

## WP-E/Ex – stand fan



 II 2 G c Ex e II T3

### Purpose

WP-E/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.

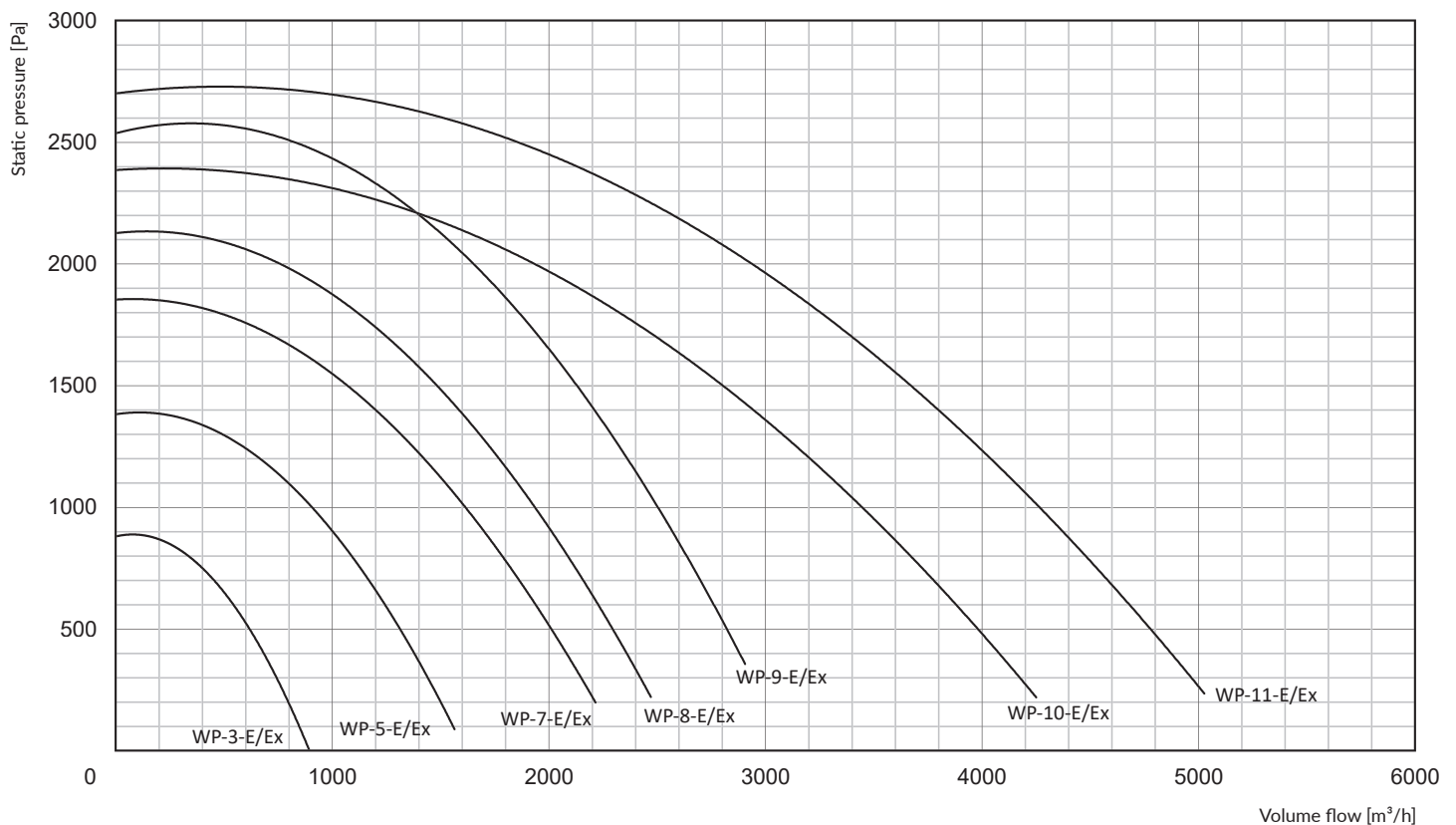
Increased fan pressure make them particularly efficient within installations of local exhausts, filtering units and also within the system of significant flow resistances. The fans are installed on wall brackets inside the rooms.

### Structure

The fan consists of subsequent elements:

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

The basic elements of the fan (housing, impeller, flange) are manufactured of non-magnetic austenitic stainless steel. 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-E/Ex	808W40	II 2 G c Ex e II T3	3000	3x400	0,37	54	58	51	900	900	14
WP-5-E/Ex	808W41	II 2 G c Ex e II T3	3000	3x400	0,55	54	63	55	1550	1400	19
WP-7-E/Ex	808W42	II 2 G c Ex e II T3	3000	3x400	1,1	54	67	61	2200	1850	24
WP-8-E/Ex	808W43	II 2 G c Ex e II T3	3000	3x400	1,5	54	72	64	2500	2200	32
WP-9-E/Ex	808W44	II 2 G c Ex e II T3	3000	3x400	2,2	54	74	67	2800	2500	40
WP-10-E/Ex	808W45	II 2 G c Ex e II T3	3000	3x400	4,0	54	75	68	4250	2400	69
WP-11-E/Ex	808W46	II 2 G c Ex e II T3	3000	3x400	4,0	54	77	69	5000	2700	70

\* Fan motors are not adapted for rotational speed governors.

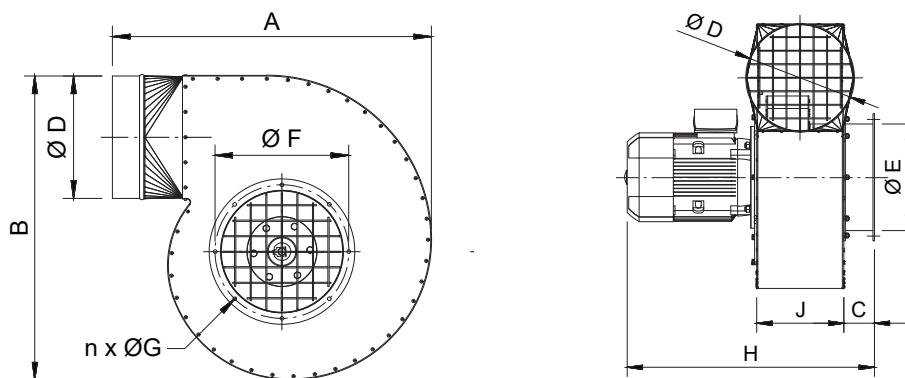
1. Maximum temperature of the conveyed air is +60°C. Maximum temperature in the work area +40°C.

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-E/Ex only, whereas the length 1000 mm for the other fans of the series).



## Dimensions

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	n [pc.]	G [mm]	H [mm]	J [mm]
WP-3-E/Ex	410	385	50	125	125	155	6	6,5	410	130
WP-5-E/Ex	485	480	60	160	160	194	6	6,5	445	140
WP-7-E/Ex	550	520	60	200	160	194	6	6,5	485	155
WP-8-E/Ex	570	550	60	200	200	224	8	8,5	550	155
WP-9-E/Ex	615	610	60	200	200	224	8	8,5	525	155
WP-10-E/Ex	645	615	60	250	250	274	8	8,5	685	232
WP-11-E/Ex	665	635	60	250	250	274	8	8,5	650	232