



## For ATEX zone 2/2, 1/1 and 21/21

Centrifugal fan with closed fan wheel that is used at source extraction from air pollutant or chip making work processes. The transported air may not contain adhesive or sticky fumes, dust and chips.

- Fan and spark retardant pre-ring are made according to norm EN 14986

### Work area:

Max. pressure: 3,100Pa

Max. air volume: 10,500m<sup>3</sup>/h

Max. dust volume: 5g/m<sup>3</sup>, non-sticky

Max. particle size: 5x5x5mm, non-sticky

Temperature: Extracted air (transport air in fan) = max. 60°C

Ambient temperature: max. 40°C

### Construction:

Radial fan with closed fan wheel mounted in fully welded steel cabinet and with directly coupled motor.

**Model:** C (Transport of dust)

**Wheel:** Fan wheel type P-G. Closed wheel with backward straight, self-cleaning blades  
Static/dynamically balanced according to ISO 14694 (BV3 G 6.3)

**Cabinet:** Fully welded in 2mm steel plate  
Spark retardant pre-ring made in copper  
Fan housing can be mounted with various inlet positions (RD0, RD90, RD180, RD270)  
Standard enamelling:  
Standard delivered in galvanzied version. Subsequently powder enamelled (RAL 5007).

**Motor:** B5 flange motor  
3x400V, 50Hz (3-phased motors 3x400VAC can with special motor frequency regulated. Motor must be marked with frequency regulation data.)  
Motor zone 2: II 3G Ex - IIC T3  
Motor zone 1: II 2G Exe - IIC T3 / II 2G Exde IIC T4  
Motor zone 21: II 2D Ex h IIIB T120°C

Fan type VE-A-C is made especially for the selected ATEX zone and equipped with ATEX-certificate from factory.

### Constructed and tested according to:

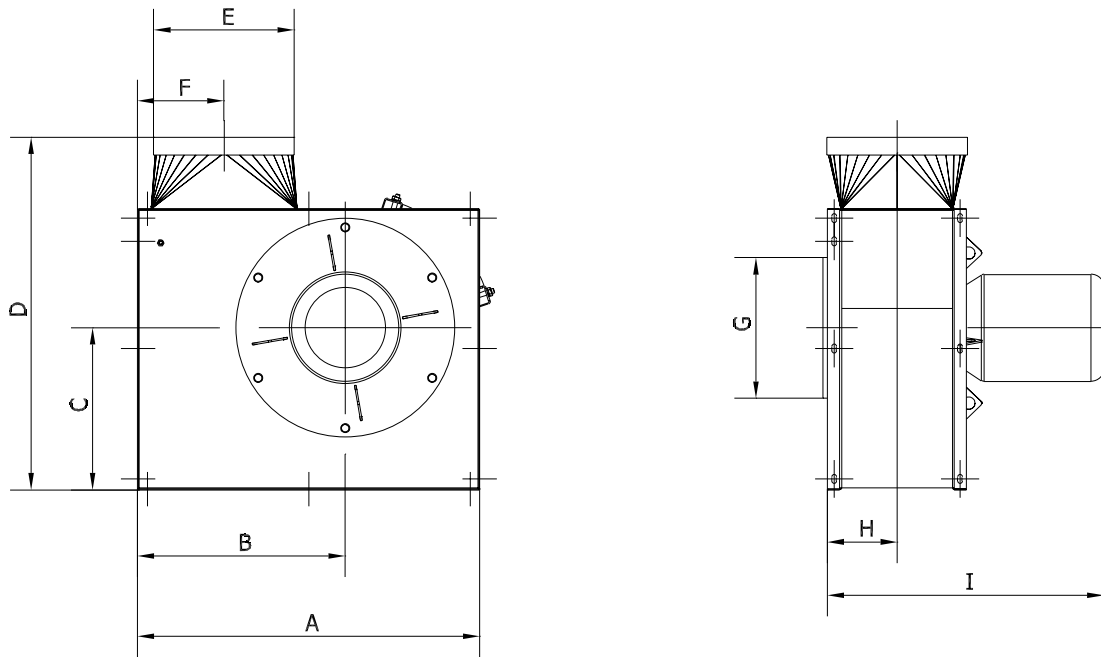
- Machine Directive 2006/42/EF
- ATEX-Directive 2014/34/EU
- EMC-Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- EN 1127-1
- EN 12100
- EN ISO 12499
- EN ISO 13857
- ISO 14694
- EN 14986
- ISO 3746
- ISO 5801
- ISO 60079-(0+A11)-(1)-(7)-(14)-(15)-(31)
- ISO 60204-1
- EN 60529+A1+A2
- IEC 60034-(1)-(2-1)-(5)-(6)-(7)-(8)-(9)-(12)-(14)-(30-1)
- EN ISO 80079-36



Type	Item no. ATEX zone 2	Item no. ATEX zone 1 <sup>1)</sup>	Item no. ATEX zone 21 <sup>1)</sup>
VE-A 2200-C2	10 324 030	10 324 500	10 324 540
VE-A 3000-C2	10 324 080	10 324 550	10 324 590
VE-A 4000-C2	10 324 130	10 324 600	10 324 640
VE-A 5500-C2	10 324 180	10 324 650	10 324 690
VE-A 7500-C2	10 324 230	10 324 700	10 324 740
VE-A 2200-C4	10 324 280	10 324 750	-
VE-A 3000-C4	10 324 330	10 324 800	-
VE-A 4000-C4	10 324 380	10 324 850	-
VE-A 5500-C4	10 324 430	10 324 900	-
VE-A 7500-C4	10 324 480	10 324 950	-

<sup>1)</sup> DTI Ref. no. 2017-1-0260A

Type	Volt [V]	Pole	[kW]	Max. amp.	Start current	Weight [kg]
VE-A 2200-C2	3x400	2	2.20	4.60	37.40	60.0
VE-A 3000-C2	3x400	2	3.00	6.00	50.50	69.0
VE-A 4000-C2	3x400	2	4.00	7.70	63.00	95.0
VE-A 5500-C2	3x400	2	5.50	11.50	88.20	115.0
VE-A 7500-C2	3x400	2	7.50	14.50	113.40	129.0
VE-A 2200-C4	3x400	4	0.55	1.60	9.20	51.0
VE-A 3000-C4	3x400	4	0.55	1.60	9.20	52.0
VE-A 4000-C4	3x400	4	0.55	1.60	9.20	66.0
VE-A 5500-C4	3x400	4	0.75	2.10	10.70	67.0
VE-A 7500-C4	3x400	4	1.10	2.70	14.30	72.0

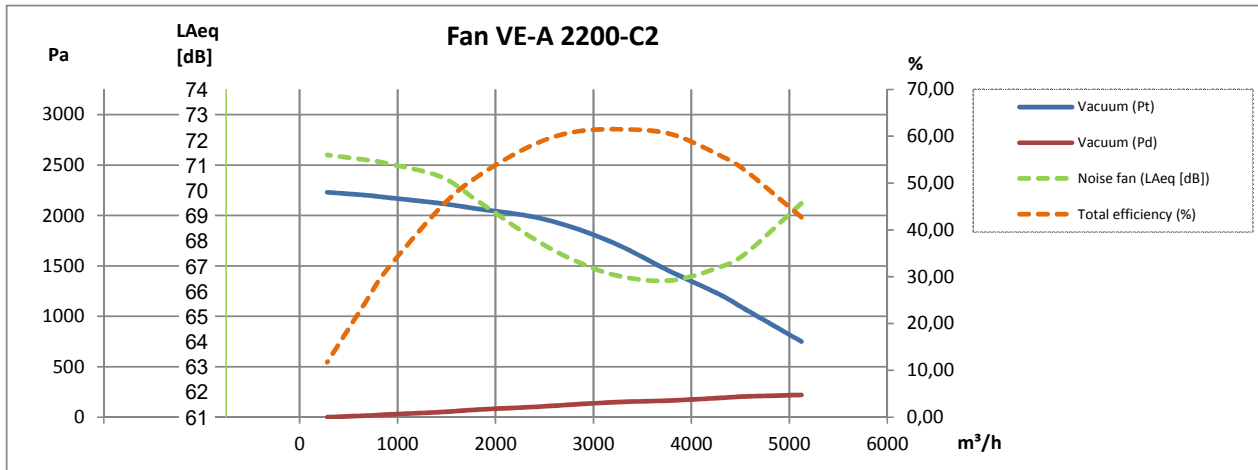


Type	A	B	C	D	E	F	G	H	I	J
VE-A 2200-C2	767	465	363	780	ø315	194	315	144	543	0
VE-A 3000-C2	767	465	363	780	ø315	194	315	156	647	0
VE-A 4000-C2	859	519	408	903	ø400	216	400	159	616	0
VE-A 5500-C2	891	519	408	903	ø500	250	500	172	702	32
VE-A 7500-C2	891	519	408	903	ø500	250	500	191	777	31
VE-A 2200-C4	767	465	363	780	ø315	194	315	144	490	0
VE-A 3000-C4	767	465	363	780	ø315	194	315	156	513	0
VE-A 4000-C4	859	519	408	903	ø400	216	400	159	518	0
VE-A 5500-C4	891	519	408	903	ø500	250	500	172	557	32
VE-A 7500-C4	891	519	408	903	ø500	250	500	191	636	31

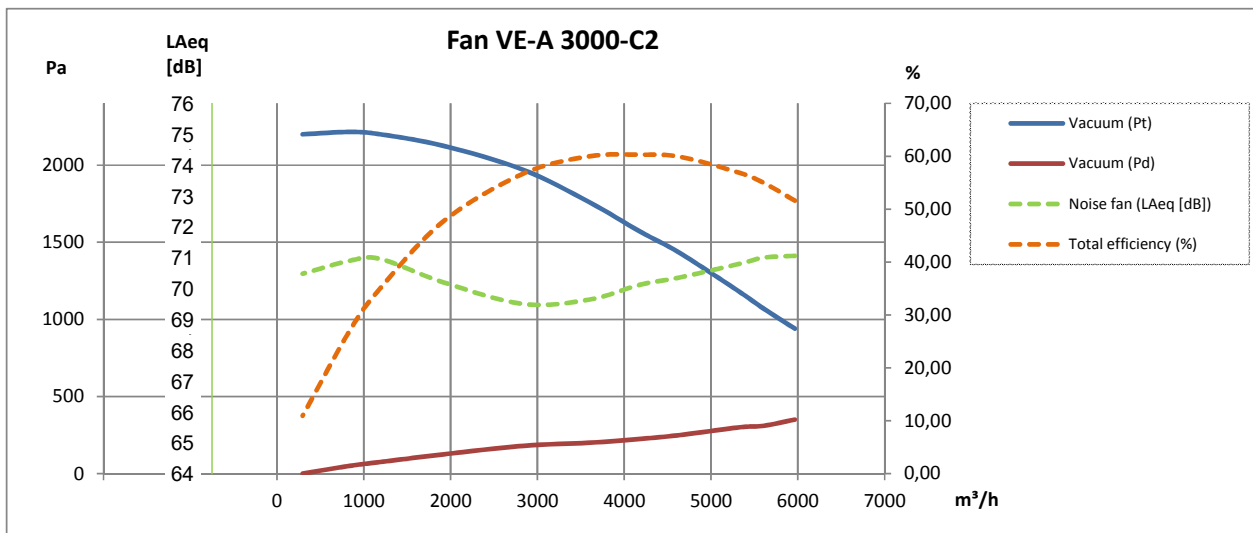
Please, note: Connection measurements are nipple measurements



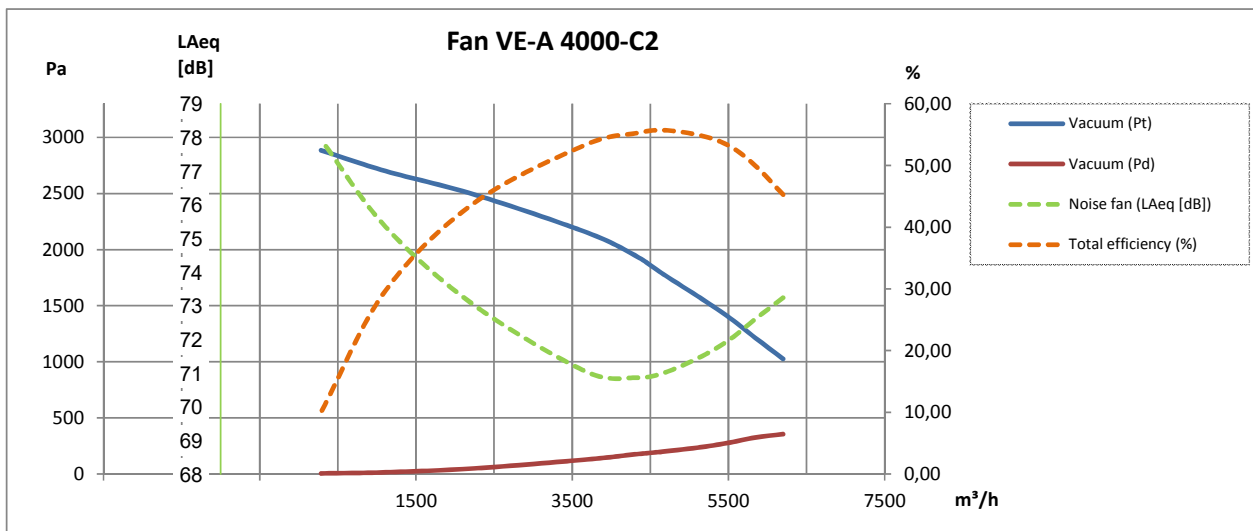
2-pole:



2-pole:



2-pole:

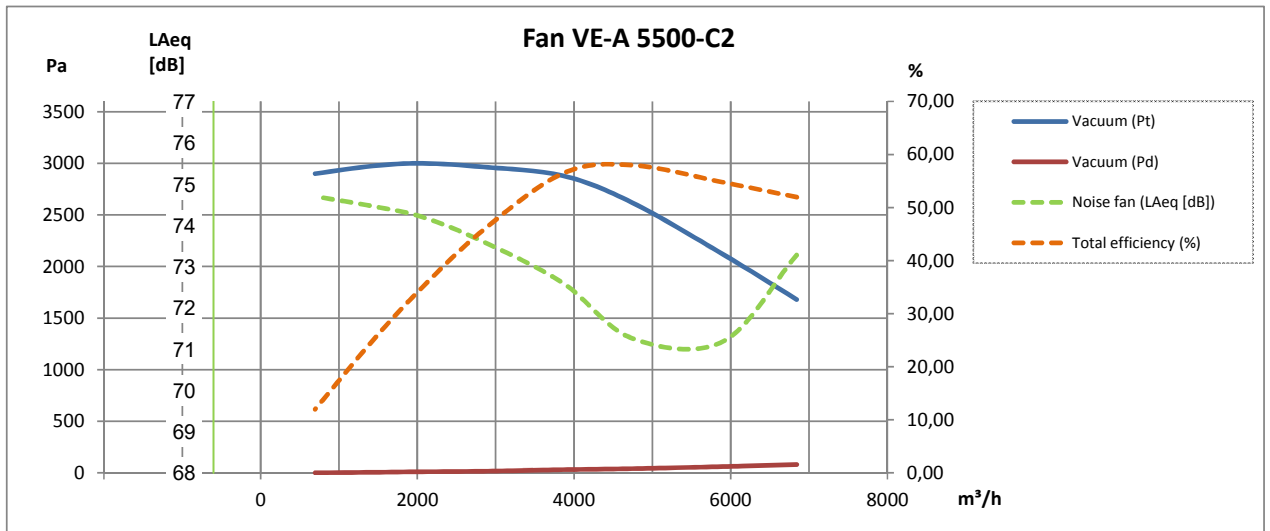


Rev. 01.20 Data is subject to alterations

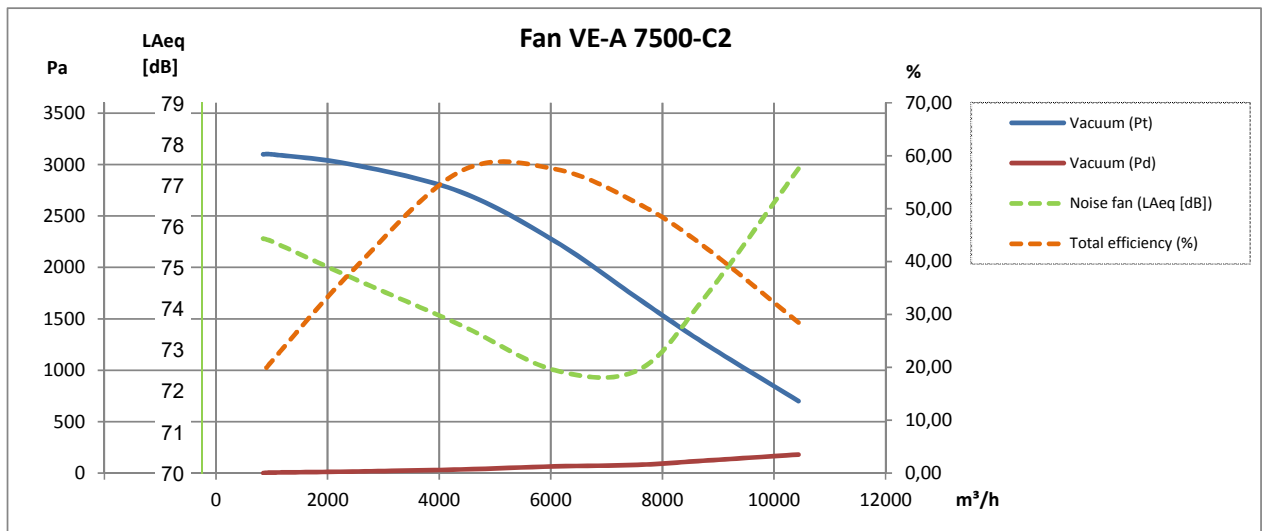




2-pole:



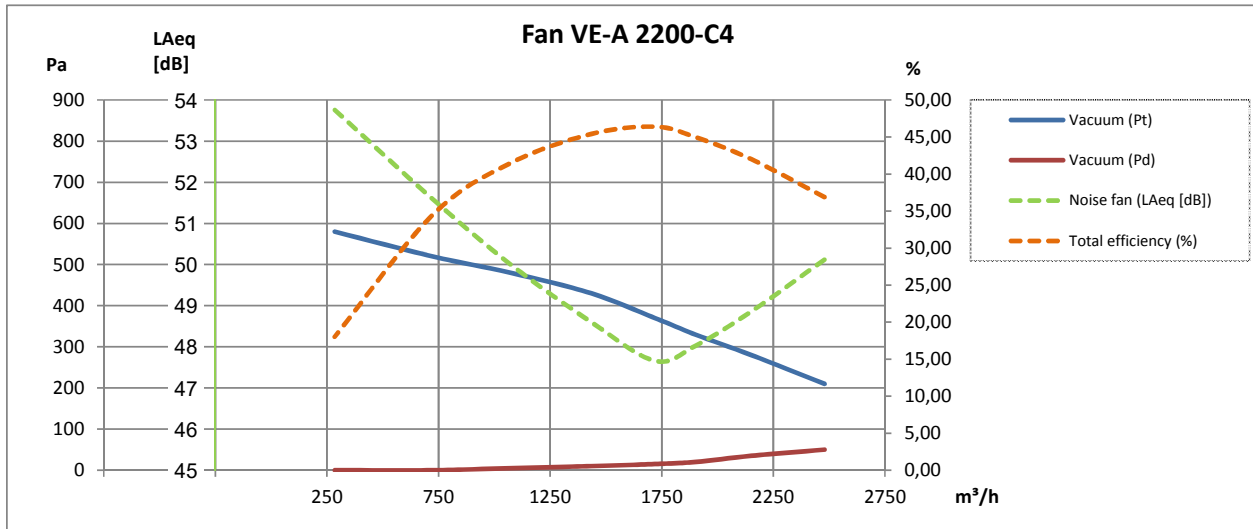
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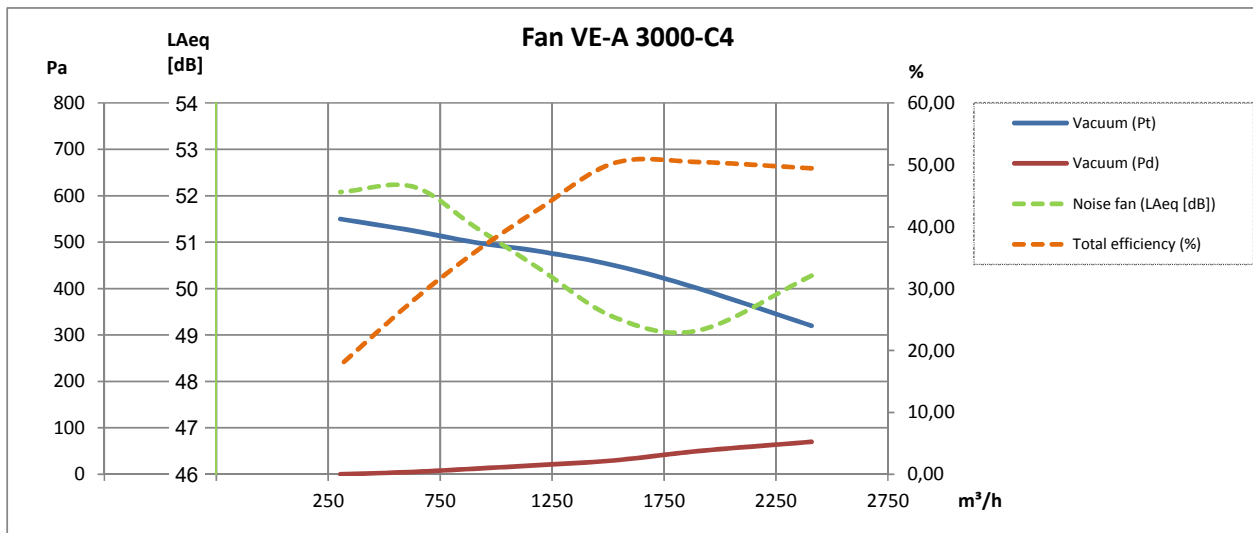
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Rev. 01.20



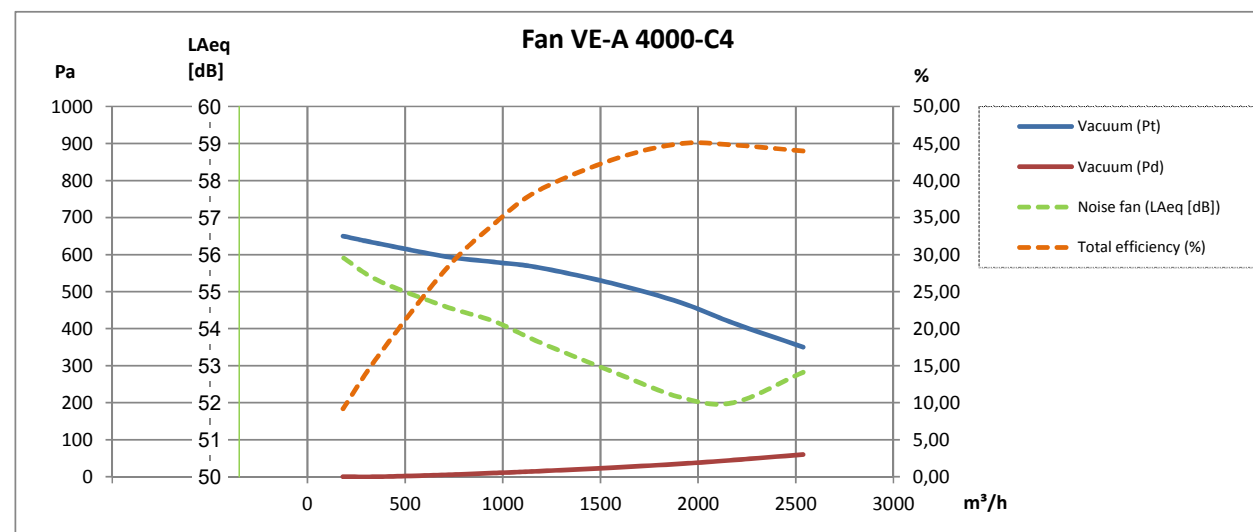
4-pole:



4-pole:



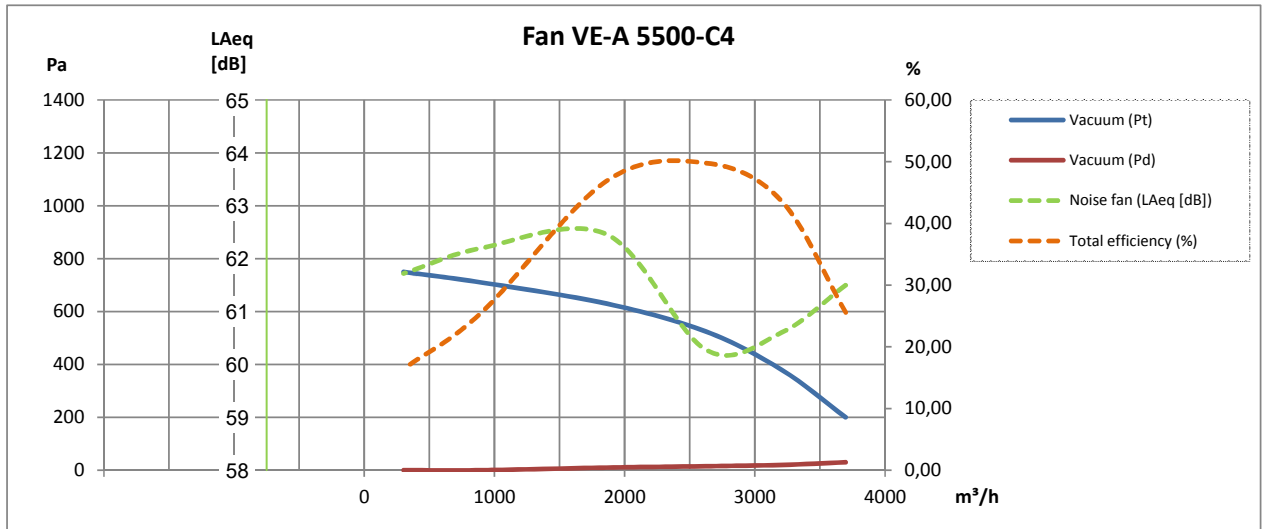
4-pole:



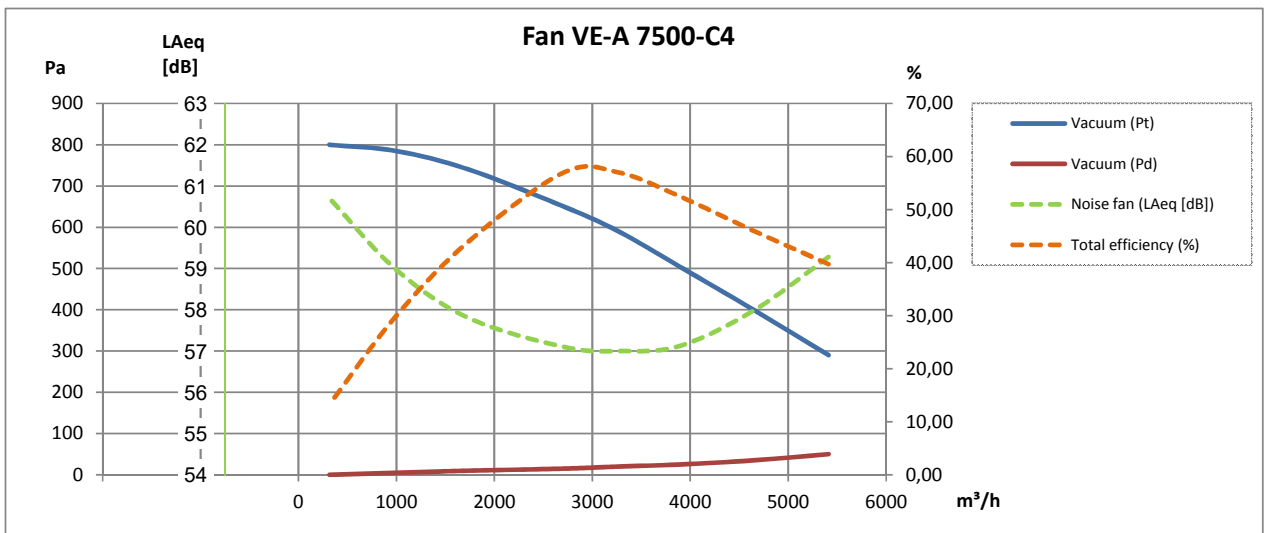
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4-pole:



4-pole:



## Sound enclosure type VAB-A\*:

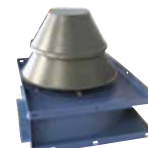
Type (Position RD0)	Item no.
VE-A 2200	10 330 650
VE-A 3000	10 330 600
VE-A 4000	10 330 700
VE-A 5500	10 330 750
VE-A 7500	10 330 800

\* Only for clean air transport



## Weather-protected cover for air cooling intake and out for elektro motors:

Type	Item no.
VE 2000, VE 3000	03 235 800
VE 4000	03 240 800



## Fan wheels:

Type	Hub [mm]	Fan type**	[Hz]	Item no.
VE 2200	ø24	C2	50	03 384 005
VE 3000	ø28	C2	50	03 386 005
VE 3900	ø28	C2	50	03 387 005
VE 4000	ø28	C2	50	03 388 005
VE 5500	ø38	C2	50	03 390 005
VE 7500	ø38	C2	50	03 392 005
VE 2200	ø19	C4	50	03 384 505
VE 3000	ø19	C4	50	03 386 505
VE 3900	ø19	C4	50	03 387 505
VE 4000	ø19	C4	50	03 388 505
VE 5500	ø19	C4	50	03 390 505
VE 7500	ø24	C4	50	03 392 505



\*\*Closed Transport



## Further is available:

- Pressure guard in ATEX-version
- Mounting fittings
- Vibrations absorbers
- Safety grid
- FLEX flexible connections
- Frequency converter
- Thermister relay
- Pressure transmitter

Data is subject to alterations

Rev. 01,20

Photo:  
ABB frequency converter type ACH 580  
- Do not forget application of ATEX-approved thermister relay - see price list