of the fans may differ from the one stated in the catalogue and depends on the components used (motor, terminal box, etc.).

## MOTOR

The fans are equipped with three-phase (400 V/50 Hz) single-speed 2-, 4- or 6-pole electric motors. Motor ingress protection level – IP55.

## IMPELLER

Depending on the size and the required air capacity the fans are equipped with impellers with 6 or 8 blades angled from 20° to 50° with variation from 2.5 up to 5° to ensure precise matching of fans with the operating point. The specially designed impeller blades ensure high efficiency of the fan while keeping noise well under control. The impellers are dynamically balanced. Low weight and low moment of the impeller inertia help reduce the fan start-up time. The fan blades can be made of the following materials: PAG – fiberglass reinforced polyamide AL – aluminium. Please confirm the blade material while placing your order.

## INSTALLATION

The fans can be mounted on any flat surface or directly into a ventilation duct. The units are suitable for both horizontal and vertical configurations. In-duct installation requires flanges to attach the fan to the ductwork. To attach the fan to the floor, a wall or the ceiling use the O-VO carriers (not included as standard, should be purchased separately). The units are suitable for installation on rooftops to provide direct supply of outdoor air to the stairway areas.

## DESIGNATION KEY

**VPVO-630 K-2D/5,5-8/35/AL-U1-K**

**VPVO**: axial pressurisation fan

**Standard size (duct diameter) [mm]**

**Modification:** _: standard casing; **K:** shortened casing

**Number of the poles**

**Motor phase: E:** single-phase; **D:** three-phase

**Motor power [kW]**

**Number of impeller blades [items]**

**Blade setting angle [°]**

**Blade material**
**PAG:** fiberglass reinforced polyamide
**AL:** aluminium

**Climatic category:**
**U:** moderate climate (-40...+40 °C)
**HL:** cold climate (-60...+40 °C)
**UHL:** moderate and cold climate (-60...+40 °C)
**T:** tropical climate (-10...+50 °C)
**M:** maritime moderately cold climate (-40...+40 °C)
**O:** general climatic modification (except maritime climate) (-60...+50 °C)
**OM:** general maritime climatic modification (-40...+40 °C)
**V:** universal climatic modification (-60...+50 °C)

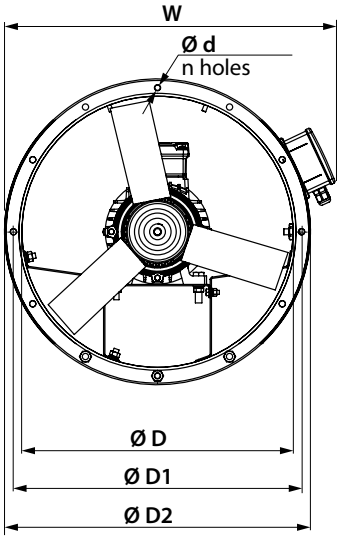
**Placement category:**
**1:** outdoors
**2:** under a shed or indoors with the same conditions as outdoors except solar radiation and precipitation
**3:** in closed rooms without artificial climate control
**4:** in closed rooms with artificial climate control (ventilation, heating)
**5:** in rooms with high levels of humidity, without climate control

**Terminal box:**
**_:** electric connection through the terminal box on the motor
**K:** external terminal box on the fan casing

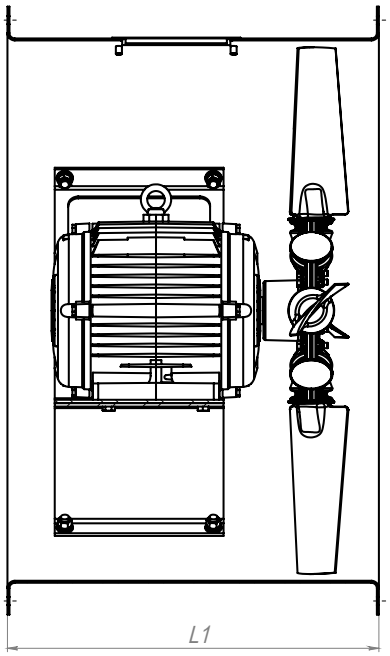
## OVERALL DIMENSIONS

| Model | Ø D | Ø D1 | Ø D2 | Ø d | n | W* |
|---|---|---|---|---|---|---|
| **VPVO-400...** | 400 | 450 | 490 | 8 | 12 | 480 |
| **VPVO-450...** | 450 | 500 | 540 | 8 | 12 | 525 |
| **VPVO-500...** | 500 | 560 | 600 | 12 | 12 | 575 |
| **VPVO-560...** | 560 | 620 | 660 | 12 | 12 | 590 |
| **VPVO-630...** | 630 | 690 | 730 | 12 | 12 | 650 |
| **VPVO-710...** | 710 | 770 | 810 | 12 | 16 | 765 |
| **VPVO-800...** | 800 | 860 | 900 | 12 | 16 | 845 |
| **VPVO-900...** | 900 | 970 | 1015 | 15 | 16 | 985 |
| **VPVO-1000...** | 1000 | 1070 | 1115 | 15 | 16 | 1080 |
| **VPVO-1120...** | 1120 | 1190 | 1270 | 15 | 20 | 1210 |
| **VPVO-1250...** | 1250 | 1320 | 1400 | 15 | 20 | 1330 |

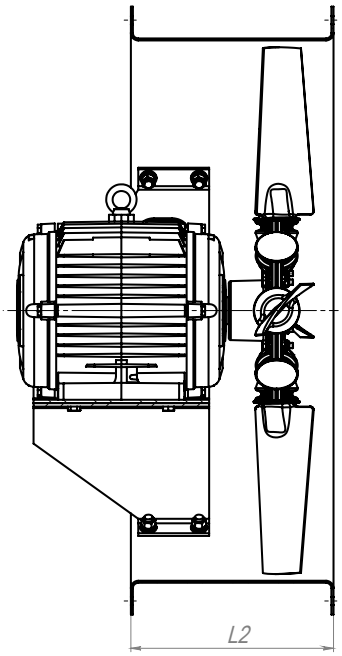
*Dimension for fans complete with terminal box.




### STANDARD CASING




### SHORTENED CASING

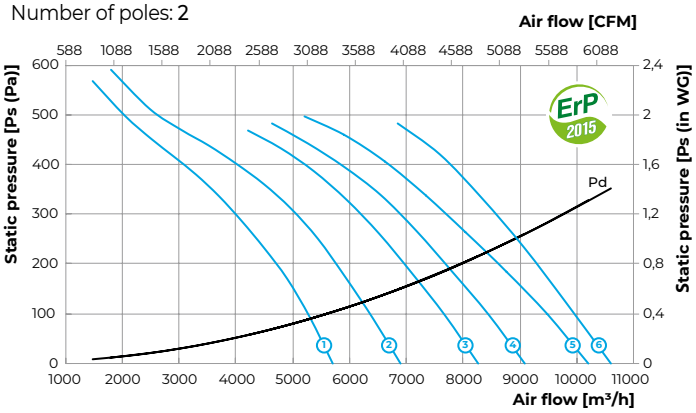


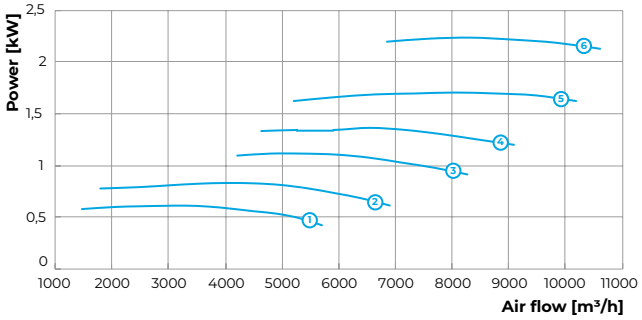
| Size | Number of poles | Voltage [V/50 Hz] | Fan model with aluminum impeller (AL) | Fan model with fiberglass reinforced polyamide (PAG) impeller | Installed motor power Ny [kW] | RPM [min⁻¹] | Number of blades | Blade setting angle [°] | Weight [kg] | Casing length [mm] | | Curve number on graph |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | L1 | L2 | |
| **VPVO-400-2D** | | | | | | | | | | | | |
| **400** | 2 | 3~400 | VPVO-400-2D/0,55-6/25/AL | VPVO-400-2D/0,55-6/25/PAG | 0,55 | 2880 | 6 | 25 | 23,4 | 350 (450*) | 175 (250*) | ① |
| | | | VPVO-400-2D/0,75-6/30/AL | VPVO-400-2D/0,75-6/30/PAG | 0,75 | 2880 | 6 | 30 | 26,5 | 450 | 250 | ② |
| | | | VPVO-400-2D/1,1-6/35/AL | VPVO-400-2D/1,1-6/35/PAG | 1,1 | 2880 | 6 | 35 | 27,0 | 450 | 250 | ③ |
| | | | VPVO-400-2D/1,5-6/40/AL | VPVO-400-2D/1,5-6/40/PAG | 1,5 | 2880 | 6 | 40 | 32,5 | 450 | 250 | ④ |
| | | | VPVO-400-2D/2,2-6/45/AL | VPVO-400-2D/2,2-6/45/PAG | 2,2 | 2880 | 6 | 45 | 34,5 | 450 | 250 | ⑤ |
| | | | VPVO-400-2D/2,2-8/45/AL | VPVO-400-2D/2,2-8/45/PAG | 2,2 | 2880 | 8 | 45 | 35,0 | 450 | 250 | ⑥ |
| **VPVO-400-4D** | | | | | | | | | | | | |
| **400** | 4 | 3~400 | VPVO-400-4D/0,12-6/30/AL | VPVO-400-4D/0,12-6/30/PAG | 0,12 | 1440 | 6 | 30 | 19,5 | 350 | 175 | ① |
| | | | VPVO-400-4D/0,18-6/35/AL | VPVO-400-4D/0,18-6/35/PAG | 0,18 | 1440 | 6 | 35 | 19,8 | 350 | 175 | ② |
| | | | VPVO-400-4D/0,18-6/40/AL | VPVO-400-4D/0,18-6/40/PAG | 0,18 | 1440 | 6 | 40 | 19,8 | 350 | 175 | ③ |
| | | | VPVO-400-4D/0,25-6/45/AL | VPVO-400-4D/0,25-6/45/PAG | 0,25 | 1440 | 6 | 45 | 23,2 | 350 | 175 | ④ |
| | | | VPVO-400-4D/0,37-8/45/AL | VPVO-400-4D/0,37-8/45/PAG | 0,37 | 1440 | 8 | 45 | 23,9 | 350 | 175 | ⑤ |

*With IE3 energy efficiency motor

## STANDARD SIZE: 400

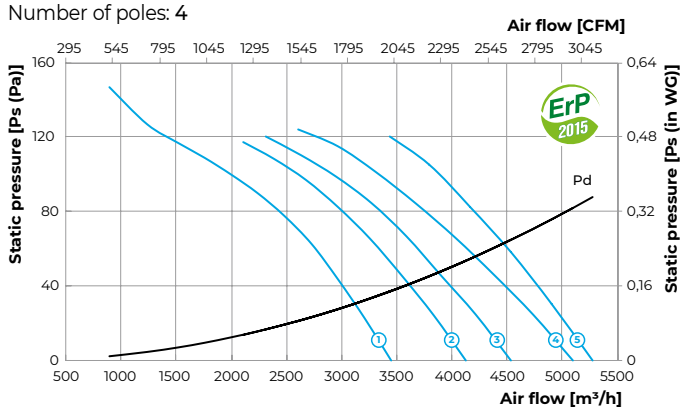
Number of poles: 2

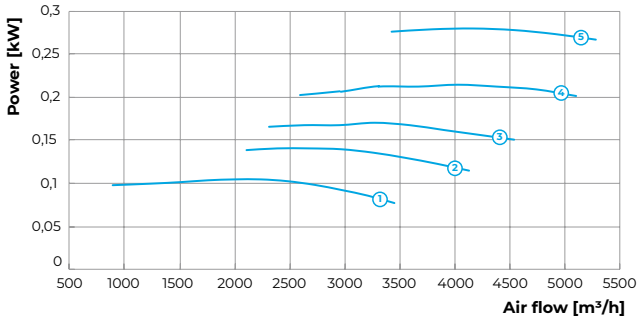



## STANDARD SIZE: 400

Number of poles: 4



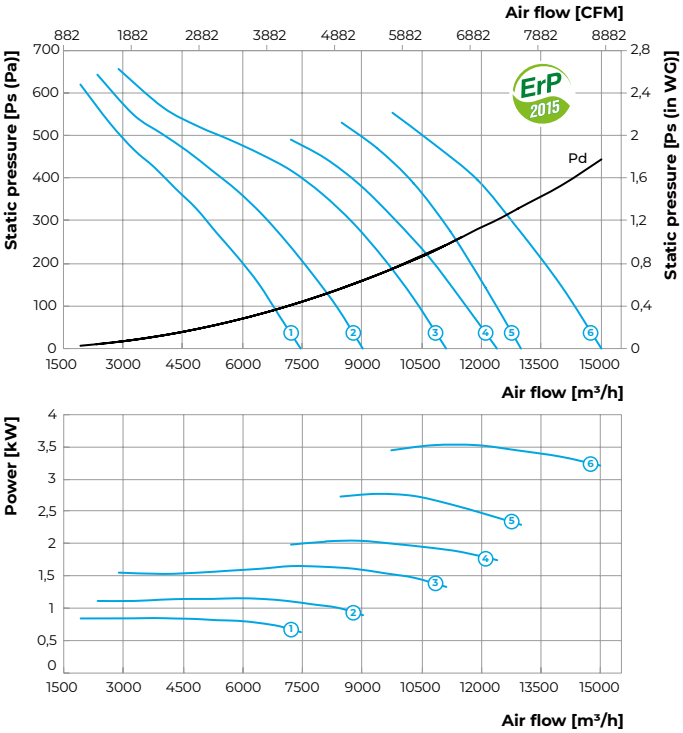



| Size | Number of poles | Voltage [V/50 Hz] | Fan model with aluminum impeller (AL) | Fan model with fiberglass reinforced polyamide (PAG) impeller | Installed motor power Ny [kW] | RPM [min⁻¹] | Number of blades | Blade setting angle [°] | Weight [kg] | Casing length [mm] | | Curve number on graph |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | L1 | L2 | |
| **VPVO-450-2D** | | | | | | | | | | | | |
| **450** | 2 | 3~400 | VPVO-450-2D/0,75-6/25/AL | VPVO-450-2D/0,75-6/25/PAG | 0,75 | 2880 | 6 | 25 | 36,1 | 350 (450*) | 175 (250*) | ① |
| | | | VPVO-450-2D/1,1-6/30/AL | VPVO-450-2D/1,1-6/30/PAG | 1,1 | 2880 | 6 | 30 | 36,6 | 450 | 250 | ② |
| | | | VPVO-450-2D/1,5-6/35/AL | VPVO-450-2D/1,5-6/35/PAG | 1,5 | 2880 | 6 | 35 | 42,1 | 450 | 250 | ③ |
| | | | VPVO-450-2D/2,2-6/40/AL | VPVO-450-2D/2,2-6/40/PAG | 2,2 | 2880 | 6 | 40 | 44,1 | 450 | 250 | ④ |
| | | | VPVO-450-2D/3-8/40/AL | VPVO-450-2D/3-8/40/PAG | 3 | 2880 | 8 | 40 | 53,6 | 450 (550*) | 250 | ⑤ |
| | | | VPVO-450-2D/4-8/45/AL | VPVO-450-2D/4-8/45/PAG | 4 | 2880 | 8 | 45 | 63,7 | 550 | 250 | ⑥ |
| **VPVO-450-4D** | | | | | | | | | | | | |
| **450** | 4 | 3~400 | VPVO-450-4D/0,12-6/25/AL | VPVO-450-4D/0,12-6/25/PAG | 0,12 | 1440 | 6 | 25 | 29,1 | 350 | 175 (250*) | ① |
| | | | VPVO-450-4D/0,18-6/30/AL | VPVO-450-4D/0,18-6/30/PAG | 0,18 | 1440 | 6 | 30 | 29,4 | 350 | 250 | ② |
| | | | VPVO-450-4D/0,25-6/35/AL | VPVO-450-4D/0,25-6/35/PAG | 0,25 | 1440 | 6 | 35 | 32,8 | 350 | 250 | ③ |
| | | | VPVO-450-4D/0,25-6/40/AL | VPVO-450-4D/0,25-6/40/PAG | 0,25 | 1440 | 6 | 40 | 32,8 | 350 | 250 | ④ |
| | | | VPVO-450-4D/0,37-6/45/AL | VPVO-450-4D/0,37-6/45/PAG | 0,37 | 1440 | 6 | 45 | 33 | 350 | 250 | ⑤ |
| | | | VPVO-450-4D/0,55-8/45/AL | VPVO-450-4D/0,55-8/45/PAG | 0,55 | 1440 | 8 | 45 | 36,6 | 350 (450*) | 250 | ⑥ |

*With IE3 energy efficiency motor

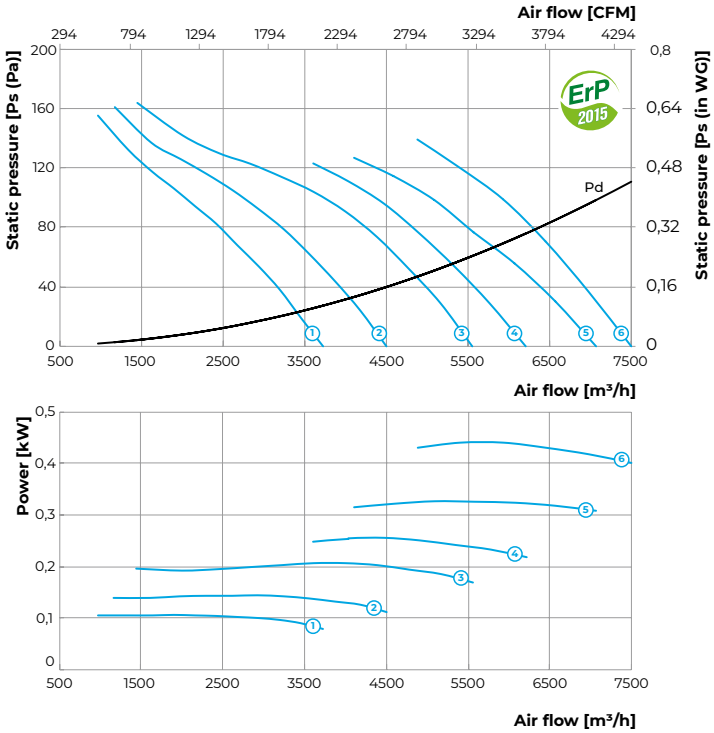
## STANDARD SIZE: 450

Number of poles: 2




## STANDARD SIZE: 450

Number of poles: 4

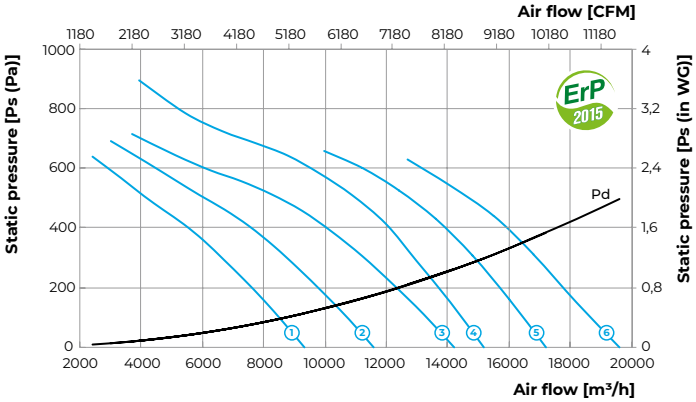


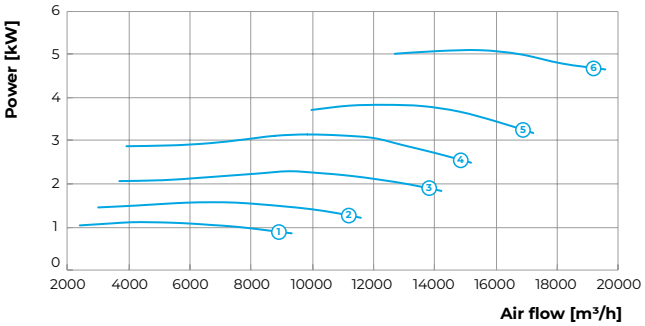
| Size | Number of poles | Voltage [V/50 Hz] | Fan model with aluminum impeller (AL) | Fan model with fiberglass reinforced polyamide (PAG) impeller | Installed motor power Ny [kW] | RPM [min⁻¹] | Number of blades | Blade setting angle [°] | Weight [kg] | Casing length [mm] | | Curve number on graph |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | L1 | L2 | |
| **VPVO-500-2D** | | | | | | | | | | | | |
| **500** | 2 | 3~400 | VPVO-500-2D/1,1-6/25/AL | VPVO-500-2D/1,1-6/25/PAG | 1,1 | 2880 | 6 | 25 | 48,2 | 450 | 250 | ① |
| | | | VPVO-500-2D/1,5-6/30/AL | VPVO-500-2D/1,5-6/30/PAG | 1,5 | 2880 | 6 | 30 | 53,7 | 450 | 250 | ② |
| | | | VPVO-500-2D/2,2-6/35/AL | VPVO-500-2D/2,2-6/35/PAG | 2,2 | 2880 | 6 | 35 | 55,7 | 450 | 250 | ③ |
| | | | VPVO-500-2D/3-8/35/AL | VPVO-500-2D/3-8/35/PAG | 3 | 2880 | 8 | 35 | 65,3 | 450 (550*) | 250 | ④ |
| | | | VPVO-500-2D/4-8/40/AL | VPVO-500-2D/4-8/40/PAG | 4 | 2880 | 8 | 40 | 75,4 | 550 | 250 | ⑤ |
| | | | VPVO-500-2D/5,5-8/45/AL | VPVO-500-2D/5,5-8/45/PAG | 5,5 | 2880 | 8 | 45 | 96,8 | 550 | 250 | ⑥ |
| **VPVO-500-4D** | | | | | | | | | | | | |
| **500** | 4 | 3~400 | VPVO-500-4D/0,18-6/25/AL | VPVO-500-4D/0,18-6/25/PAG | 0,18 | 1440 | 6 | 25 | 61,5 | 350 | 175 | ① |
| | | | VPVO-500-4D/0,25-6/30/AL | VPVO-500-4D/0,25-6/30/PAG | 0,25 | 1440 | 6 | 30 | 61,7 | 350 | 175 | ② |
| | | | VPVO-500-4D/0,37-6/35/AL | VPVO-500-4D/0,37-6/35/PAG | 0,37 | 1440 | 6 | 35 | 64,8 | 350 | 175 | ③ |
| | | | VPVO-500-4D/0,37-6/40/AL | VPVO-500-4D/0,37-6/40/PAG | 0,37 | 1440 | 6 | 40 | 64,8 | 350 | 175 | ④ |
| | | | VPVO-500-4D/0,55-6/45/AL | VPVO-500-4D/0,55-6/45/PAG | 0,55 | 1440 | 6 | 45 | 65,6 | 350 (450*) | 175 (250*) | ⑤ |
| | | | VPVO-500-4D/0,75-8/45/AL | VPVO-500-4D/0,75-8/45/PAG | 0,75 | 1440 | 8 | 45 | 71,4 | 450 | 250 | ⑥ |

*With IE3 energy efficiency motor

## STANDARD SIZE: 500

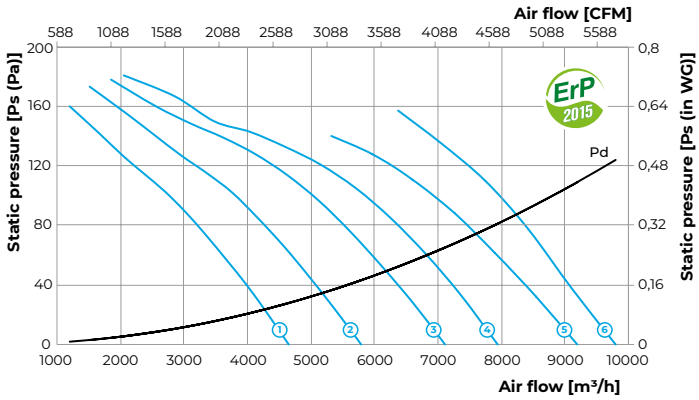
Number of poles: 2

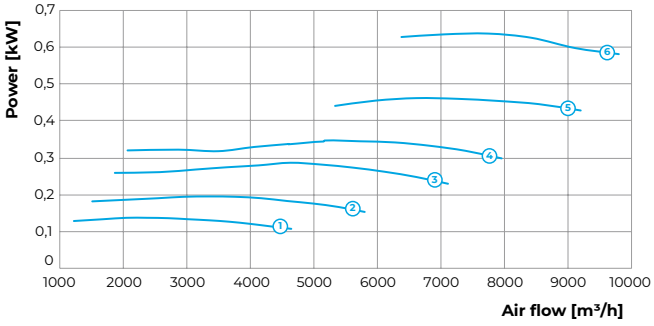



## STANDARD SIZE: 500

Number of poles: 4



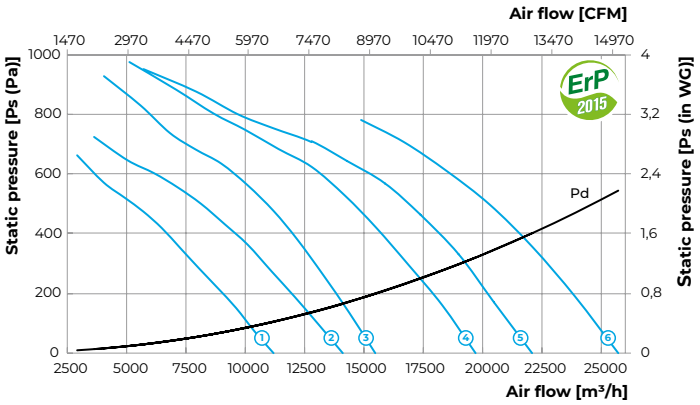



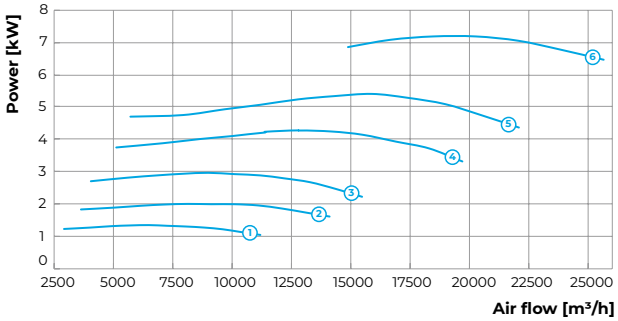
| Size | Number of poles | Voltage [V/50 Hz] | Fan model with aluminum impeller (AL) | Fan model with fiberglass reinforced polyamide (PAG) impeller | Installed motor power Ny [kW] | RPM [min⁻¹] | Number of blades | Blade setting angle [°] | Weight [kg] | Casing length [mm] | | Curve number on graph |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | L1 | L2 | |
| **VPVO-560-2D** | | | | | | | | | | | | |
| **560** | 2 | 3~400 | VPVO-560-2D/1,5-6/25/AL | VPVO-560-2D/1,5-6/25/PAG | 1,5 | 2880 | 6 | 25 | 70,8 | 450 | 250 | ① |
| | | | VPVO-560-2D/2,2-6/30/AL | VPVO-560-2D/2,2/6/30/PAG | 2,2 | 2880 | 6 | 30 | 72,8 | 450 | 250 | ② |
| | | | VPVO-560-2D/3-8/30/AL | VPVO-560-2D/3-8/30/PAG | 3 | 2880 | 8 | 30 | 82,4 | 450 (550*) | 250 | ③ |
| | | | VPVO-560-2D/4-8/35/AL | VPVO-560-2D/4-8/35/PAG | 4 | 2880 | 8 | 35 | 92,5 | 550 | 250 | ④ |
| | | | VPVO-560-2D/5,5-8/40/AL | VPVO-560-2D/5,5-8/40/PAG | 5,5 | 2880 | 8 | 40 | 113,9 | 550 | 250 | ⑤ |
| | | | VPVO-560-2D/7,5-8/45/AL | VPVO-560-2D/7,5-8/45/PAG | 7,5 | 2880 | 8 | 45 | 117,9 | 550 (650) | 250 (300*) | ⑥ |
| **VPVO-560-4D** | | | | | | | | | | | | |
| **560** | 4 | 3~400 | VPVO-560-4D/0,25-6/25/AL | VPVO-560-4D/0,25-6/25/PAG | 0,25 | 1440 | 6 | 25 | 61,5 | 350 | 175 | ① |
| | | | VPVO-560-4D/0,37-6/30/AL | VPVO-560-4D/0,37-6/30/PAG | 0,37 | 1440 | 6 | 30 | 61,7 | 350 | 175 | ② |
| | | | VPVO-560-4D/0,55-6/35/AL | VPVO-560-4D/0,55-6/35/PAG | 0,55 | 1440 | 6 | 35 | 64,8 | 350 (450*) | 175 (250*) | ③ |
| | | | VPVO-560-4D/0,55-6/40/AL | VPVO-560-4D/0,55-6/40/PAG | 0,55 | 1440 | 6 | 40 | 64,8 | 350 (450*) | 175 (250*) | ④ |
| | | | VPVO-560-4D/0,75-6/45/AL | VPVO-560-4D/0,75-6/45/PAG | 0,75 | 1440 | 6 | 45 | 65,6 | 450 | 250 | ⑤ |
| | | | VPVO-560-4D/1,1-8/45/AL | VPVO-560-4D/1,1-8/45/PAG | 1,1 | 1440 | 8 | 45 | 71,4 | 450 | 250 | ⑥ |

*With IE3 energy efficiency motor

## STANDARD SIZE: 560

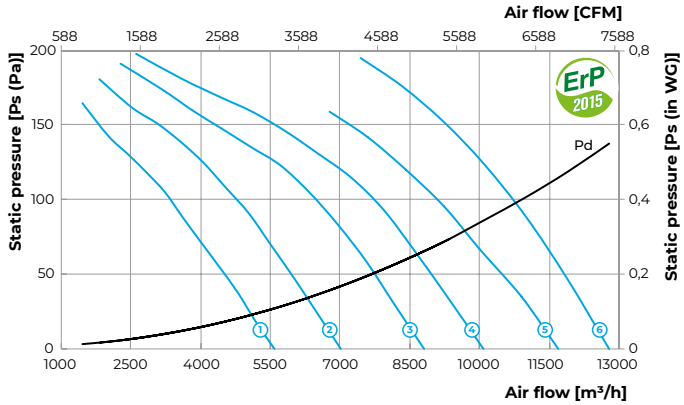
Number of poles: 2

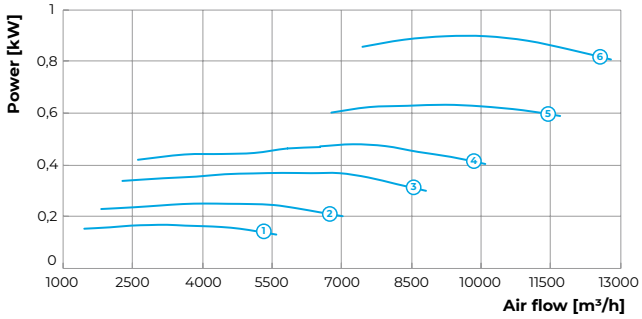



## STANDARD SIZE: 560

Number of poles: 4



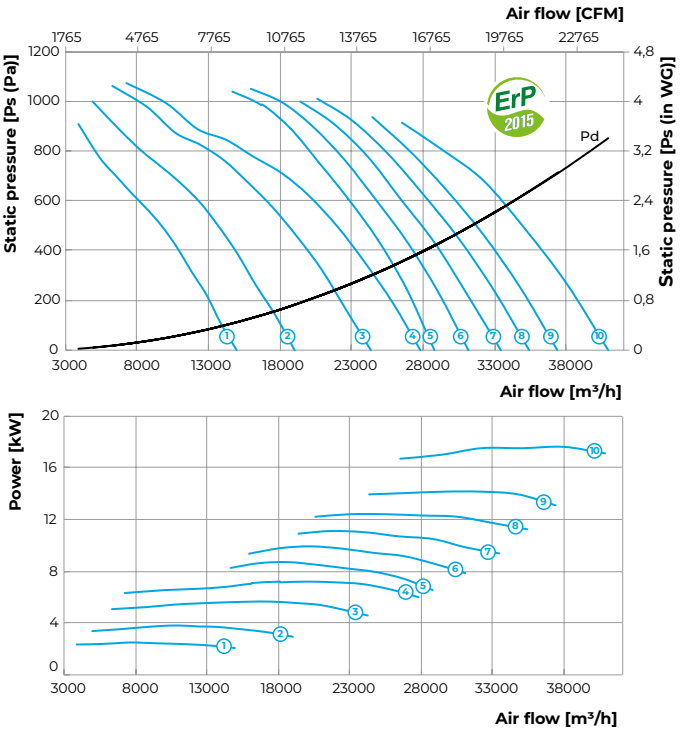



| Size | Number of poles | Voltage [V/50 Hz] | Fan model with aluminum impeller (AL) | Fan model with fiberglass reinforced polyamide (PAG) impeller | Installed motor power Ny [kW] | RPM [min⁻¹] | Number of blades | Blade setting angle [°] | Weight [kg] | Casing length [mm] | | Curve number on graph |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | L1 | L2 | |
| **VPVO-630-2D** | | | | | | | | | | | | |
| **630** | 2 | 3~400 | VPVO-630-2D/3-8/25/AL | VPVO-630-2D/3-8/25/PAG | 3 | 2880 | 8 | 25 | 88 | 450 (550*) | 250 | 1 |
| | | | VPVO-630-2D/4-8/30/AL | VPVO-630-2D/4-8/30/PAG | 4 | 2880 | 8 | 30 | 98,1 | 550 | 250 | 2 |
| | | | VPVO-630-2D/5,5-8/35/AL | VPVO-630-2D/5,5-8/35/PAG | 5,5 | 2880 | 8 | 35 | 119,5 | 550 | 250 | 3 |
| | | | VPVO-630-2D/7,5-8/40/AL | VPVO-630-2D/7,5-8/40/PAG | 7,5 | 2880 | 8 | 40 | 123,5 | 550 (650*) | 250 (300*) | 4 |
| | | | VPVO-630-2D/9,2-6/30/AL | VPVO-630-2D/9,2-6/30/PAG | 9,2 | 2880 | 6 | 30 | 130,1 | 650 | 350 | 5 |
| | | | VPVO-630-2D/11-6/32,5/AL | VPVO-630-2D/11-6/32,5/PAG | 11 | 2880 | 6 | 32,5 | 154,1 | 650 (750*) | 350 (400*) | 6 |
| | | | VPVO-630-2D/11-6/35/AL | VPVO-630-2D/11-6/35/PAG | 11 | 2880 | 6 | 35 | 154,1 | 650 (750*) | 350 (400*) | 7 |
| | | | VPVO-630-2D/15-6/37,5/AL | VPVO-630-2D/15-6/37,5/PAG | 15 | 2880 | 6 | 37,5 | 166,7 | 750 | 400 | 8 |
| | | | VPVO-630-2D/15-6/40/AL | VPVO-630-2D/15-6/40/PAG | 15 | 2880 | 6 | 40 | 166,7 | 750 | 400 | 9 |
| | | | VPVO-630-2D/18,5-6/45/AL | VPVO-630-2D/18,5-6/45/PAG | 18,5 | 2880 | 6 | 45 | 179,8 | 750 | 400 | 10 |
| **VPVO-630-4D** | | | | | | | | | | | | |
| **630** | 4 | 3~400 | VPVO-630-4D/0,37-8/25/AL | VPVO-630-4D/0,37-8/25/PAG | 0,37 | 1440 | 8 | 25 | 67,9 | 350 | 175 | 1 |
| | | | VPVO-630-4D/0,55-8/30/AL | VPVO-630-4D/0,55-8/30/PAG | 0,55 | 1440 | 8 | 30 | 71 | 350 (450*) | 175 (250*) | 2 |
| | | | VPVO-630-4D/0,75-8/35/AL | VPVO-630-4D/0,75-8/35/PAG | 0,75 | 1440 | 8 | 35 | 71,8 | 450 | 250 | 3 |
| | | | VPVO-630-4D/1,1-8/40/AL | VPVO-630-4D/1,1-8/40/PAG | 1,1 | 1440 | 8 | 40 | 77 | 450 | 250 | 4 |
| | | | VPVO-630-4D/1,5-6/32,5/AL | VPVO-630-4D/1,5-6/32,5/PAG | 1,5 | 1440 | 6 | 32,5 | 81,1 | 450 | 250 | 5 |
| | | | VPVO-630-4D/1,5-8/45/AL | VPVO-630-4D/1,5-8/45/PAG | 1,5 | 1440 | 8 | 45 | 80 | 450 | 250 | 6 |
| | | | VPVO-630-4D/1,5-6/37,5/AL | VPVO-630-4D/1,5-6/37,5/PAG | 1,5 | 1440 | 6 | 37,5 | 81,1 | 450 | 250 | 7 |
| | | | VPVO-630-4D/2,2-6/40/AL | VPVO-630-4D/2,2-6/40/PAG | 2,2 | 1440 | 6 | 40 | 83,2 | 450 (550*) | 250 (300*) | 8 |
| | | | VPVO-630-4D/2,2-6/45/AL | VPVO-630-4D/2,2-6/45/PAG | 2,2 | 1440 | 6 | 45 | 83,2 | 450 (550*) | 250 (300*) | 9 |

*With IE3 energy efficiency motor

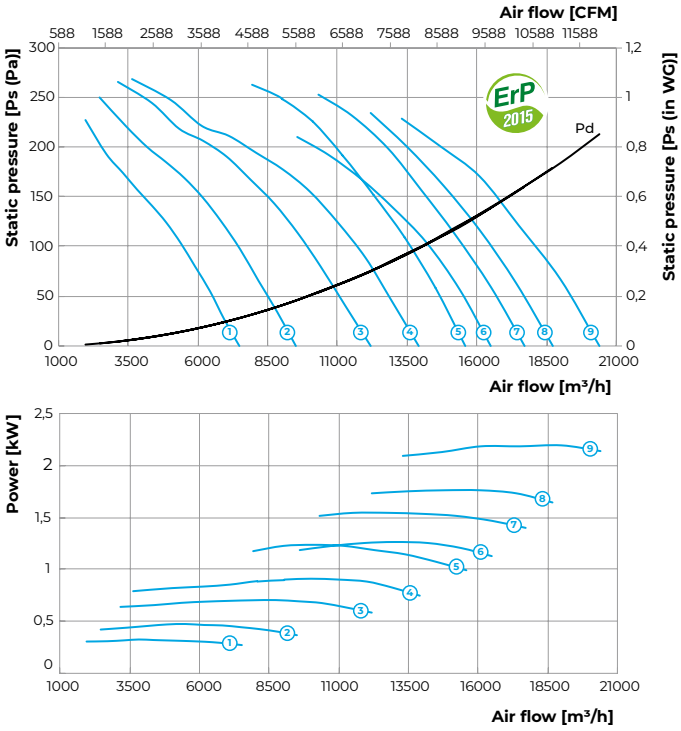
## STANDARD SIZE: 630

Number of poles: 2




## STANDARD SIZE: 630

Number of poles: 4

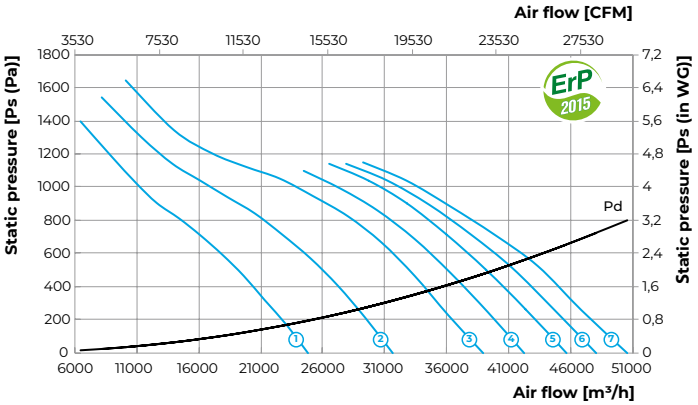


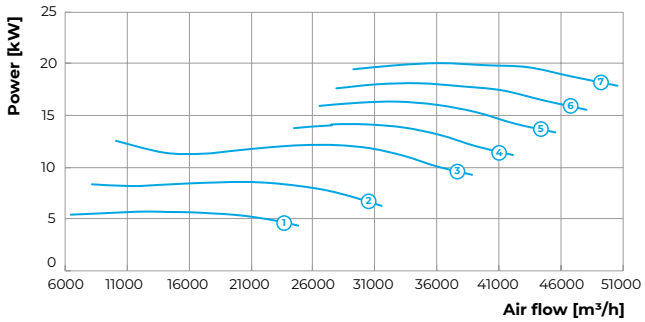
| Size | Number of poles | Voltage [V/50 Hz] | Fan model with aluminum impeller (AL) | Fan model with fiberglass reinforced polyamide (PAG) impeller | Installed motor power Ny [kW] | RPM [min⁻¹] | Number of blades | Blade setting angle [°] | Weight [kg] | Casing length [mm] | | Curve number on graph |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | L1 | L2 | |
| **VPVO-710-2D** | | | | | | | | | | | | |
| **710** | 2 | 3~400 | VPVO-710-2D/7,5-6/20/AL | VPVO-710-2D/7,5-6/20/PAG | 7,5 | 2880 | 6 | 20 | 150,8 | 550 (650*) | 300 (350*) | ① |
| | | | VPVO-710-2D/9,2-6/25/AL | VPVO-710-2D/9,2-6/25/PAG | 9,2 | 2880 | 6 | 25 | 156,3 | 650 | 350 | ② |
| | | | VPVO-710-2D/15-6/30/AL | VPVO-710-2D/15-6/30/PAG | 15 | 2880 | 6 | 30 | 192,9 | 750 | 450 | ③ |
| | | | VPVO-710-2D/15-6/32,5/AL | VPVO-710-2D/15-6/32,5/PAG | 15 | 2880 | 6 | 32,5 | 192,9 | 750 | 450 | ④ |
| | | | VPVO-710-2D/18,5-6/35/AL | VPVO-710-2D/18,5-6/35/PAG | 18,5 | 2880 | 6 | 35 | 206 | 750 | 450 | ⑤ |
| | | | VPVO-710-2D/18,5-6/37,5/AL | VPVO-710-2D/18,5-6/37,5/PAG | 18,5 | 2880 | 6 | 37,5 | 206 | 750 | 450 | ⑥ |
| | | | VPVO-710-2D/22-6/40/AL | VPVO-710-2D/22-6/40/PAG | 22 | 2880 | 6 | 40 | 246 | 850 | 450 | ⑦ |
| **VPVO-710-4D** | | | | | | | | | | | | |
| **710** | 4 | 3~400 | VPVO-710-4D/0,75-6/20/AL | VPVO-710-4D/0,75-6/20/PAG | 0,75 | 1440 | 6 | 20 | 99,1 | 450 | 250 | ① |
| | | | VPVO-710-4D/1,1-6/25/AL | VPVO-710-4D/1,1-6/25/PAG | 1,1 | 1440 | 6 | 25 | 104,3 | 450 | 250 | ② |
| | | | VPVO-710-4D/1,5-6/30/AL | VPVO-710-4D/1,5-6/30/PAG | 1,5 | 1440 | 6 | 30 | 107,3 | 450 | 250 | ③ |
| | | | VPVO-710-4D/2,2-6/32,5/AL | VPVO-710-4D/2,2-6/32,5/PAG | 2,2 | 1440 | 6 | 32,5 | 109,4 | 450 (550*) | 250 (300*) | ④ |
| | | | VPVO-710-4D/2,2-6/35/AL | VPVO-710-4D/2,2-6/35/PAG | 2,2 | 1440 | 6 | 35 | 109,4 | 450 (550*) | 250 (300*) | ⑤ |
| | | | VPVO-710-4D/2,2-6/37,5/AL | VPVO-710-4D/2,2-6/37,5/PAG | 2,2 | 1440 | 6 | 37,5 | 109,4 | 450 (550*) | 250 (300*) | ⑥ |
| | | | VPVO-710-4D/3-6/40/AL | VPVO-710-4D/3-6/40/PAG | 3 | 1440 | 6 | 40 | 118,3 | 500 | 300 | ⑦ |
| | | | VPVO-710-4D/4-6/45/AL | VPVO-710-4D/4-6/45/PAG | 4 | 1440 | 6 | 45 | 129,4 | 500 | 300 | ⑧ |

*With IE3 energy efficiency motor

## STANDARD SIZE: 710

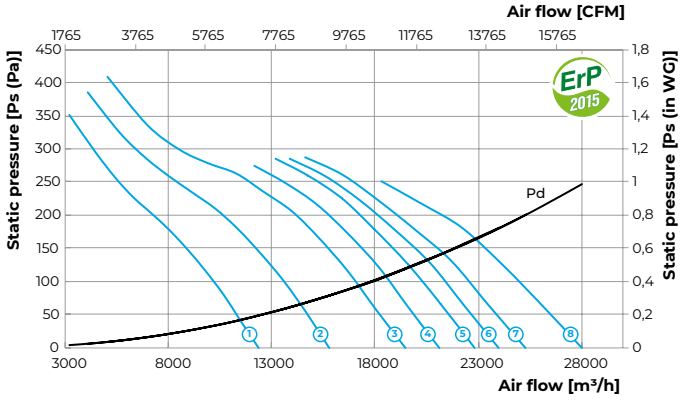
Number of poles: 2

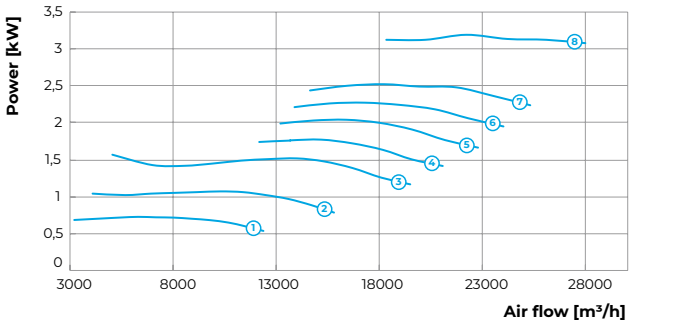



## STANDARD SIZE: 710

Number of poles: 4



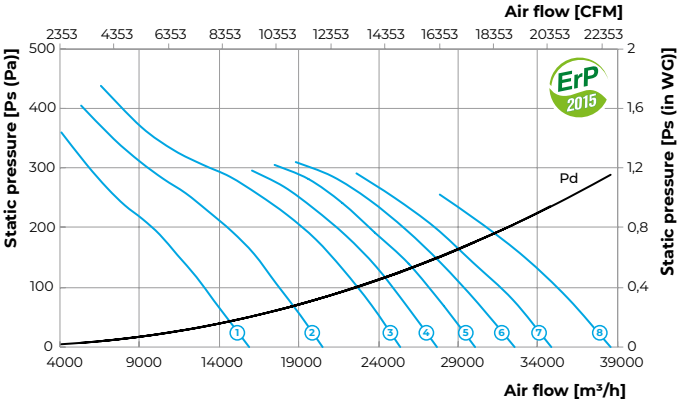



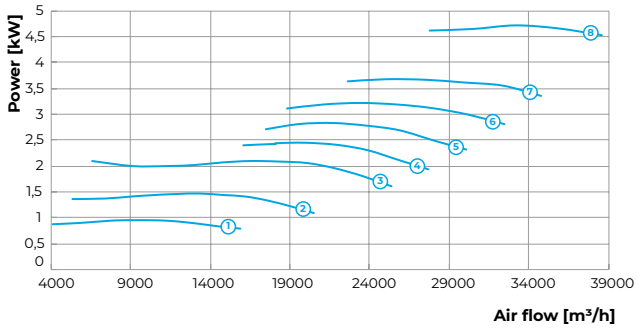
| Size | Number of poles | Voltage [V/50 Hz] | Fan model with aluminum impeller (AL) | Fan model with fiberglass reinforced polyamide (PAG) impeller | Installed motor power Ny [kW] | RPM [min⁻¹] | Number of blades | Blade setting angle [°] | Weight [kg] | Casing length [mm] | | Curve number on graph |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | L1 | L2 | |
| **VPVO-800-4D** | | | | | | | | | | | | |
| **800** | 4 | 3~400 | VPVO-800-4D/1,1-6/20/AL | VPVO-800-4D/1,1-6/20/PAG | 1,1 | 1440 | 6 | 20 | 115,6 | 450 | 250 | ① |
| | | | VPVO-800-4D/1,5-6/25/AL | VPVO-800-4D/1,5-6/25/PAG | 1,5 | 1440 | 6 | 25 | 118,6 | 450 | 250 | ② |
| | | | VPVO-800-4D/2,2-6/30/AL | VPVO-800-4D/2,2-6/30/PAG | 2,2 | 1440 | 6 | 30 | 120,7 | 450 (550*) | 250 (300*) | ③ |
| | | | VPVO-800-4D/3-6/32,5/AL | VPVO-800-4D/3-6/32,5/PAG | 3 | 1440 | 6 | 32,5 | 129,6 | 550 | 300 | ④ |
| | | | VPVO-800-4D/3-6/35/AL | VPVO-800-4D/3-6/35/PAG | 3 | 1440 | 6 | 35 | 129,6 | 550 | 300 | ⑤ |
| | | | VPVO-800-4D/4-6/37,5/AL | VPVO-800-4D/4-6/37,5/PAG | 4 | 1440 | 6 | 37,5 | 140,7 | 550 | 300 | ⑥ |
| | | | VPVO-800-4D/4-6/40/AL | VPVO-800-4D/4-6/40/PAG | 4 | 1440 | 6 | 40 | 140,7 | 550 | 300 | ⑦ |
| | | | VPVO-800-4D/5,5-6/45/AL | VPVO-800-4D/5,5-6/45/PAG | 5,5 | 1440 | 6 | 45 | 157,6 | 550 | 300 | ⑧ |
| **VPVO-800-6D** | | | | | | | | | | | | |
| **800** | 6 | 3~400 | VPVO-800-6D/0,37-6/20/AL | VPVO-800-6D/0,37-6/20/PAG | 0,37 | 960 | 6 | 20 | 109,6 | 450 | 250 | ① |
| | | | VPVO-800-6D/0,55-6/25/AL | VPVO-800-6D/0,55-6/25/PAG | 0,55 | 960 | 6 | 25 | 111,1 | 450 | 250 | ② |
| | | | VPVO-800-6D/0,75-6/30/AL | VPVO-800-6D/0,75-6/30/PAG | 0,75 | 960 | 6 | 30 | 116,4 | 450 | 250 | ③ |
| | | | VPVO-800-6D/0,75-6/32,5/AL | VPVO-800-6D/0,75-6/32,5/PAG | 0,75 | 960 | 6 | 32,5 | 116,4 | 450 | 250 | ④ |
| | | | VPVO-800-6D/1,1-6/35/AL | VPVO-800-6D/1,1-6/35/PAG | 1,1 | 960 | 6 | 35 | 116,5 | 450 | 250 | ⑤ |
| | | | VPVO-800-6D/1,1-6/37,5/AL | VPVO-800-6D/1,1-6/37,5/PAG | 1,1 | 960 | 6 | 37,5 | 116,5 | 450 | 250 | ⑥ |
| | | | VPVO-800-6D/1,1-6/40/AL | VPVO-800-6D/1,1-6/40/PAG | 1,1 | 960 | 6 | 40 | 116,5 | 450 | 250 | ⑦ |
| | | | VPVO-800-6D/1,5-6/45/AL | VPVO-800-6D/1,5-6/45/PAG | 1,5 | 960 | 6 | 45 | 124,6 | 550 | 300 | ⑧ |

*With IE3 energy efficiency motor

## STANDARD SIZE: 800

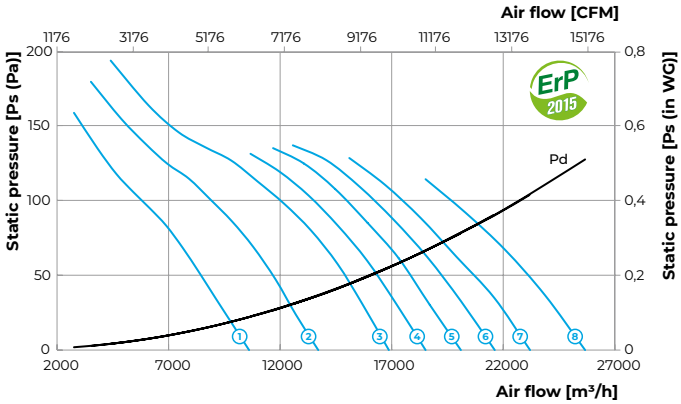
Number of poles: 4

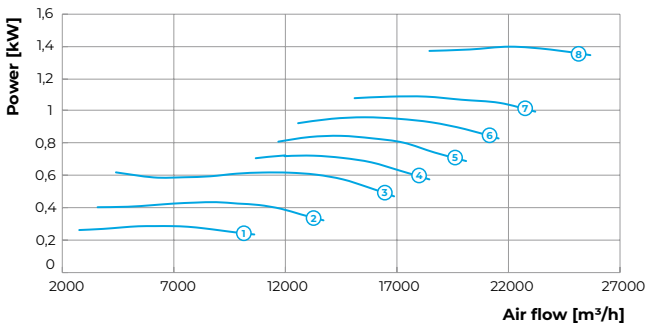



## STANDARD SIZE: 800

Number of poles: 6

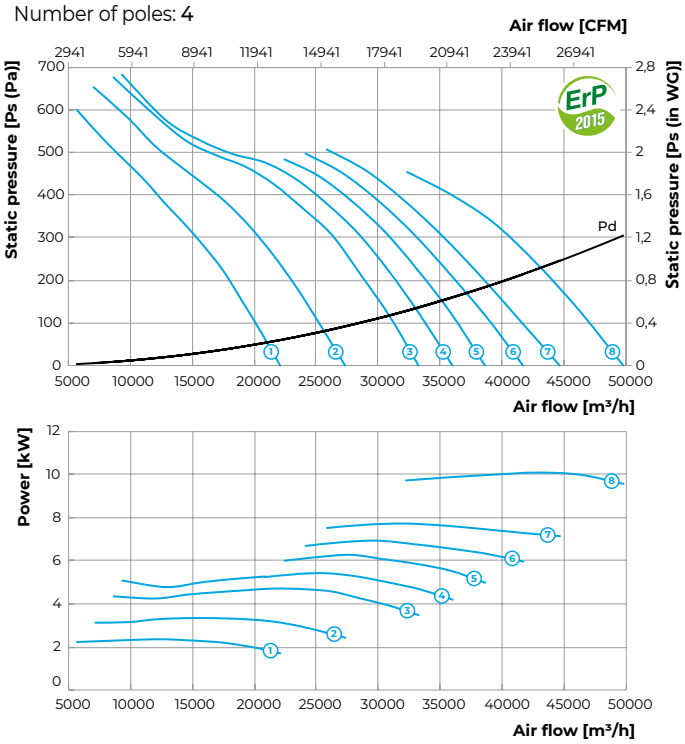


| Size | Number of poles | Voltage [V/50 Hz] | Fan model with aluminum impeller (AL) | Fan model with fiberglass reinforced polyamide (PAG) impeller | Installed motor power Ny [kW] | RPM [min⁻¹] | Number of blades | Blade setting angle [°] | Weight [kg] | Casing length [mm] | | Curve number on graph |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | L1 | L2 | |
| **VPVO-900-4D** | | | | | | | | | | | | |
| **900** | 4 | 3~400 | VPVO-900-4D/3-8/20/AL | VPVO-900-4D/3-8/20/PAG | 3 | 1440 | 8 | 20 | 134,8 | 550 | 300 | ① |
| | | | VPVO-900-4D/4-8/25/AL | VPVO-900-4D/4-8/25/PAG | 4 | 1440 | 8 | 25 | 145,9 | 550 | 300 | ② |
| | | | VPVO-900-4D/5,5-8/30/AL | VPVO-900-4D/5,5-8/30/PAG | 5,5 | 1440 | 8 | 30 | 162,8 | 550 | 300 | ③ |
| | | | VPVO-900-4D/5,5-8/32,5/AL | VPVO-900-4D/5,5-8/32,5/PAG | 5,5 | 1440 | 8 | 32,5 | 162,8 | 550 | 300 | ④ |
| | | | VPVO-900-4D/7,5-8/35/AL | VPVO-900-4D/7,5-8/35/PAG | 7,5 | 1440 | 8 | 35 | 165,3 | 650 | 350 | ⑤ |
| | | | VPVO-900-4D/7,5-8/37,5/AL | VPVO-900-4D/7,5-8/37,5/PAG | 7,5 | 1440 | 8 | 37,5 | 165,3 | 650 | 350 | ⑥ |
| | | | VPVO-900-4D/7,5-8/40/AL | VPVO-900-4D/7,5-8/40/PAG | 7,5 | 1440 | 8 | 40 | 165,3 | 650 | 350 | ⑦ |
| | | | VPVO-900-4D/11-8/45/AL | VPVO-900-4D/11-8/45/PAG | 11 | 1440 | 8 | 45 | 199,6 | 750 | 450 | ⑧ |
| **VPVO-900-6D** | | | | | | | | | | | | |
| **900** | 6 | 3~400 | VPVO-900-6D/0,75-8/20/AL | VPVO-900-6D/0,75-8/20/PAG | 0,75 | 960 | 8 | 20 | 121,6 | 450 | 250 | ① |
| | | | VPVO-900-6D/1,1-8/25/AL | VPVO-900-6D/1,1-8/25/PAG | 1,1 | 960 | 8 | 25 | 121,7 | 450 | 250 | ② |
| | | | VPVO-900-6D/1,5-8/30/AL | VPVO-900-6D/1,5-8/30/PAG | 1,5 | 960 | 8 | 30 | 129,8 | 550 | 300 | ③ |
| | | | VPVO-900-6D/1,5-8/32,5/AL | VPVO-900-6D/1,5-8/32,5/PAG | 1,5 | 960 | 8 | 32,5 | 129,8 | 550 | 300 | ④ |
| | | | VPVO-900-6D/2,2-8/35/AL | VPVO-900-6D/2,2-8/35/PAG | 2,2 | 960 | 8 | 35 | 135,3 | 550 | 300 | ⑤ |
| | | | VPVO-900-6D/2,2-8/37,5/AL | VPVO-900-6D/2,2-8/37,5/PAG | 2,2 | 960 | 8 | 37,5 | 135,3 | 550 | 300 | ⑥ |
| | | | VPVO-900-6D/2,2-8/40/AL | VPVO-900-6D/2,2-8/40/PAG | 2,2 | 960 | 8 | 40 | 135,3 | 550 | 300 | ⑦ |
| | | | VPVO-900-6D/3-8/45/AL | VPVO-900-6D/3-8/45/PAG | 3 | 960 | 8 | 45 | 155,8 | 650 | 350 | ⑧ |

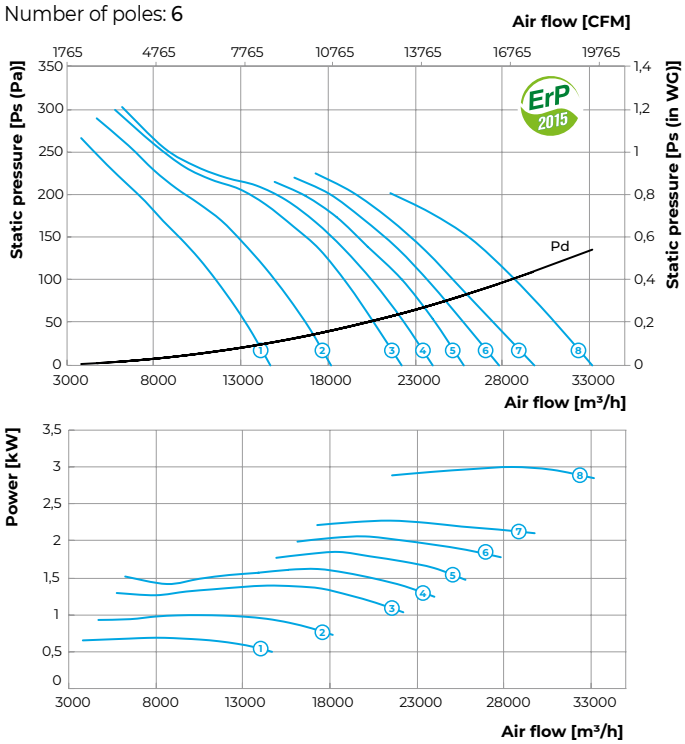
## STANDARD SIZE: 900

Number of poles: 4




## STANDARD SIZE: 900

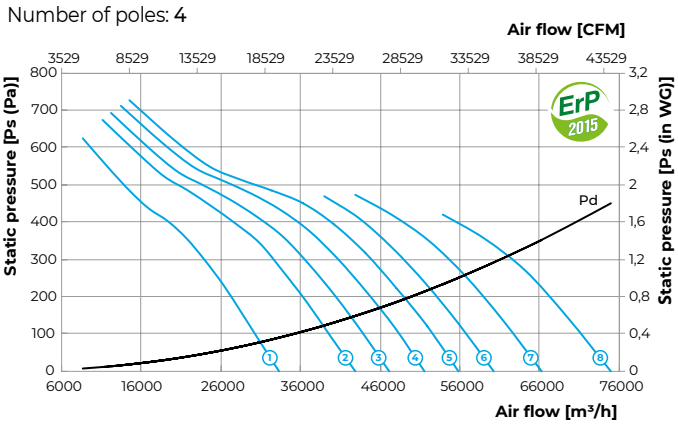
Number of poles: 6

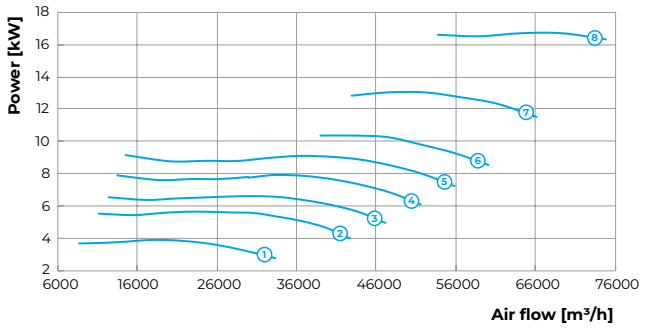


| Size | Number of poles | Voltage [V/50 Hz] | Fan model with aluminum impeller (AL) | Fan model with fiberglass reinforced polyamide (PAG) impeller | Installed motor power Ny [kW] | RPM [min⁻¹] | Number of blades | Blade setting angle [°] | Weight [kg] | Casing length [mm] | | Curve number on graph |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | L1 | L2 | |
| **VPVO-1000-4D** | | | | | | | | | | | | |
| **1000** | 4 | 3~400 | VPVO-1000-4D/5,5-8/25/AL | VPVO-1000-4D/5,5-8/25/PAG | 5,5 | 1440 | 8 | 25 | 200,5 | 550 | 300 | ① |
| | | | VPVO-1000-4D/7,5-8/30/AL | VPVO-1000-4D/7,5-8/30/PAG | 7,5 | 1440 | 8 | 30 | 203 | 650 | 350 | ② |
| | | | VPVO-1000-4D/7,5-8/32,5/AL | VPVO-1000-4D/7,5-8/32,5/PAG | 7,5 | 1440 | 8 | 32,5 | 203 | 650 | 350 | ③ |
| | | | VPVO-1000-4D/9,2-8/35/AL | VPVO-1000-4D/9,2-8/35/PAG | 9,2 | 1440 | 8 | 35 | 233,5 | 650 | 350 | ④ |
| | | | VPVO-1000-4D/11-8/37,5/AL | VPVO-1000-4D/11-8/37,5/PAG | 11 | 1440 | 8 | 37,5 | 237,3 | 800 | 450 | ⑤ |
| | | | VPVO-1000-4D/11-8/40/AL | VPVO-1000-4D/11-8/40/PAG | 11 | 1440 | 8 | 40 | 237,3 | 800 | 450 | ⑥ |
| | | | VPVO-1000-4D/15-8/45/AL | VPVO-1000-4D/15-8/45/PAG | 15 | 1440 | 8 | 45 | 256,4 | 800 | 450 | ⑦ |
| | | | VPVO-1000-4D/18,5-8/50/AL | VPVO-1000-4D/18,5-8/50/PAG | 18,5 | 1440 | 8 | 50 | 301,9 | 900 | 500 | ⑧ |
| **VPVO-1000-6D** | | | | | | | | | | | | |
| **1000** | 6 | 3~400 | VPVO-1000-6D/1,5-8/25/AL | VPVO-1000-6D/1,5-8/25/PAG | 1,5 | 960 | 8 | 25 | 167,5 | 550 | 300 | ① |
| | | | VPVO-1000-6D/2,2-8/30/AL | VPVO-1000-6D/2,2-8/30/PAG | 2,2 | 960 | 8 | 30 | 173 | 550 | 300 | ② |
| | | | VPVO-1000-6D/2,2-8/32,5/AL | VPVO-1000-6D/2,2-8/32,5/PAG | 2,2 | 960 | 8 | 32,5 | 173 | 550 | 300 | ③ |
| | | | VPVO-1000-6D/3-8/35/AL | VPVO-1000-6D/3-8/35/PAG | 3 | 960 | 8 | 35 | 193,5 | 650 | 350 | ④ |
| | | | VPVO-1000-6D/3-8/37,5/AL | VPVO-1000-6D/3-8/37,5/PAG | 3 | 960 | 8 | 37,5 | 193,5 | 650 | 350 | ⑤ |
| | | | VPVO-1000-6D/4-8/40/AL | VPVO-1000-6D/4-8/40/PAG | 4 | 960 | 8 | 40 | 203,5 | 650 | 350 | ⑥ |
| | | | VPVO-1000-6D/5,5-8/45/AL | VPVO-1000-6D/5,5-8/45/PAG | 5,5 | 960 | 8 | 45 | 207,5 | 650 | 350 | ⑦ |
| | | | VPVO-1000-6D/5,5-8/50/AL | VPVO-1000-6D/5,5-8/50/PAG | 5,5 | 960 | 8 | 50 | 207,5 | 650 | 350 | ⑧ |

## STANDARD SIZE: 1000

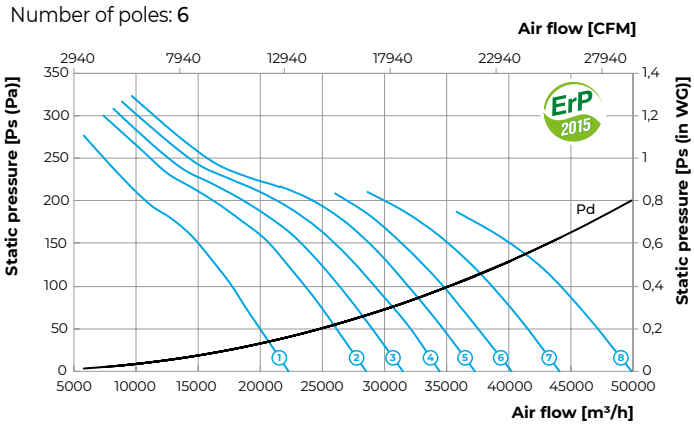
Number of poles: 4

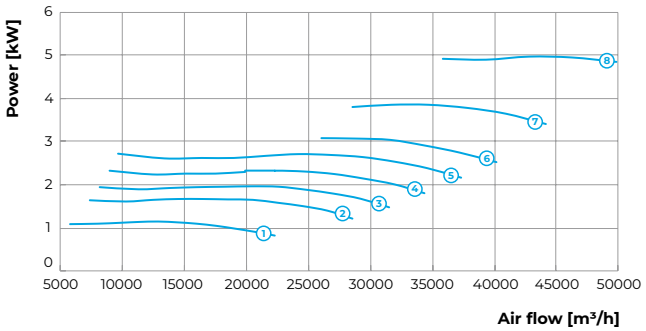



## STANDARD SIZE: 1000

Number of poles: 6

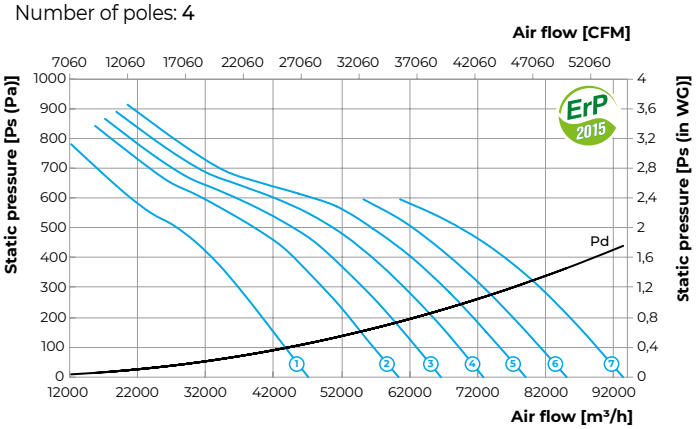


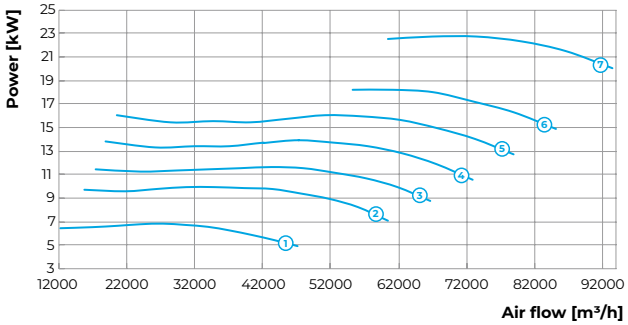



| Size | Number of poles | Voltage [V/50 Hz] | Fan model with aluminum impeller (AL) | Fan model with fiberglass reinforced polyamide (PAG) impeller | Installed motor power Ny [kW] | RPM [min⁻¹] | Number of blades | Blade setting angle [°] | Weight [kg] | Casing length [mm] | | Curve number on graph |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | L1 | L2 | |
| **VPVO-1120-4D** | | | | | | | | | | | | |
| **1120** | 4 | 3~400 | VPVO-1120-4D/7,5-8/25/AL | VPVO-1120-4D/7,5-8/25/PAG | 7,5 | 1440 | 8 | 25 | 222 | 650 | 350 | ① |
| | | | VPVO-1120-4D/11-8/30/AL | VPVO-1120-4D/11-8/30/PAG | 11 | 1440 | 8 | 30 | 256,3 | 800 | 450 | ② |
| | | | VPVO-1120-4D/11-8/32,5/AL | VPVO-1120-4D/11-8/32,5/PAG | 11 | 1440 | 8 | 32,5 | 256,3 | 800 | 450 | ③ |
| | | | VPVO-1120-4D/15-8/35/AL | VPVO-1120-4D/15-8/35/PAG | 15 | 1440 | 8 | 35 | 275,4 | 800 | 450 | ④ |
| | | | VPVO-1120-4D/18,5-8/37,5/AL | VPVO-1120-4D/18,5-8/37,5/PAG | 18,5 | 1440 | 8 | 37,5 | 320,9 | 900 | 500 | ⑤ |
| | | | VPVO-1120-4D/18,5-8/40/AL | VPVO-1120-4D/18,5-8/40/PAG | 18,5 | 1440 | 8 | 40 | 320,9 | 900 | 500 | ⑥ |
| | | | VPVO-1120-4D/22-8/45/AL | VPVO-1120-4D/22-8/45/PAG | 22 | 1440 | 8 | 45 | 334,2 | 900 | 500 | ⑦ |
| **VPVO-1120-6D** | | | | | | | | | | | | |
| **1120** | 6 | 3~400 | VPVO-1120-6D/2,2-8/25/AL | VPVO-1120-6D/2,2-8/25/PAG | 2,2 | 960 | 8 | 25 | 192 | 550 | 300 | ① |
| | | | VPVO-1120-6D/3-8/30/AL | VPVO-1120-6D/3-8/30/PAG | 3 | 960 | 8 | 30 | 212,5 | 650 | 350 | ② |
| | | | VPVO-1120-6D/4-8/32,5/AL | VPVO-1120-6D/4-8/32,5/PAG | 4 | 960 | 8 | 32,5 | 222,5 | 650 | 350 | ③ |
| | | | VPVO-1120-6D/4-8/35/AL | VPVO-1120-6D/4-8/35/PAG | 4 | 960 | 8 | 35 | 222,5 | 650 | 350 | ④ |
| | | | VPVO-1120-6D/5,5-8/37,5/AL | VPVO-1120-6D/5,5-8/37,5/PAG | 5,5 | 960 | 8 | 37,5 | 226,5 | 650 | 350 | ⑤ |
| | | | VPVO-1120-6D/5,5-8/40/AL | VPVO-1120-6D/5,5-8/40/PAG | 5,5 | 960 | 8 | 40 | 226,5 | 650 | 350 | ⑥ |
| | | | VPVO-1120-6D/7,5-8/45/AL | VPVO-1120-6D/7,5-8/45/PAG | 7,5 | 960 | 8 | 45 | 254,8 | 800 | 450 | ⑦ |
| | | | VPVO-1120-6D/9,2-8/50/AL | VPVO-1120-6D/9,2-8/50/PAG | 9,2 | 960 | 8 | 50 | 272,5 | 800 | 450 | ⑧ |

## STANDARD SIZE: 1120

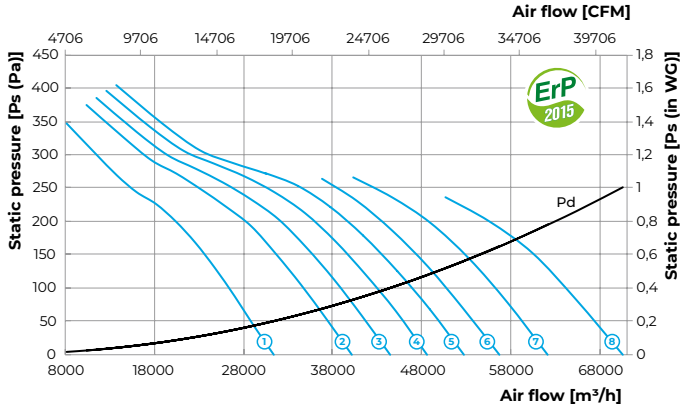
Number of poles: 4

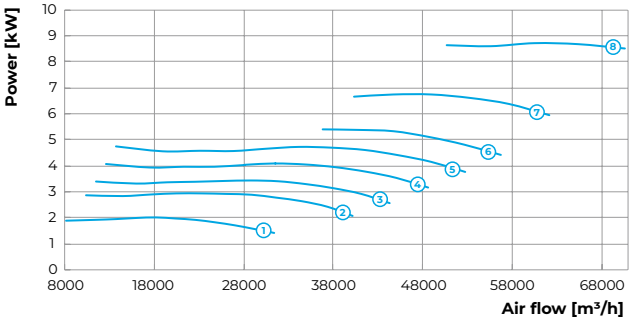



## STANDARD SIZE: 1120

Number of poles: 6

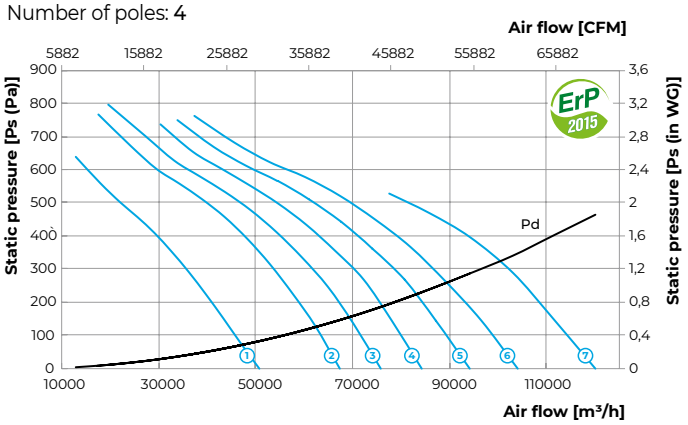


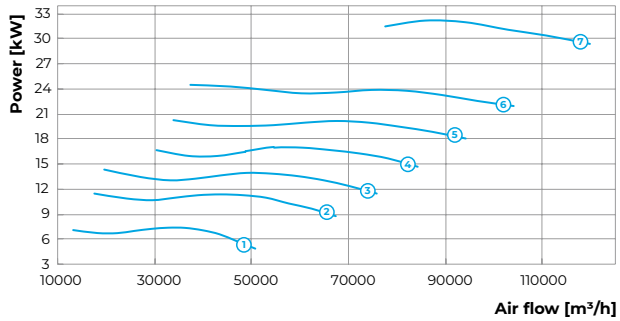



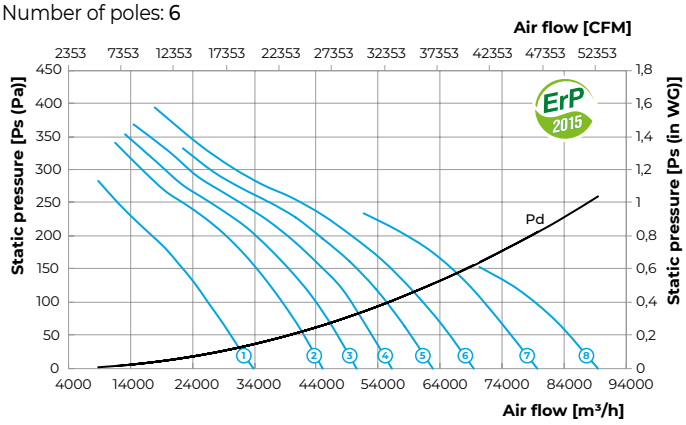
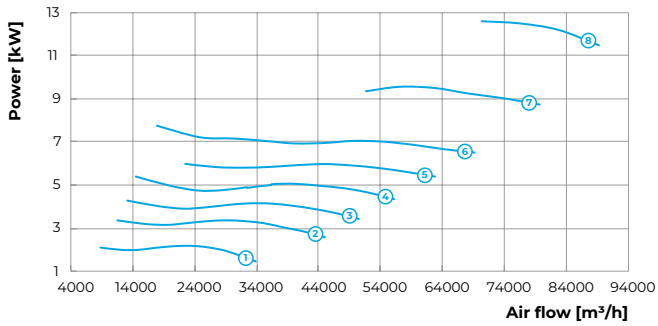
| Size | Number of poles | Voltage [V/50 Hz] | Fan model with aluminum impeller (AL) | Fan model with fiberglass reinforced polyamide (PAG) impeller | Installed motor power Ny [kW] | RPM [min⁻¹] | Number of blades | Blade setting angle [°] | Weight [kg] | Casing length [mm] | | Curve number on graph |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | L1 | L2 | |
| **VPVO-1250-4D** | | | | | | | | | | | | |
| **1250** | 4 | 3~400 | VPVO-1250-4D/7,5-8/25/AL | VPVO-1250-4D/7,5-8/25/PAG | 7,5 | 1440 | 8 | 25 | 241 | 650 | 350 | ① |
| | | | VPVO-1250-4D/11-8/30/AL | VPVO-1250-4D/11-8/30/PAG | 11 | 1440 | 8 | 30 | 275,3 | 800 | 450 | ② |
| | | | VPVO-1250-4D/15-8/32,5/AL | VPVO-1250-4D/15-8/32,5/PAG | 15 | 1440 | 8 | 32,5 | 294,4 | 800 | 450 | ③ |
| | | | VPVO-1250-4D/15-8/35/AL | VPVO-1250-4D/15-8/35/PAG | 15 | 1440 | 8 | 35 | 294,4 | 800 | 450 | ④ |
| | | | VPVO-1250-4D/18,5-8/37,5/AL | VPVO-1250-4D/18,5-8/37,5/PAG | 18,5 | 1440 | 8 | 37,5 | 339,9 | 900 | 500 | ⑤ |
| | | | VPVO-1250-4D/22-8/40/AL | VPVO-1250-4D/22-8/40/PAG | 22 | 1440 | 8 | 40 | 353,2 | 900 | 500 | ⑥ |
| | | | VPVO-1250-4D/30-8/45/AL | VPVO-1250-4D/30-8/45/PAG | 30 | 1440 | 8 | 45 | 416,2 | 900 | 500 | ⑦ |
| **VPVO-1250-6D** | | | | | | | | | | | | |
| **1250** | 6 | 3~400 | VPVO-1250-6D/2,2-8/25/AL | VPVO-1250-6D/2,2-8/25/PAG | 2,2 | 960 | 8 | 25 | 211 | 550 | 300 | ① |
| | | | VPVO-1250-6D/3-8/30/AL | VPVO-1250-6D/3-8/30/PAG | 3 | 960 | 8 | 30 | 231,5 | 650 | 350 | ② |
| | | | VPVO-1250-6D/4-8/32,5/AL | VPVO-1250-6D/4-8/32,5/PAG | 4 | 960 | 8 | 32,5 | 241,5 | 650 | 350 | ③ |
| | | | VPVO-1250-6D/5,5-8/35/AL | VPVO-1250-6D/5,5-8/35/PAG | 5,5 | 960 | 8 | 35 | 245,5 | 650 | 350 | ④ |
| | | | VPVO-1250-6D/5,5-8/37,5/AL | VPVO-1250-6D/5,5-8/37,5/PAG | 5,5 | 960 | 8 | 37,5 | 245,5 | 650 | 350 | ⑤ |
| | | | VPVO-1250-6D/7,5-8/40/AL | VPVO-1250-6D/7,5-8/40/PAG | 7,5 | 960 | 8 | 40 | 273,8 | 800 | 450 | ⑥ |
| | | | VPVO-1250-6D/9,2-8/45/AL | VPVO-1250-6D/9,2-8/45/PAG | 9,2 | 960 | 8 | 45 | 291,5 | 800 | 450 | ⑦ |
| | | | VPVO-1250-6D/11-8/50/AL | VPVO-1250-6D/11-8/50/PAG | 11 | 960 | 8 | 50 | 299,3 | 800 | 450 | ⑧ |

## STANDARD SIZE: 1250

Number of poles: 4




## STANDARD SIZE: 1250

Number of poles: 6