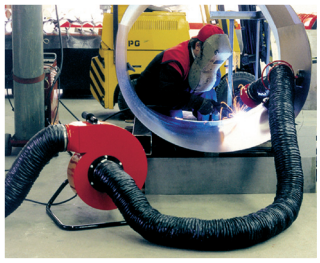
PZW – portable extraction set



Extraction set working with a magnetic suction nozzle for welding purposes

Extraction set used for drying the humid walls

Application

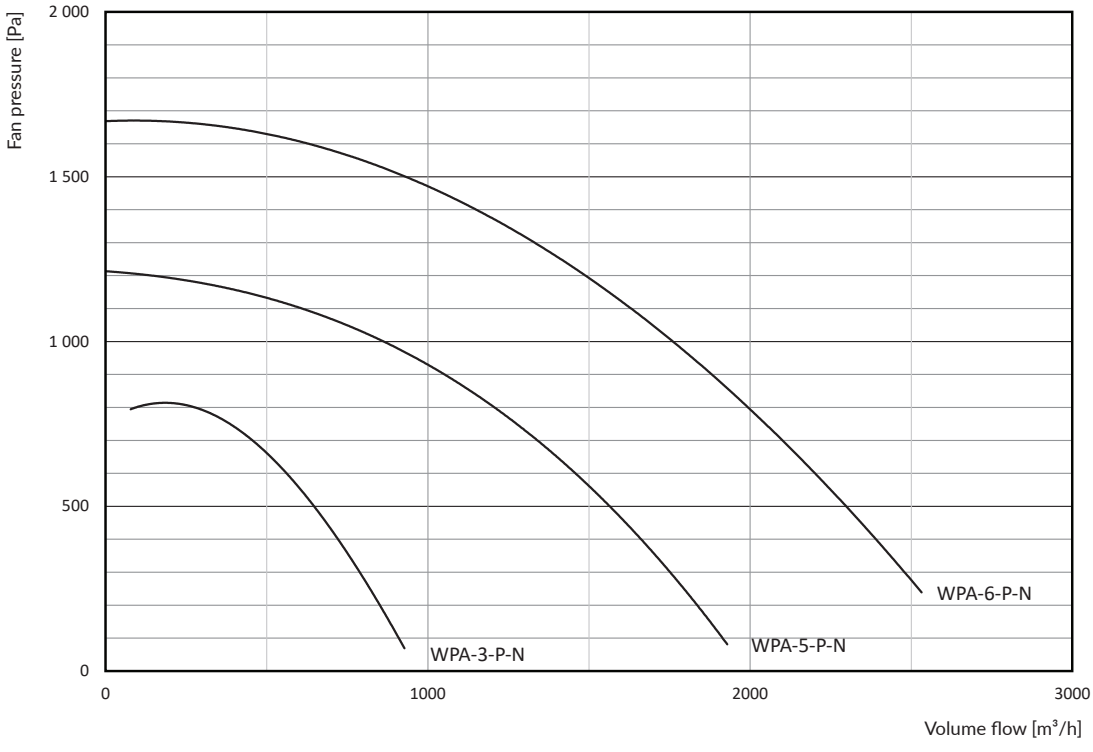
Portable extraction sets are used in many configurations. They are designed for the air-supply applications or extraction ventilation of the rooms and workplaces. They can be used as local exhausts, machine cooling systems. Additionally, they are efficient in aeration (air supply) of the process halls and storehouses. PZW sets can be applied for drying the humid rooms, by forcing the multiple air exchanges. The fans meet the requirements of ErP 2009/125/EC Directive.

Structure

The portable PZW set consists of a radial fan on a base frame. The system is equipped with a motor protective switch installed on the fan, and a five-metres long supply cable with a plug. Depending on the pplication, the fan is equipped with a hose fastened at the inlet fitting piece, or at its outlet, and a nozzle. There are available magnetic suction nozzles mounted on a steel baseframe or on a free standing suction stand.

Operational Use

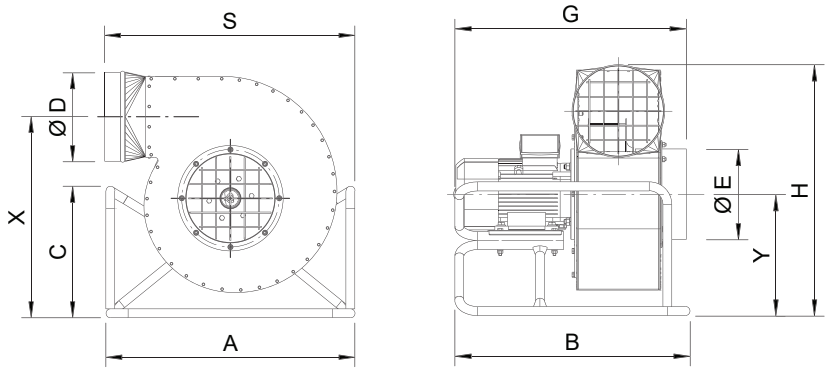
Application of the portable fan for local extraxtion ventilation: connect a hose of suitable diameter (with an adequate suction nozzle) to the fan inlet. The illustrations above show examples of application of a magnetic suction nozzle, as a welding extraction, or the use of a nozzle stand — in application for drying the humid room. In case of the general ventilation, it is important to put the hose into the room, whereby the hose should be connected to the inlet or outlet of the fan. This provides fresh air, or discharges the polluted air from the room.



Technical Data

Type	Part No.	Synchronic rotations [1/min]	Supply voltage [V]	Motor rate [kW]	Ingress protaction IP IP	Acoustic pressure level [dB(A)] from distance:		Maximum volume flow [m³/h]	Maximum vacuum [Pa]	Weight [kg]
						1 m	5 m			
WPA-3-P-1-N	805W10	3000	230	0,25	54	78	64	1160	940	12
WPA-3-P-3-N	805W21	3000	3x400	0,25	54	78	64	1160	940	12
WPA-5-P-1-N	805W11	3000	230	0,37	54	76	62	1900	1250	18
WPA-5-P-3-N	805W12	3000	3x400	0,37	54	76	62	1900	1250	18
WPA-6-P-1-N	805W13	3000	230	0,75	54	83	69	2500	1700	24
WPA-6-P-3-N	805W14	3000	3x400	0,75	54	83	69	2500	1700	24

1. Maximum temperature of the conveyed air: +60°C. Maximum temperature in the working zone +40°C.
2. Maximum dustiness of the conveyed air should not exceed 0,3 g/m³.



Dimensions

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	S [mm]²	G[mm]²	X [mm]	Y [mm]	H [mm]²
WPA-3-P-1-N	465	425	–¹	125	125	455	420	360	205	425
WPA-3-P-3-N										
WPA-5-P-1-N	475	440	–¹	160	160	465	440	425	235	500
WPA-5-P-3-N										
WPA-6-P-1-N	475	440	–¹	160	160	500	450	450	245	525
WPA-6-P-3-N										

1. Construction of the baseframe does not have branching oupwards.
2. Dimension is taken between the extremal points of the device outline.

Magnetic suction nozzles

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

Holder for the magnetic nozzle

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

Hose

Type	Part No.	Internal diameter [mm]	Unit weight [kg/m]	Temperature range of the conveyed air [°C]	Work pressure [hPa]	Maximum vacuum [hPa]	Bending radius [mm]
ST/MP-125	863P93	125	0,36	from -30 up to +120	500	80	88
ST/MP-160	863P94	160	0,42	from -30 up to +120	200	60	110

Suction stand

Type	Part No.	Internal diameter [mm]	Diameter of the connection fitting piece [mm]
S-152	818S04	200	152