

WP-D/Ex – roof fan



II 2 G c Ex e II T3

Purpose

First of all, WP-D/Ex fans are designed for application in areas of explosion hazard, where explosive atmosphere (i.e. mixture of flammable compounds in the form of gas, vapour and mist with the air) can occur.

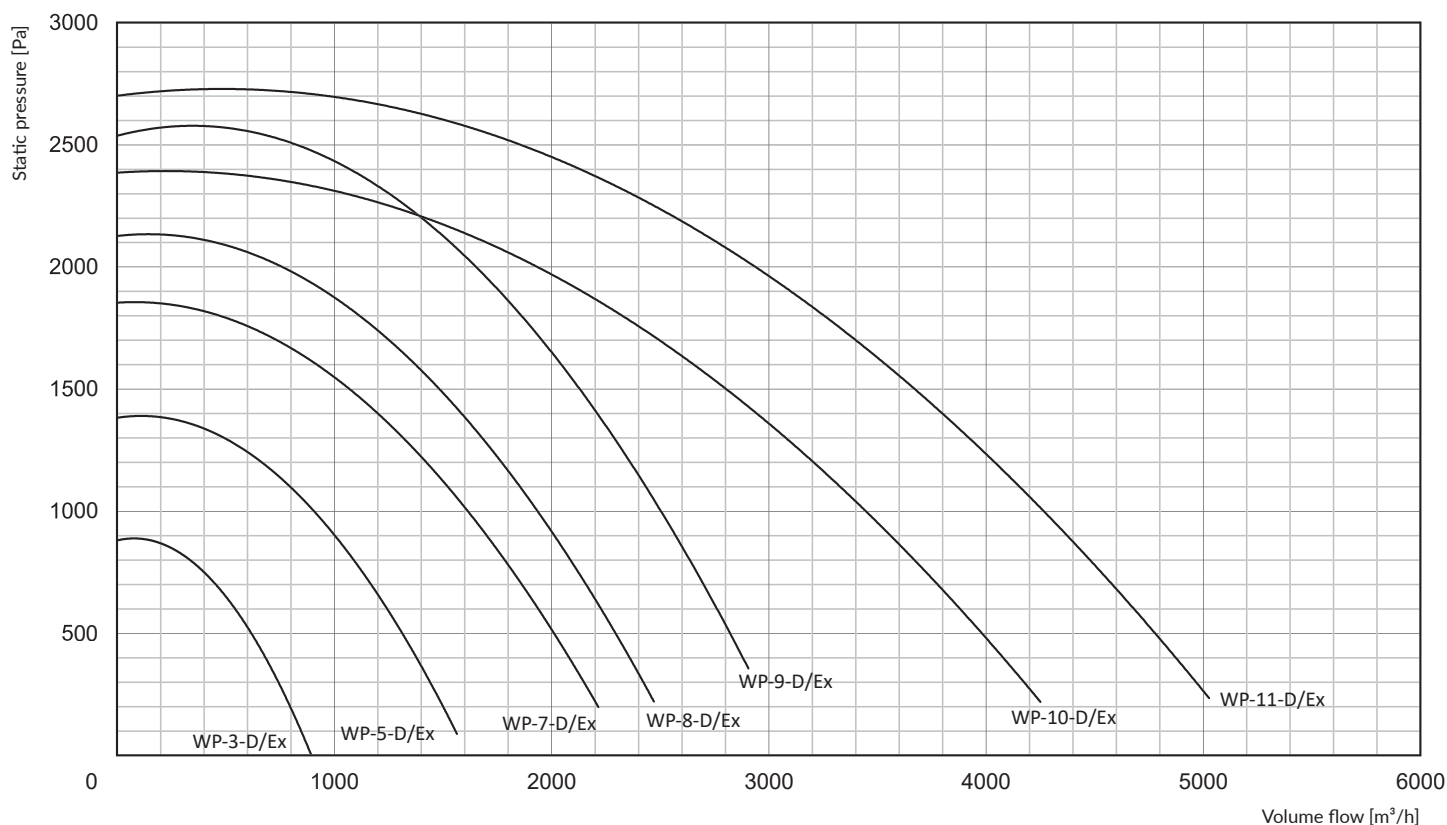
Increased fan pressure make them particularly efficient within installations of local exhausts, filtering units and also within the system of significant flow resistances.

Structure

The fan consists of subsequent elements:

- spiral housing,
- Ex motor,
- radial impeller – installed directly at the motor shaft,
- silencer – installed at the fan outlet,
- fan mounting flange,
- hood.

The basic elements of the fan (housing, impeller, silencer, flange) are manufactured of non-magnetic austenitic stainless steel. The hood is of aluminium sheet. The whole fan is in natural colour of stainless steel.



Technical data

Type	Part no.	Marking	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			
WP-3-D/Ex	808W49	II 2 G c Ex e II T3	3000	3x400	0,37	54	61	52	900	900	19
WP-5-D/Ex	808W50	II 2 G c Ex e II T3	3000	3x400	0,55	54	64	56	1550	1400	24
WP-7-D/Ex	808W51	II 2 G c Ex e II T3	3000	3x400	1,1	54	71	62	2200	1850	26
WP-8-D/Ex	808W52	II 2 G c Ex e II T3	3000	3x400	1,5	54	77	67	2500	2200	37
WP-9-D/Ex	808W53	II 2 G c Ex e II T3	3000	3x400	2,2	54	77	68	2800	2500	43
WP-10-D/Ex	808W54	II 2 G c Ex e II T3	3000	3x400	4,0	54	78	69	4250	2400	78
WP-11-D/Ex	808W55	II 2 G c Ex e II T3	3000	3x400	4,0	54	80	70	5000	2700	80

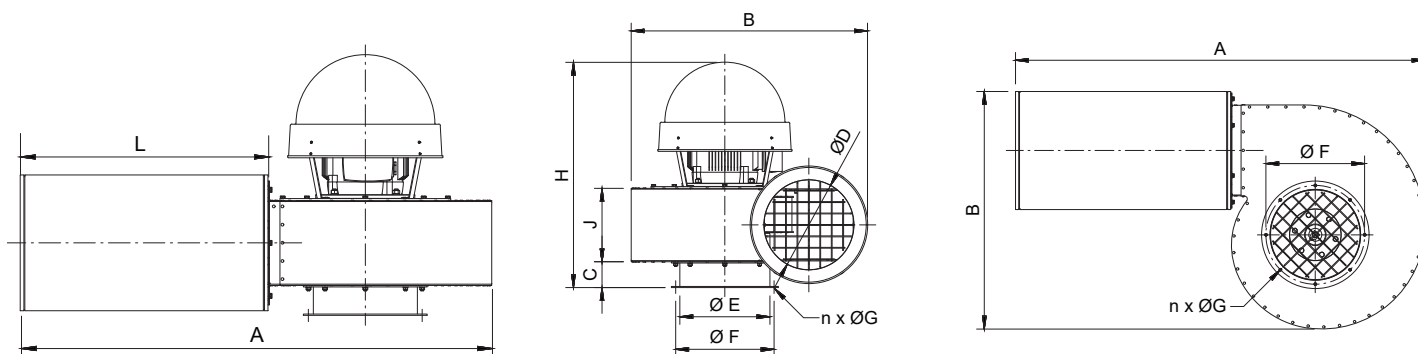
* Fan motors are not adapted for rotational speed governors.

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.

3. Acoustic pressure level measurements have been taken at:

- maximum air flow efficiency,
- the installed silencer type TK at the inlet (silencer length 370 mm is for the WP-3-D/Ex only, whereas the length 1000 mm for the other fans of the series).



Dimensions

Type	A [mm]	B [mm]	L [mm]	C [mm]	D [mm]	E [mm]	F [mm]	n [pc.]	G [mm]	H [mm]	J [mm]
WP-3-D/Ex	840	445	500	50	125	125	155	6	6,5	480	130
WP-5-D/Ex	915	525	500	60	160	160	194	6	6,5	480	140
WP-7-D/Ex	965	570	500	60	200	160	194	6	6,5	510	155
WP-8-D/Ex	990	600	500	60	200	200	224	8	8,5	535	155
WP-9-D/Ex	1030	665	500	60	200	200	224	8	8,5	580	155
WP-10-D/Ex	1050	680	500	60	250	250	274	8	8,5	690	232
WP-11-D/Ex	1070	700	500	60	250	250	274	8	8,5	690	232