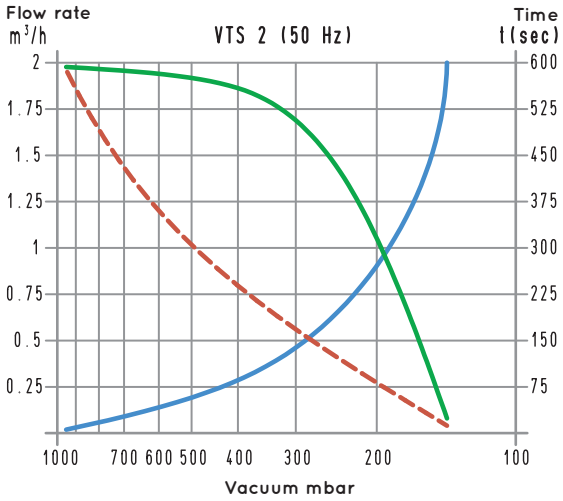
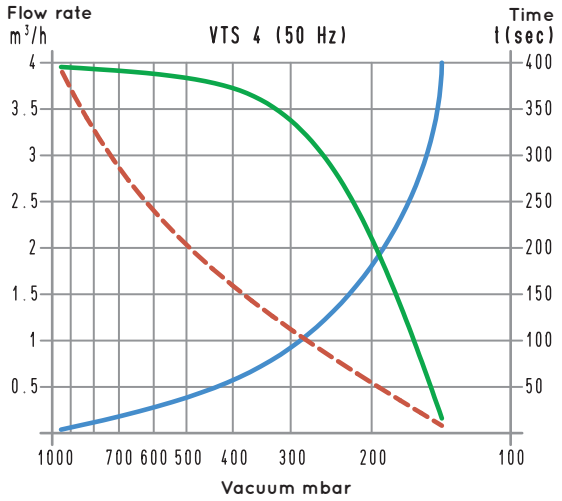
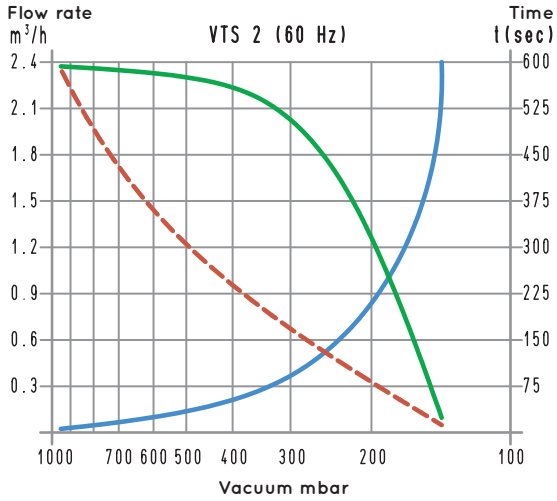
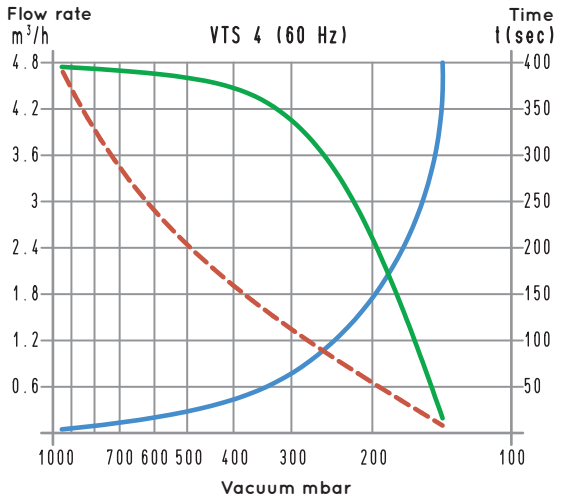
DRY VACUUM PUMPS VTS 2 and 4

These small lubrication-free rotary vane vacuum pumps have a suction flow rate of 2 and 4 m^3/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 rotor is cantilevered-fitted on the motor shaft, thus reducing overall dimensions to the minimum. The motor and the pump are cooled by the motor fan (surface cooling).
A filter that functions as a silencer is installed on the suction inlet. We strongly recommend installing a filter 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. Vacuum pumps VTS 2 and 4 can also be supplied with single-phase electric motor.





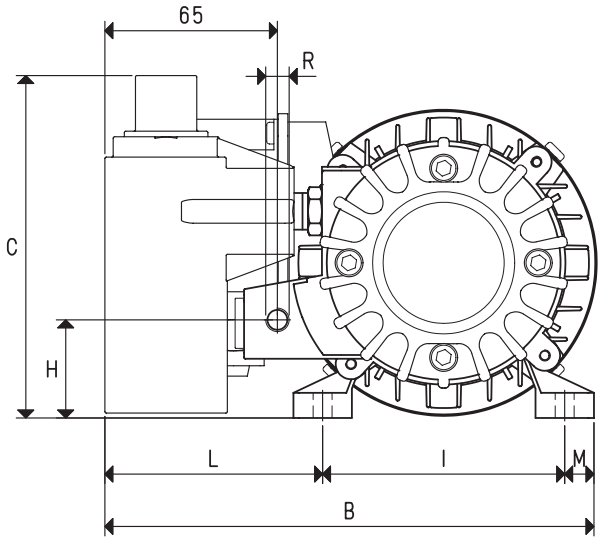


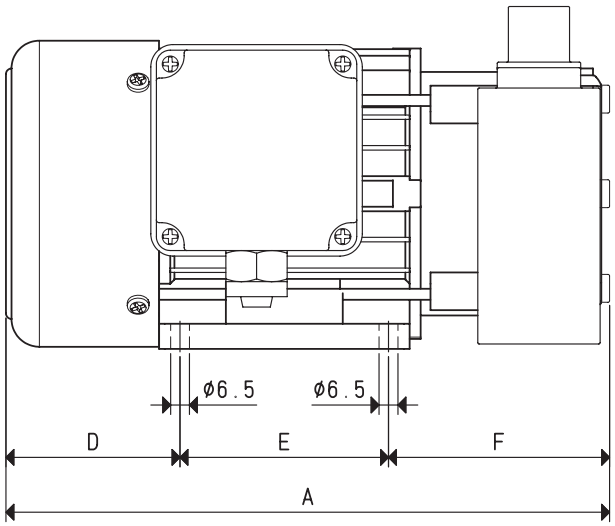


To calculate the emptying time of a volume of V_1, use the following formula: $t_1 = \frac{t \times V_1}{100}$

- Curve relative to the flow rate (referring to the suction pressure)
- Curve relative to the flow rate (referring to a 1013 mbar pressure)
- Curve regarding the emptying time of a 100-litre volume

V_1 : Volume to be emptied (l)
t_1 : time to be calculated (sec)
t : time obtained in the table (sec)





Item		VTS 2		VTS 4	
Frequency		50Hz	60Hz	50Hz	60Hz
Flow rate	m^3/h	2.0	2.4	4.0	4.8
Final pressure	mbar abs.	200		150	
Motor performance	3~	230/400±10%	265/460±10%	230/400±10%	265/460±10%
Volt	1~	230±10%		230±10%	
Motor power	3~	0.12	0.15	0.18	0.21
Kw	1~	0.12	0.15	0.18	0.21
Motor protection	IP	55		55	
Rotation speed	g/min^{-1}	2800	3300	2800	3300
Motor shape					
Motor size		56		63	
Noise level	dB(A)	64	66	64	66
Max weight	3~	5.3		6.8	
Kg	1~	5.5		7.0	
A		217		251	
B		180		186	
C		121		131	
D		66		78	
E		71		81	
F		80		92	
H		35		45	
I		90		100	
L		79		73	
M		11		13	
R	Ø gas	G1/4"		G1/4"	

Accessories and Parts		VTS 2	VTS 4
4 graphite vanes	item	00 VTS 02 10	00 VTS 04 10
Front flange complete with graphite disc	item	00 VTS 02 11	00 VTS 04 11
Rear flange complete with graphite disc	item	00 VTS 02 15	00 VTS 02 15
Sealing kit	item	00 KIT VTS 02	00 KIT VTS 04
Check valve	item	10 01 15	10 01 15
Suction filter	item	FB 5	FB 5

Note: Add the letter M to the item for a pump supplied with a single-phase electric motor (Example: VTS 2 M).

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$ cfm= m^3/h x 0.588; inch Hg= mbar x 0.0295; psi= bar x 14.6