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: 2,260m^3/h

Max. dust volume: 100g/m^3, non-sticky
Max. particle size: 80x20x3mm, non-sticky

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

Item number	Model type	Fan type	Achieved efficiency	VSD	Meas-urement category	Efficiency type	Efficiency classifica-tion (η at BEP)	Motor input power, volume flow and vacuum at optimum efficiency			Special character-istics	rpm	Pres-sure ratio	Disas-sembly	Environ-mental impact
								kW	m^3/h	Pa (Ps)					
03 011 000	VT 500-O2	Backward curved centrifugal fan	39,4	NO	D	TOTAL	67	0,24	302	1085	NO	2896	1,01	B.4	B.4
03 031 000	VT 1000-O2	Backward curved centrifugal fan	41,8	NO	D	TOTAL	67	0,78	793	1460	NO	2899	1,01	B.4	B.4
03 051 000	VT 2000-O2	Backward curved centrifugal fan	53,5	NO	D	TOTAL	67	1,02	1243	1500	NO	2913	1,01	B.4	B.4

Transport fans are not covered by the Ecodesign Regulation COMMISSION REGULATION (EU) 2024/1834

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. 2024/1834 (the Ecodesign Regulation for fans)

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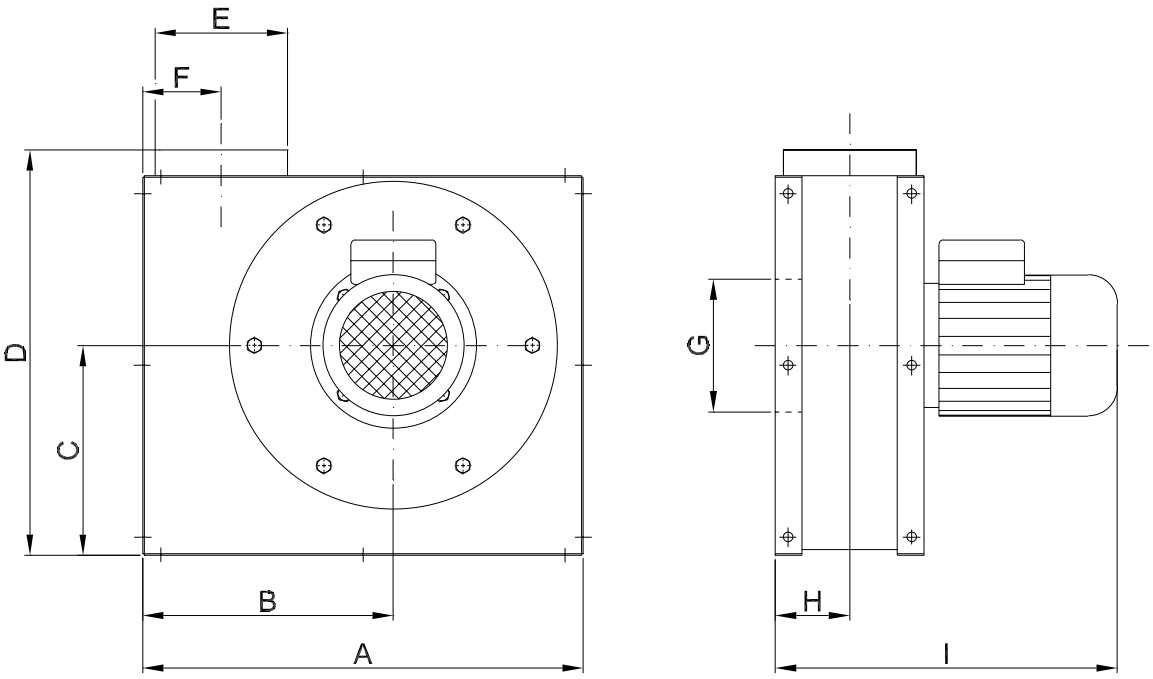
Rev. 07.26

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-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

■ 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-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

Please note: Connection measurements are nipple measurements

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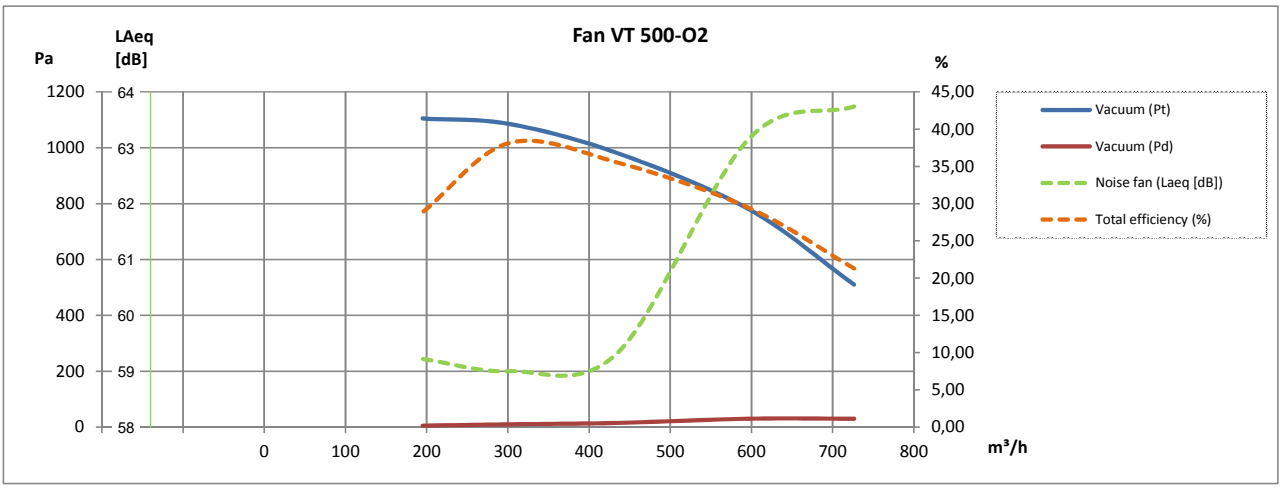
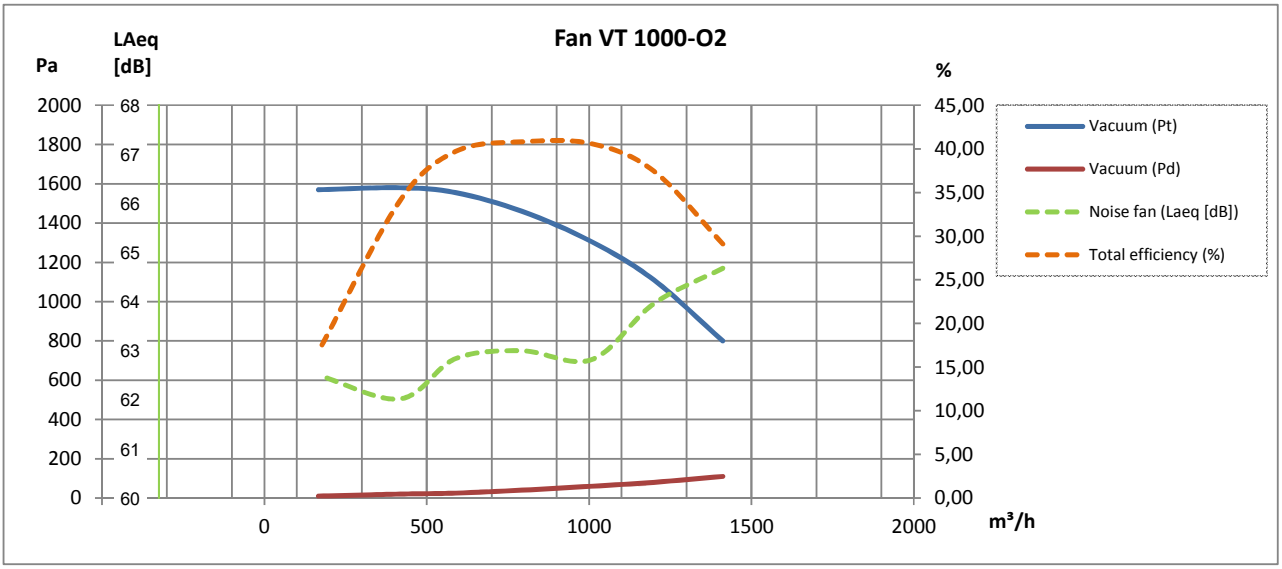
Gram Clean Air A/S
www.GramCleanAir.com

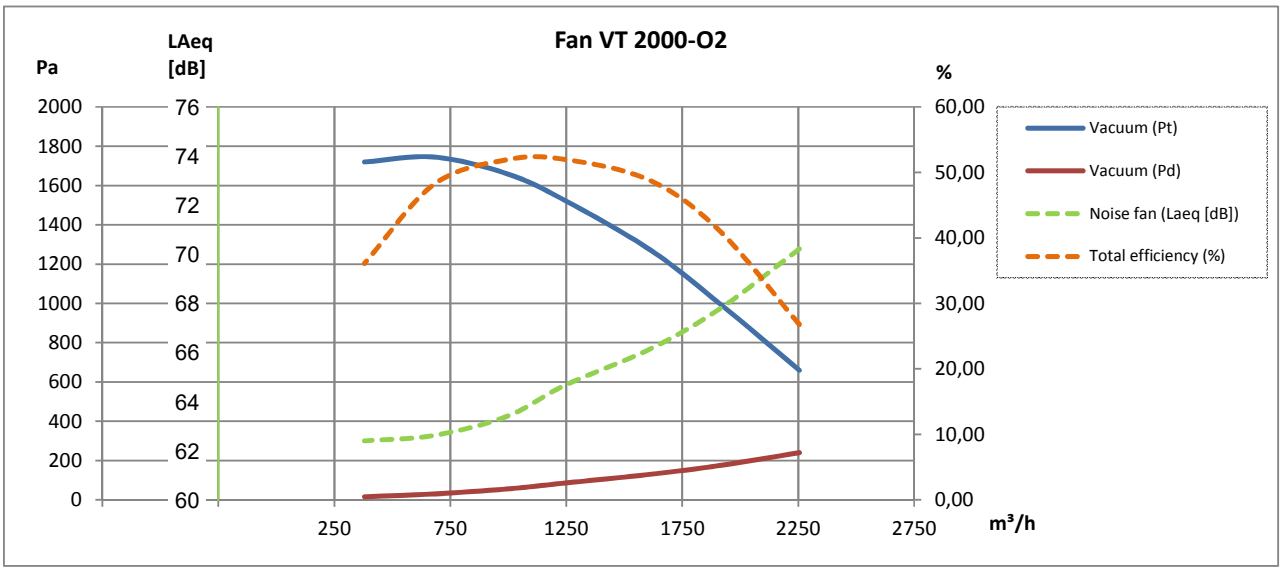
2-pole:



2-pole:



2-pole:



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Rev. 07.26

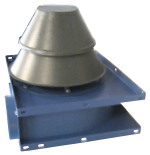
Sound enclosure type VB*:

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	50	03 010 005
VT 1000	ø19	O2	50	03 030 005
VT 2000	ø19	O2	50	03 050 005
VT 500	ø14	O2	60	03 010 105
VT 1000	ø19	O2	60	03 030 305
VT 2000	ø19	O2	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 ACH580

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Rev. 07.26