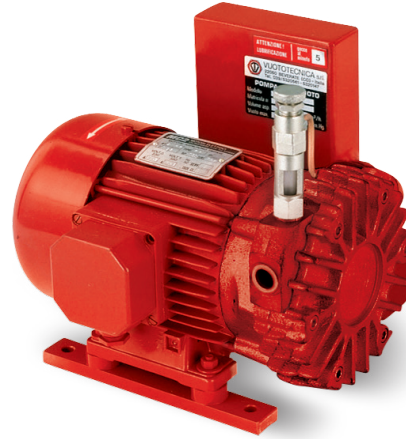


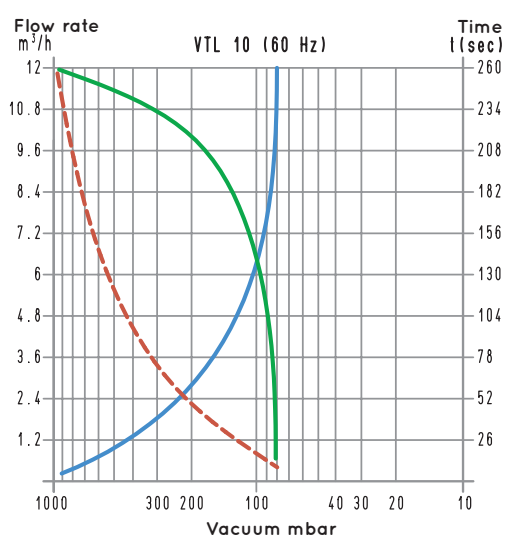
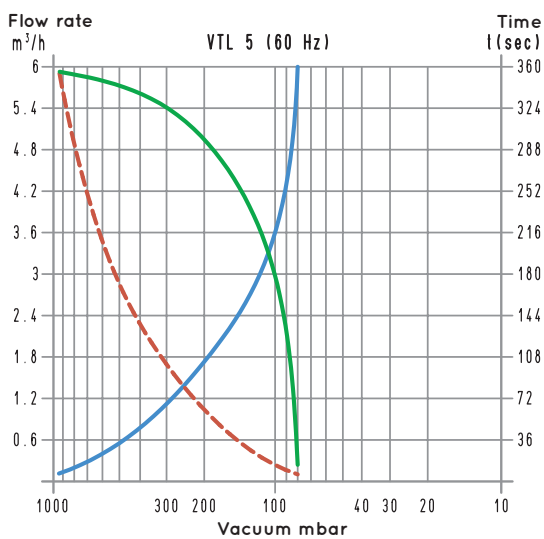
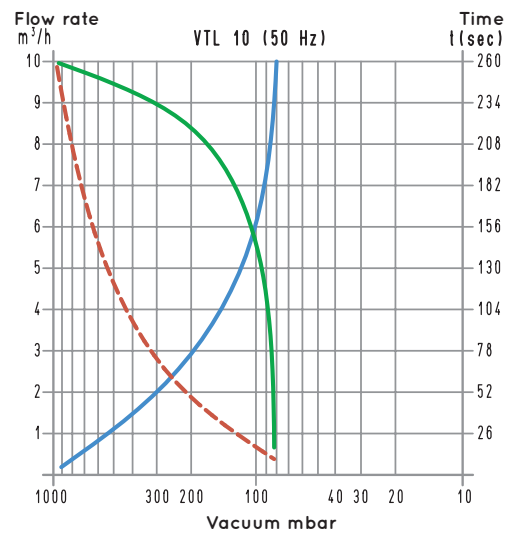
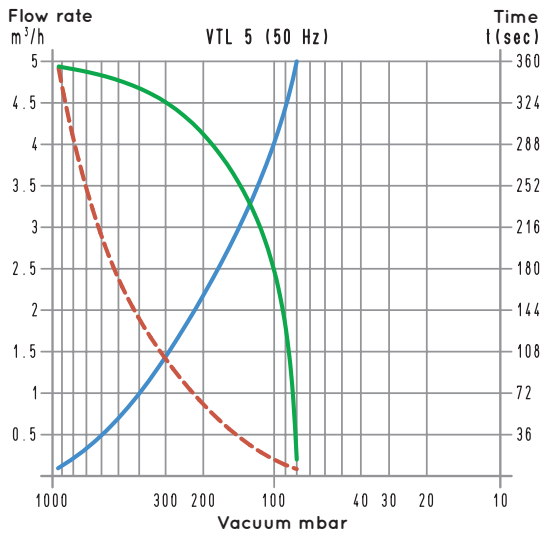


## VACUUM PUMPS VTL 5 and 10

These vacuum pumps have a suction flow rate of 5 and 10 m<sup>3</sup>. The vacuum lubrication with oil recirculation can be adjusted via an oiler located in correspondence of the suction inlet. The rotor is cantilevered-fitted on the motor shaft and, as a result, the overall dimensions are reduced. The motor and the pump are cooled by the motor fan (surface cooling). 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. Pumps VTL 5 and 10 can also be supplied with a single-phase electric motor.



3D drawings are available on [vuotecnica.net](http://vuotecnica.net)



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

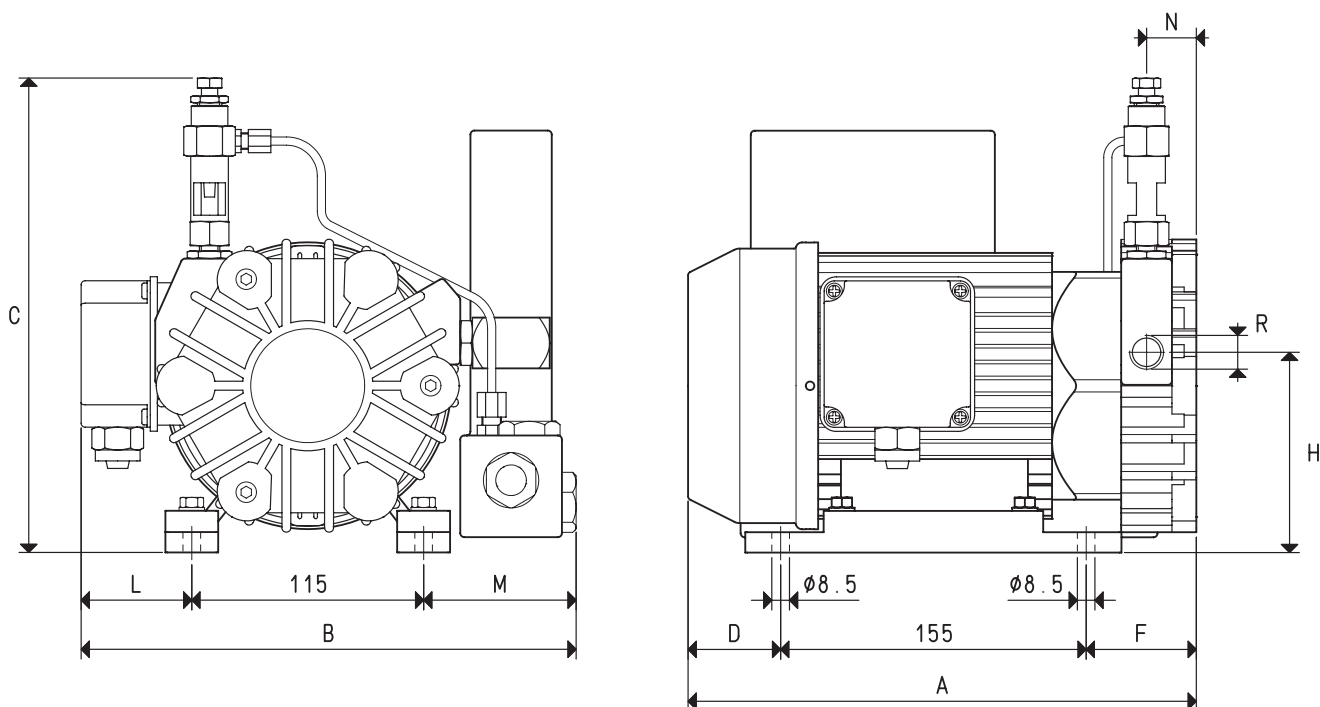
- Curve relative to the flow rate (referring to the suction pressure)
- - - Curve relative to the flow rate (referring to a 1013 mbar pressure)
- Curve regarding the emptying time of a 100-litre volume

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



# VACUUM PUMPS VTL 5 and 10

3D drawings are available on [vuotecnica.net](http://vuotecnica.net)



Item	VTL 5		VTL 10	
	50Hz	60Hz	50Hz	60Hz
<b>Frequency</b>	50Hz	60Hz	50Hz	60Hz
<b>Flow rate</b> m <sup>3</sup> /h	5.0	6.0	10.0	12.0
<b>Final pressure</b> mbar abs.	80		80	
<b>Motor performance</b> 3~	230/400±10%		230/400±10%	
<b>Volt</b> 1~	230±10%		230±10%	
<b>Motor power</b> 3~	0.25	0.30	0.37	0.40
<b>Kw</b> 1~	0.25	0.30	0.37	0.40
<b>Motor protection</b> IP	55		55	
<b>Rotation speed</b> g/min <sup>-1</sup>	1450	1680	1450	1680
<b>Motor shape</b>	Special		Special	
<b>Motor size</b>	71		71	
<b>Noise level</b> dB(A)	62	64	62	64
<b>Max weight</b> 3~	14.5		20.5	
<b>Kg</b> 1~	15.0		21.0	
<b>A</b>	260		310	
<b>B</b>	245		262	
<b>C</b>	245		245	
<b>D</b>	52		70	
<b>F</b>	53		85	
<b>H</b>	122		122	
<b>L</b>	45		45	
<b>M</b>	85		102	
<b>N</b>	27		52	
<b>R</b> Ø gas	G3/8"		G1/2"	
<b>Accessories and Parts</b>	<b>VTL 5</b>		<b>VTL 10</b>	
<b>Oil charge</b> L	0.25		0.40	
<b>Lubricating oil</b> type	ISO 32		ISO 100	
<b>6 vanes</b> item	00 VTL 05 10		00 VTL 10 10	
<b>Sealing kit</b> item	00 KIT VTL 05		00 KIT VTL 10	
<b>Check valve</b> item	10 02 10		10 03 10	
<b>Suction filter</b> item	FB 10/FC 10		FB 20/FC 20	
<b>Adjustable drip oiler</b> item	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 5 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 = m<sup>3</sup>/h x 0.588; inch Hg = mbar x 0.0295; psi = bar x 14.6