

SMOKE VENTILATION

NEW



AXIS-P
pressure axial fans



BLAUBERG
Ventilatoren



Axis-P series



Medium pressure axial fans with air capacity up to 41,000 m³/h

■ Purpose

The fans are used for air pressurisation in smoke extraction ventilation systems (up to 55 °C). Creating a positive air pressure differential in stairway enclosures, airlock vestibules and lift shafts helps prevent spreading of smoke and protect the people using evacuation routes from fire hazards. The fans are intended for general ventilation in systems with high air flow rate. The units are suitable for industrial, public, residential, administrative and other spaces.

■ 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.

■ Motor

The fans are equipped with three-phase (400 V/50 Hz) single-speed 2 or 4 pole electric motors.

■ Impeller

Depending on the size and the required air capacity the fans are equipped with impellers with 6, 8, 10 or 12 blades angled from 25° to 50° with 5° stepping 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:

- PP - fiberglass reinforced polypropylene;
- PA - 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-Axis-P 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

Motor Impeller Modification
Axis-P - 400 - 4 D / 0,18 - 6 / 40 / AL - U - 1 - K

Axis-P — axial pressurisation fan

Standard size: 400; 450; 500; 560; 630

Number of motor poles: 2; 4

Motor phases: E — single-phase; D — three-phase

Motor power [kW] (0,18; 0,25; 0,37; 0,55; 0,75; 1,1; 1,5; 2,2; 3,0; 4,0; 5,5; 7,5; 9,2; 11; 15; 17,5)

Number of impeller blades [items] (6; 8; 10; 12)

Blade setting angle [°] (25; 30; 35; 40; 45; 50)

Blade material:

PP — fiberglass reinforced polypropylene

PA — fiberglass reinforced polyamide

AL — aluminium

Climatic category:

MC — moderate climate

FC — frigid climate

HMC — humid microthermal climate

TC — tropical climate

MC — marine climate

C — common

CM — common marine

_ — universal climatic modification

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

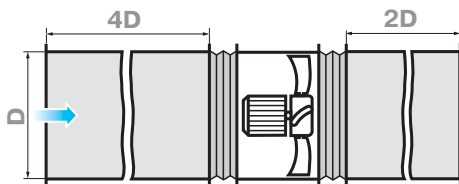
4 — in closed rooms with artificial climate control (ventilation, heating)

5 — in rooms with high levels of humidity, without artificial climate control

Terminal box: K

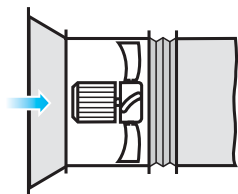
Fan installation into an air duct system:

To ensure a uniform air flow the fan should be preceded by a straight duct section with a cross-section area equal to half of that of the fan. The length of the duct section should be $3 \div 4 D$ (where D is the inner diameter of the fan). The length of the straight duct section downstream of the fan should be $1.5 \div 2 D$. Reduction of the recommended duct length values results in a drop of the fan pressure and performance. To reduce noise and vibration use the EVAF flexible joints.



Fan installation with no upstream ducting:

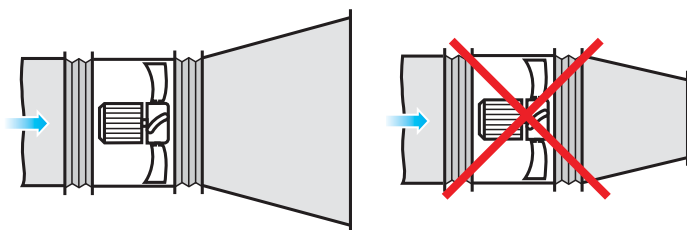
Axial fans without upstream ducting must be equipped with the VK-Axis-P inlet cone to improve the air flow parameters.



Fan installation with no downstream ducting:

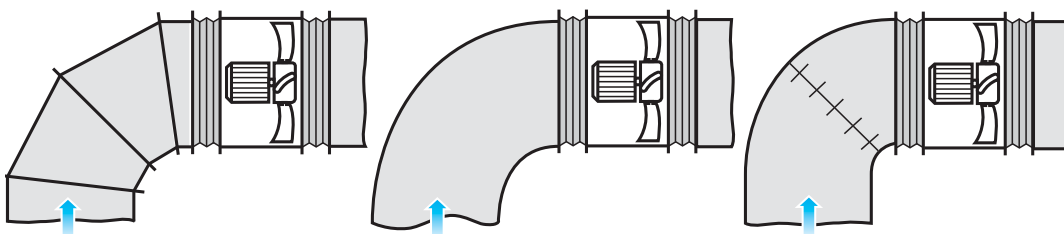
If the axial fan is the terminal device of the ventilation system (i.e. there is no downstream ducting) the unit must be equipped with a diffuser to reduce the air flow velocity and the fan dynamic pressure. Reduction of the air discharge velocity results in a significant reduction of shock losses which are proportional to the square of velocity decrement.

The fan should not be equipped with a downstream contractor.



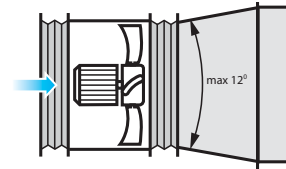
Installation near bends:

To install the fan directly downstream of a bend (elbow) use a curved section with a large bending radius or an array of internal guide vanes.



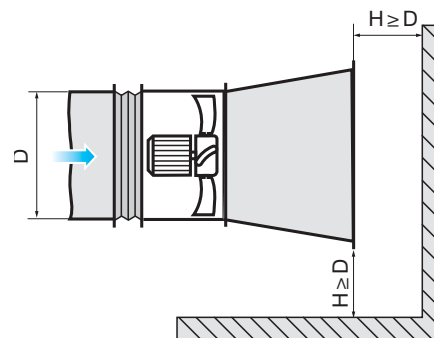
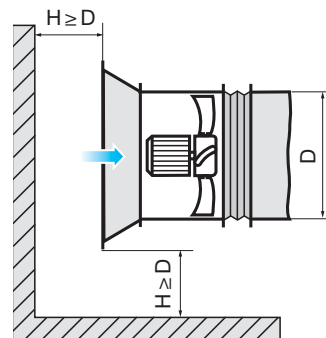
Changing diameter installation:

When changing from a smaller diameter to a larger one use a connector diffuser with the maximum opening angle of 12° .



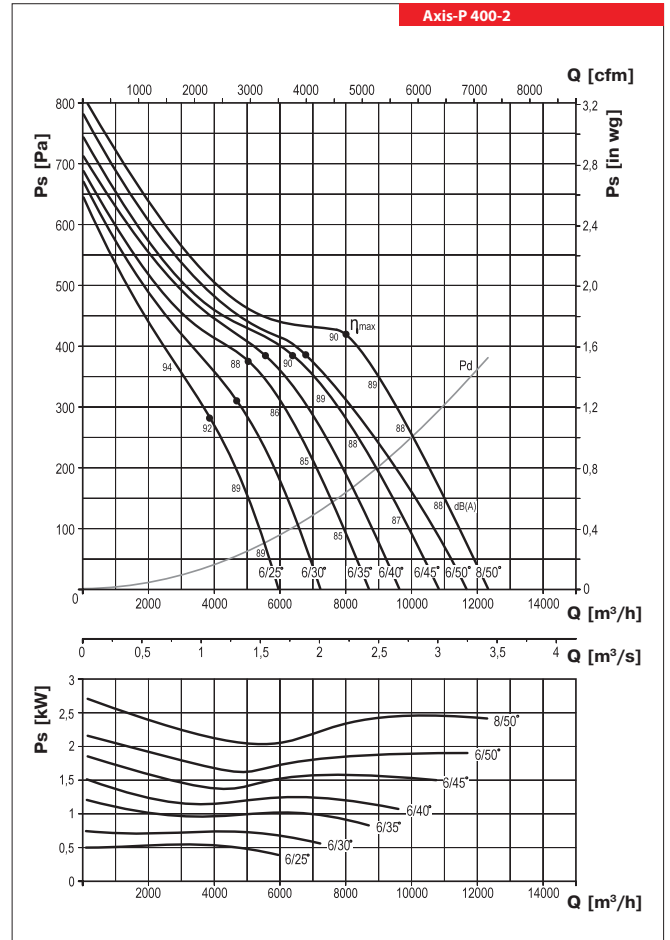
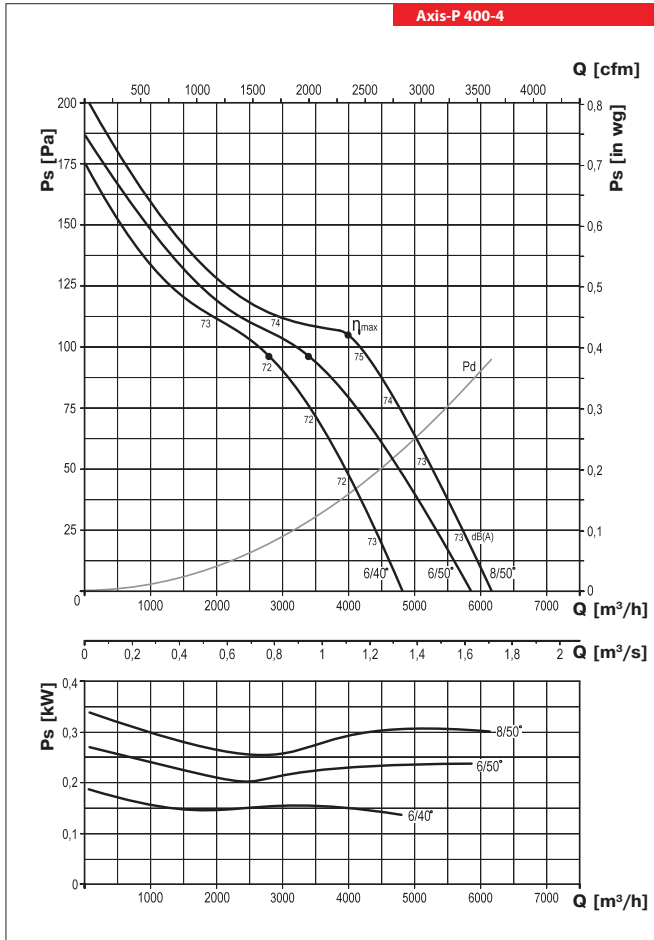
Obstructed space installation:

To ensure normal operation of the fan in an obstructed space make sure to provide for a sufficient distance between the inlet and outlet flanges and the floor, walls, bulky equipment and obstacles.



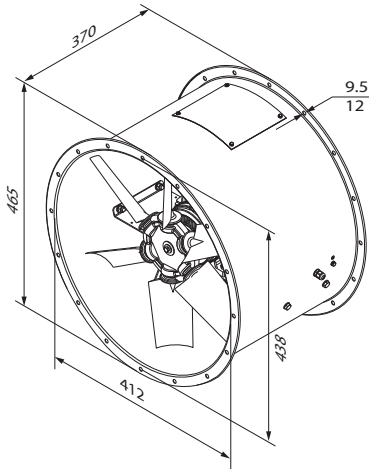


Aerodynamic characteristics

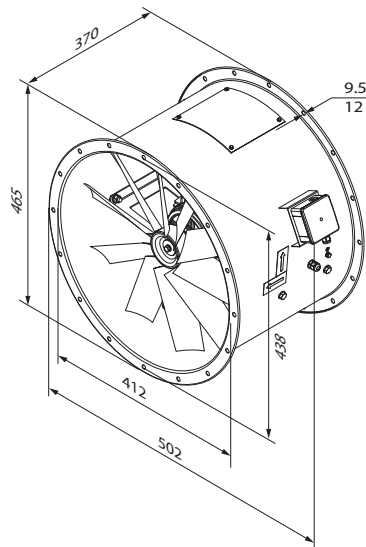


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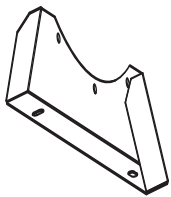
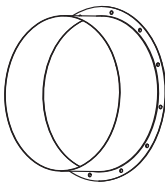
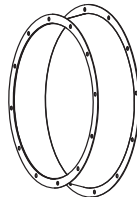
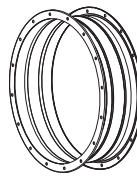
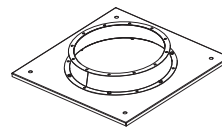
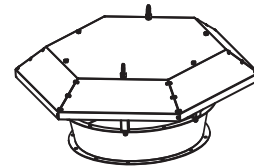
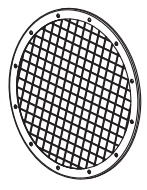
Standard size	Number of poles	Fan model	Voltage [V] / 50 Hz	Installed motor power N _y [kW]	Current [A]	Rotation speed [min ⁻¹]	Max. transported air temperature [°C]		Motor IP code	Weight [kg]
							Impeller type			
							PPG	PAG / AL		
400	4	Axis-P-400-4D/0.18-6/40/	3~ 400	0,18	0,71	1400	-10 +40	-40 +40	IP54	18,3
		Axis-P-400-4D/0.25-6/50/	3~ 400	0,25	0,96	1400	-10 +40	-40 +40	IP54	18,8
		Axis-P-400-4D/0.37-8/50/	3~ 400	0,37	1,17	1400	-10 +40	-40 +40	IP54	20,2
	2	Axis-P-400-2D/0.55-6/25/	3~ 400	0,55	1,49	2800	-10 +40	-40 +40	IP54	20,1
		Axis-P-400-2D/0.75-6/30/	3~ 400	0,75	1,86	2800	-10 +40	-40 +40	IP54	23,1
		Axis-P-400-2D/1.1-6/35/	3~ 400	1,1	2,64	2800	-10 +40	-40 +40	IP54	24,2
		Axis-P-400-2D/1.5-6/40/	3~ 400	1,5	3,46	2800	-10 +40	-40 +40	IP54	26,0
		Axis-P-400-2D/1.5-6/45/	3~ 400	1,5	3,46	2800	-10 +40	-40 +40	IP54	26,3
		Axis-P-400-2D/2.2-6/50/	3~ 400	2,2	4,85	2800	-10 +40	-40 +40	IP54	29,0
Axis-P-400-2D/3-8/50/	3~ 400	3,0	6,34	2800	-10 +40	-40 +40	IP54	36,3		

Overall dimensions [mm]


Axis-P (basic variant)



Axis-P with a terminal box

Accessories:

O-Axis-P 400
carrier

F-Axis-P 400
flange

VK-Axis-P 400
inlet cone

EVAF 400
flexible joint

PK-Axis-P 400
roof adapter

Z-Axis-P 400
hood

SZ-Axis-P 400
protective mesh

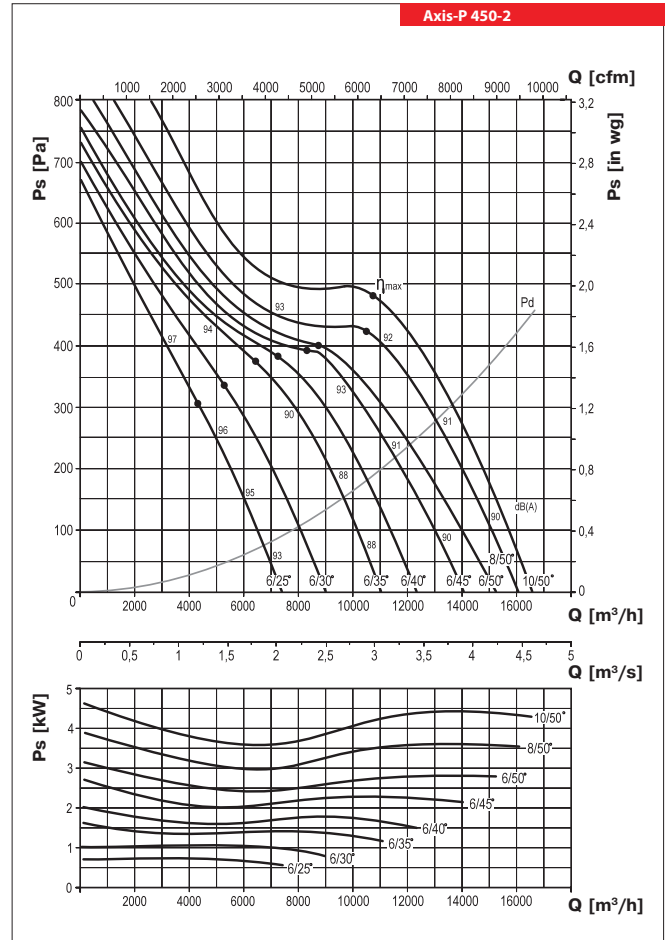
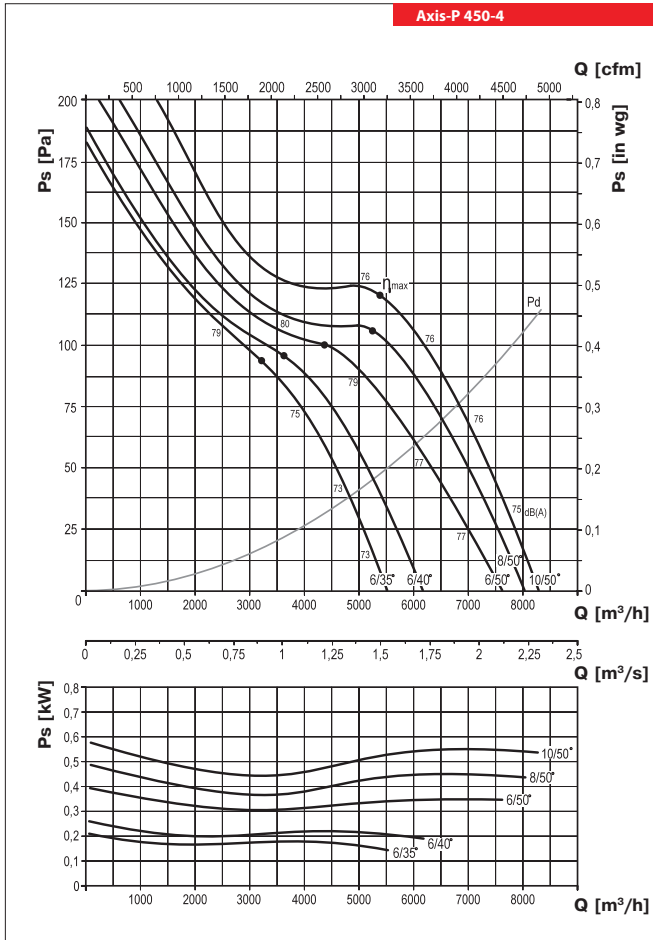
Characteristics at maximum efficiency:

MP	Motor rated power [kW]	EC	Efficiency category	m ³ /h	Air flow rate
η, [%]	Overall efficiency (η) [%]	N	Efficiency grade	Pa	Static pressure
MC	Measurement category	VSD	Built-in variable frequency drive	min ⁻¹	Rotation speed
		kW	Power	SR	Specific ratio

Standard size	Number of poles	Fan model	MP	η, [%]	MC	EC	N	VSD	kW	m ³ /h	Pa	min ⁻¹	SR
400	4	Axis-P-400-4D/0.18-6/40/	0,18	49,6	A	static.	61,1	N/A	0,153	2790	96	1420	1
		Axis-P-400-4D/0.25-6/50/	0,25	41,1	A	static.	51,5	N/A	0,225	3400	96	1430	1
		Axis-P-400-4D/0.37-8/50/	0,37	41,1	A	static.	50,8	N/A	0,295	4000	107	1425	1
	2	Axis-P-400-2D/0.55-6/25/	0,55	58,0	A	static.	66,0	N/A	0,542	3880	286	2830	1
		Axis-P-400-2D/0.75-6/30/	0,75	55,5	A	static.	62,6	N/A	0,742	4700	309	2825	1
		Axis-P-400-2D/1.1-6/35/	1,1	52,8	A	static.	59,1	N/A	1,013	5060	373	2850	1
		Axis-P-400-2D/1.5-6/40/	1,5	49,7	A	static.	55,5	N/A	1,225	5580	385	2840	1
		Axis-P-400-2D/1.5-6/45/	1,5	45,0	A	static.	50,2	N/A	1,526	6290	385	2830	1
		Axis-P-400-2D/2.2-6/50/	2,2	41,4	A	static.	46,1	N/A	1,801	6800	387	2865	1
Axis-P-400-2D/3-8/50/	3,0	40,3	A	static.	44,3	N/A	2,367	8010	420	2850	1		

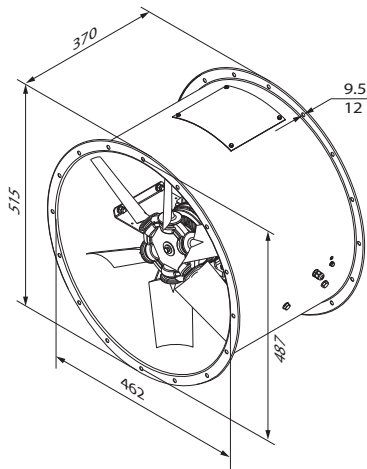


Aerodynamic characteristics

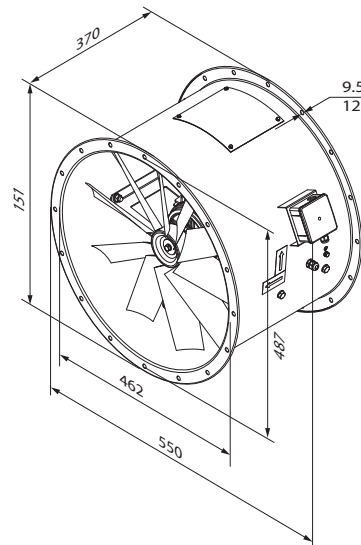


Technical data:

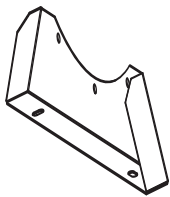
Standard size	Number of poles	Fan model	Voltage [V] / 50 Hz	Installed motor power Ny [kW]	Current [A]	Rotation speed [min ⁻¹]	Max. transported air temperature [°C]		Motor IP code	Weight [kg]
							Impeller type			
							PPG	PAG / AL		
450	4	Axis-P-450-4D/0.18-6/35/	3~ 400	0,18	0,71	1400	-10 +40	-40 +40	IP54	21,3
		Axis-P-450-4D/0.25-6/40/	3~ 400	0,25	0,96	1400	-10 +40	-40 +40	IP54	21,8
		Axis-P-450-4D/0.37-6/50/	3~ 400	0,37	1,17	1400	-10 +40	-40 +40	IP54	23,2
		Axis-P-450-4D/0.55-8/50/	3~ 400	0,55	1,69	1400	-10 +40	-40 +40	IP54	26,0
		Axis-P-450-4D/0.75-10/50/	3~ 400	0,75	2,03	1400	-10 +40	-40 +40	IP54	27,0
	2	Axis-P-450-2D/0.75-6/25/	3~ 400	0,75	1,93	2800	-10 +40	-40 +40	IP54	24,0
		Axis-P-450-2D/0.75-6/30/	3~ 400	0,75	1,86	2800	-10 +40	-40 +40	IP54	26,1
		Axis-P-450-2D/1.1-6/35/	3~ 400	1,1	2,64	2800	-10 +40	-40 +40	IP54	27,2
		Axis-P-450-2D/1.5-6/40/	3~ 400	1,5	3,46	2800	-10 +40	-40 +40	IP54	29,0
		Axis-P-450-2D/2.2-6/45/	3~ 400	2,2	4,85	2800	-10 +40	-40 +40	IP54	32,0
		Axis-P-450-2D/3-6/50/	3~ 400	3,0	6,34	2800	-10 +40	-40 +40	IP54	39,3
		Axis-P-450-2D/4-8/50/	3~ 400	4,0	8,30	2800	-10 +40	-40 +40	IP54	43,7
		Axis-P-450-2D/5.5-10/50/	3~ 400	5,5	11,08	2800	-10 +40	-40 +40	IP54	55,5

Overall dimensions [mm]


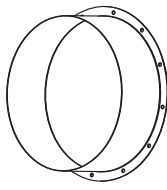
Axis-P (basic variant)



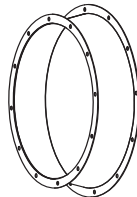
Axis-P with a terminal box

Accessories:


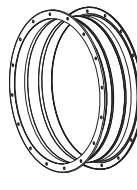
O-Axis-P 450 carrier



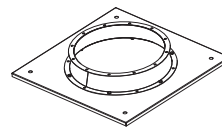
F-Axis-P 450 flange



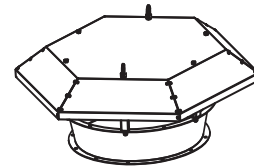
VK-Axis-P 450 inlet cone



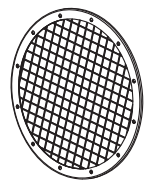
EVAF 450 flexible joint



PK-Axis-P 450 roof adapter



Z-Axis-P 450 hood



SZ-Axis-P 450 protective mesh

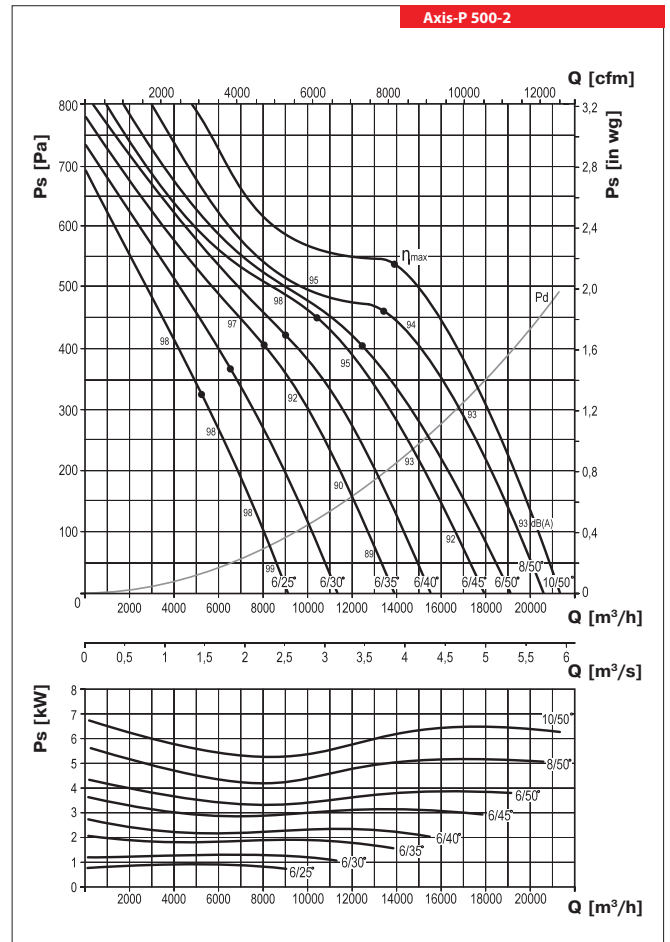
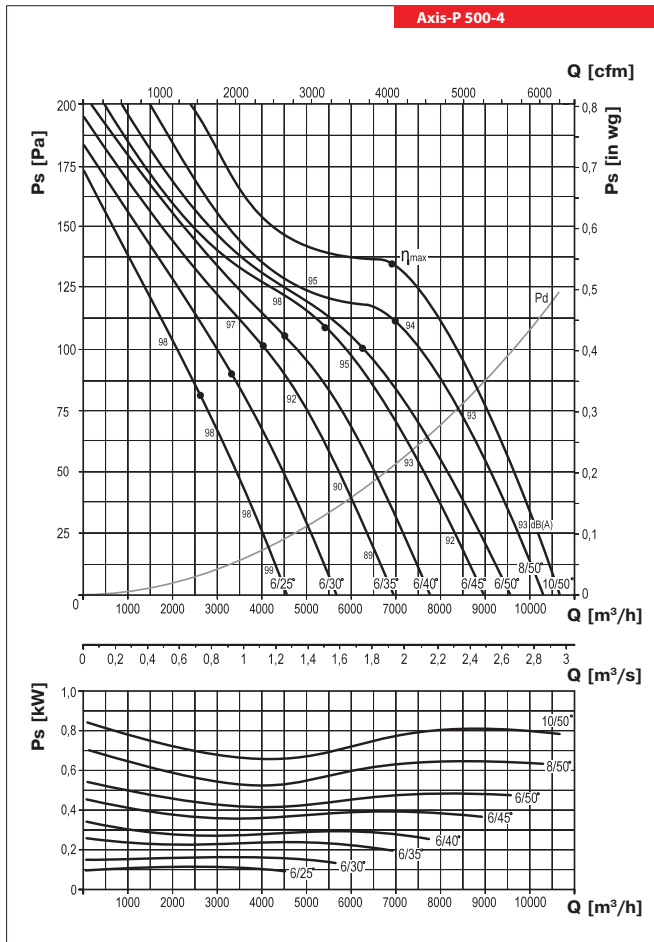
Characteristics at maximum efficiency:

MP	Motor rated power [kW]	EC	Efficiency category	m ³ /h	Air flow rate
η, [%]	Overall efficiency (η) [%]	N	Efficiency grade	Pa	Static pressure
MC	Measurement category	VSD	Built-in variable frequency drive	min ⁻¹	Rotation speed
		kW	Power	SR	Specific ratio

Standard size	Number of poles	Fan model	MP	η, [%]	MC	EC	N	VSD	kW	m ³ /h	Pa	min ⁻¹	SR
450	4	Axis-P-450-4D/0.18-6/35/	0,18	48,4	A	static.	59,5	N/A	0,175	3210	93	1425	1
		Axis-P-450-4D/0.25-6/40/	0,25	45,3	A	static.	55,9	N/A	0,215	3580	96	1445	1
		Axis-P-450-4D/0.37-6/50/	0,37	39,4	A	static.	48,8	N/A	0,322	4430	101	1450	1
		Axis-P-450-4D/0.55-8/50/	0,55	37,1	A	static.	45,7	N/A	0,436	5240	109	1425	1
		Axis-P-450-4D/0.75-10/50/	0,75	35,3	A	static.	43,4	N/A	0,528	5390	122	1440	1
	2	Axis-P-450-2D/0.75-6/25/	0,75	51,8	A	static.	59,0	N/A	0,72	4300	306	2825	1
		Axis-P-450-2D/0.75-6/30/	0,75	51,3	A	static.	57,7	N/A	0,986	5220	342	2840	1
		Axis-P-450-2D/1.1-6/35/	1,1	48,4	A	static.	53,8	N/A	1,407	6420	374	2830	1
		Axis-P-450-2D/1.5-6/40/	1,5	46,1	A	static.	50,9	N/A	1,72	7170	390	2850	1
		Axis-P-450-2D/2.2-6/45/	2,2	41,7	A	static.	45,9	N/A	2,201	8160	397	2825	1
		Axis-P-450-2D/3-6/50/	3,0	38,9	A	static.	42,7	N/A	2,581	8860	400	2840	1
		Axis-P-450-2D/4-8/50/	4,0	36,2	A	static.	39,1	N/A	3,495	10500	425	2850	1
		Axis-P-450-2D/5.5-10/50/	5,5	35,2	A	static.	37,6	N/A	4,2	10800	487	2845	1

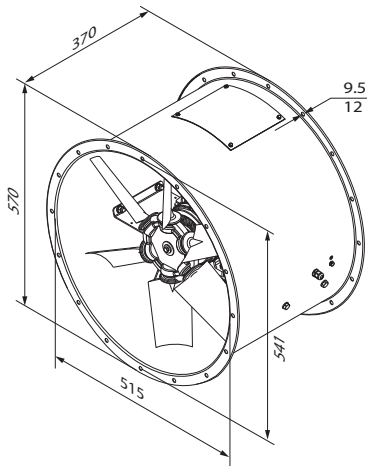


Aerodynamic characteristics

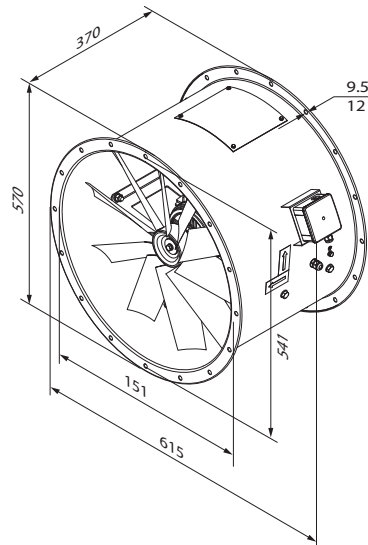


Technical data:

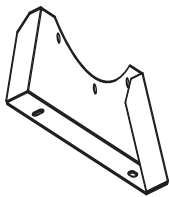
Standard size	Number of poles	Fan model	Voltage [V] / 50 Hz	Installed motor power N _y [kW]	Current [A]	Rotation speed [min ⁻¹]	Max. transported air temperature [°C]		Motor IP code	Weight [kg]
							Impeller type			
							PPG	PAG / AL		
500	4	Axis-P-500-4D/0.18-6/25/	3~400	0,18	0,71	1400	-10 +40	-40 +40	IP54	25,3
		Axis-P-500-4D/0.18-6/30/	3~400	0,18	0,71	1400	-10 +40	-40 +40	IP54	25,6
		Axis-P-500-4D/0.25-6/35/	3~400	0,25	0,96	1400	-10 +40	-40 +40	IP54	25,8
		Axis-P-500-4D/0.37-6/40/	3~400	0,37	1,17	1400	-10 +40	-40 +40	IP54	27,2
		Axis-P-500-4D/0.55-6/45/	3~400	0,55	1,69	1400	-10 +40	-40 +40	IP54	28,3
		Axis-P-500-4D/0.55-6/50/	3~400	0,55	1,69	1400	-10 +40	-40 +40	IP54	28,7
		Axis-P-500-4D/0.75-8/50/	3~400	0,75	2,03	1400	-10 +40	-40 +40	IP54	31,0
	2	Axis-P-500-2D/1.1-6/25/	3~400	1,1	0,71	2800	-10 +40	-40 +40	IP54	31,2
		Axis-P-500-2D/1.5-6/30/	3~400	1,5	0,71	2800	-10 +40	-40 +40	IP54	32,7
		Axis-P-500-2D/2.2-6/35/	3~400	2,2	0,96	2800	-10 +40	-40 +40	IP54	36,0
		Axis-P-500-2D/3-6/40/	3~400	3,0	1,17	2800	-10 +40	-40 +40	IP54	39,5
		Axis-P-500-2D/3-6/45/	3~400	3,0	1,69	2800	-10 +40	-40 +40	IP54	39,9
		Axis-P-500-2D/4-6/50/	3~400	4,0	1,69	2800	-10 +40	-40 +40	IP54	46,2
		Axis-P-500-2D/5.5-8/50/	3~400	5,5	2,03	2800	-10 +40	-40 +40	IP54	51,2
		Axis-P-500-2D/7.5-10/50/	3~400	7,5	2,81	2800	-10 +40	-40 +40	IP54	63,2

Overall dimensions [mm]


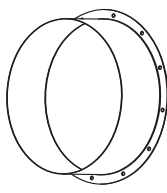
Axis-P (basic variant)



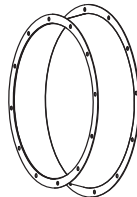
Axis-P with a terminal box

Accessories:


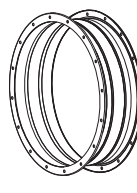
O-Axis-P 500 carrier



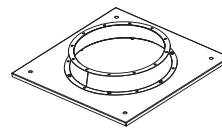
F-Axis-P 500 flange



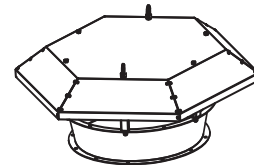
VK-Axis-P 500 inlet cone



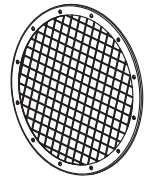
EVAF 500 flexible joint



PK-Axis-P 500 roof adapter



Z-Axis-P 500 hood



SZ-Axis-P 500 protective mesh

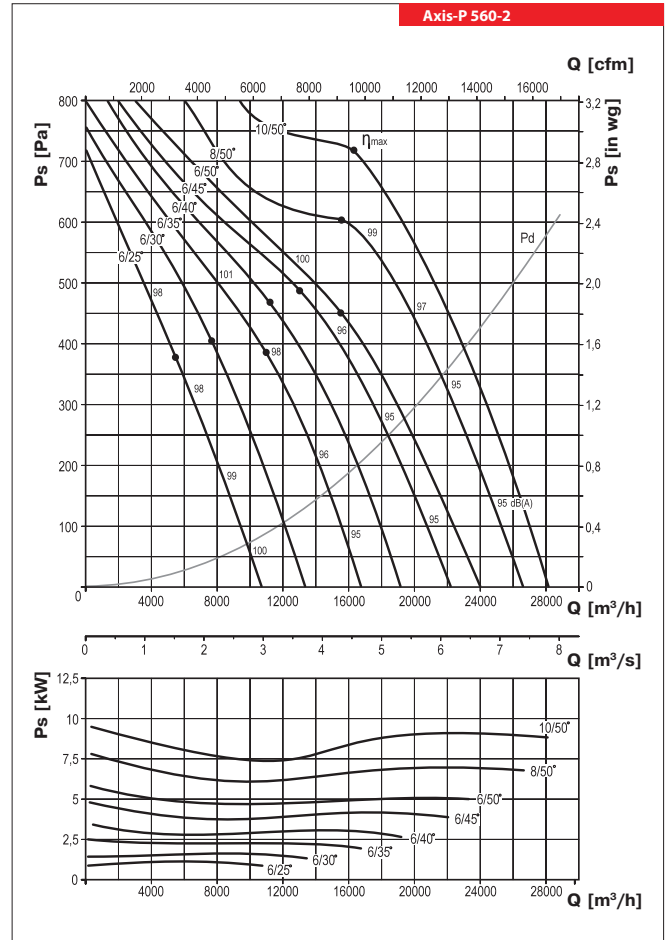
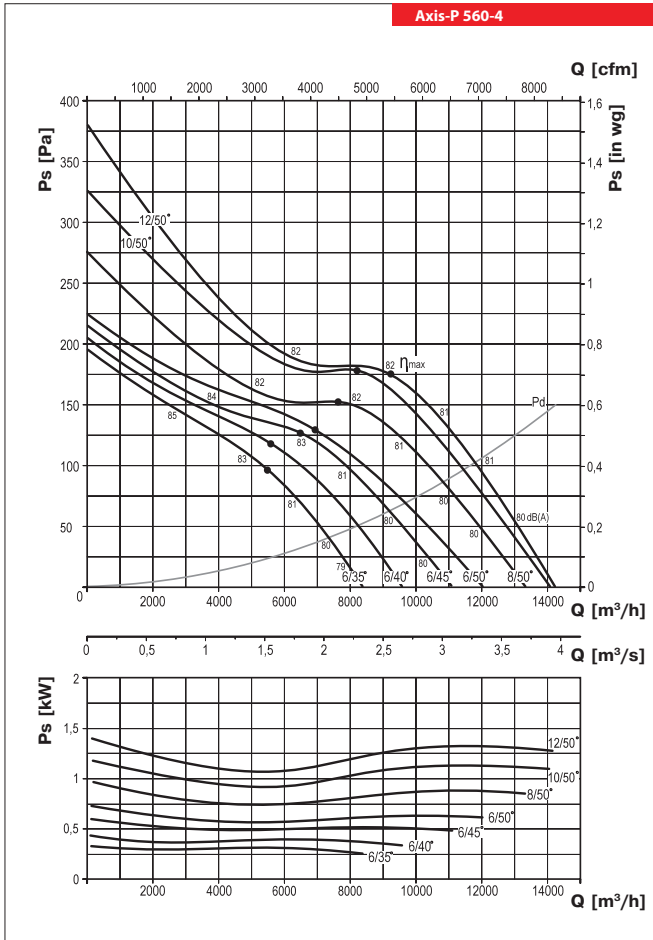
Characteristics at maximum efficiency:

MP	Motor rated power [kW]	EC	Efficiency category	m ³ /h	Air flow rate
η, [%]	Overall efficiency (η) [%]	N	Efficiency grade	Pa	Static pressure
MC	Measurement category	VSD	Built-in variable frequency drive	min ⁻¹	Rotation speed
		kW	Power	SR	Specific ratio

Standard size	Number of poles	Fan model	MP	η, [%]	MC	EC	N	VSD	kW	m ³ /h	Pa	min ⁻¹	SR
500	4	Axis-P-500-4D/0.18-6/25/	0,18	52,3	A	static.	64,5	N/A	0,116	2640	81	1445	1
		Axis-P-500-4D/0.18-6/30/	0,18	51,2	A	static.	62,5	N/A	0,167	3280	92	1450	1
		Axis-P-500-4D/0.25-6/35/	0,25	49,2	A	static.	59,4	N/A	0,237	4030	102	1425	1
		Axis-P-500-4D/0.37-6/40/	0,37	46,9	A	static.	56,7	N/A	0,288	4500	106	1440	1
		Axis-P-500-4D/0.55-6/45/	0,55	43,7	A	static.	52,7	N/A	0,378	5200	112	1420	1
		Axis-P-500-4D/0.55-6/50/	0,55	38,5	A	static.	46,9	N/A	0,463	6220	101	1430	1
		Axis-P-500-4D/0.75-8/50/	0,75	35,7	A	static.	43,3	N/A	0,627	6690	118	1425	1
		Axis-P-500-4D/1.1-10/50/	1,1	34,7	A	static.	41,7	N/A	0,770	6930	136	1450	1
	2	Axis-P-500-2D/1.1-6/25/	1,1	52,6	A	static.	59,2	N/A	0,928	5270	327	2850	1
		Axis-P-500-2D/1.5-6/30/	1,5	51,3	A	static.	56,8	N/A	1,336	6570	368	2825	1
		Axis-P-500-2D/2.2-6/35/	2,2	48,8	A	static.	53,4	N/A	1,903	8050	407	2840	1
		Axis-P-500-2D/3-6/40/	3,0	46,8	A	static.	50,8	N/A	2,311	8990	424	2850	1
		Axis-P-500-2D/3-6/45/	3,0	43,8	A	static.	47,1	N/A	3,029	10400	450	2845	1
		Axis-P-500-2D/4-6/50/	4,0	38,5	A	static.	41,2	N/A	3,709	12400	406	2840	1
		Axis-P-500-2D/5.5-8/50/	5,5	35,5	A	static.	37,4	N/A	5,023	13400	470	2830	1
		Axis-P-500-2D/7.5-10/50/	7,5	34,8	A	static.	36,1	N/A	6,2	13900	544	2850	1

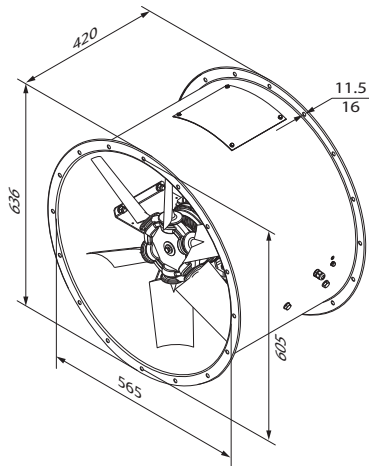


Aerodynamic characteristics

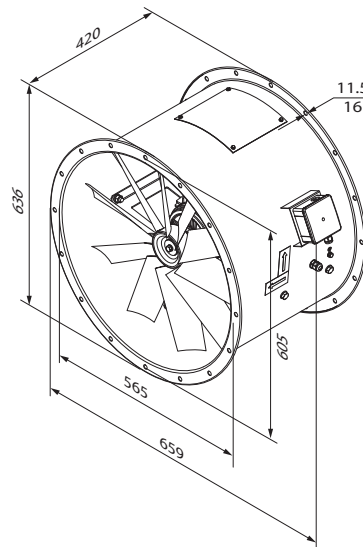


Technical data:

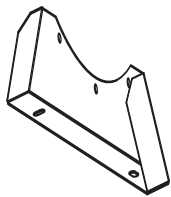
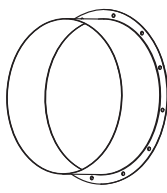
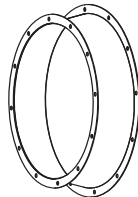
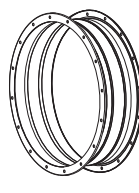
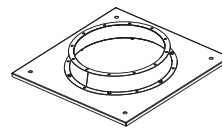
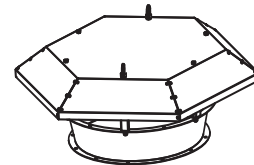
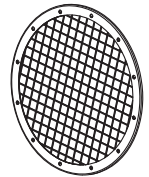
Standard size	Number of poles	Fan model	Voltage [V] / 50 Hz	Installed motor power Ny [kW]	Current [A]	Rotation speed [min ⁻¹]	Max. transported air temperature [°C]		Motor IP code	Weight [kg]
							Impeller type			
							PPG	PAG / AL		
560	4	Axis-P-560-4D/0.37-6/35/	3~ 400	0,37	1,17	1400	-10 +40	-40 +40	IP54	30,2
		Axis-P-560-4D/0.37-6/40/	3~ 400	0,37	1,17	1400	-10 +40	-40 +40	IP54	30,7
		Axis-P-560-4D/0.55-6/45/	3~ 400	0,55	1,69	1400	-10 +40	-40 +40	IP54	31,3
		Axis-P-560-4D/0.75-6/50/	3~ 400	0,75	2,03	1400	-10 +40	-40 +40	IP54	34,0
		Axis-P-560-4D/1.1-8/50/	3~ 400	1,1	2,81	1400	-10 +40	-40 +40	IP54	36,3
		Axis-P-560-4D/1.1-10/50/	3~ 400	1,1	2,81	1400	-10 +40	-40 +40	IP54	36,9
		Axis-P-560-4D/1.5-12/50/	3~ 400	1,5	3,63	1400	-10 +40	-40 +40	IP54	38,6
	2	Axis-P-560-2D/1.5-6/25/	3~ 400	1,5	3,50	2800	-10 +40	-40 +40	IP54	35,7
		Axis-P-560-2D/2.2-6/30/	3~ 400	2,2	4,85	2800	-10 +40	-40 +40	IP54	39,0
		Axis-P-560-2D/3-6/35/	3~ 400	3,0	6,42	2800	-10 +40	-40 +40	IP54	42,5
		Axis-P-560-2D/3-6/40/	3~ 400	3,0	6,42	2800	-10 +40	-40 +40	IP54	43,2
		Axis-P-560-2D/4-6/45/	3~ 400	4,0	8,30	2800	-10 +40	-40 +40	IP54	49,2
		Axis-P-560-2D/5.5-6/50/	3~ 400	5,5	11,08	2800	-10 +40	-40 +40	IP54	54,2
		Axis-P-560-2D/7.5-8/50/	3~ 400	7,5	14,88	2800	-10 +40	-40 +40	IP54	66,2
Axis-P-560-2D/11-10/50/	3~ 400	11,0	21,01	2800	-10 +40	-40 +40	IP54	99,0		

Overall dimensions [mm]


Axis-P (basic variant)



Axis-P with a terminal box

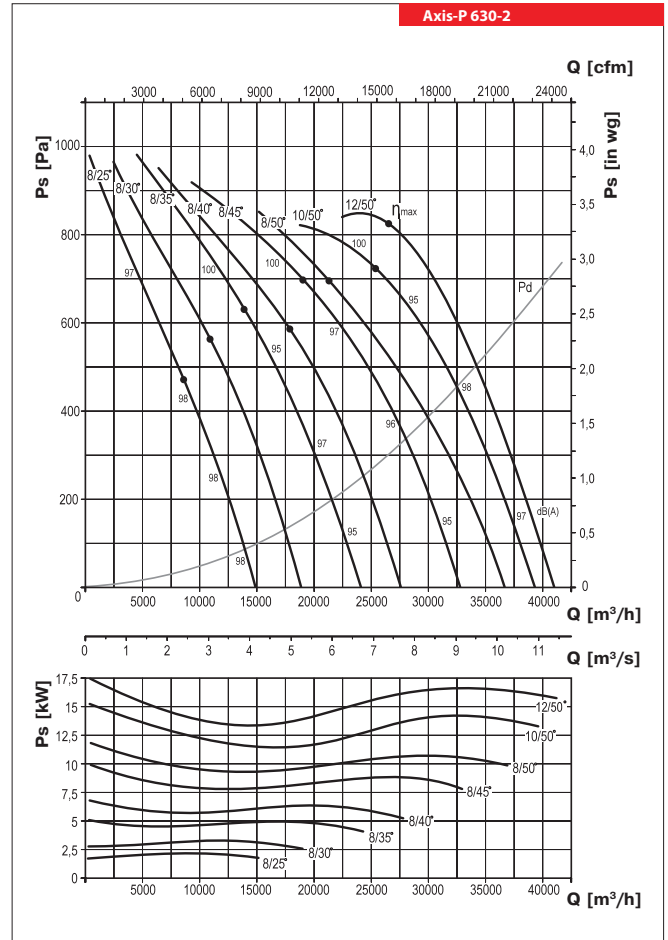
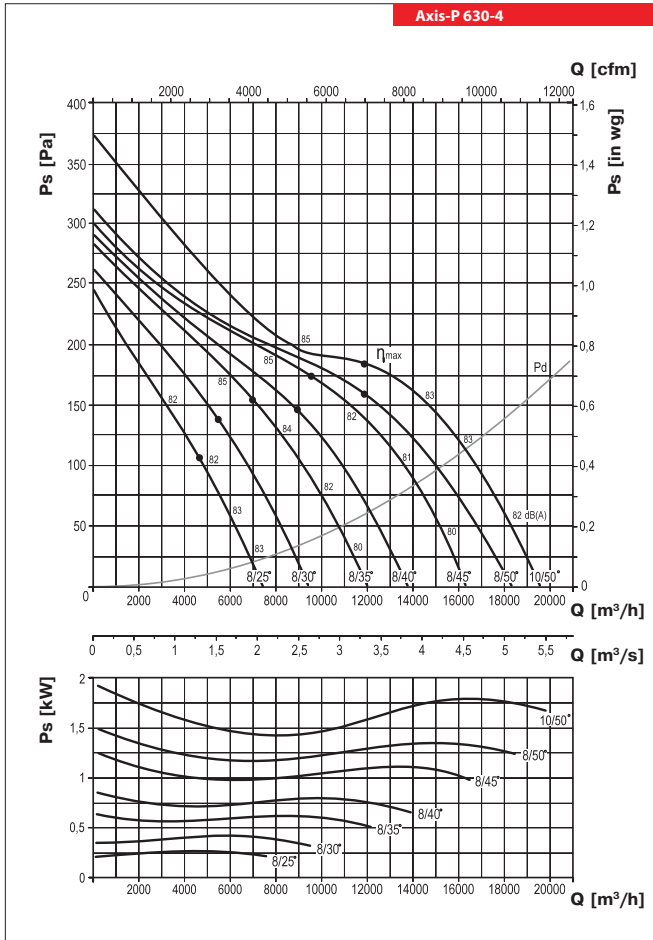
Accessories:

O-Axis-P 560
carrier

F-Axis-P 560
flange

VK-Axis-P 560
inlet cone

EVAF 560
flexible joint

PK-Axis-P 560
roof adapter

Z-Axis-P 560
hood

SZ-Axis-P 560
protective mesh

Characteristics at maximum efficiency:

MP	Motor rated power [kW]	EC	Efficiency category	m ³ /h	Air flow rate								
η, [%]	Overall efficiency (η) [%]	N	Efficiency grade	Pa	Static pressure								
MC	Measurement category	VSD	Built-in variable frequency drive	min ⁻¹	Rotation speed								
		kW	Power	SR	Specific ratio								
560	4	Fan model	MP	η, [%]	MC	EC	N	VSD	kW	m ³ /h	Pa	min ⁻¹	SR
		Axis-P-560-4D/0.37-6/35/	0,37	50,1	A	static.	59,7	N/A	0,303	5460	98	1420	1
		Axis-P-560-4D/0.37-6/40/	0,37	48,9	A	static.	57,9	N/A	0,38	5560	118	1430	1
		Axis-P-560-4D/0.55-6/45/	0,55	47,3	A	static.	55,6	N/A	0,494	6440	128	1425	1
		Axis-P-560-4D/0.75-6/50/	0,75	42,8	A	static.	50,6	N/A	0,595	6970	129	1450	1
		Axis-P-560-4D/1.1-8/50/	1,1	41,1	A	static.	48,0	N/A	0,81	7730	152	1425	1
		Axis-P-560-4D/1.1-10/50/	1,1	39,2	A	static.	45,4	N/A	1,066	8150	181	1440	1
	Axis-P-560-4D/1.5-12/50/	1,5	36,1	A	static.	41,8	N/A	1,279	9210	177	1430	1	
	2	Axis-P-560-2D/1.5-6/25/	1,5	54,7	A	static.	60,8	N/A	1,089	5460	385	2840	1
		Axis-P-560-2D/2.2-6/30/	2,2	53,9	A	static.	58,9	N/A	1,648	7780	403	2830	1
		Axis-P-560-2D/3-6/35/	3,0	50,0	A	static.	53,9	N/A	2,429	10900	393	2850	1
		Axis-P-560-2D/3-6/40/	3,0	48,7	A	static.	52,0	N/A	3,043	11100	471	2825	1
		Axis-P-560-2D/4-6/45/	4,0	45,8	A	static.	48,3	N/A	3,954	12900	495	2840	1
		Axis-P-560-2D/5.5-6/50/	5,5	40,7	A	static.	42,7	N/A	4,91	15600	453	2850	1
Axis-P-560-2D/7.5-8/50/		7,5	40,7	A	static.	41,9	N/A	6,546	15500	607	2845	1	
Axis-P-560-2D/11-10/50/	11,0	39,2	A	static.	39,6	N/A	8,5	16300	723	2865	1		

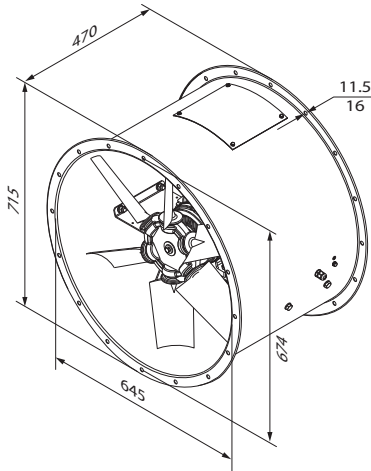


Aerodynamic characteristics

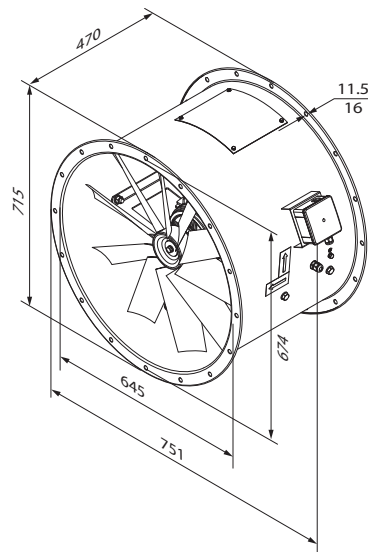


Technical data:

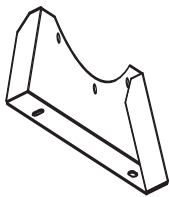
Standard size	Number of poles	Fan model	Voltage [V] / 50 Hz	Installed motor power N _y [kW]	Current [A]	Rotation speed [min ⁻¹]	Max. transported air temperature [°C]		Motor IP code	Weight [kg]
							Impeller type			
							PPG	PAG / AL		
630	4	Axis-P-630-4D/0.25-8/25/	3~ 400	0,25	0,96	1400	-10 +40	-40 +40	IP54	36,8
		Axis-P-630-4D/0.55-8/30/	3~ 400	0,55	1,69	1400	-10 +40	-40 +40	IP54	39,3
		Axis-P-630-4D/0.75-8/35/	3~ 400	0,75	2,03	1400	-10 +40	-40 +40	IP54	42,0
		Axis-P-630-4D/0.75-8/40/	3~ 400	0,75	2,03	1400	-10 +40	-40 +40	IP54	42,0
		Axis-P-630-4D/1.1-8/45/	3~ 400	1,1	2,81	1400	-10 +40	-40 +40	IP54	44,3
		Axis-P-630-4D/1.5-8/50/	3~ 400	1,5	3,63	1400	-10 +40	-40 +40	IP54	46,6
		Axis-P-630-4D/2.2-10/50/	3~ 400	2,2	5,16	1400	-10 +40	-40 +40	IP54	50,3
	2	Axis-P-630-2D/2.2-8/25/	3~ 400	2,2	4,85	2800	-10 +40	-40 +40	IP54	47,0
		Axis-P-630-2D/3-8/30/	3~ 400	3,0	6,42	2800	-10 +40	-40 +40	IP54	50,5
		Axis-P-630-2D/5.5-8/35/	3~ 400	5,5	11,08	2800	-10 +40	-40 +40	IP54	62,2
		Axis-P-630-2D/7.5-8/40/	3~ 400	7,5	14,88	2800	-10 +40	-40 +40	IP54	74,2
		Axis-P-630-2D/9.2-8/45/	3~ 400	9,2	17,85	2800	-10 +40	-40 +40	IP54	83,4
		Axis-P-630-2D/11-8/50/	3~ 400	11,0	21,01	2800	-10 +40	-40 +40	IP54	107,0
		Axis-P-630-2D/15-10/50/	3~ 400	15,0	28,01	2800	-10 +40	-40 +40	IP54	120,0
		Axis-P-630-2D/18.5-12/50/	3~ 400	18,5	34,32	2800	-10 +40	-40 +40	IP54	131,0

Overall dimensions [mm]


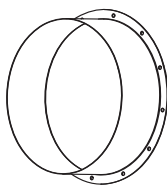
Axis-P (basic variant)



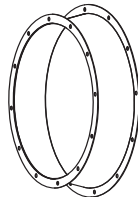
Axis-P with a terminal box

Accessories:


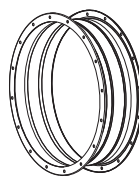
O-Axis-P 630 carrier



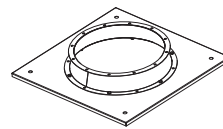
F-Axis-P 630 flange



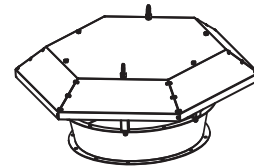
VK-Axis-P 630 inlet cone



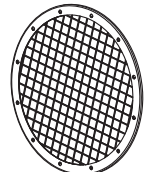
EVAF 630 flexible joint



PK-Axis-P 630 roof adapter



Z-Axis-P 630 hood

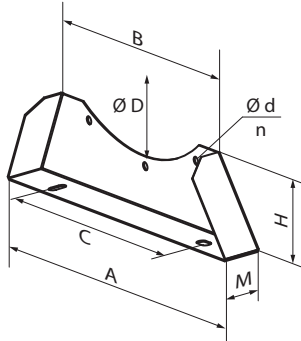


SZ-Axis-P 630 protective mesh

Characteristics at maximum efficiency:

MP	Motor rated power [kW]	EC	Efficiency category	m ³ /h	Air flow rate																		
η, [%]	Overall efficiency (η) [%]	N	Efficiency grade	Pa	Static pressure																		
MC	Measurement category	VSD	Built-in variable frequency drive	min ⁻¹	Rotation speed																		
		kW	Power	SR	Specific ratio																		
Standard size	Number of poles	Fan model											MP	η, [%]	MC	EC	N	VSD	kW	m ³ /h	Pa	min ⁻¹	SR
		630	4	Axis-P-630-4D/0.25-8/25/	0,25	52,8	A	static.	62,7	N/A	0,272	4330	117	1420	1								
				Axis-P-630-4D/0.55-8/30/	0,55	53,1	A	static.	61,9	N/A	0,41	5490	140	1430	1								
				Axis-P-630-4D/0.75-8/35/	0,75	51,6	A	static.	59,2	N/A	0,616	8700	117	1425	1								
				Axis-P-630-4D/0.75-8/40/	0,75	47,5	A	static.	54,5	N/A	0,783	8990	146	1450	1								
				Axis-P-630-4D/1.1-8/45/	1,1	45,4	A	static.	51,6	N/A	1,035	9520	174	1420	1								
				Axis-P-630-4D/1.5-8/50/	1,5	40,2	A	static.	45,7	N/A	1,35	11900	161	1430	1								
				Axis-P-630-4D/2.2-10/50/	2,2	39,6	A	static.	44,6	N/A	1,629	12800	178	1425	1								
		2	Axis-P-630-2D/2.2-8/25/	2,2	52,7	A	static.	56,9	N/A	2,178	8660	468	2850	1									
			Axis-P-630-2D/3-8/30/	3,0	53,0	A	static.	56,1	N/A	3,286	11000	559	2845	1									
			Axis-P-630-2D/5.5-8/35/	5,5	51,5	A	static.	53,5	N/A	4,875	14000	633	2865	1									
			Axis-P-630-2D/7.5-8/40/	7,5	47,6	A	static.	48,9	N/A	6,266	18000	585	2845	1									
			Axis-P-630-2D/9.2-8/45/	9,2	45,3	A	static.	45,9	N/A	8,28	19000	697	2840	1									
			Axis-P-630-2D/11-8/50/	11,0	42,7	A	static.	42,8	N/A	9,834	21300	696	2830	1									
			Axis-P-630-2D/15-10/50/	15,0	39,4	A	static.	38,7	N/A	13,03	25500	711	2815	1									
			Axis-P-630-2D/18.5-12/50/	18,5	39,7	A	static.	38,4	N/A	16,0	26700	839	2810	1									

O-Axis-P
carrier



Purpose

Used for mounting the fans to the floor, walls or ceiling.

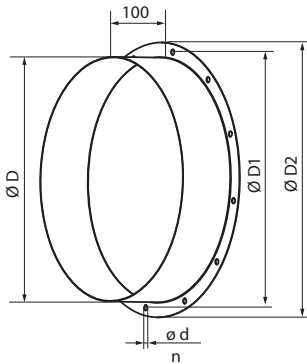
Design

The carrier consists of two brackets. The unit is made of steel with a polymer coating.

Overall dimensions

Model	Dimensions [mm]								Weight [kg]
	A	B	D	H	C	M	Ød	n	
O-Axis-P 400	446	318	438	100	295	44	9,1	3	0,7
O-Axis-P 450	546	374	487	115	355	44	9,1	3	0,9
O-Axis-P 500	568	376	541	116	375	45	9,1	3	1,29
O-Axis-P 560	568	390	605	113	355	45	10,2	3	1,32
O-Axis-P 630	808	578	674	174	515	45	11,5	5	2,13

F-Axis-P
flange



Purpose

Enables attaching round ducts of appropriate size to the fan.

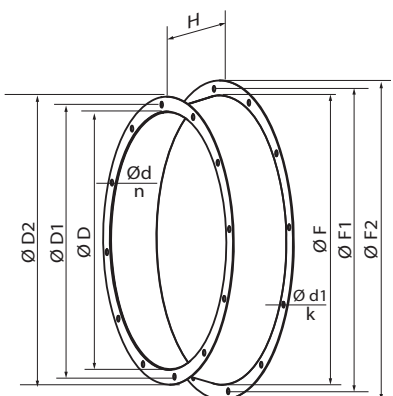
Design

The unit is made of steel with a polymer coating.

Overall dimensions

Model	Dimensions [mm]					Weight [kg]
	D	D1	D2	Ød	n	
F-Axis-P 400	400	438	465	9,5	12	1,3
F-Axis-P 450	450	487	515	9,5	12	1,4
F-Axis-P 500	500	541	570	9,5	12	1,6
F-Axis-P 560	560	605	636	11,5	16	1,98
F-Axis-P 630	630	674	715	11,5	16	2,1

VK-Axis-P
inlet cone



Purpose

The inlet cone should be installed upstream of the fan to improve the air flow parameters. However, it becomes a must in the absence of ducting attached to the fan inlet. The inlet cone helps reduce the fan dynamic pressure and increase the static component of the total fan pressure. The unit can be used in combination with the SZ-Axis-P protective mesh which must be one size larger than the unit.

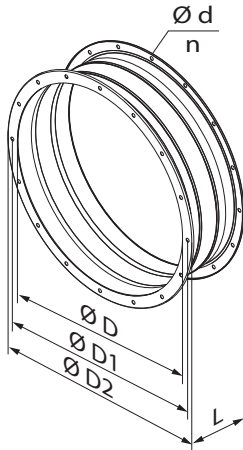
Design

The unit has two flanges and is made of steel with a polymer coating.

Overall dimensions

Model	Dimensions [mm]											Weight [kg]
	D	D1	D2	Ød	n	F	F1	F2	H	Ød1	k	
VK-Axis-P 400	412	438	465	9,5	12	462	487	512	98	9,5	12	2,1
VK-Axis-P 450	462	487	515	9,5	12	515	541	567	108	9,5	12	2,5
VK-Axis-P 500	515	541	570	9,5	12	565	605	633	118	11,5	16	3,1
VK-Axis-P 560	565	605	636	11,5	16	645	674	712	133	11,5	16	3,9
VK-Axis-P 630	645	674	715	11,5	16	710	770	810	148	13	16	5,1

EVAF flexible joint



■ Purpose

Flexible joints cancel out any potential vibrations transmitted by the fans or air handling units to the air ducting as well as partially compensate for the air duct assembly deformations caused by temperature variation.

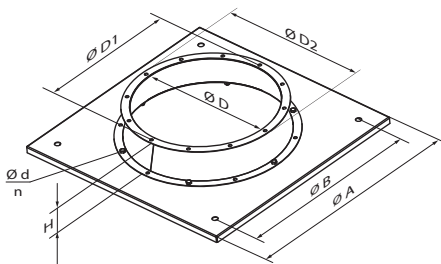
■ Design

The flexible joints are formed by two flanges joined with vibration-cancelling material and are made of zinc-plated sheets and PVC tape reinforced with polyamide fabric. The joints are not intended to withstand any significant mechanical loads and, therefore, may not be used as load-bearing structures.

■ Overall dimensions

Model	Dimensions [mm]						Weight [kg]
	D	D1	D2	L	Ød	n	
EVAF 400	412	438	465	160	9,5	12	2,57
EVAF 450	462	487	515	160	9,5	12	2,88
EVAF 500	515	541	570	160	9,5	12	3,81
EVAF 560	565	605	636	160	11,5	16	4,53
EVAF 630	645	674	715	160	11,5	16	5,13

PK-Axis-P roof adapter



■ Purpose

The unit is used for mounting Axis-P on rooftops.

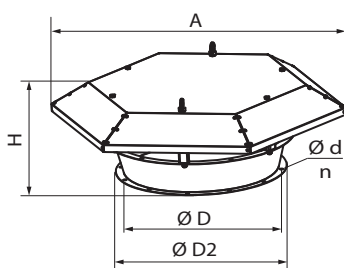
■ Design

The unit is made of steel with a polymer coating.

■ Overall dimensions

Model	Dimensions [mm]								Weight [kg]
	D	D1	D2	A	B	H	Ød	n	
PK-Axis-P 400	412	438	465	701	580	118	9,5	12	6,51
PK-Axis-P 450	462	487	515	701	580	128	9,5	12	6,43
PK-Axis-P 500	515	541	570	769	640	138	9,5	12	9,43
PK-Axis-P 560	565	605	636	921	750	153	11,5	16	13,3
PK-Axis-P 630	645	674	715	921	750	168	11,5	16	13,5

Z-Axis-P hood



■ Purpose

Ensures trouble-free operation of Axis-P fans on rooftops.

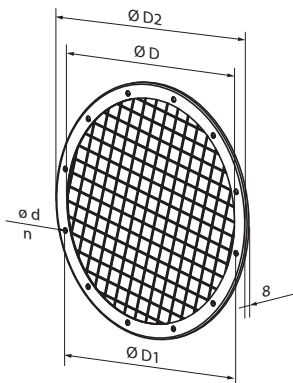
■ Design

The unit is made of steel with a polymer coating.

■ Overall dimensions

Model	Dimensions [mm]								Weight [kg]
	D	D1	D2	A	H	Ød	n		
Z-Axis-P 400	412	438	465	843	245	9,5	12	7,7	
Z-Axis-P 450	462	487	515	892	270	9,5	12	8,61	
Z-Axis-P 500	515	541	570	885	303	9,5	12	9,72	
Z-Axis-P 560	565	605	636	966	329	11,5	16	11,48	
Z-Axis-P 630	645	674	715	1182	359	11,5	16	16,55	

SZ-Axis-P
protective mesh



■ **Purpose**
Protects the fans against foreign objects.

■ **Design**
Protective mesh with 25x25 mm cells.

■ **Overall dimensions**

Model	Dimensions [mm]					Weight [kg]
	D	D1	D2	Ød	n	
SZ-Axis-P 400	412	438	465	9,5	12	0,8
SZ-Axis-P 450	462	487	515	9,5	12	0,9
SZ-Axis-P 500	515	541	570	9,5	12	1,1
SZ-Axis-P 560	565	605	636	11,5	16	1,5
SZ-Axis-P 630	645	674	715	11,5	16	1,7

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