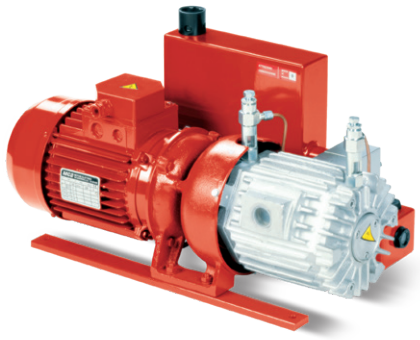
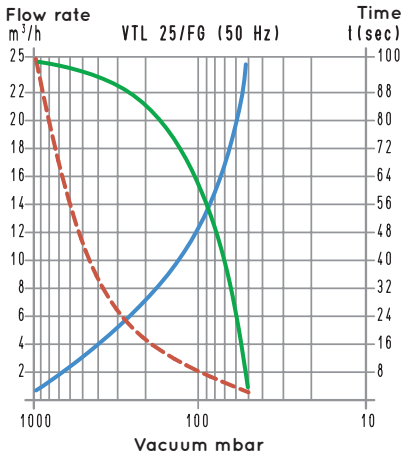
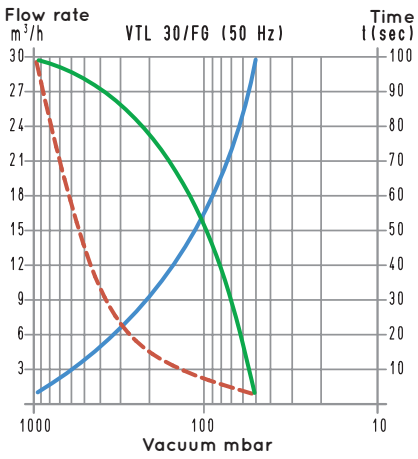
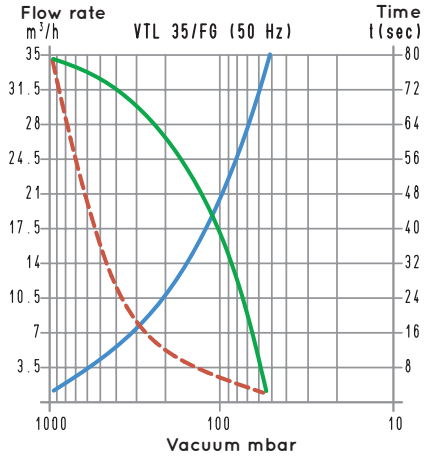
VACUUM PUMPS VTL 25/FG, 30/FG and 35/FG

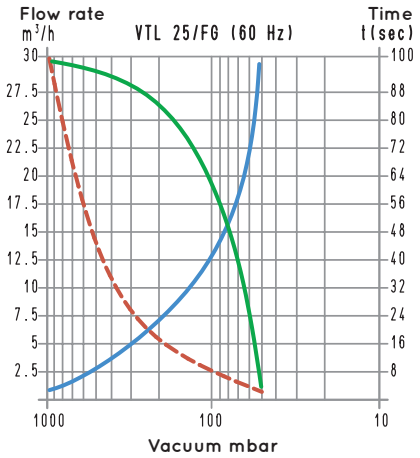
These vacuum pumps have a suction flow rate of 25, 30 and 35 m^3/h.
The vacuum lubrication with oil recirculation is adjusted via two oilers located in correspondence of the support bearings.
The rotor is cantilevered-fitted on the motor shaft and supported by independent bearings housed in the two pump flanges.
The pump and the electric motor are, therefore, two independent units and fixed onto a special support and connected to each other via 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. Heat is dispersed from the outer surface, suitably finned, by means of a radial fan placed between motor and pump.
An oil recovery tank is installed on the pump exhaust. This tank contains a separator filter that prevents oil mists and reduces noise.
We strongly recommend installing a check valve and a filter on the suction inlet.
Also this range of pumps can be supplied with single-phase electric motors.

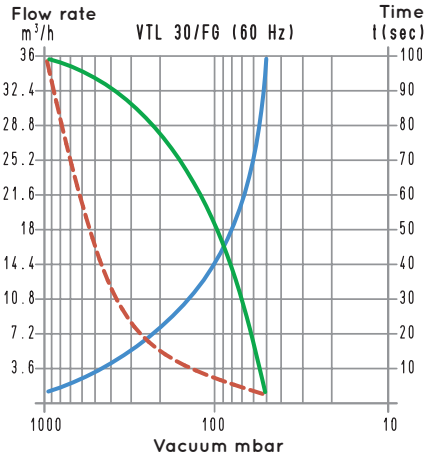


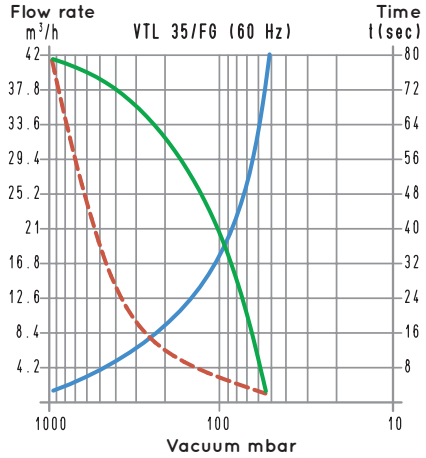








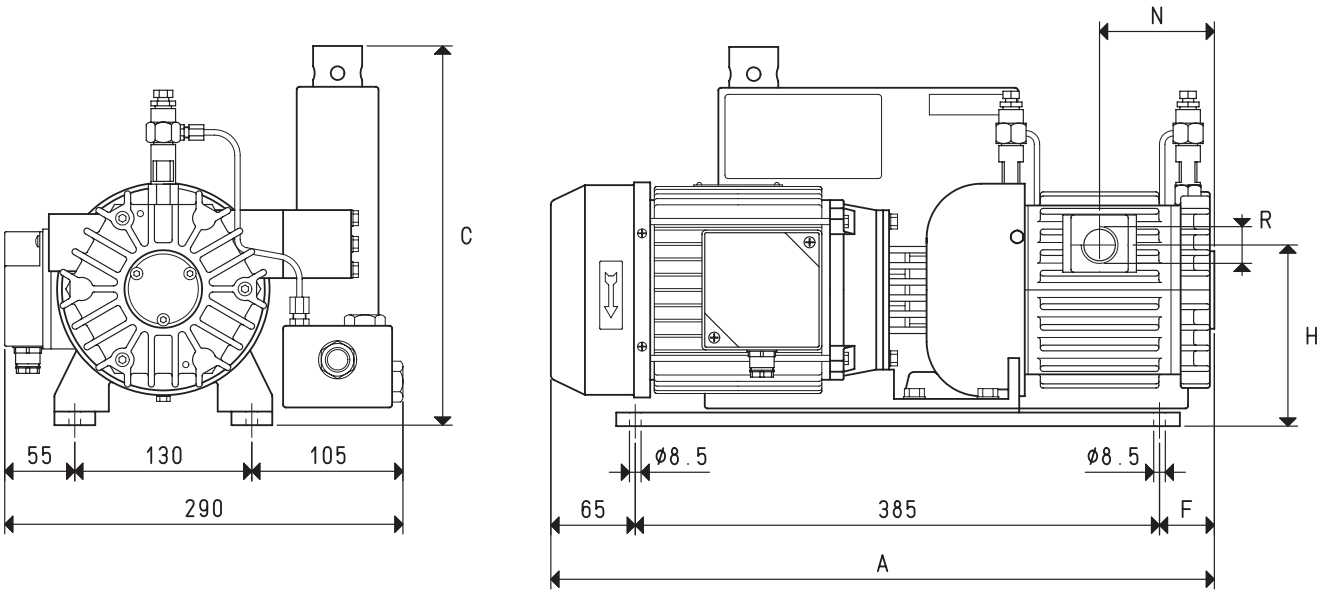




To calculate the emptying time of a volume of V_1, use the following formula: $t_1 = \frac{t \times V_1}{100}$

- 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		VTL 25/FG		VTL 30/FG		VTL 35/FG	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Flow rate	m^3/h	25.0	30.0	30.0	36.0	35.0	42.0
Final pressure	mbar abs.	50		50		50	
Motor performance	3~	230/400±10%	265/460±10%	230/400±10%	265/460±10%	230/400±10%	265/460±10%
Volt	1~	230±10%		230±10%		230±10%	
Motor power	3~	0.75	0.90	0.75	0.90	1.10	1.35
Kw	1~	0.75		0.75		1.10	
Motor protection	IP	55		55		55	
Rotation speed	g/min^{-1}	1410	1640	1410	1640	1435	1745
Motor shape		B14		B14		B14	
Motor size		80		80		80	
Noise level	dB(A)	64	66	65	67	65	67
Max weight	3~	31.0		35.0		37.0	
Kg	1~	31.5		35.5		37.5	
A		470		490		510	
C		280		280		280	
F		20		40		60	
H		133		133		133	
N		73		83		93	
R	Ø gas	G3/4"		G3/4"		G3/4"	

Accessories and Parts		VTL 25/FG	VTL 30/FG	VTL 35/FG
Oil charge	L	0.65	0.85	0.85
Lubricating oil	type	ISO 100	ISO 100	ISO 100
6 vanes	item	00 VTL 25FG 10	00 VTL 30FG 10	00 VTL 35FG 10
Sealing kit	item	00 KIT VTL 25FG	00 KIT VTL 30FG	00 KIT VTL 35FG
Check valve	item	10 04 10	10 04 10	10 04 10
Suction filter	item	FB 28/FC 25	FB 28/FC 25	FB 28/FC 25
Adjustable drip oiler	item	00 VTL 00 11	00 VTL 00 11	00 VTL 00 11

Note: Add the letter M to the item for a pump supplied with a single-phase electric motor (Example: VTL 25/FG 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