

WPA-D-N – fan with vertical outlet



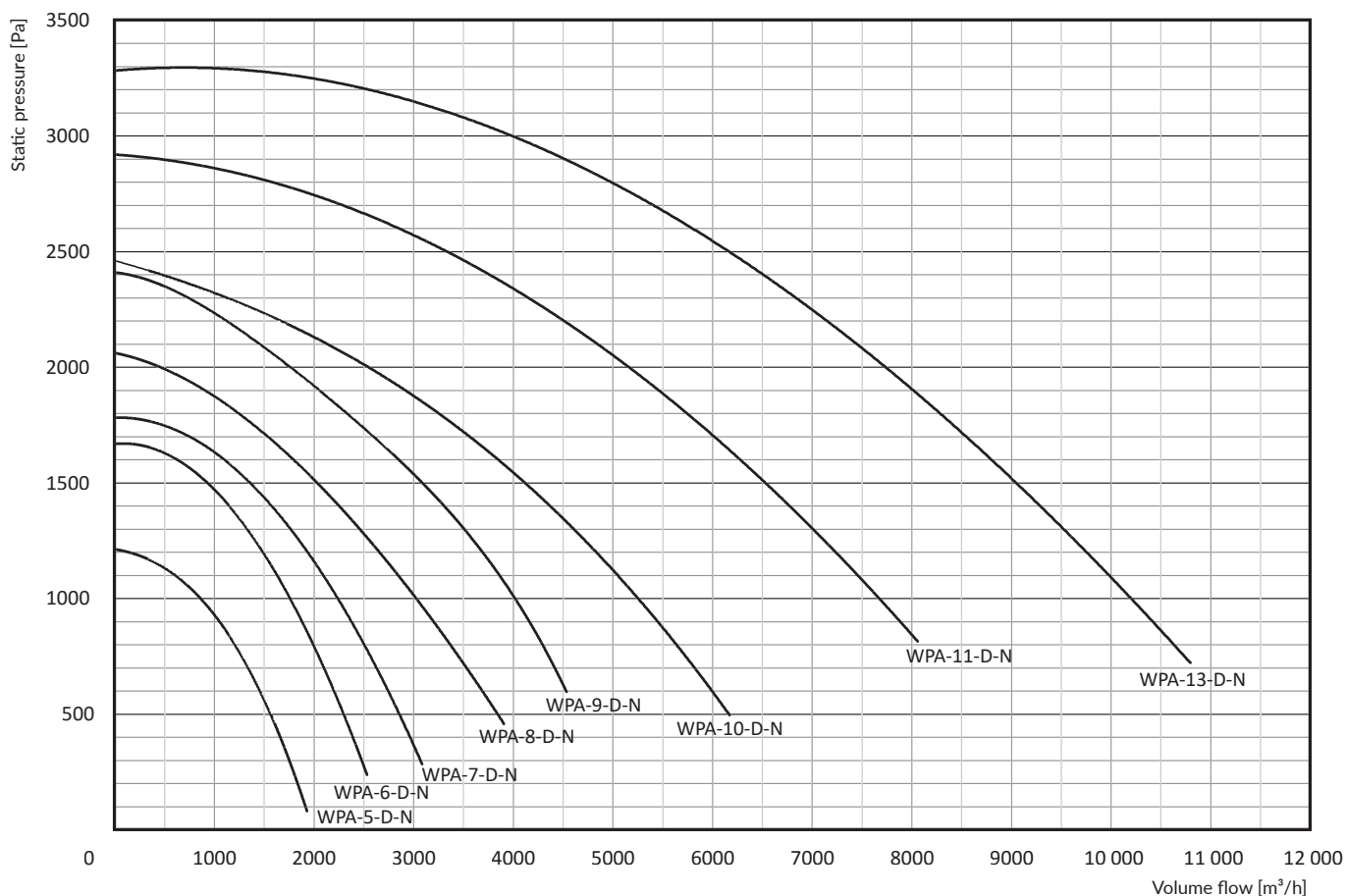
Purpose

WPA-D-N fans are generally designed for local ventilation. They are installed outside the buildings (outdoor application), on roof bases or on wall brackets. As they can overcome significant air flow resistances, they are particularly efficient within installations of local exhausts. They meet the requirements of the ErP 2009/125/EC Directive.

Structure

The fan consists of a spiral steel housing, motor and a plastic hood. The radial aluminium impeller is directly installed

at the motor shaft. Impeller blades cross-section reminds the profile of an aircraft wing, providing low acoustic pressure level. The fan inlet is equipped with a flange to install it on a roof base or on wall bracket. Typical feature of the fan is a silencer fastened at the fan outlet of its spiral housing, directed vertically and connected through a KL-WPA elbow. For safety reason, the inlet and outlet are equipped with a protective grill. It is recommended to install a TK silencer at the fan inlet (for details see acoustic data in the table). On demand of Customer, we deliver safety switches to disconnect the power supply during the servicing and installing activities (see catalogue card ELECTRICAL ACCESSORIES).



Technical data

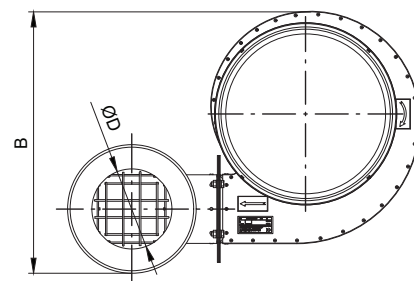
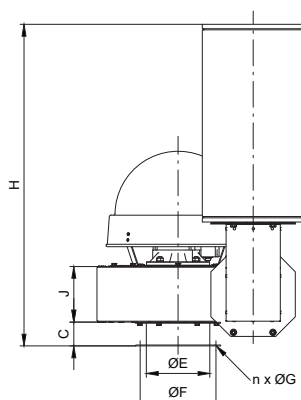
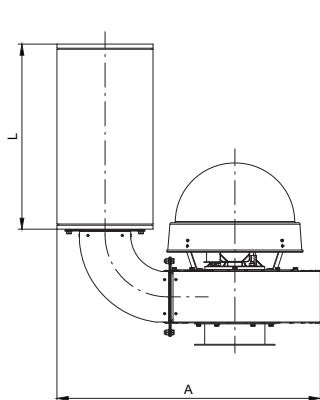
Type	Part no.	Synchronous rotations [1/min]	Supply voltage [V]	Motor rate [kW]	Ingress protection IP	Acoustic pressure level [dB(A)] from a distance of:		Maximum volume flow [m³/h]	Maximum vacuum [Pa]	Weight [kg]
						1 m	5 m			
WPA-5-D-1-N KL-160-WPA	807W11 829K14	3000 –	230 –	0,37 –	54 –	73/67* –	59/53* –	1900 –	1250 –	23 1,8
WPA-5-D-3-N KL-160-WPA	807W12 829K14	3000 –	3x400 –	0,37 –	54 –	73/67* –	59/53* –	1900 –	1250 –	23 1,8
WPA-6-D-1-N KL-160-WPA	807W13 829K14	3000 –	230 –	0,75 –	54 –	78/75* –	64/61* –	2500 –	1700 –	28 1,8
WPA-6-D-3-N KL-160-WPA	807W14 829K14	3000 –	3x400 –	0,75 –	54 –	78/75* –	64/61* –	2500 –	1700 –	28 1,8
WPA-7-D-1-N KL-200-WPA	807W15 829K15	3000 –	230 –	1,1 –	54 –	81/74* –	67/60* –	3100 –	1800 –	30 2,4
WPA-7-D-3-N KL-200-WPA	807W16 829K15	3000 –	3x400 –	1,1 –	54 –	81/74* –	67/60* –	3100 –	1800 –	30 2,4
WPA-8-D-3-N KL-200-WPA	807W17 829K15	3000 –	3x400 –	1,5 –	54 –	82/78* –	68/64* –	3900 –	2050 –	36 2,4
WPA-9-D-3-N KL-200-WPA	807W18 829K15	3000 –	3x400 –	2,2 –	54 –	86/82* –	72/68* –	4500 –	2400 –	44 2,4
WPA-10-D-3-N KL-250-WPA	807W19 829K16	3000 –	3x400 –	3,0 –	54 –	87/81* –	73/67* –	6200 –	2450 –	58 7,5
WPA-11-D-3-N KL-250-WPA	807W20 829K16	3000 –	3x400 –	5,5 –	54 –	91/88* –	77/74* –	8050 –	2950 –	77 7,5
WPA-13-D-3-N KL-315-WPA	807W22 829K17	3000 –	3x400 –	7,5 –	54 –	95/90* –	81/76* –	10 800 –	3300 –	98 12,6

* Measurements have been carried out with the additional TK L = 500 mm silencer installed at the fan inlet.

1. Maximum temperature of the conveyed air is +60°C. Maximum temperature within the work area +40°C.

2. Maximum dustiness of the conveyed air should not exceed 0,3 g/m³.

3. KL-WPA – is a type of an elbow connecting the silencer with the fan.



Top view of the fan

Dimensions

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	n [pc.]	G [mm]	H [mm]	J [mm]	L [mm]
WPA-5-D-1-N	705	525	60	160	160	194	6	7,0	815	140	500
WPA-5-D-3-N											
WPA-6-D-1-N	715	550	60	160	160	194	6	7,0	815	140	500
WPA-6-D-3-N											
WPA-7-D-1-N	815	570	60	200	160	194	6	7,0	840	155	500
WPA-7-D-3-N											
WPA-8-D-3-N	840	600	60	200	200	224	8	9,0	840	155	500
						234	6	7,0			
						246	8	9,0			
WPA-9-D-3-N	880	665	60	200	200	224	8	9,0	840	155	500
						234	6	7,0			
						246	8	9,0			
WPA-10-D-3-N	960	675	80	250	250	274	8	9,0	940	232	500
WPA-11-D-3-N	980	695	80	250	250	274	8	9,0	940	232	500
WPA-13-D-3-N	1225	830	90	315	315	344	8	9,0	1300	258	500