


**Application:**

Explosion-proof centrifugal fans meeting the requirements of the ATEX directive. Fans are for work in zones with explosion hazards of gases, vapors and explosive dusts.

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

On request, we manufacture explosion-proof fans:  
 - to zone 1 for speed regulation,

**The fans are made in two versions:**
**To Zone 1 (2G):**

☑ II 2G Ex h IIB T3 Gb

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

**For zone 2 and 22 (3G/3D):**

☑ II 3G Ex h IIB+H2 T3 Gc

☑ II 3D Ex h IIIB T120stC Dc

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

**Construction:**

- Fan housing - chromium-nickel steel.
- Impeller - drum, not very resistant to contamination - chromium-nickel steel.
- Explosion-proof electric motor, three-phase.

As a standard, we manufacture fans in the L2 (LG90) casing arrangement, other casing arrangements are made to order.

**Technical data:**

Typ	Efficiency MAX	Efficiency nominal	Nominal pressure	Input power	Highest speed	Rated Current ** 3x400V 2G	Rated Current ** 3x400V 3G/3D	Noise*	Weight
	[m³/h]	[m³/h]	[Pa]	[kW]	[obr./min]	[A]	[A]	[dB(A)]	[kg]
WBE-16 M	800	400	150	0,12	1400	0,5	0,55	65	13
WBE-16 D	1450	1200	375	0,75	2800	1,7	1,8	70	15
WBE-18 M	1440	500	150	0,25	1400	0,71	0,78	60	16
WBE-18 D	2180	1800	480	1,50	2800	3,3	3,1	70	28
WBE-20	1930	1200	235	0,37	1400	0,98	1,1	69	21
WBE-25 M	1680	700	150	0,37	900	1,2	1,24	65	41
WBE-25 D	3180	2400	280	0,75	1400	1,9	1,85	68	25
WBE-31 M	3460	2000	250	0,75	900	2,1	2,1	65	41
WBE-31 D	5400	2400	400	2,20	1400	4,8	4,7	70	57
WBE-35 M	7200	6000	320	2,2	900	5,4	5,6	72	62
WBE-35 D	13800	9750	950	7,5	1400	14,6	15,2	82	95

\*\*Guide values, may change the application depending on the motor used  
 Rated currents are given on the rating plate and in the operating instructions.

\*Measurement at a distance of 4m

**Dimensions:**

Typ	A	B	C	D	E	H	K	M	N	n x Ød	J	L	X	n x Ød1	G	g	F	f	n x Ød2
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
WBE-16	125	112	95	249	307	156	180	160	185	4 x 7	40	350	430	4 x 7	149	-	136	-	4x7
WBE-18	125	160	125	327	395	190	230	160	185	4 x 7	60	400	520	4 x 7	149	-	184	-	4x7
WBE-20	160	160	160	382	455	215	230	200	225	4 x 9,5	50	400	460	4 x 7	184	-	184	-	4x7
WBE-25	180	200	180	450	523	243	310	250	275	4 x 9,5	50	450	500	4 x 7	204	140	224	140	12x7
WBE-31	200	250	220	525	630	285	350	315	352	8 x 9,5	60	500	600	4 x 10	232	140	182	140	12x10
WBE-35	250	315	265	654	766	344	500	500	392	8 x 9,5	80	550	770	5 x 10	282	140	347	140	12x10

