



VACUUM PUMPS VTL 2 and 4

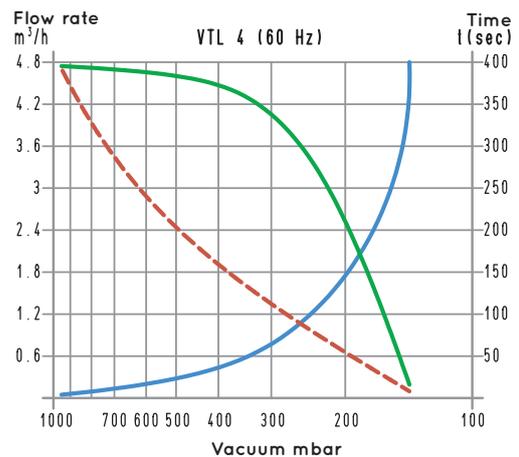
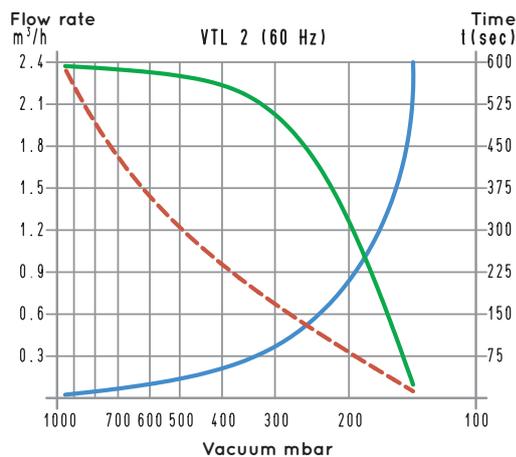
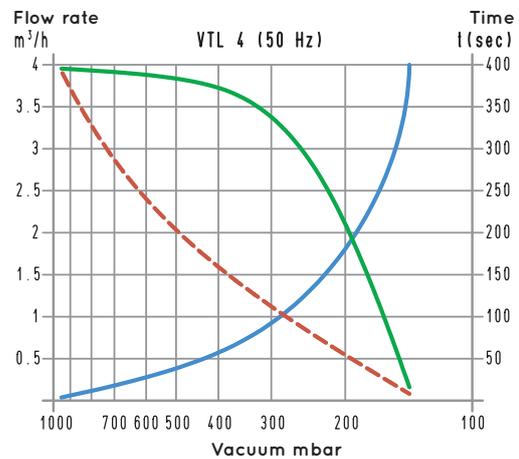
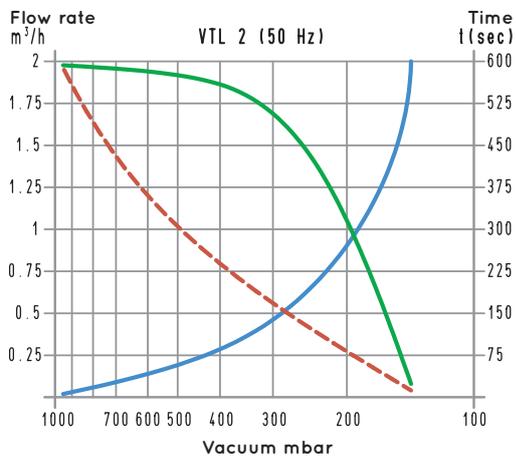
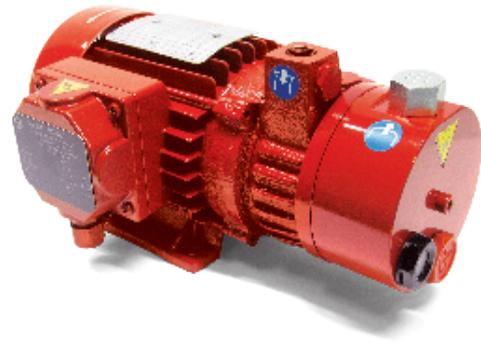
These small vacuum pumps have a suction flow rate of 2 and 4 m³/h. They feature a wick lubrication with oil recirculation, while the rotor, which is cantilevered-fitted on the motor shaft, allows reducing the overall dimensions to the minimum.

The motor and the pump are cooled by the motor fan (surface cooling).

The pumps are equipped with a small tank in line with the pump, which contains the lubrication oil as well as a separator filter to prevent oil mists and to reduce noise.

We strongly recommend installing a check valve and a filter on the suction inlet.

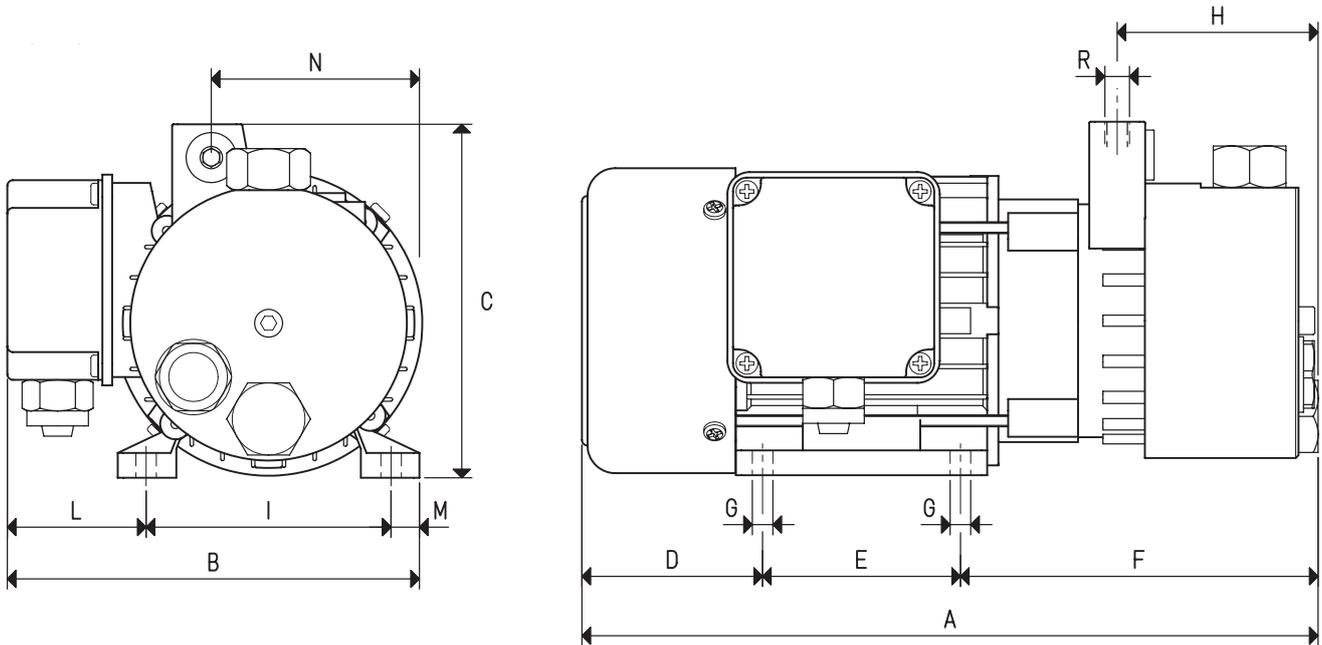
Pumps VTL 2 and 4 can also be supplied with single-phase electric motor.



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)



3D drawings are available on vuototecnica.net

Item		VTL 2		VTL 4	
Frequency		50Hz	60Hz	50Hz	60Hz
Flow rate	m ³ /h	2.0	2.4	4.0	4.8
Final pressure	mbar abs.	150		150	
Motor performance	3~ Volt	230/400±10%		230/400±10%	
	1~ Volt	230±10%		230±10%	
Motor power	3~ Kw	0.12	0.15	0.18	0.21
	1~ Kw	0.12	0.15	0.18	0.21
Motor protection	IP	55		55	
Rotation speed	g/min ⁻¹	2700	3245	2760	3300
Motor shape		Special		Special	
Motor size		56		63	
Noise level	dB(A)	62	65	62	65
Max weight	3~ Kg	5.7		7.3	
	1~ Kg	6.0		7.5	
A		260		285	
B		145		160	
C		126		132	
D		62		66	
E		71		81	
F		127		139	
G	∅	6.5		7.5	
H		72		81	
I		90		100	
L		43		48	
M		12		12	
N		76		86	
R	∅ gas	G1/4"		G3/8"	
Accessories and Parts		VTL 2		VTL 4	
Oil charge	L	0.05		0.05	
Lubricating oil	type	ISO 32		ISO 32	
Vane	item	00 VTL 02 10 (N°4)		00 VTL 04 10 (N°4)	
Sealing kit	item	00 KIT VTL 02		00 KIT VTL 04	
Check valve	item	10 01 15		10 02 15	
Suction filter	item	FB 5 - FPL 1 - FCL 1 - FIL 1		FB 15 - FC 10 - FPL 2 - FCL 2 - FIL 2	

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

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

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

cfm = m³/h x 0.588; inch Hg = mbar x 0.0295; psi = bar x 14.6