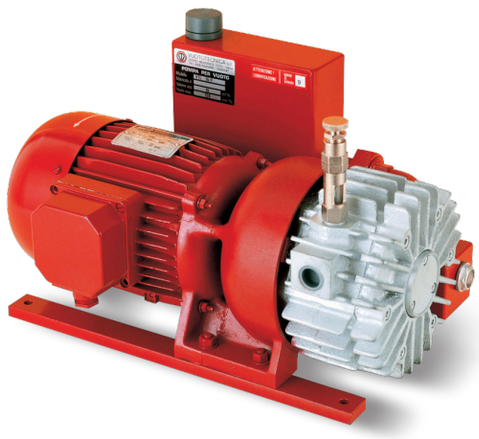
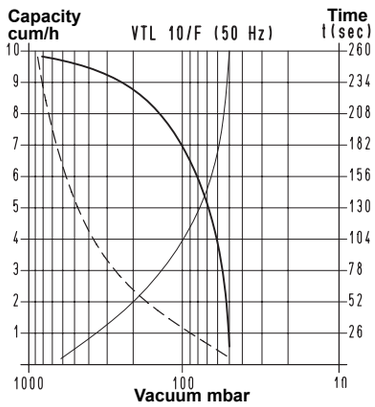
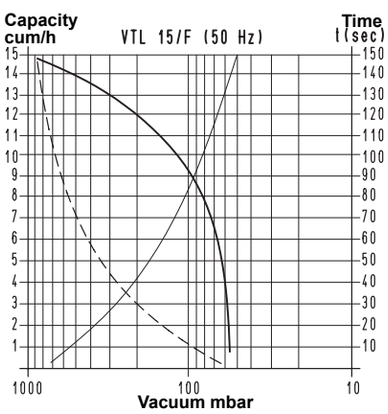
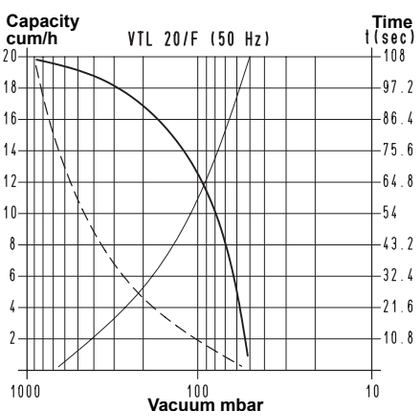
VACUUM PUMPS VTL 10/F, 15/F and 20/F

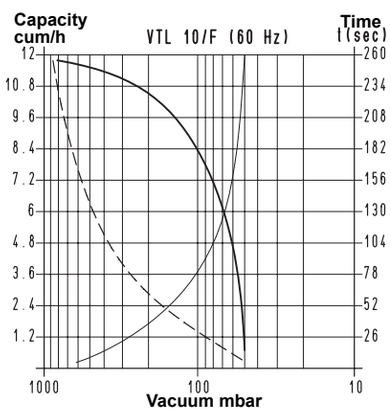


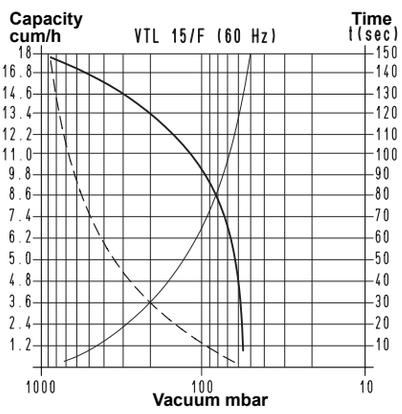
These vacuum pumps having a suction capacity of 10, 15 and 20 cum/h. The vacuum lubrication with oil recirculation can be adjusted via an oiler located in correspondence of the suction inlet.
The rotor is cantilevered-fitted on the motor shaft and supported by independent bearings housed in the two pump flanges.
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 filtre that prevents oil mists and reduces noise.
We strongly recommend installing a check valve and a filtre on the suction inlet.
Also this range of pumps can be supplied with single-phase electric motors.

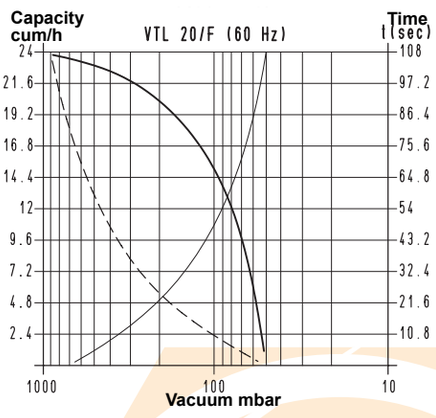










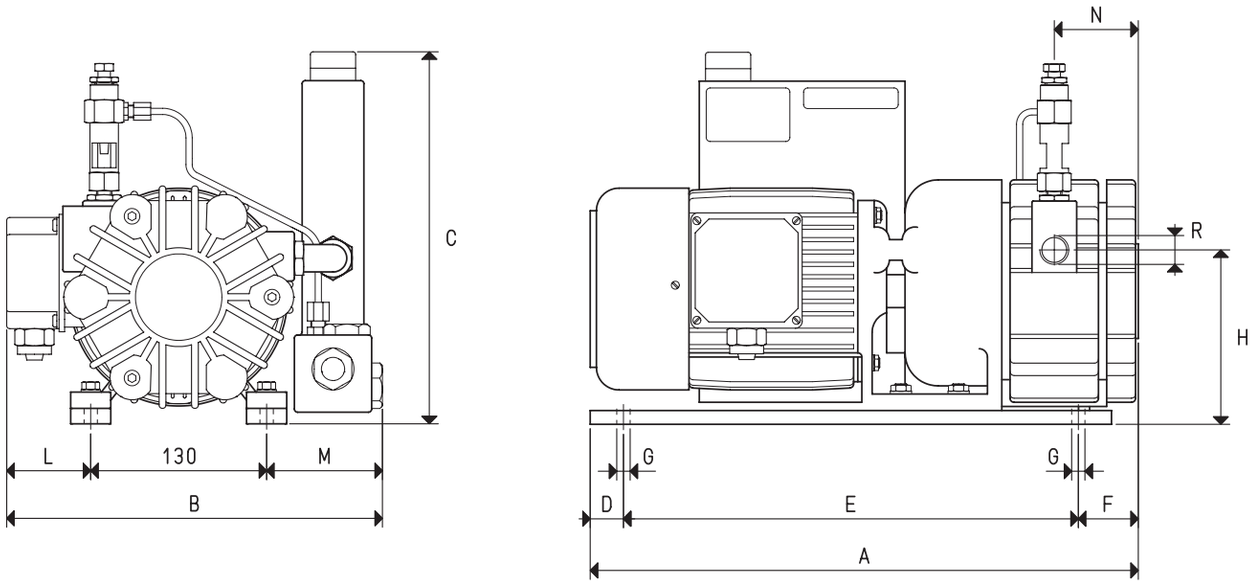


To calculate the emptying time of a volume V1, apply the formula $t1 = \frac{t \times V1}{100}$

——— Curve regarding capacity (referring to the suction pressure)
– – – Curve regarding capacity (referring to a 1013 bar pressure)
——— Curve regarding the emptying of a 100-litre volume

V1 : Volume to be emptied
t1 : Time to be calculated (sec)
t : Time obtained in the table (sec)

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



Art.		VTL 10/F		VTL 15/F		VTL 20/F	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity	m^3/h	10.0	12.0	15.0	18.0	20.0	24.0
Final pressure	mbar abs.	50		50		50	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%	230/400±10%	275/480±10%
Volt	1~	230±10%		230±10%		230±10%	
Motor power	3~	0.55	0.66	0.55	0.66	0.88	1.05
Kw	1~	0.55	0.66	0.55	0.66	0.66	0.80
Motor protection	IP	54		54		54	
Rotation speed	rev/min^{-1}	1450	1740	1450	1740	1450	1740
Motor shape		Special		Special		Special	
Motor size		80		80		80	
Noise level	dB(A)	62	64	63	65	64	66
Max. weight	3~	25.0		27.0		30.0	
Kg	1~	25.5		27.5		30.5	
A		385		405		425	
B		285		285		285	
C		259		259		259	
D		25		25		25	
E		340		340		340	
F		20		40		60	
H		133		133		133	
L		55		55		55	
M		100		100		100	
N		53		63		73	
R	Ø gas	G1/2"		G1/2"		G1/2"	
Accessories and spare parts							
Oil load	l	0.4		0.5		0.65	
Synthetic oil	VT OIL	ISO 68		ISO 68		ISO 68	
6 vanes	art.	00 VTL 10F 10		00 VTL 15F 10		00 VTL 20F 10	
Sealing kit	art.	00 KIT VTL 10F		00 KIT VTL 15F		00 KIT VTL 20F	
Check valve	art.	10 03 10		10 03 10		10 03 10	
Suction filtre	art.	FB 20/FC 20		FB 20/FC 20		FB 20/FC 20	
Adjustable drip oiler	art.	00 VTL 00 11		00 VTL 00 11		00 VTL 00 11	

Note: The pump will be supplied with single-phase electric motor by adding the letter M to the article (E.g.: VTL 10/F M).

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$ cfm= cum/h x 0.588; inch Hg= mbar x 0.0295; psi= bar (g) x 14.6