

DRY VACUUM PUMPS VTS 10/FG ÷ 35/FG

These lubrication-free rotating vane vacuum pumps have a suction capacity of 10, 15, 20, 25, 30 and 35 cum/h. The particular shape of the working chamber and the special graphite, with which the locking flanges and vanes are made, allow these pumps to operate with no lubrication.

The pump rotor is fitted on the motor shaft and supported by independent bearings located on both the pump locking flanges.

Therefore, the pump and the electric motor are two independent units connected to each other by an elastic transmission joint.

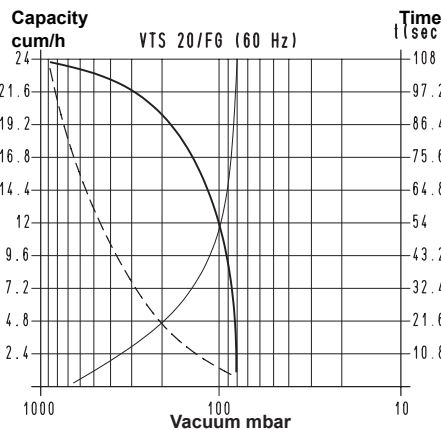
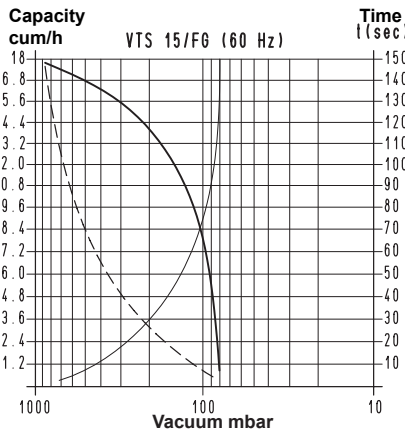
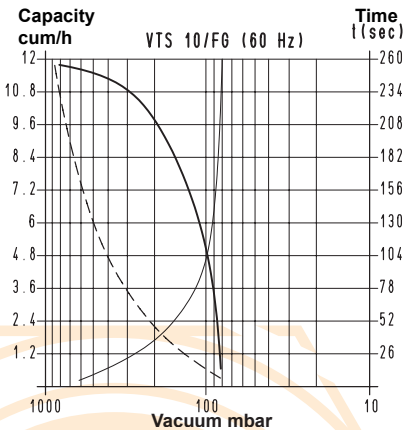
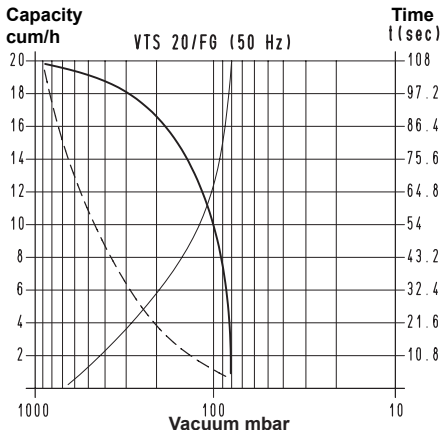
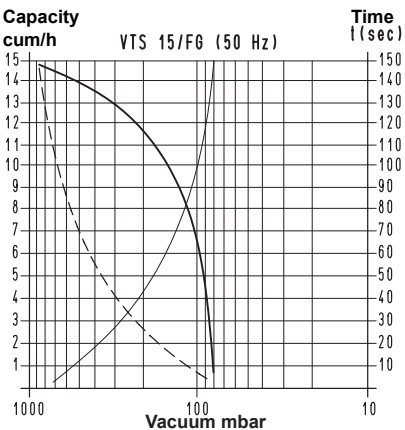
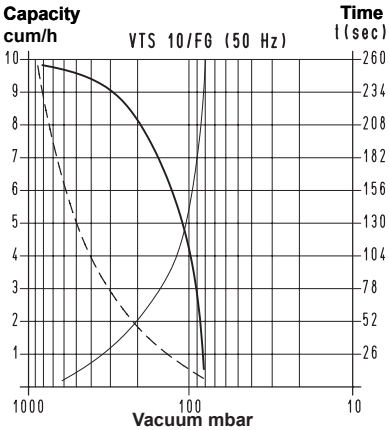
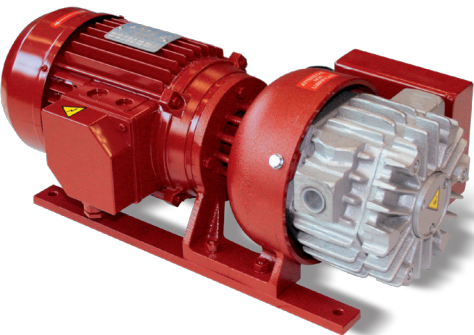
All this allows using standard electric motors in the shapes and sizes indicated in the table.

The pump is surface-cooled; the heat is dispersed from the especially finned external surface by a radial fan located between the motor and the pump.

A filtre that functions as a silencer is installed on the suction inlet..

We strongly recommend installing a filtre on the suction inlet against possible impurities. These pumps are **not recommended** when the fluid to be sucked contains water or oil vapours or condensations.

The pumps with capacity up to 20 cum/h can also be supplied with single-phase electric motors.

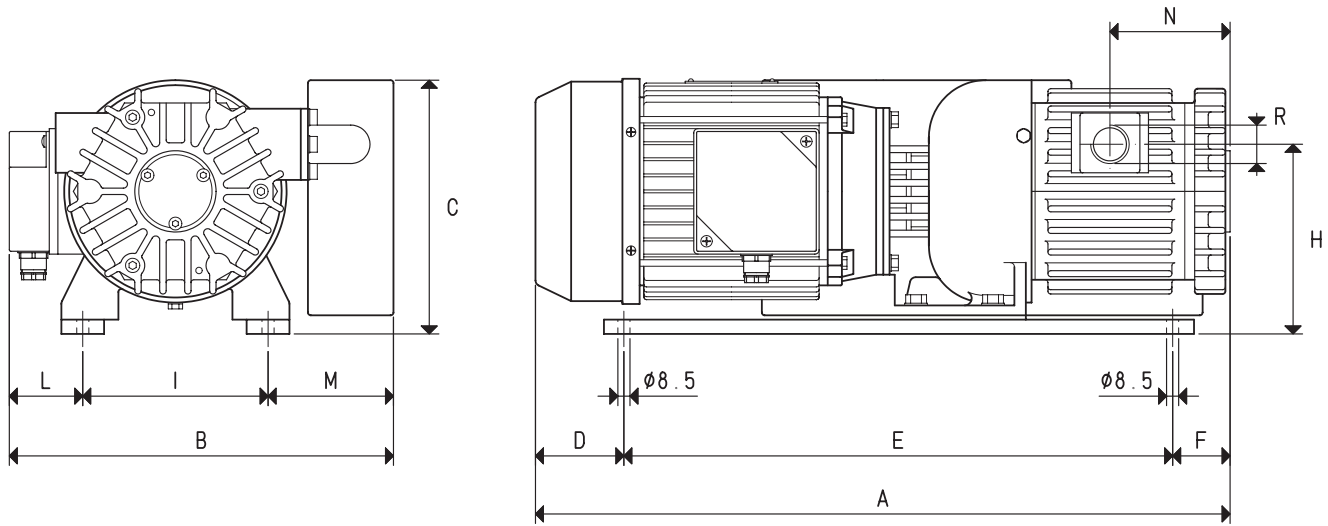


To calculate the emptying time of a volume V1, apply the formula $t_1 = \frac{t \times V_1}{100}$

- Curve regarding capacity (referring to the suction pressure)
- - - Curve regarding capacity (referring to a 1013 bar pressure)
- Curve regarding the emptying of a 100-litre volume

V1 : Volume to be emptied
 t1 : Time to be calculated (sec)
 t : Time obtained in the table (sec)

DRY VACUUM PUMPS VTS 10/FG, 15/FG and 20/FG



Art.		VTS 10/FG		VTS 15/FG		VTS 20/FG	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity	m³/h	10.0	12.0	15.0	18.0	20.0	24.0
Final pressure	mbar abs.	80		80		80	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%	230/400±10%	275/480 ±10%
Volt		230±10%		230±10%		230±10%	
Motor power	3~	0.55	0.66	0.55	0.66	0.88	1.05
Kw	1~	0.55	0.66	0.55	0.66	0.88	1.05
Motor protection	IP	54		54		54	
Rotation speed	rev/min ⁻¹	1450	1740	1450	1740	1450	1740
Motor shape		B14		B14		B14	
Motor size		80		80		80	
Noise level	dB(A)	64	66	65	67	65	67
Max. weight	3~	22.0		24.0		27.3	
Kg	1~	22.4		24.4		27.8	
A		430		450		470	
B		265		265		265	
C		170		170		170	
D		65		65		65	
E		340		340		340	
F		25		45		65	
H		133		133		133	
I		130		130		130	
L		55		55		55	
M		80		80		80	
N		73		83		93	
R	Ø gas	G1/2"		G1/2"		G1/2"	
Accessories and spare parts							
6 graphite vanes	art.	00 VTS 10FG 10		00 VTS 15FG 10		00 VTS 20FG 10	
Front graphite disc	art.	00 VTS 10FG 17		00 VTS 15FG 17		00 VTS 20FG 17	
Rear graphite disc	art.	00 VTS 10FG 26		00 VTS 15FG 26		00 VTS 20FG 26	
Sealing kit	art.	00 KIT VTS 10FG		00 KIT VTS 15FG		00 KIT VTS 20FG	
Check valve	art.	10 03 10		10 03 10		10 03 10	
Suction filtre	art.	FB 20/FC 20		FB 20/FC 20		FB 20/FC 20	

Note: The pump will be supplied with single-phase electric motor by adding the letter M to the article (E.g.: VTS 10/FG M).

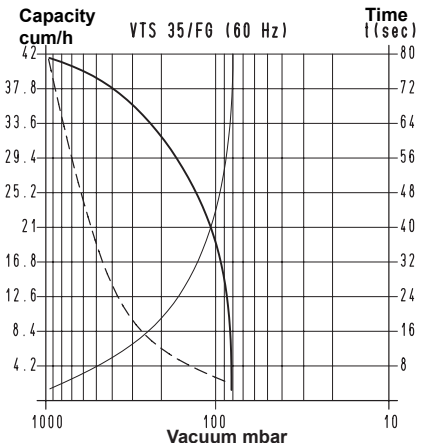
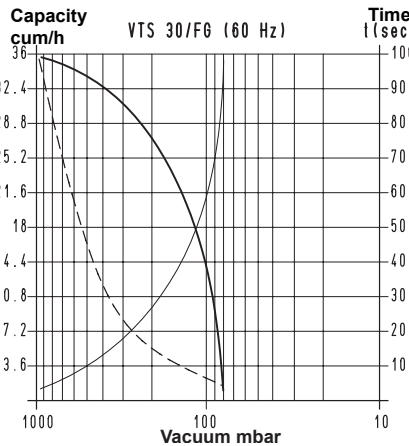
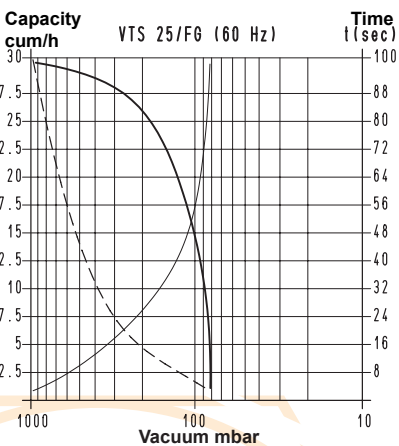
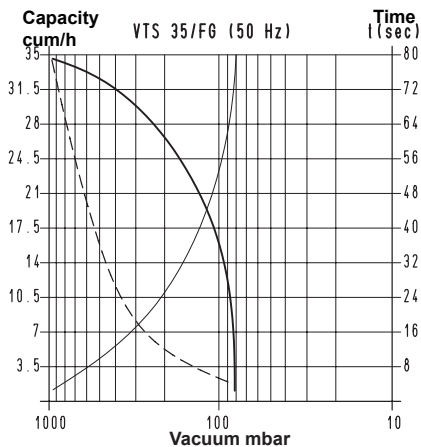
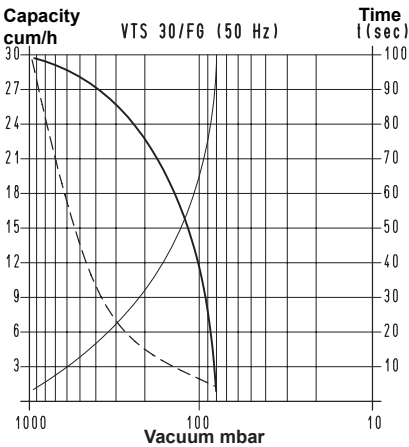
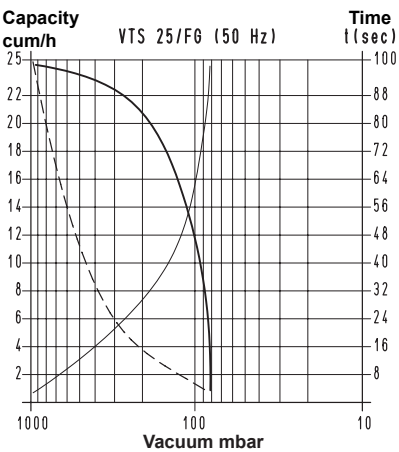
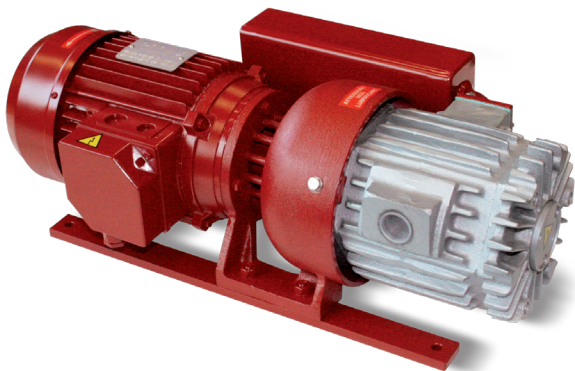
Conversion ratio: inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6}$; $\frac{\text{Kg}}{0.4536}$

cfm= cum/h x 0.588; inch Hg= mbar x 0.0295; psi= bar (g) x 14.6

7.63

3D drawings available at www.vuototecnica.net

VACUUM PUMPS VTS 25/FG, 30/FG and 35/FG

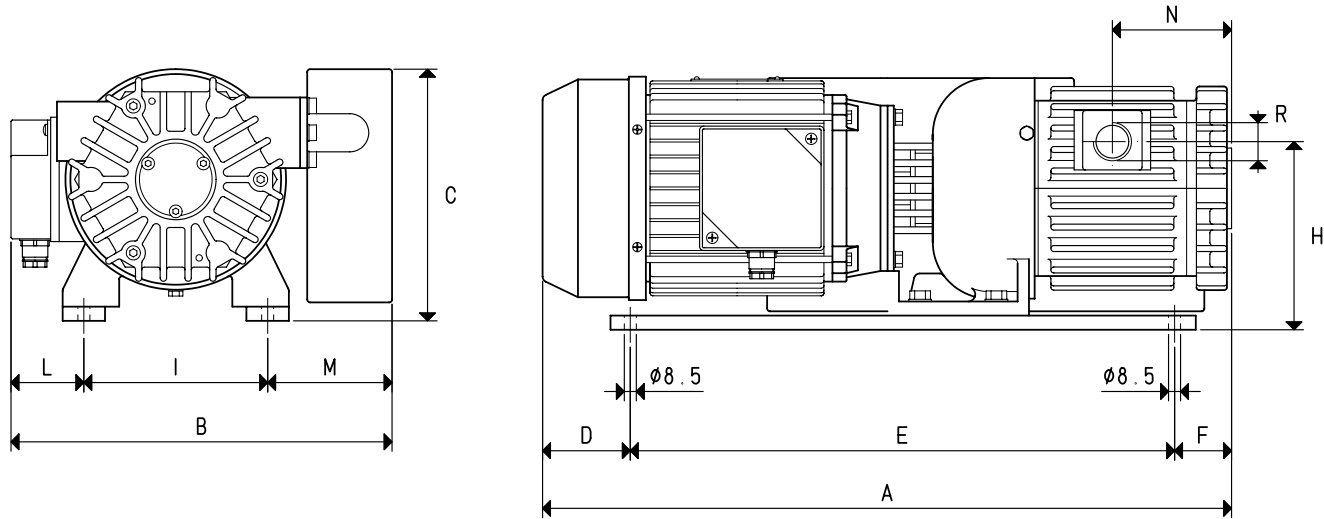


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- Curve regarding the emptying of a 100-litre volume

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DRY VACUUM PUMPS VTS 25/FG, 30/FG and 35/FG



Art.		VTS 25/FG		VTS 30/FG		VTS 35/FG	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity	m³/h	25.0	30.0	30.0	36.0	35.0	42.0
Final pressure	mbar abs.	80		80		80	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%	230/400±10%	275/480 ±10%
Volt							
Motor power	3~	0.88	1.05	1.00	1.20	1.00	1.20
Kw							
Motor protection	IP	54		54		54	
Rotation speed	rev/min ⁻¹	1450	1740	1450	1740	1450	1740
Motor shape		B14		B14		B14	
Motor size		80		80		80	
Noise level	dB(A)	66	68	68	70	70	72
Max. weight	3~	28.0		32.0		34.0	
Kg							
A		470		490		510	
B		265		265		265	
C		170		170		170	
D		65		65		65	
E		385		385		385	
F		20		40		60	
H		133		133		133	
I		130		130		130	
L		55		55		55	
M		80		80		80	
N		73		83		93	
R	Ø gas	G3/4"		G3/4"		G3/4"	
Accessories and spare parts							
6 graphite vanes	art.	00 VTS 25FG 10		00 VTS 30FG 10		00 VTS 35FG 10	
Front graphite disc	art.	00 VTS 25FG 17		00 VTS 30FG 18		00 VTS 35FG 18	
Rear graphite disc	art.	00 VTS 25FG 26		00 VTS 30FG 27		00 VTS 35FG 27	
Sealing kit	art.	00 KIT VTS 25FG		00 KIT VTS 30FG		00 KIT VTS 35FG	
Check valve	art.	10 04 10		10 04 10		10 04 10	
Suction filtre	art.	FB 25/FC 25		FB 25/FC 25		FB 25/FC 25	

Conversion ratio: inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6}$ = $\frac{\text{Kg}}{0.4536}$

cfm= cum/h x 0.588; inch Hg= mbar x 0.0295; psi= bar (g) x 14.6

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