Centrifugal fan with open fan wheel that is used at source extraction from air pollulant or chip making work processes. The transported air may not contain adhestive or sticky fumes or dust.

Work area:
Max. pressure: 1,750Pa
Max. air volume: 2,260m³/h

Max. dust volume: 100g/m³, non-sticky
Max. particle size: 80x20x3mm, non-sticky

Temperature: Extracted air (transport air in fan) = max. 60°C
Ambient temperature: max. 40°C

Fan order no.	Achieved efficiency	Measurement category	Efficiency category	Efficiency grade	VSD	Production year	Manufacturer page	Model number/type	Rated motor power input, flow rate and vacuum at optimal efficiency			Rpm.	Specific ratio	Disposal page	Environment page	Mounting measurement page
									kW	m³/h	Pa (Ps)					
03 021 000	13,2	D	Total	■	NO	CE-mark	0.B4	VT 500-O4	0,09	315	155	1412	1,00	0.B4	0.B4	0.B4
03 041 000	20,8	D	Total	■	NO	CE-mark	0.B4	VT 1000-O4	0,16	507	350	1446	1,00	0.B4	0.B4	0.B4
03 066 000	34,1	D	Total	■	NO	CE-mark	0.B4	VT 2000-O4	0,19	758	310	1439	1,00	0.B4	0.B4	0.B4
03 011 000	38,2	D	Total	■	NO	CE-mark	0.B4	VT 500-O2	0,24	302	1085	2896	1,01	0.B4	0.B4	0.B4
03 031 000	40,8	D	Total	■	NO	CE-mark	0.B4	VT 1000-O2	0,78	793	1460	2899	1,01	0.B4	0.B4	0.B4
03 051 000	51,9	D	Total	■	NO	CE-mark	0.B4	VT 2000-O2	1,02	1243	1500	2913	1,01	0.B4	0.B4	0.B4

■ *No approved according to EU327/2011 ERP 2015*
May be mounted on clean air side of Gram filter units as transport fan according to EU 327/2011 and EN 13349/2010

Construction:
Radial fan with open fan wheel mounted in welded steel cabinet and with directly coupled motor.

Model: **O** (Transport of chips)
Wheel: Fan wheel type T-G, open wheel with backward straight, self-cleaning blades
Static/dynamically balanced according to ISO 14694 (BV3 G 6.3)
Housing: Welded in 2mm steel plate
Fan housing can be mounted with various inlet positions (RD0, RD90, RD180, RD270)
Standard enamelling:
Powder enamelled for indoor mounting (RAL 5007), for outdoor placement galvazing is also recommended
Motor: IE3 at ≥ 0.75kW, 3x400V / IE1 or IE2 at < 0.75kW, 3x400V or at 1x230V
B5 flange motor without bimetallic sensor
3x400V or 1x230V / 50Hz (three-phased motors can be frequency regulated)

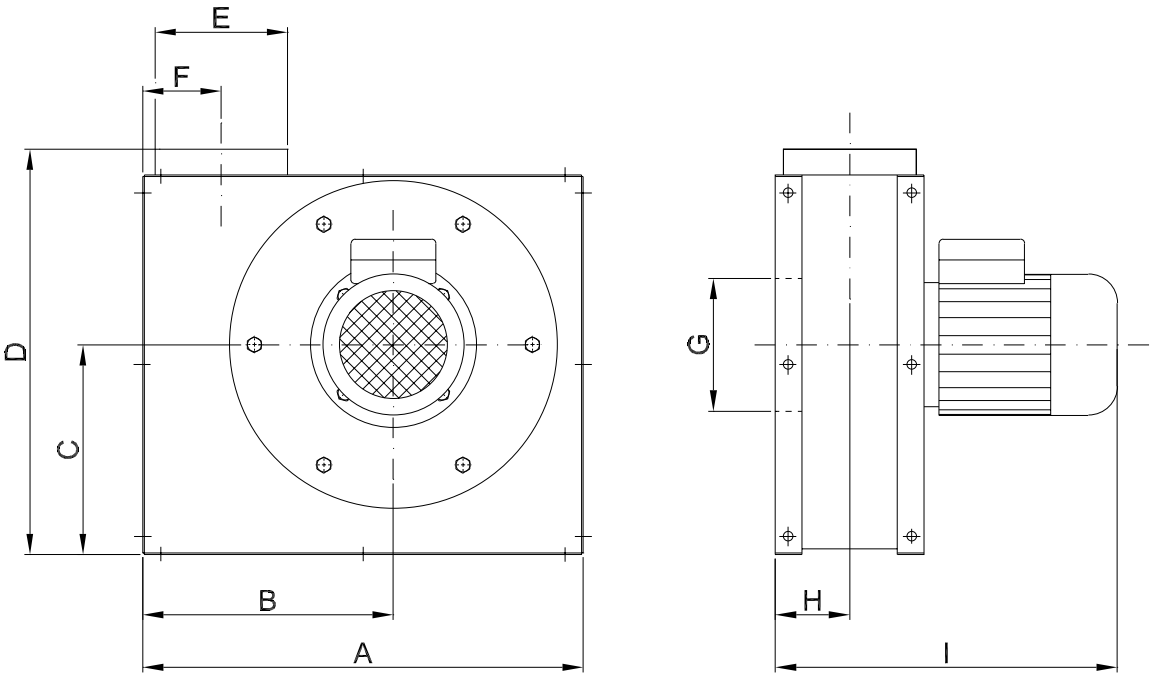
Fan type VT-O is also available galvanized and spark-protected (copper ring in inlet)
For ATEX fans - see group 10

Constructed and tested according to:
- Machine Directive 2006/42/EU
- Electromagnetic Compatibility (EMC) Directive 2004/108/EU
- Low Voltage (LVD) Directive 2014/35/EU
- Harmonized standards: EN 12100, EN 60204-1, EN ISO 13857, ISO 12499
- Further standards: ISO 3746, ISO 5801
- As well as: EU Regulation no. 327/2011 (ERP 2013 and 2015)

Type	Order no.	Volt [V]	[rpm.]	[kW]	Rated current (Amp)	Start current [I_L/I_N]	Weight [kg]
VT 500-O2	03 011 000	3x400	2-pole	0,37	■	■	15,0
VT 1000-O2	03 031 000	3x400	2-pole	0,75	■	■	27,0
VT 2000-O2	03 051 000	3x400	2-pole	1,10	■	■	29,0
VT 500-O4	03 021 000	3x400	4-pole	0,25	■	■	15,0
VT 1000-O4	03 041 000	3x400	4-pole	0,55	■	■	25,0
VT 2000-O4	03 066 000	3x400	4-pole	0,55	■	■	22,0
VT 500-O2	03 015 000	1x230	2-pole	0,37	■	■	15,0
VT 1000-O2	03 035 000	1x230	2-pole	0,75	■	■	27,0
VT 2000-O2	03 061 000	1x230	2-pole	1,10	■	■	29,0
VT 500-O4	03 024 000	1x230	4-pole	0,25	■	■	15,0
VT 1000-O4	03 045 000	1x230	4-pole	0,55	■	■	25,0
VT 2000-O4	03 068 000	1x230	4-pole	0,55	■	■	22,0

■ *See section "General information" conc. electro motors*

Motor data ≥ 0,75kW, 3x400V, according to IE3-motors.



Type	Order no.	A	B	C	D	E	F	G	H	I
VT 500-O2	03 011 000	409	227	192	391	ø100	79	ø100	90	358
VT 1000-O2	03 031 000	531	302	253	488	ø160	94	ø125	90	372
VT 2000-O2	03 051 000	531	302	253	488	ø160	95	ø160	90	412
VT 500-O4	03 021 000	409	227	192	391	ø100	79	ø100	90	358
VT 1000-O4	03 041 000	531	302	253	488	ø160	94	ø125	90	372
VT 2000-O4	03 066 000	531	302	253	488	ø160	95	ø160	90	412
VT 500-O2	03 015 000	409	227	192	391	ø100	79	ø100	90	358
VT 1000-O2	03 035 000	531	302	253	488	ø160	94	ø125	90	372
VT 2000-O2	03 061 000	531	302	253	488	ø160	95	ø160	90	412
VT 500-O4	03 024 000	409	227	192	391	ø100	79	ø100	90	358
VT 1000-O4	03 045 000	531	302	253	488	ø160	94	ø125	90	372
VT 2000-O4	03 068 000	531	302	253	488	ø160	95	ø160	90	412

Please note: Connection measurements are nipple measurements

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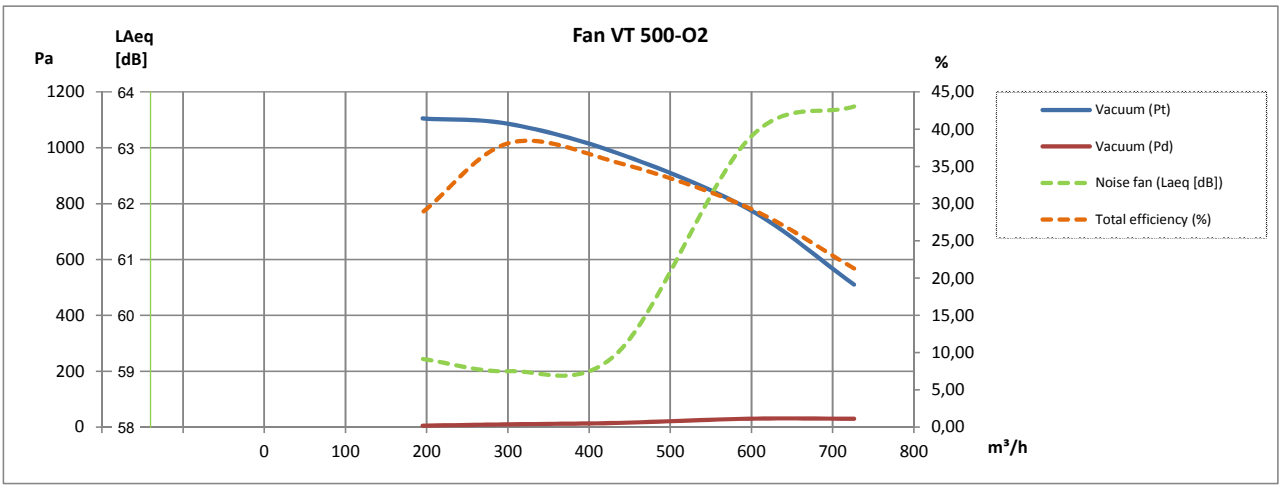
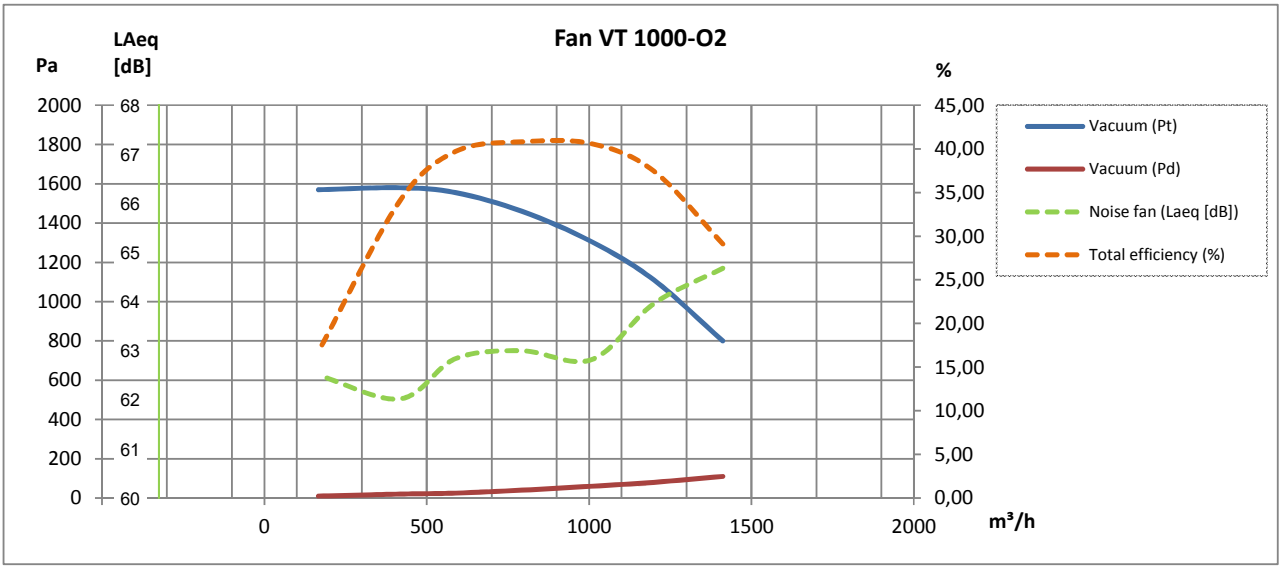
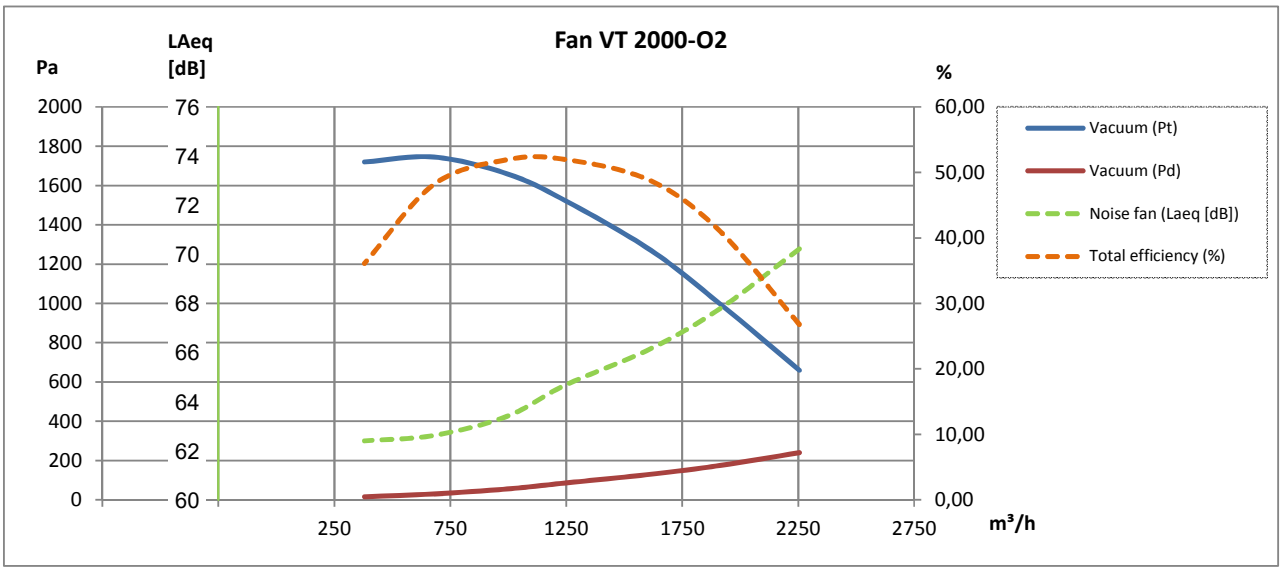
4-pole:



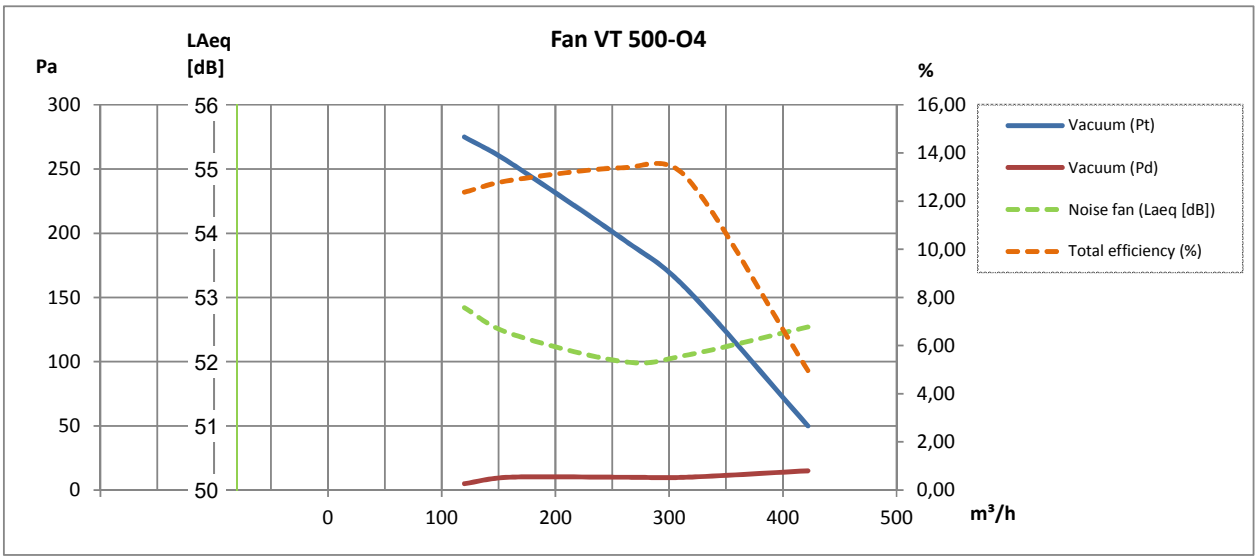
4-pole:



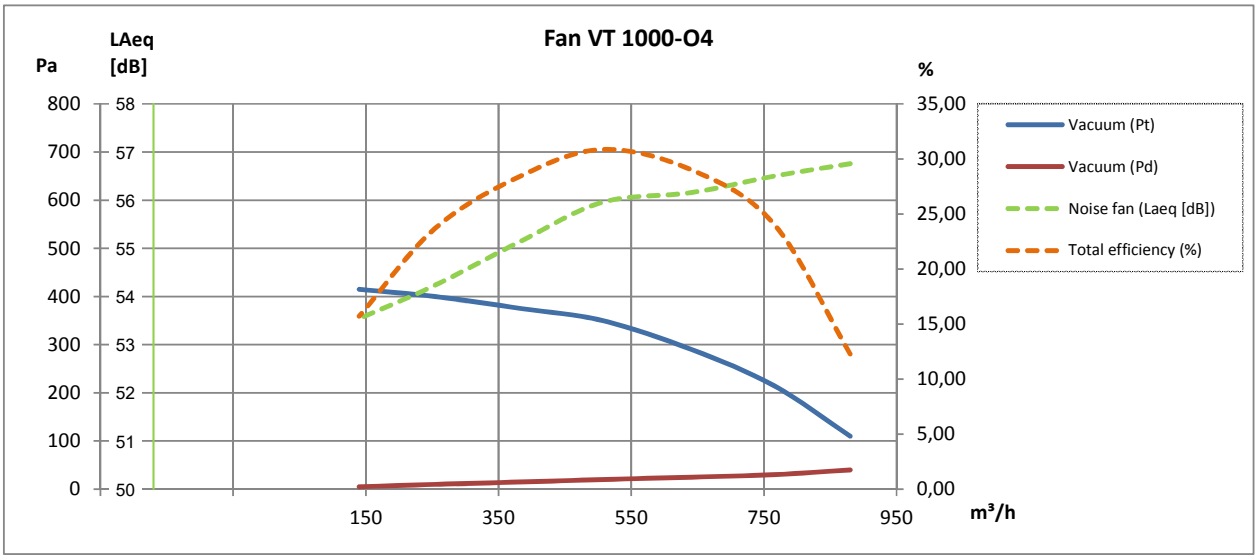
4-pole:



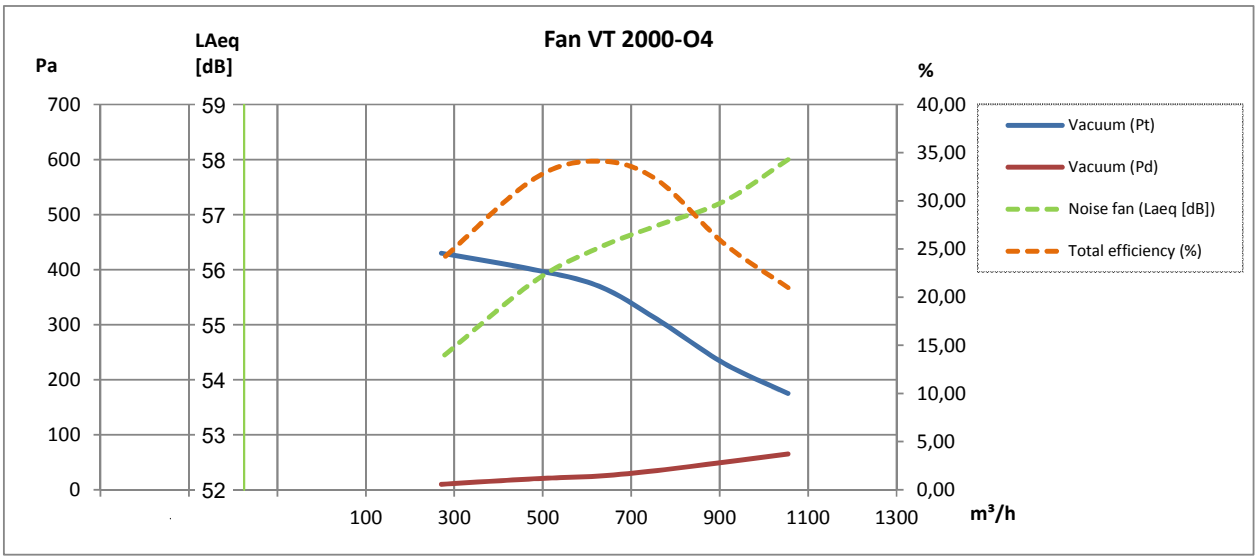
4-pole:



4-pole:



4-pole:



Description	Order no.
Additional payment for 60Hz operation (excl. possible special motor)	09 185 000

All versions of fan type VT-O is also available i a galvanized version spark protection in copper (Cu) on inlet!

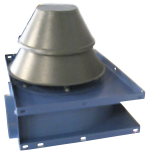
Sound enclosure type VB*:

Type (Position RD0)	Order no.
VT 500	03 184 000
VT 1000	03 180 000
VT 2000	03 181 000
Additonal payment for sound enclosure type VB with side outlet, fan position RD0	03 550 000

** Only for clean air transport*

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

Type	Varenr.
VT 500	03 010 800
VT 1000, VT 2000	03 030 800



Fan wheels:

Type	Hub [mm]	Fan type**	[Hz]	Order no.
VT 500	ø14	O2/O4	50	03 010 005
VT 1000	ø19	O2/O4	50	03 030 005
VT 2000	ø19	O2/O4	50	03 050 005
VT 500	ø14	O2/O4	60	03 010 105
VT 1000	ø19	O2/O4	60	03 030 305
VT 2000	ø19	O2/O4	60	03 050 305

***Open Transport*

Further is available:

- Pressure guard
- Mounting fittings
- Vibrations absorbers
- Safety grid
- FLEX flexible connections
- Explosion-protected construction for application in ATEX zones
- Motor starter Y-D
- Frequency converter

Photo:
Danfoss Frequency converter type VLT