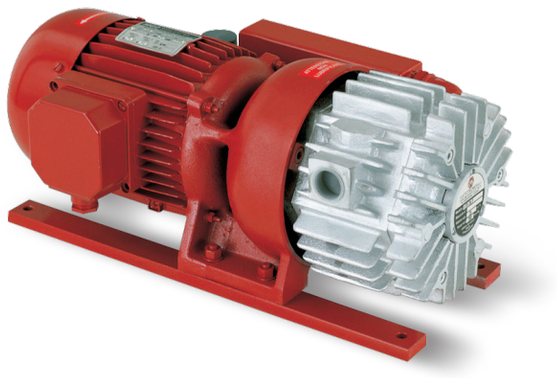
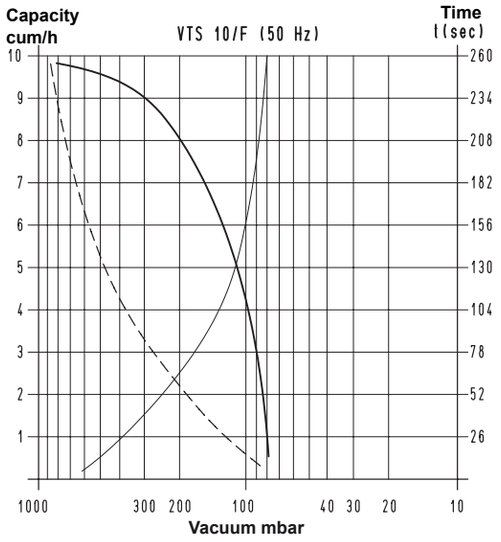
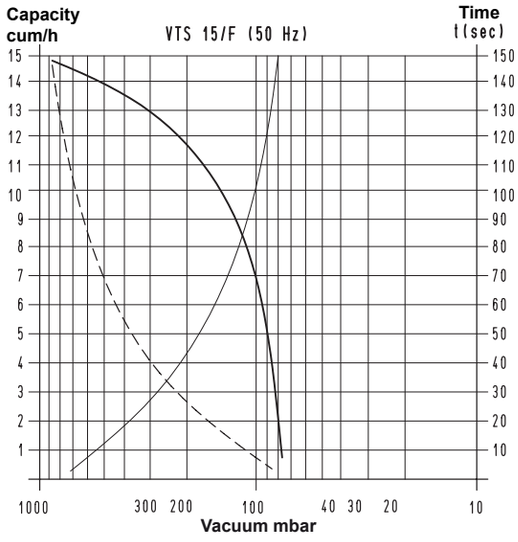
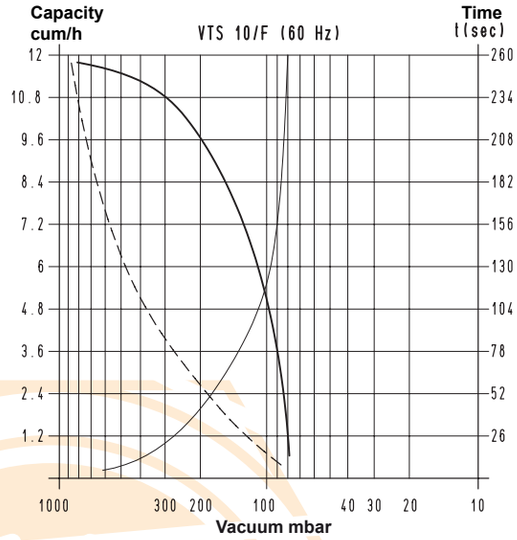
DRY VACUUM PUMPS VTS 10/F, 15/F, 20/F and 25/F

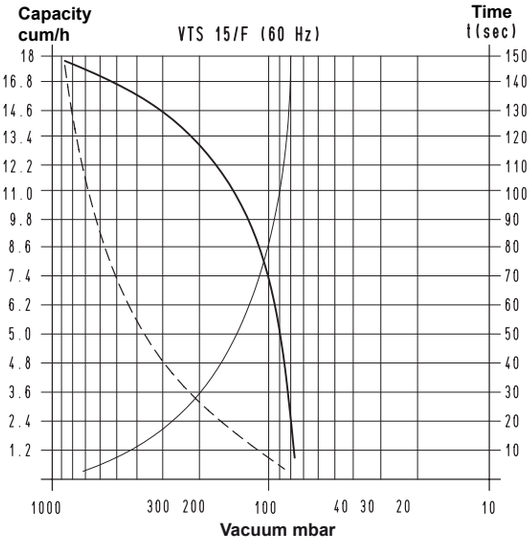
These lubrication-free rotating vane vacuum pumps have a suction capacity of 10, 15, 20 and 25 cum/h. The particular shape of the working chamber and the special graphite, with which the locking flanges and vanes are made, allow these pumps to operate with no lubrication.
The pump rotor is fitted on the motor shaft and supported by independent bearings located on both the pump locking flanges. 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.*
This range of pumps can be also supplied with single-phase electric motors.









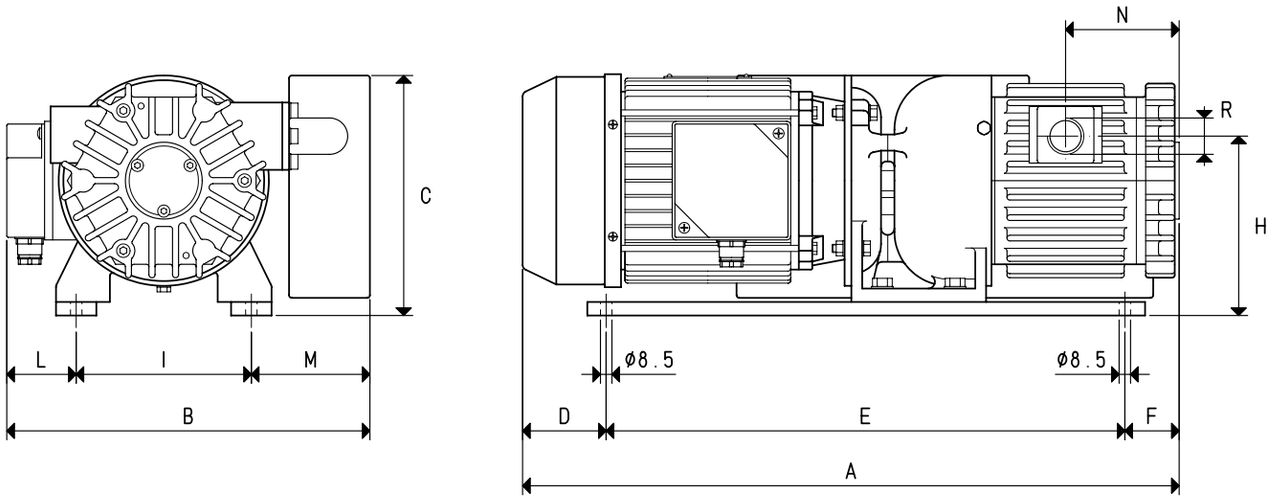


To calculate the emptying time of a volume V1, apply the formula $t1 = \frac{t \times V1}{100}$

——— 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)

3D drawings available at **www.vuototecnica.net**

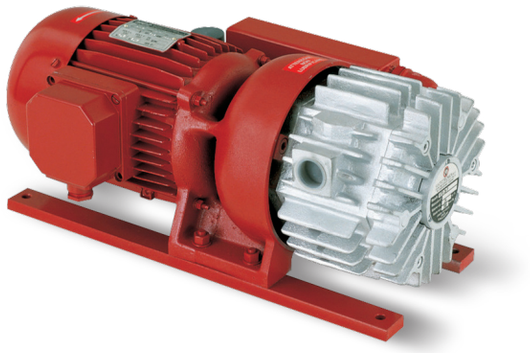


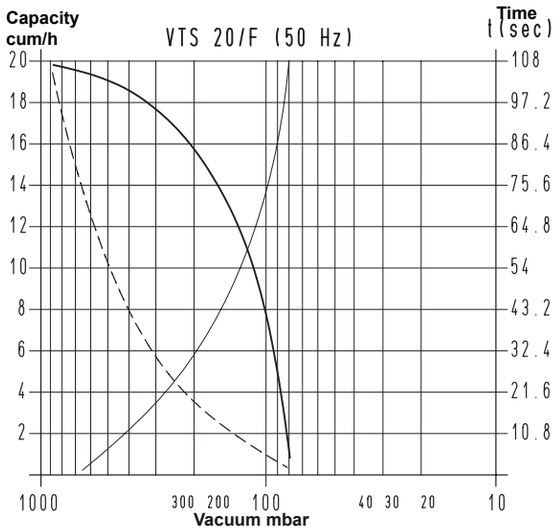
Art.		VTS 10/F		VTS 15/F	
Frequency		50Hz	60Hz	50Hz	60Hz
Capacity	m^3/h	10.0	12.0	15.0	18.0
Final pressure	mbar abs.	80		80	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%
Volt	1~	230±10%		230±10%	
Motor power	3~	0.55	0.66	0.55	0.66
Kw	1~	0.55	0.66	0.55	0.66
Motor protection	IP	54		54	
Rotation speed	rev/min^{-1}	1450	1740	1450	1740
Motor shape		Special		Special	
Motor size		80		80	
Noise level	dB(A)	64	66	65	67
Max. weight	3~	22.1		24.1	
Kg	1~	22.5		24.5	
A		388		408	
B		260		260	
C		187		187	
D		24		24	
E		340		340	
F		24		44	
H		133		133	
I		130		130	
L		55		55	
M		75		75	
N		53		63	
R	Ø gas	G1/2"		G1/2"	
Accessories and spare parts					
6 graphite vanes	art.	00 VTS 10F 10		00 VTS 15F 10	
Front graphite disc	art.	00 VTS 10F 21		00 VTS 10F 21	
Rear graphite disc	art.	00 VTS 10F 21		00 VTS 10F 21	
Sealing kit	art.	00 KIT VTS 10F		00 KIT VTS 15F	
Check valve	art.	10 03 10		10 03 10	
Suction filtre	art.	FB 20/FC 20		FB 20/FC 20	

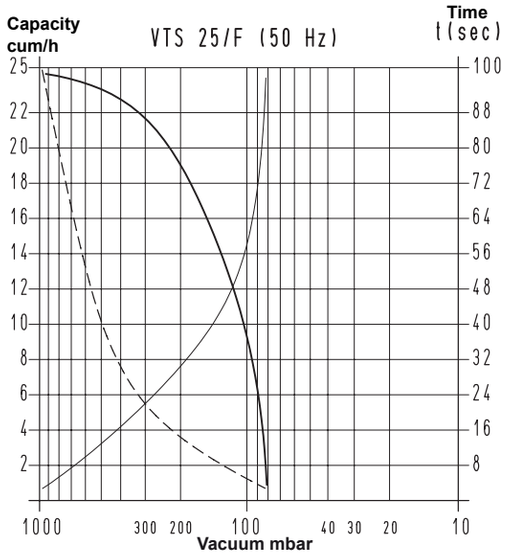
Note: The pump will be supplied with single-phase electric motor by adding the letter M to the article (E.g.: VTS 10/F M).

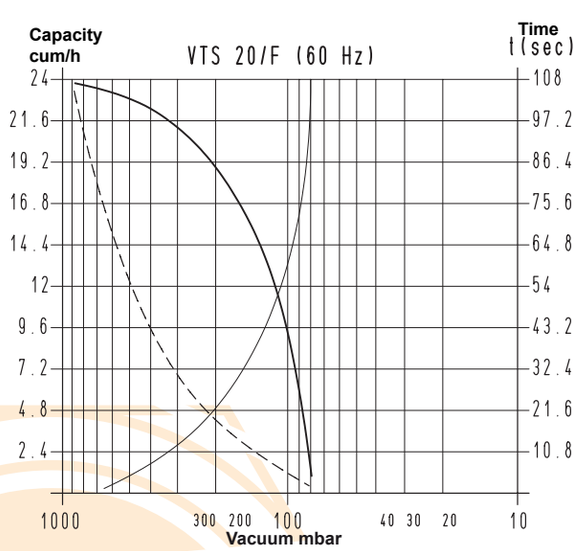
Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$ cfm= cum/h x 0.588; inch Hg= mbar x 0.0295; psi= bar (g) x 14.6

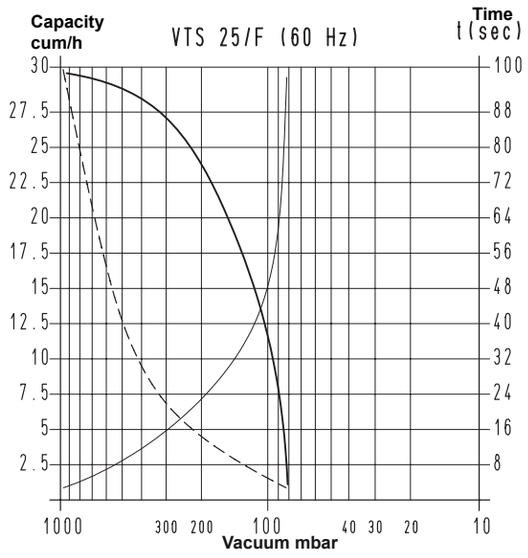
DRY VACUUM PUMPS VTS 20/F and 25/F









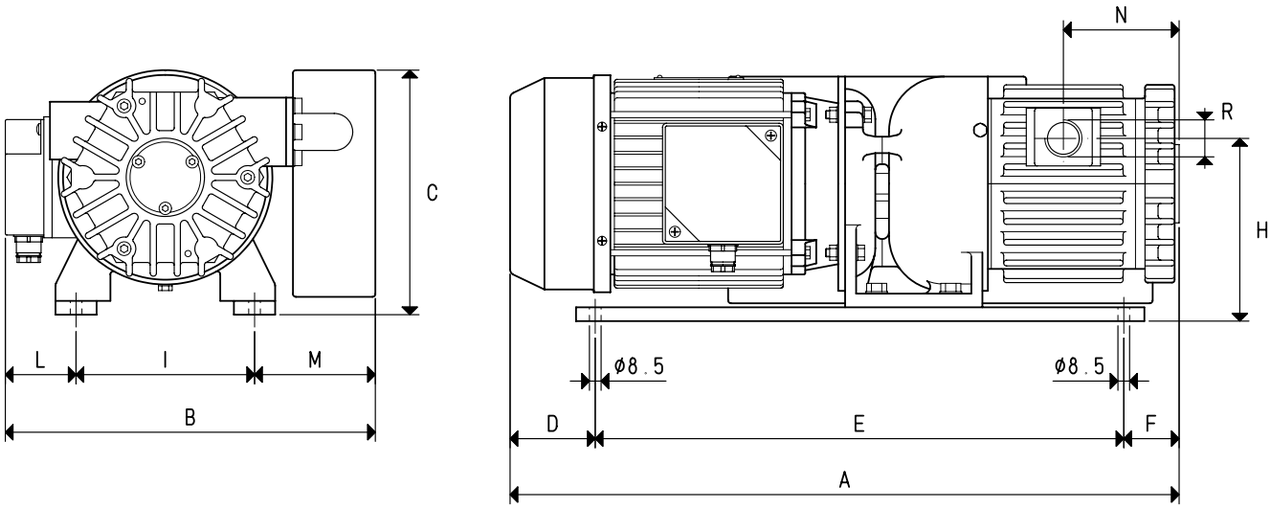


To calculate the emptying time of a volume V1, apply the formula $t1 = \frac{t \times V_1}{100}$

——— 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)

3D drawings available at **www.vuototecnica.net**



Art.		VTS 20/F		VTS 25/F	
Frequency		50Hz	60Hz	50Hz	60Hz
Capacity	m^3/h	20.0	24.0	25.0	30.0
Final pressure	mbar abs.	80		80	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%
Volt	1~	230±10%		230±10%	
Motor power	3~	0.88	1.05	0.88	1.05
Kw	1~	0.88	1.05	0.88	1.05
Motor protection	IP	54		54	
Rotation speed	rev/min^{-1}	1450	1740	1450	1740
Motor shape		Special		Special	
Motor size		80		80	
Noise level	dB(A)	65	67	65	67
Max. weight	3~	27.4		28.1	
Kg	1~	27.9		28.6	
A		428		428	
B		260		260	
C		187		187	
D		24		24	
E		340		385	
F		64		19	
H		133		133	
I		130		130	
L		55		55	
M		75		75	
N		73		73	
R	Ø gas	G1/2"		G3/4"	
Accessories and spare parts					
6 graphite vanes	art.	00 VTS 20F 10		00 VTS 25F 10	
Front graphite disc	art.	00 VTS 10F 21		00 VTS 10F 21	
Rear graphite disc	art.	00 VTS 10F 21		00 VTS 10F 21	
Sealing kit	art.	00 KIT VTS 20F		00 KIT VTS 25F	
Check valve	art.	10 03 10		10 04 10	
Suction filtre	art.	FB 20/FC 20		FB 25/FC 25	

Note: The pump will be supplied with single-phase electric motor by adding the letter M to the article (E.g.: VTS 20/F M).

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$ cfm= cum/h x 0.588; inch Hg= mbar x 0.0295; psi= bar (g) x 14.6