



VACUUM PUMP VTLP 105/G1, WITH DISPOSABLE LUBRICATION

3D drawings are available on vuototecnica.net

These vacuum pumps have a suction flow rate of 105 m³/h.

The vacuum with disposable oil lubrication 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.

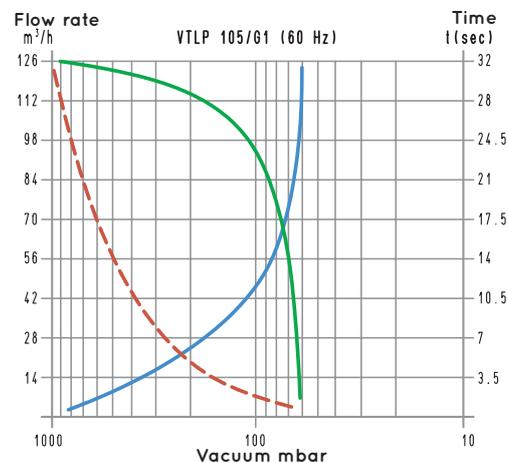
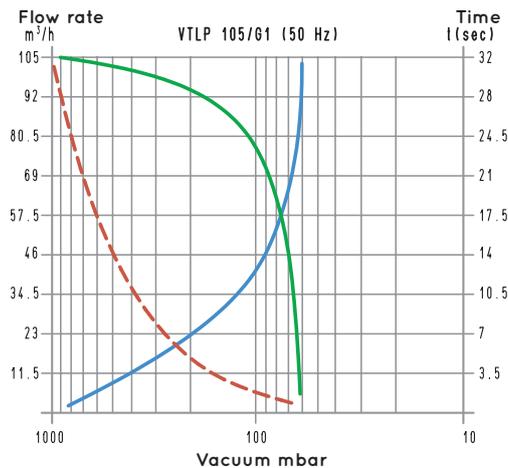
An oil recovery tank is installed on the pump exhaust. This tank contains a separator filter that prevents oil mists and reduces noise.

A safety valve is also installed on the tank for the automatic drainage of the exhaust oil when not regularly drained.

The lubrication oil is contained in a special transparent container, fixed to the pump via its support, and controlled by a magnetic level switch.

In pumps with disposable lubrication, the oil is sucked in the pump through an adjustable drip oilers and drained together with the sucked air in the recovery tank, without being put in circulation again. These pumps are necessary when the air to be sucked contains water condensation, solvent vapours or anything else that could affect oil properties.

A check valve and a filter must be installed on the pump suction inlet. These pumps are supplied with three-phase electric motors only.

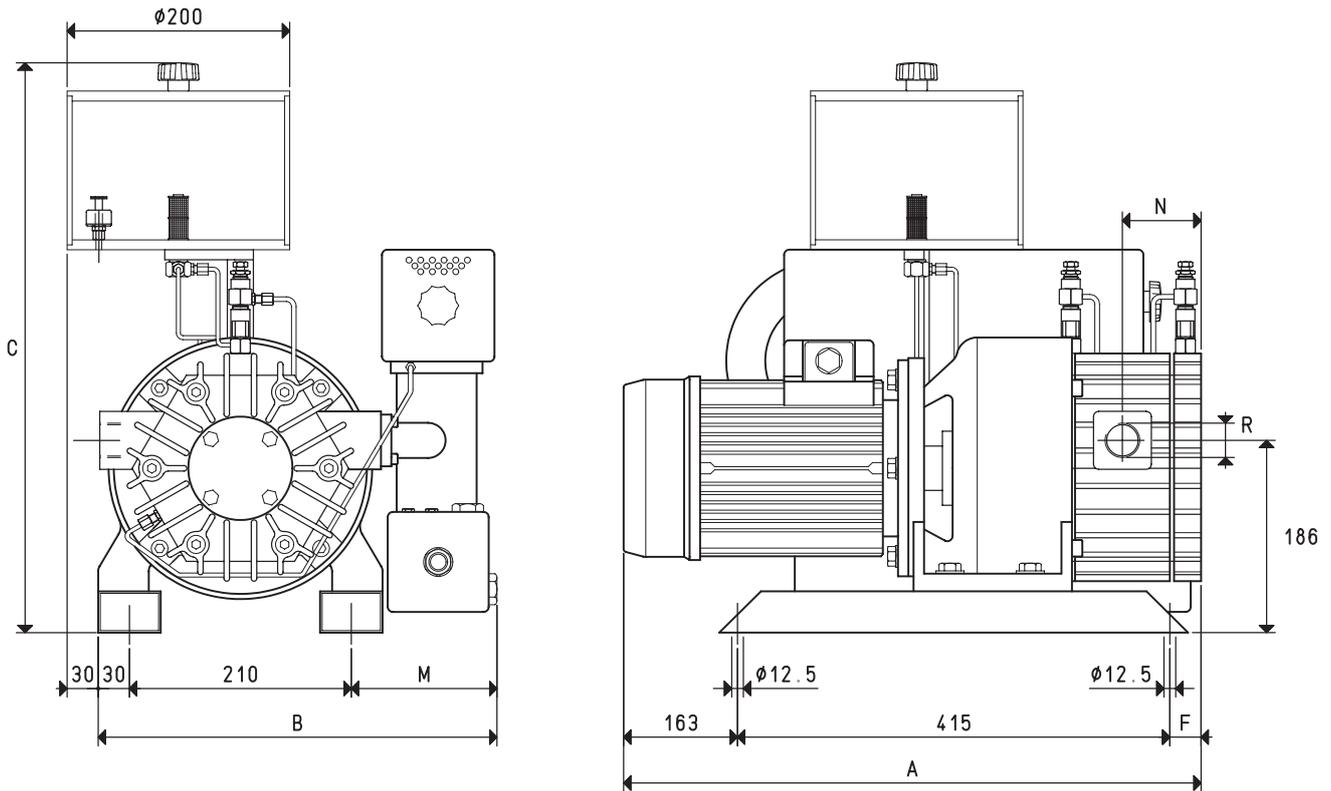


To calculate the emptying time of a volume of V_1 , use the following formula: $t_1 = \frac{t \times V_1}{100}$

- 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)

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Item	VTLP 105/G1	
Frequency	50Hz	60Hz
Flow rate	m ³ /h	105.0 126.0
Final pressure	mbar abs.	50
Motor performance 3~	volt	230/400±10% 265/460±10%
Motor power 3~	Kw	3.00 3.60
Motor protection	IP	55
Rotation speed	g/min ⁻¹	1440 1700
Motor shape		B5
Motor size		100
Noise level	dB(A)	72 74
Max weight 3~	kg	99.4
A		690
B		430
C		620
F		112
M		160
N		122
R	∅ gas	G1"1/2
Accessories and Parts	VTLP 105/G1	
Oil charge	L	3.8
Lubricating oil	type	ISO 150
Deoiling cartridge	item	00 VTL 105G1 29
Vane	item	00 VTL 105 G110 (N*6)
Sealing kit	item	00 KIT VTL 105G1
Check valve	item	10 07 10
Suction filter	item	FB 50 - FC 50 - FPL 6- FCL 6- FIL 6
Oil level switch	item	00 LP VTL 99
Oil filter	item	00 LP VTL 40
Adjustable drip oiler	item	00 VTL 00 11

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