

Portable fan working with a magnetic hood during the welding process.



Portable fan used for drying a damp wall.

Application

Principally, portable radial fans are meant for use in air-supply- or extraction ventilation of rooms and workplaces. They can be applied, both for general ventilation and local exhausts (technological extraction).

Additionally, WPA-P fans can be applied for drying the humid rooms by forcing the multiple air exchanges.

Structure

The fan consists of a steel spiral housing, a motor and framework. Its aluminium radial impeller is directly installed on the motor shaft (direct drive). The cross-section of the impeller blades reminds the profile of aeroplane wings, providing low acoustic pressure level of the fan.

For safety reasons, the inlet and outlet are equipped with protective grill and are adapted for fastening the flexible hoses (by means of hose clamps).

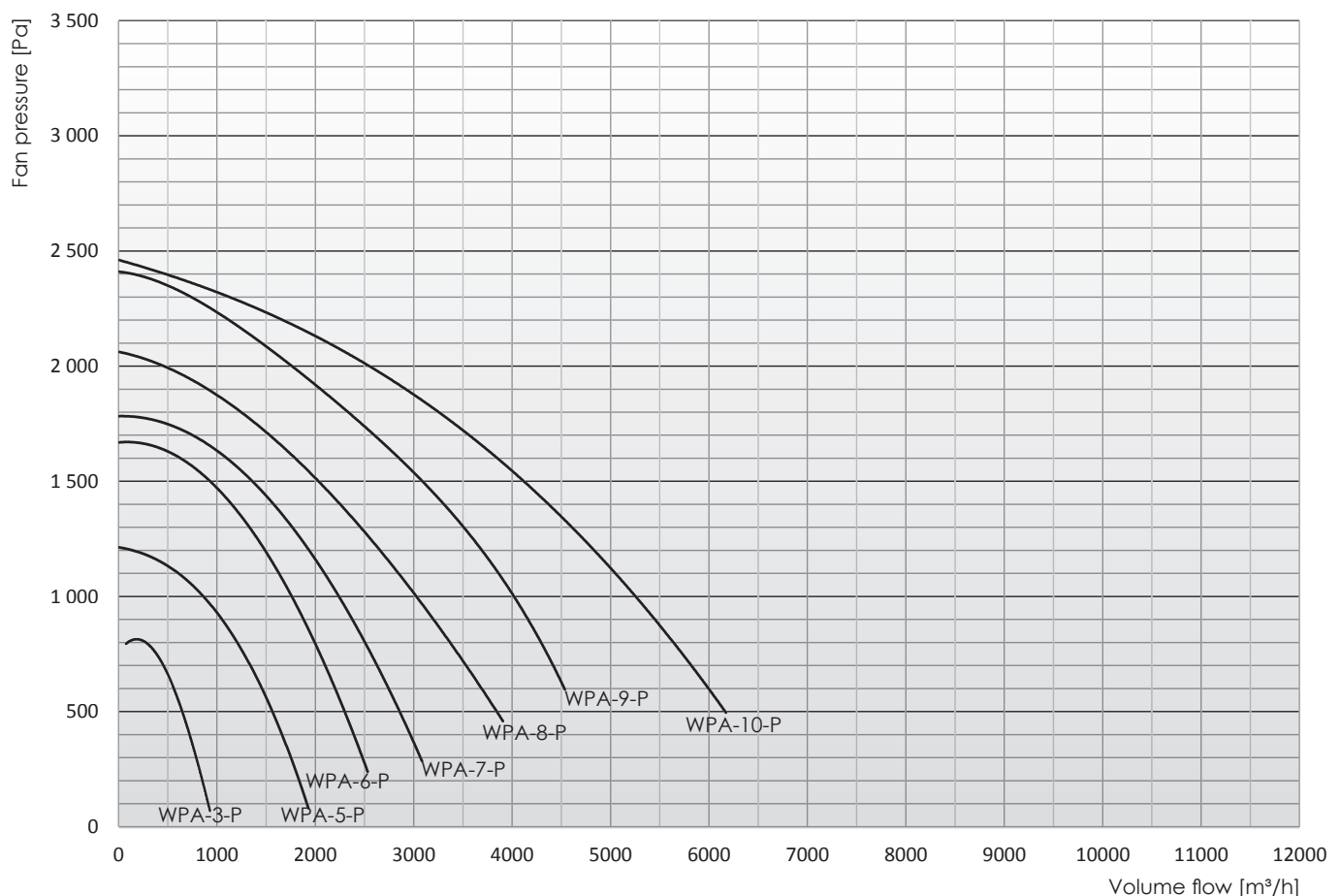
As standard, the fans are equipped with motor starters. Fan motors of power rate up to 0,55 kW are equipped with starters ŁS, whereas motors of higher power rates work with motor protective switches WS. Each fan is supplied with a five-metres-long cable with a plug.

Operational Use

In case of local extraction ventilation, it is important to fasten a flexible hose (of appropriate diameter) to the fan inlet. Additionally, the hose must have a suitable nozzle attached at the end.

Example of application of a magnetic hood is illustrated in a photograph.

In case of general ventilation, User ought to supply a hose into the ventilated room, whereby the hose must be connected to the suction ferrule or outlet ferrule of the fan.



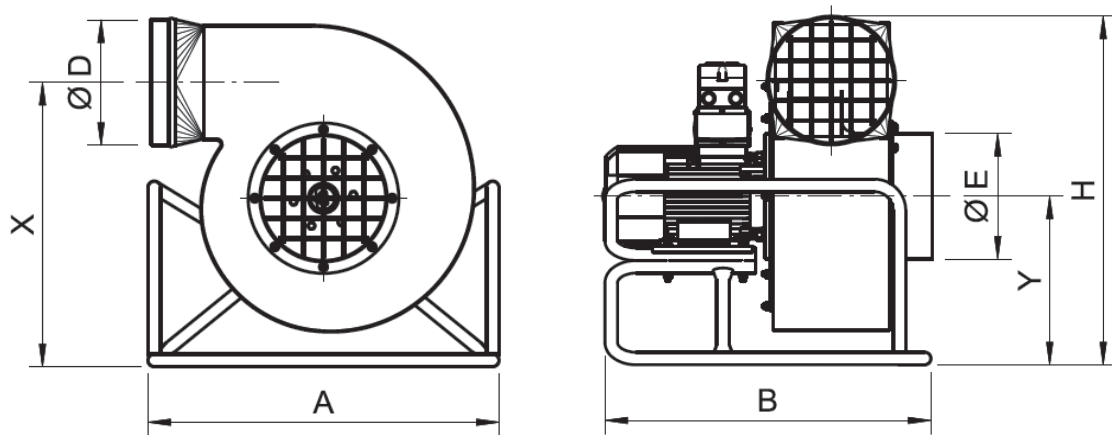


Technical Data

Type	Part.No	Synchronous rotations [1/min]	Supply voltage [V]	Motor rate [kW]	Ingress protection IP	Acoustic pressure level [dB(A)] from the distance of		Maximum volume flow [m³/h]	Maximum vacuum [Pa]	Weight [kg]
						1 m	5 m			
WPA-3-P-1	805W90	3000	230	0,37	54	69	55	950	800	16
WPA-5-P-1	805W91	3000	230	0,55	54	76	62	1900	1250	19
WPA-5-P-3	805W92		3x400							
WPA-6-P-1	805W93	3000	230	0,75	54	83	69	2500	1700	25
WPA-6-P-3	805W94		3x400							
WPA-7-P-1	805W95	3000	230	1,1	54	86	72	3100	1800	26
WPA-7-P-3	805W96		3x400							
WPA-8-P-3	805W97	3000	3x400	1,5	54	88	74	3900	2050	35
WPA-9-P-3	805W98	3000	3x400	2,2	54	91	77	4500	2400	42
WPA-10-P-3	805W99	3000	3x400	3,0	54	91	77	6200	2450	58

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

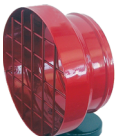
2. Maximum dustiness of the conveyed air should not exceed 0,3 g/m³.




Dimensions

Type	A [mm]	B [mm]	D [mm]	E [mm]	X [mm]	Y [mm]	H [mm]
WPA-3-P-1	465	425	125	125	365	215	520
WPA-5-P-1	475	435	160	160	425	235	520
WPA-5-P-3							
WPA-6-P-1	475	435	160	160	450	245	540
WPA-6-P-3							
WPA-7-P-1	615	515	200	160	480	290	585
WPA-7-P-3							
WPA-8-P-3	615	515	200	200	500	300	605
WPA-9-P-3	670	565	200	200	560	315	665
WPA-10-P-3	700	650	250	250	570	340	695


Magnetic hoods

	Type	Part.No	Diameter [mm]
	SM-125	818S01	125
	SM-160	818S02	160
	SM-200	818S03	200

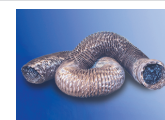
Magnetic hood holder

	Type	Part.No	Diameter [mm]
	PSM-125	818P01	125
	PSM-160	818P02	160
	PSM-200	818P03	200

Suction stand

	Type	Part.No	Inlet diameter [mm]	Connection diameter [mm]
	S-152	818S04	200	152

See Section INSTALLATION ELEMENTS



flexible hose ST/MP