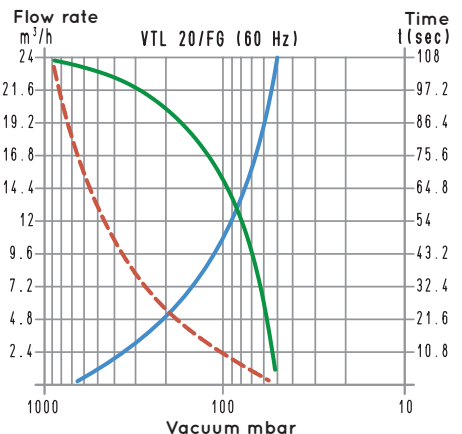
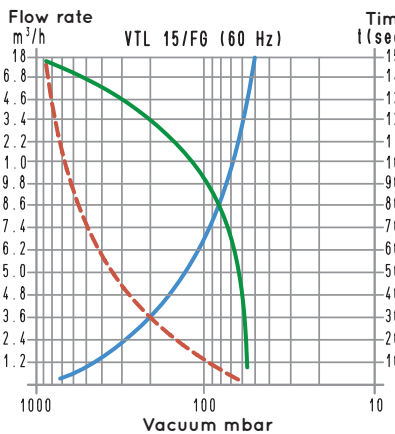
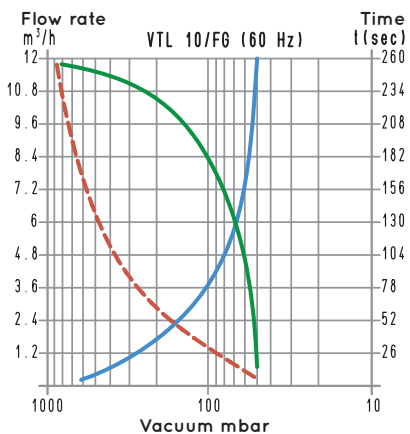
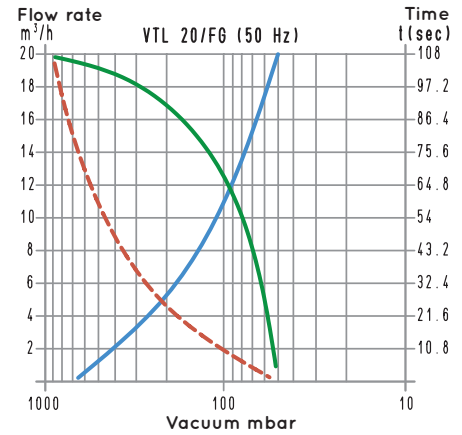
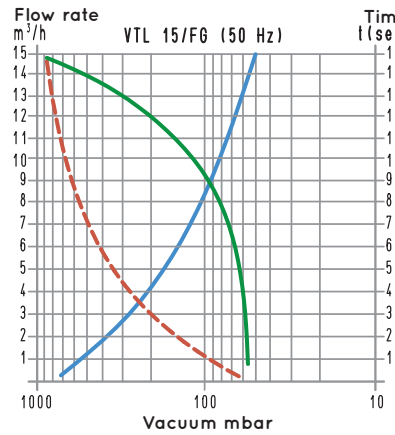
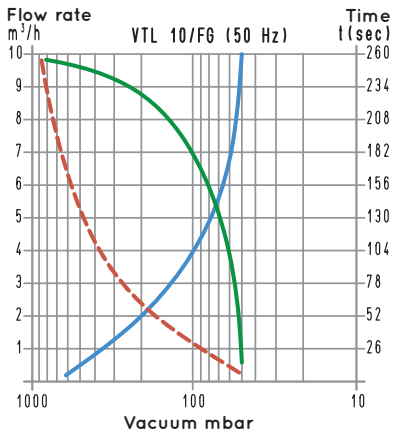
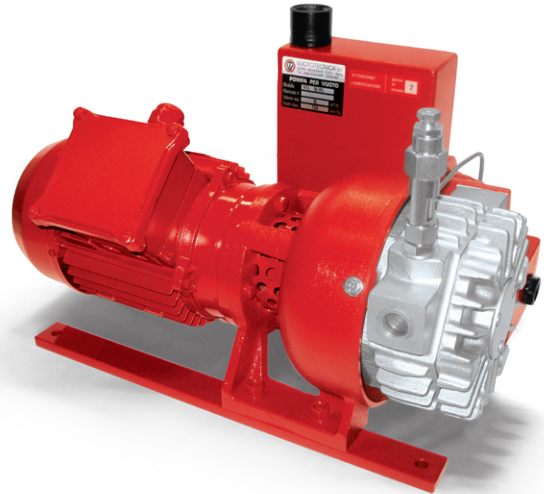


VACUUM PUMPS VTL 10/FG, 15/FG and 20/FG



3D drawings are available on vuototecnica.net

These vacuum pumps have a suction flow rate of 10, 15 and 20 m³/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 **V₁**, use the following formula: $t_1 = \frac{t \times V_1}{100}$

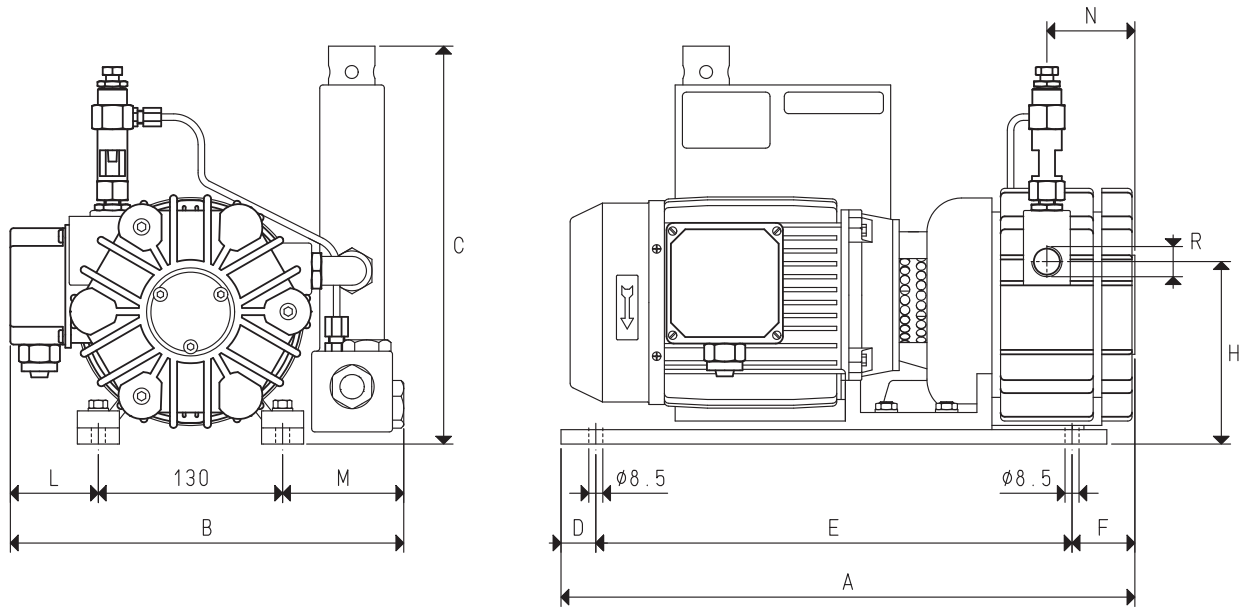
- Curve relative to the flow rate (referring to the suction pressure)
- - - Curve relative to the flow rate (referring to a 1013 mbar pressure)
- Curve regarding the emptying time of a 100-litre volume

- V₁**: Volume to be emptied (l)
- t₁**: time to be calculated (sec)
- t**: time obtained in the table (sec)



VACUUM PUMPS VTL 10/FG, 15/FG and 20/FG

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Item	VTL 10/FG		VTL 15/FG		VTL 20/FG	
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Frequency	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Flow rate m ³ /h	10.0	12.0	15.0	18.0	20.0	24.0
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~	0.55	0.66	0.55	0.66	0.55	0.66
Kw 1~	0.55	0.66	0.55	0.66	0.55	0.66
Motor protection IP	55		55		55	
Rotation speed g/min ⁻¹	1450	1680	1450	1680	1450	1680
Motor shape	Special		Special		Special	
Motor size	80		80		80	
Noise level dB(A)	71	73	74	76	80	82
Max weight 3~	24.0		28.0		31.0	
Kg 1~	24.5		28.5		31.5	
A	430		450		470	
B	300		300		300	
C	270		270		285	
D	65		65		65	
E	340		340		340	
F	25		45		65	
H	133		133		133	
L	55		55		55	
M	115		115		155	
N	58		68		78	
R Ø gas	G1/2"		G1/2"		G1/2"	

Accessories and Parts		VTL 10/FG	VTL 15/FG	VTL 20/FG
Oil charge L		0.4	0.5	0.65
Lubricating oil type		ISO 100	ISO 100	ISO 100
6 vanes item		00 VTL 10FG 10	00 VTL 15FG 10	00 VTL 20FG 10
Sealing kit item		00 KIT VTL 10FG	00 KIT VTL 15FG	00 KIT VTL 20FG
Check valve item		10 03 10	10 03 10	10 03 10
Suction filter item		FB 20/FC 20	FB 20/FC 20	FB 20/FC 20
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 10/FG 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