



Application:

Explosion-proof fans meeting the requirements of the ATEX directive. The fans are designed to work in areas where there is a risk of explosion of gases, vapors and explosive dust.

- Temperature class: from T1 to T3 on request T4.
- Temperature of the pumped medium up to +40°C.
- Explosive zone: Z1 (1) and Z2 (2).
- Explosion category: II.

The fans are made in two versions:

To Zone 1 (2G):

CE II 2G Ex h IIB T3 Gb

Explosion-proof three-phase motor not suitable for speed regulation.

To zone 2 or 22 (3G/3D):

CE II 3G Ex h IIB+H2 T3 Gc

CE II 3D Ex h IIIB T120stC Dc

Explosion-proof three-phase motor adapted to speed regulation with a dedicated frequency converter.

Construction:

- Housing - chromium-nickel steel.
- Dome (engine cover) - powder coated steel.
- Drum impeller - chromium-nickel steel.
- Electric motor, explosion-proof, three-phase.

On request, we manufacture explosion-proof fans:

- to zone 1 for speed regulation

Technical data:

Typ	Efficiency MAX	Efficiency nominal	Nominal pressure	Input power	Highest speed	Rated Current** 3x400V 2G	Rated Current** 3x400V 3G/3D	Noise*	Weight
	[m ³ /h]	[m ³ /h]	[Pa]	[kW]	[obr./min]	[A]	[A]	[dB(A)]	[kg]
WDBE-16 M	480	400	150	0,12	1400	0,5	0,55	55	14
WDBE-16 D	1425	1100	600	0,55	2800	1,4	1,4	71	20
WDBE-18 M	1220	500	150	0,25	1400	0,71	0,78	68	26
WDBE-18D	2700	1500	400	1,5	2800	3,3	3,1	77	26
WDBE-20 D	2050	810	250	0,37	1400	0,98	1,1	63	25
WDBE-25 S	2425	900	300	0,75	1400	1,9	1,85	70	35
WDBE-31 M	2400	1500	185	0,75	900	2,1	2,1	62	39
WDBE-31 D	3200	2350	390	1,5	1400	3,4	3,5	73	36
WDBE-35 M	3500	2500	400	1,5	1400	3,4	3,5	71	41
WDBE-35 S	7000	5000	350	2,2	950	5,4	5,6	73	88

**Guide values, may change the application depending on the motor used *Measurement at a distance of 4m
Rated currents are given on the rating plate and in the operating instructions.

Dimensions:

Typ	ØD	ØD1	ØA	B	n x Ød
	[mm]	[mm]	[mm]	[mm]	[mm]
WDBE-16	160	185	440	450	4x7
WDBE-20	200	225	630	580	4x9,5
WDBE-25	250	275	630	580	4x9,5
WDBE-31	315	352	630	600	8x9,5
WDBE-35	355	387	730	700	8x9,5

