



For ATEX zone 2/2, 1/1, 22/22 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: 2,150Pa

Max. air volume: 2,100m³/h

Max. dust volume: 5g/m³, 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 chips)

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 bimetallic sensor
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 22: II 3D Ex - IIB T120°C
Motor zone 21: II 2D Ex h IIB T120°C

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

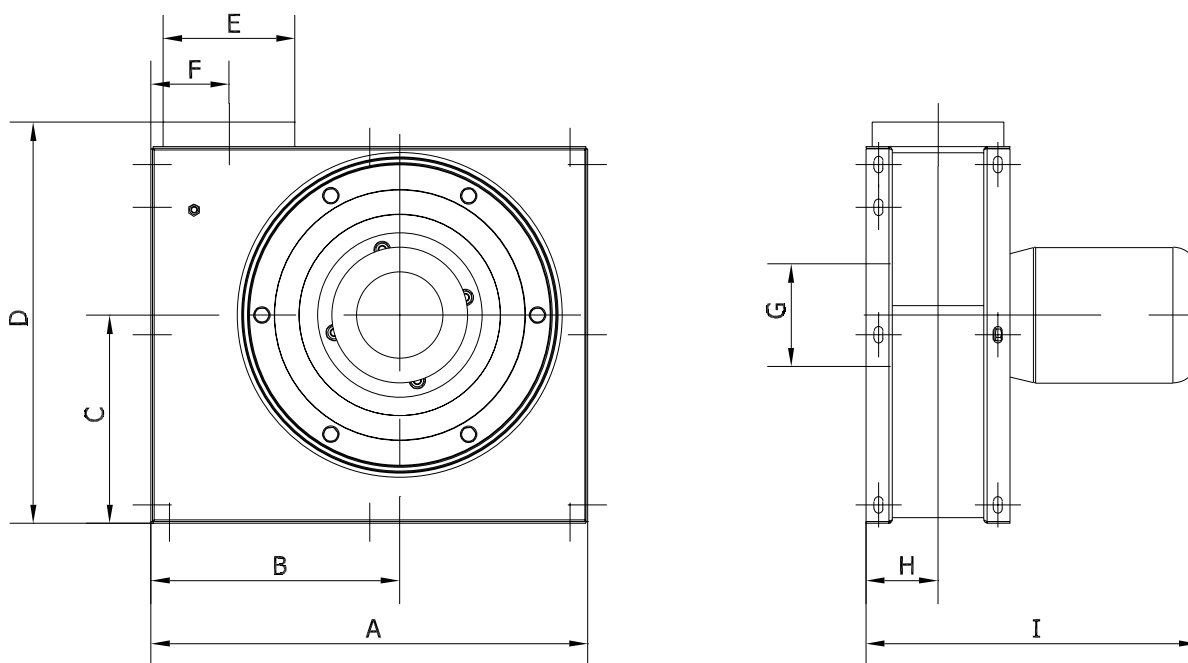
Constructed and tested according to:

- 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 ¹⁾	Item no. ATEX zone 22	Item no. ATEX zone 21 ¹⁾
VL-A 550-C2	10 325 010	10 326 010	10 325 030	10 326 030
VL-A 750-C2	10 325 060	10 326 060	10 325 080	10 326 080
VL-A 1150-C2	10 325 110	10 326 110	10 325 130	10 326 130
VL-A 550-C4	10 325 160	10 326 160	-	-
VL-A 750-C4	10 325 210	10 326 210	-	-
VL-A 1150-C4	10 325 260	10 326 260	-	-

¹⁾ DTI Ref. no. 2017-1-0261A

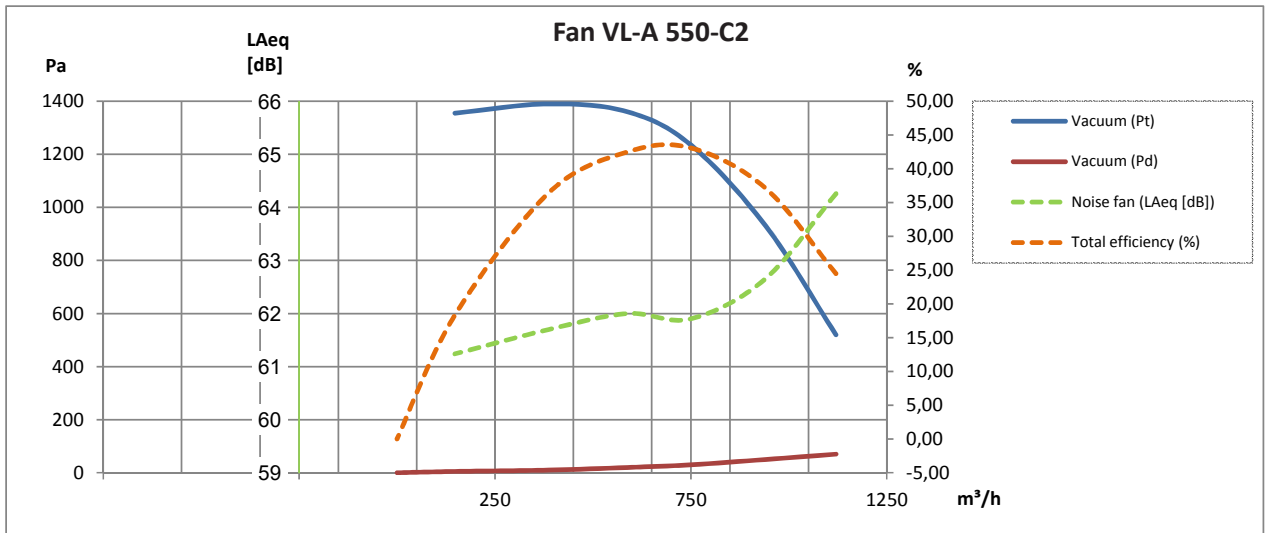
Type	Volt [V]	Pole	[kW]	Max. amp.	Start current	Weight [kg]
VL-A 550-C2	3x400	2	0.55	1.40	8.00	19.0
VL-A 750-C2	3x400	2	0.75	1.72	12.75	19.0
VL-A 1150-C2	3x400	2	1.10	2.40	17.75	23.0
VL-A 550-C4	3x400	4	0.55	1.60	9.20	19.0
VL-A 750-C4	3x400	4	0.55	1.60	9.20	19.0
VL-A 1150-C4	3x400	4	0.55	1.60	9.20	23.0



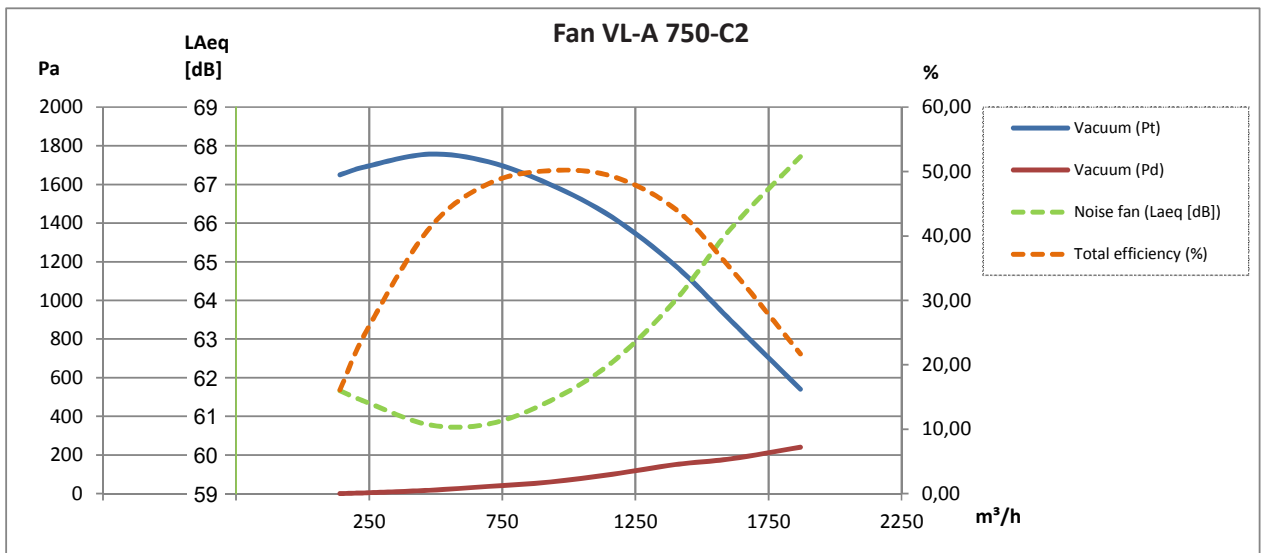
Type	A	B	C	D	E	F	G	H	I
VL-A 550-C2	545	331	236	520	∅160	92	∅160	87	369
VL-A 750-C2	531	302	253	488	∅160	95	∅160	90	412
VL-A 1150-C2	575	333	274	613	∅200	130	∅200	102	438
VL-A 550-C4	545	331	236	520	∅160	92	∅160	87	369
VL-A 750-C4	531	302	253	488	∅160	95	∅160	90	412
VL-A 1150-C4	575	333	274	613	∅200	130	∅200	102	438

Please, note: Connection measurements are nipple measurements

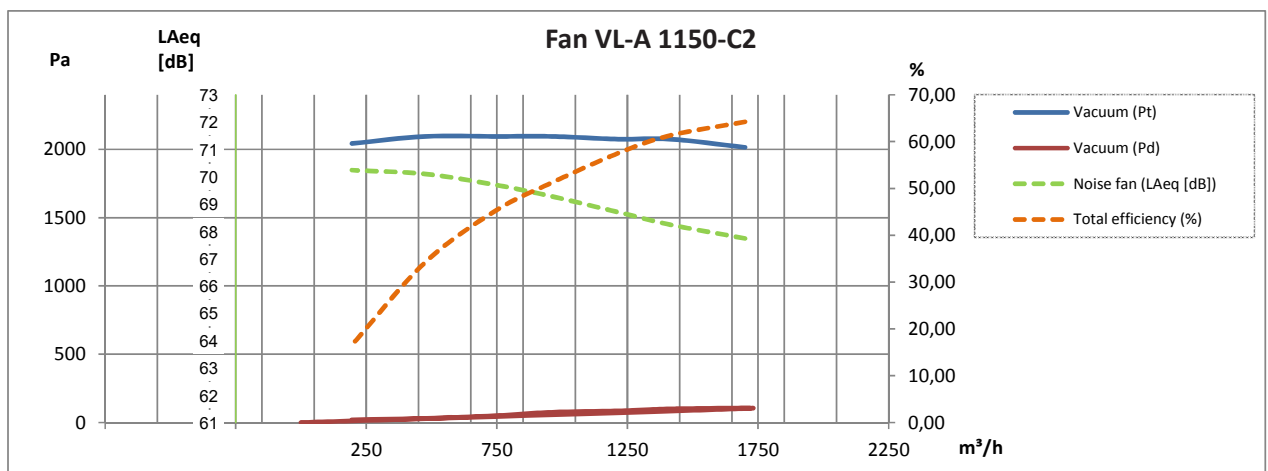
2-pole:



2-pole:

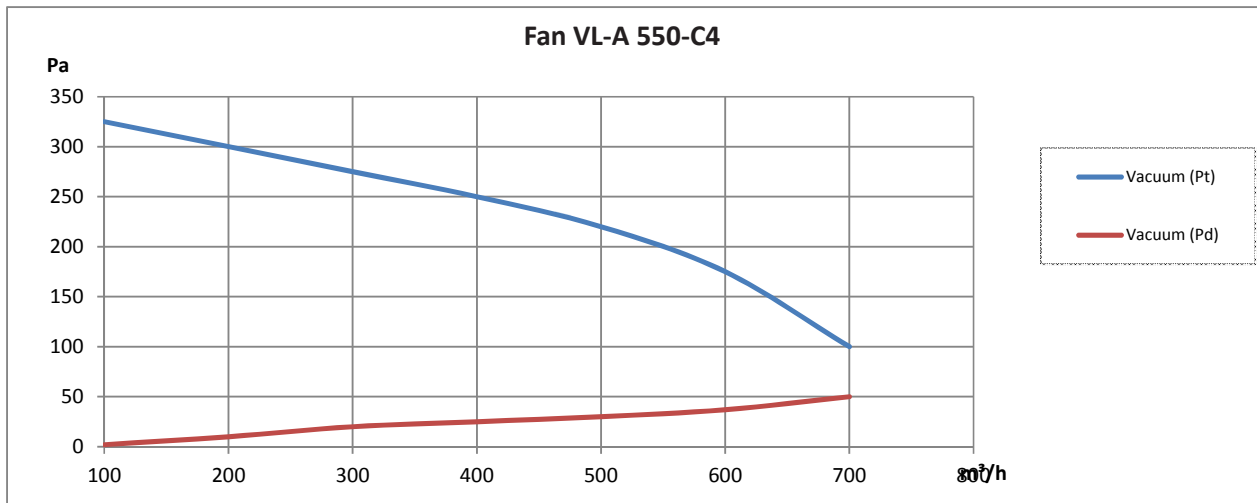


2-pole:

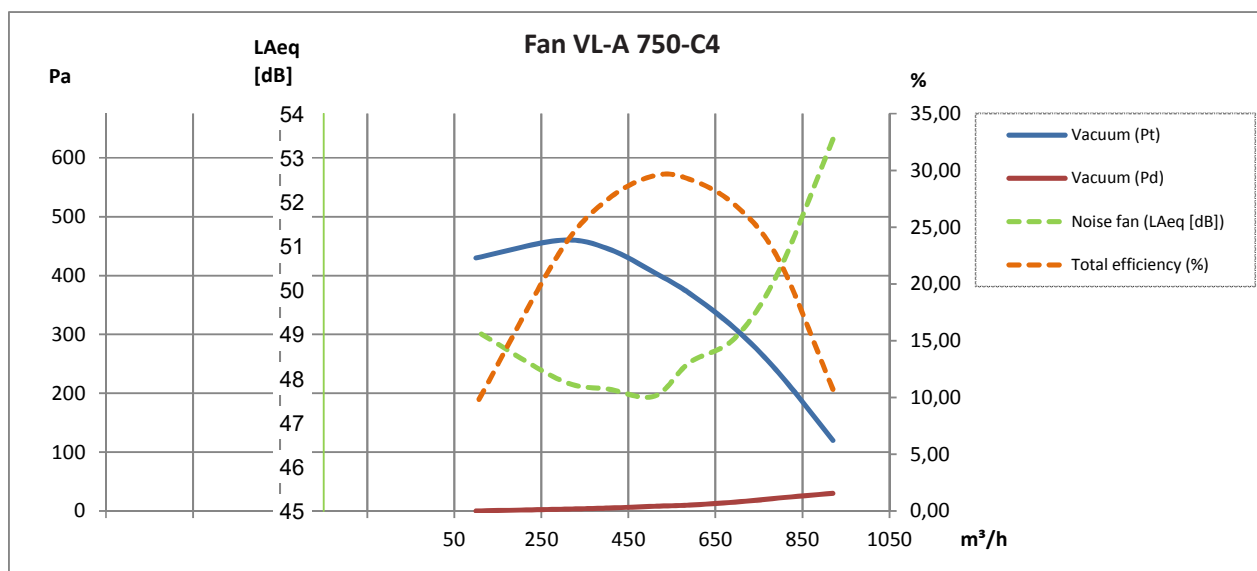




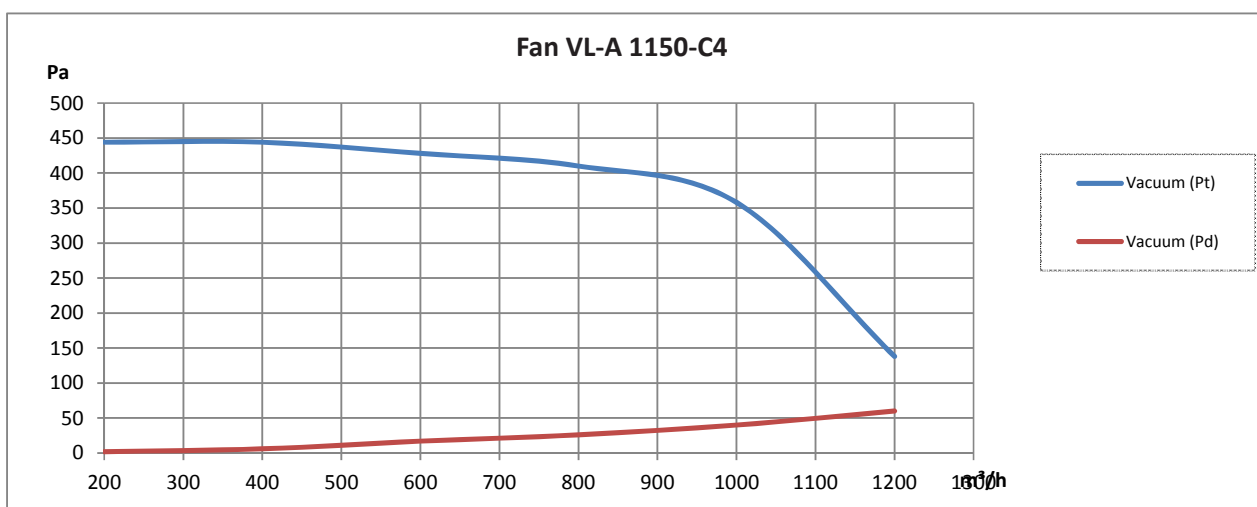
4-pole:



4-pole:



4-pole:



Rev. 05.23 Data is subject to alterations

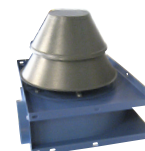
Sound enclosure type VAB-A*:

Type (Position RD0)	Item no.
VL-A 550	10 330 150
VL-A 750	10 330 200
VL-A 1150	10 330 250

* Only for clean air transport

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

Type	Item no.
VL 550	03 013 800
VL 750, VL 1150	03 030 800

**Fan wheels:**

Type	Hub [mm]	Fan type*	[Hz]	Item no.
VL 550	ø14	C2	50	03 034 205
VL 550, zone 1	ø14	C4	50	03 034 105
VL 750	ø19	C2/C4	50	03 002 005
VL 1150	ø19	C2/C4	50	03 009 202

**Closed Transport

**Further is available:**

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

Photo:

Danfoss frequency converter type VLT-T with ATEX-approved thermistor outlet