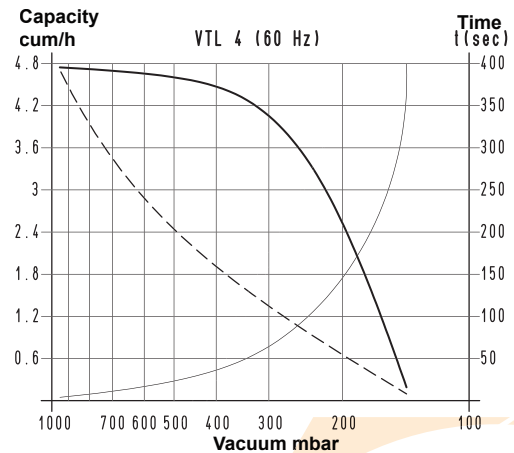
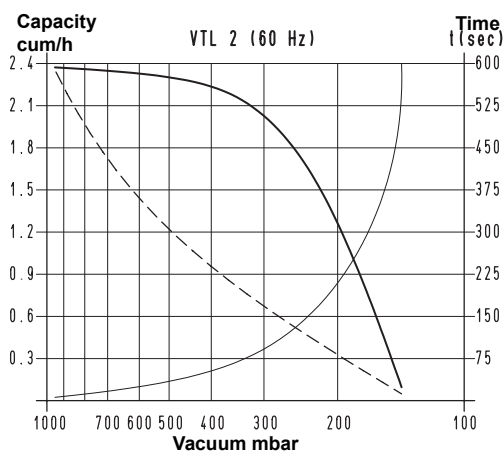
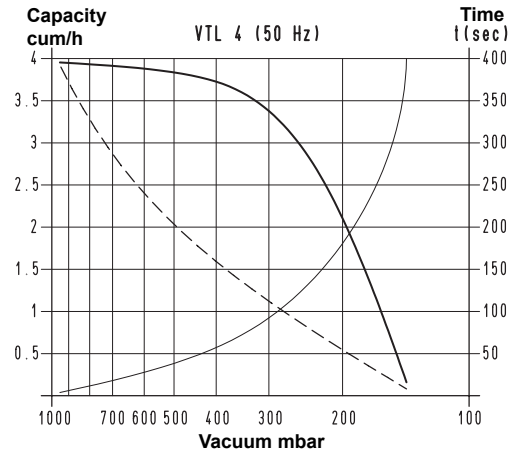
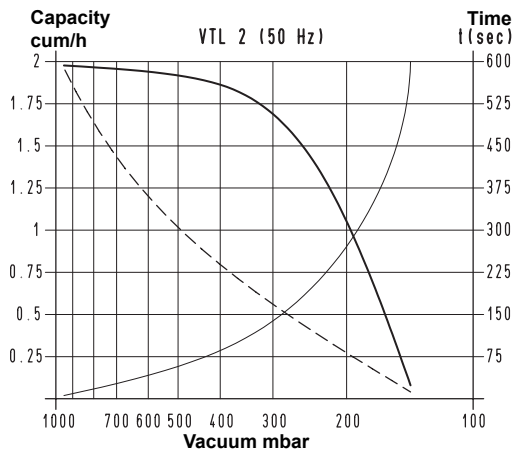
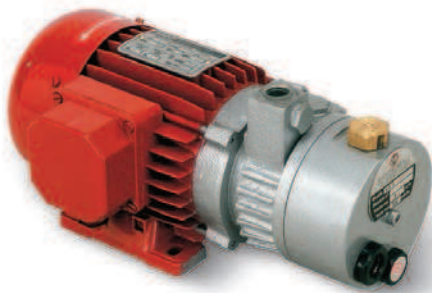


VACUUM PUMPS VTL 2 and 4

These small vacuum pumps have a suction capacity of 2 and 4 cum/h. They feature a wick lubrication with oil recirculation, while the rotor, which is cantilevered-fitted on the motor shaft, allows reducing the overall dimensions to the minimum.

The motor and the pump are cooled by the motor fan (surface cooling). The pumps are equipped with a small tank in line with the pump, which contains the lubrication oil as well as a separator filtre to prevent oil mists and to reduce noise. We strongly recommend installing a check valve and a filtre on the suction inlet. Pumps VTL 2 and 4 can also be supplied with single-phase electric motor.

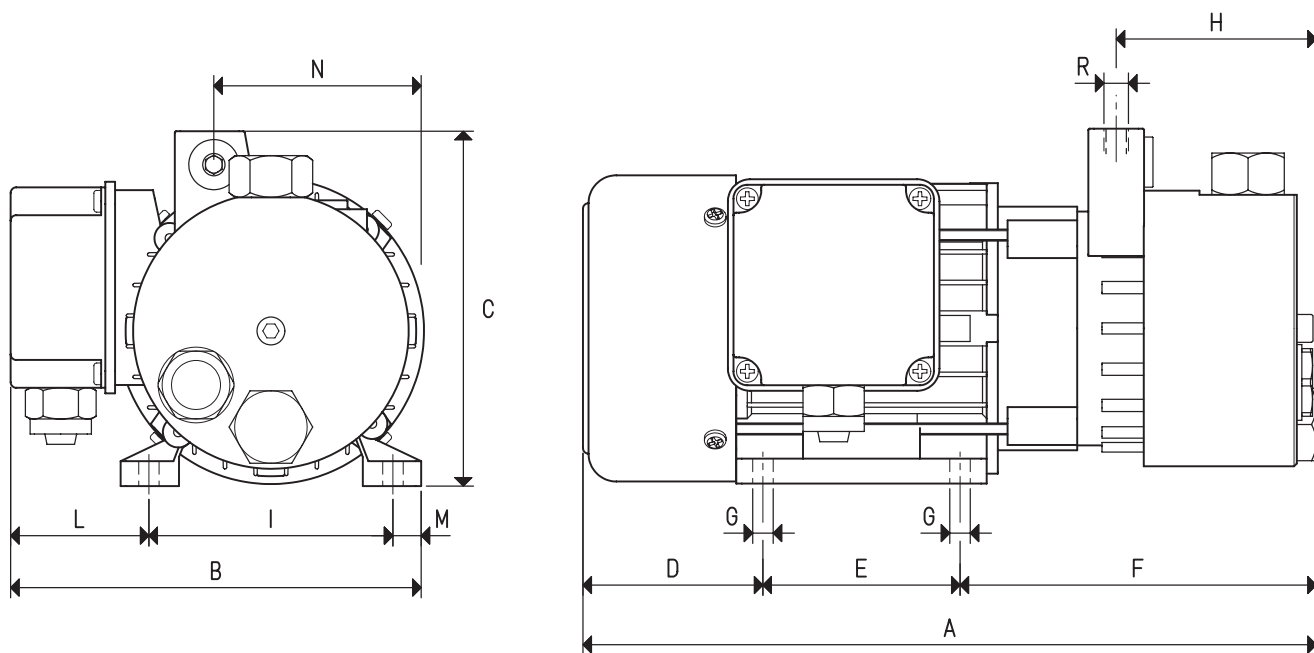


To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{100}$

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

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

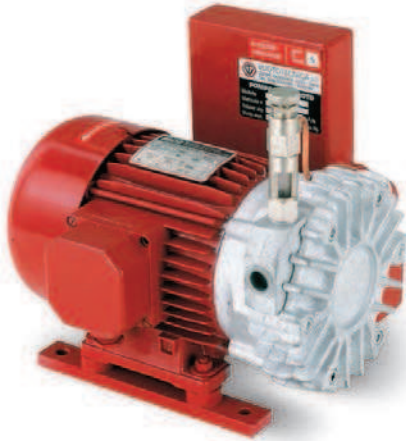
VACUUM PUMPS VTL 2 and 4



Art.		VTL 2		VTL 4	
Frequency		50Hz	60Hz	50Hz	60Hz
Capacity	m ³ /h	2.0	2.4	4.0	4.8
Final pressure	mbar abs.	150		150	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%
Volt	1~	230±10%		230±10%	
Motor power	3~	0.13	0.15	0.18	0.21
Kw	1~	0.13	0.15	0.15	0.18
Motor protection	IP	54		54	
Rotation speed	rev/min ⁻¹	2800	3300	2800	3300
Motor shape		Special		Special	
Motor size		56		63	
Noise level	dB(A)	62	65	62	65
Max. weight	3~	5.7		7.3	
Kg	1~	6.0		7.5	
A		260		285	
B		145		160	
C		126		132	
D		62		66	
E		71		80	
F		127		139	
G	Ø	6.5		7.5	
H		72		80	
I		90		100	
L		43		48	
M		12		12	
N		76		86	
R	Ø gas	G1/4"		G3/8"	
Accessories and spare parts					
Oil load	l	0.05		0.05	
Synthetic oil	VT OIL	ISO 32		ISO 32	
4 vanes	art.	00 VTL 02 10		00 VTL 04 10	
Sealing kit	art.	00 KIT VTL 02		00 KIT VTL 04	
Check valve	art.	10 01 15		10 02 15	
Suction filtre	art.	FB 5		FB 10/FC 10	

Note: The pump will be supplied with single-phase electric motor by adding the letter M to the article (E.g.: VTL 2 M).

VACUUM PUMPS VTL 5 and 10

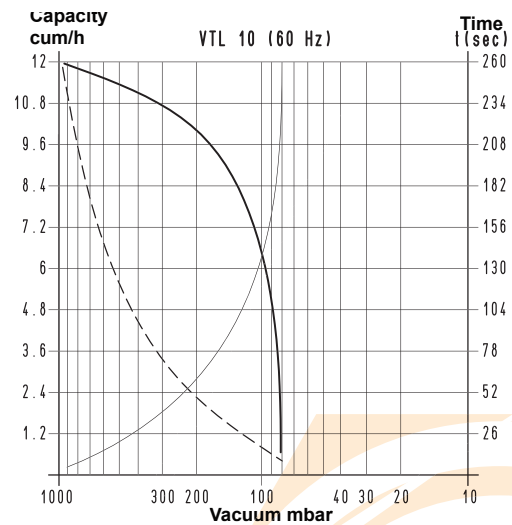
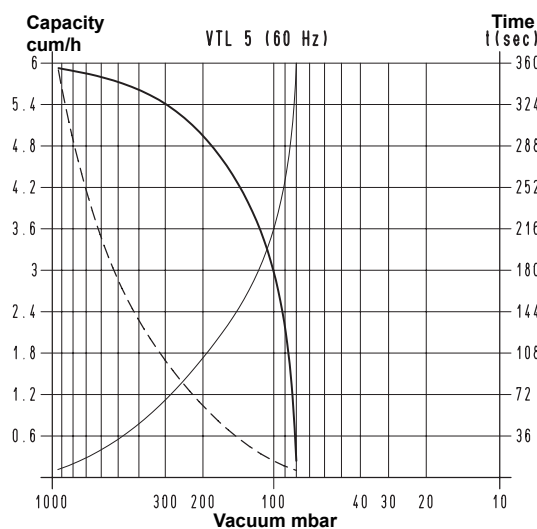
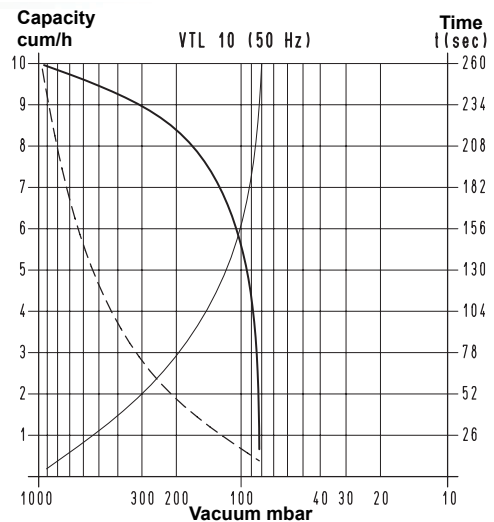
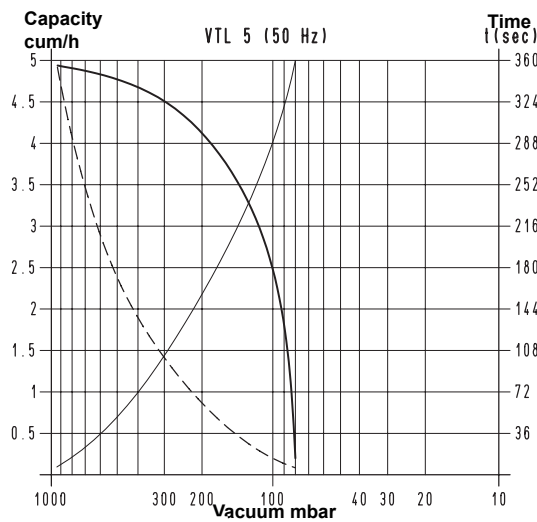


These vacuum pumps have a suction capacity of 5 and 10 cum/h.
The vacuum lubrication with oil recirculation can be adjusted via an oiler located in correspondence of the suction inlet.

The rotor is cantilevered-fitted on the motor shaft and, 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 filtre that prevents oil mists and reduces noise.

We strongly recommend installing a check valve and a filtre on the suction inlet.
Pumps VTL 5 and 10 can also be supplied with a single-phase electric motor.

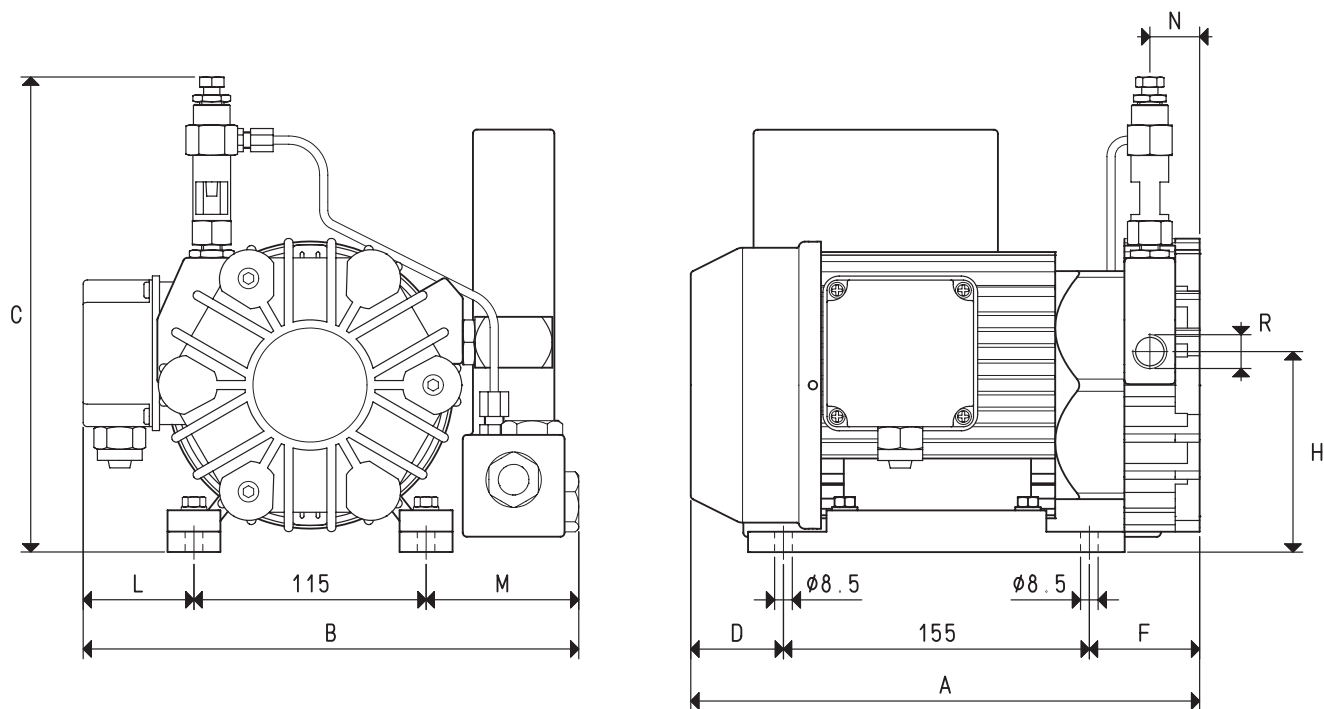


To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{100}$

- 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

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

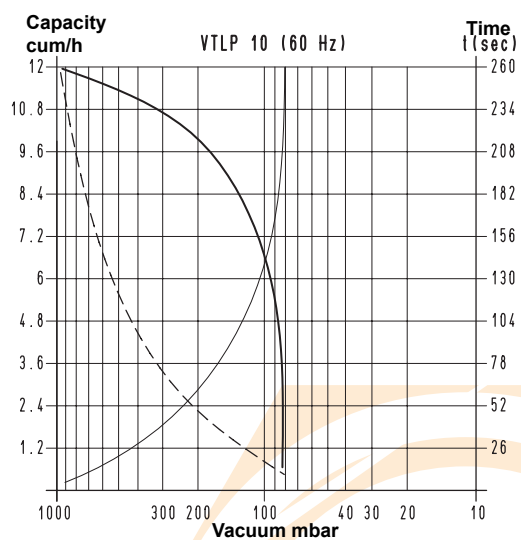
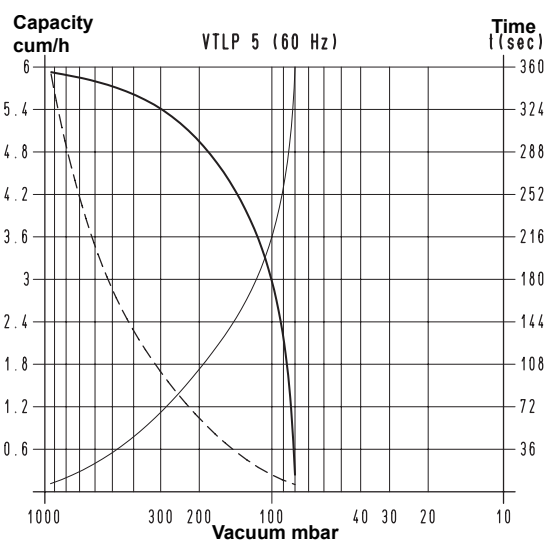
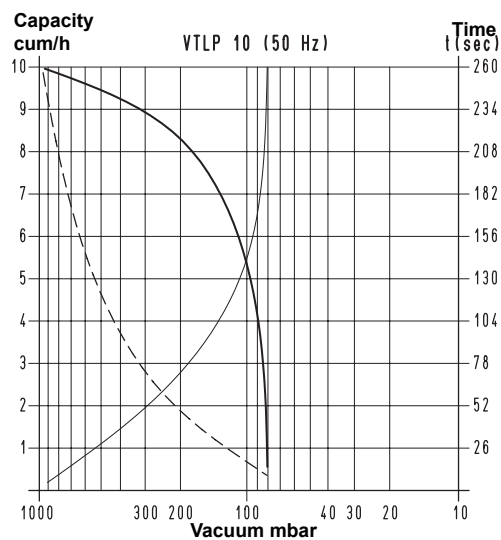
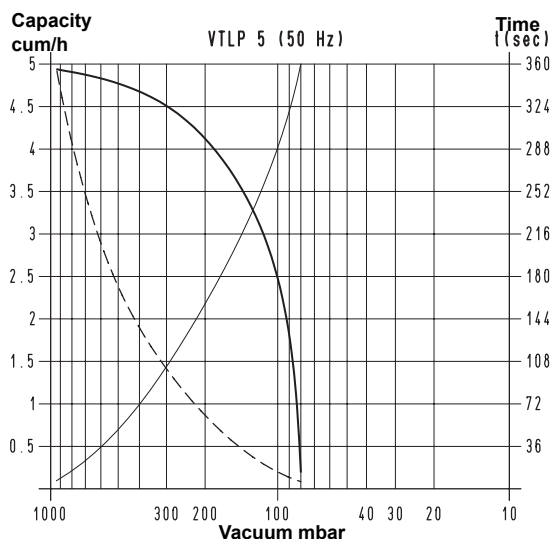
VACUUM PUMPS VTL 5 and 10



Art.		VTL 5		VTL 10	
Frequency		50Hz	60Hz	50Hz	60Hz
Capacity	m³/h	5.0	6.0	10.0	12.0
Final pressure	mbar abs.	80		80	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%
Volt	1~	230±10%		230±10%	
Motor power	3~	0.25	0.30	0.35	0.40
Kw	1~	0.25	0.30	0.25	0.30
Motor protection	IP	54		54	
Rotation speed	rev/min ⁻¹	1450	1740	1450	1740
Motor shape		Special		Special	
Motor size		71		71	
Noise level	dB(A)	62	64	62	64
Max. weight	3~	14.5		20.5	
Kg	1~	15.0		21.0	
A		260		310	
B		245		262	
C		245		245	
D		52		70	
F		53		85	
H		122		122	
L		45		45	
M		85		102	
N		27		52	
R	Ø gas	G3/8"		G1/2"	
Accessories and spare parts					
Oil load	l	0.25		0.40	
Synthetic oil	VT OIL	ISO 32		ISO 32	
6 vanes	art.	00 VTL 05 10		00 VTL 10 10	
Sealing kit	art.	00 KIT VTL 05		00 KIT VTL 10	
Check valve	art.	10 02 10		10 03 10	
Suction filtre	art.	FB 10/FC 10		FB 20/FC 20	
Adjustable drip oiler	art.	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 5 M).

VACUUM PUMPS VTLP 5 and 10 WITH DISPOSABLE LUBRICATION

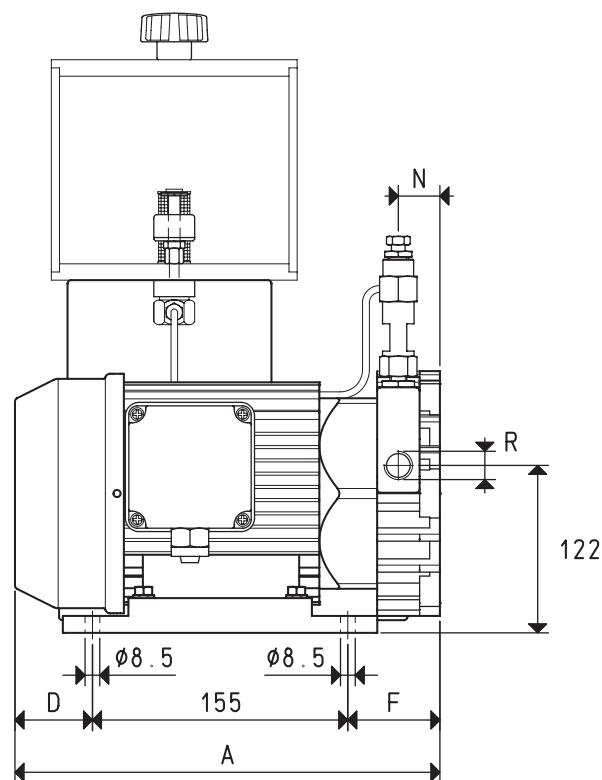
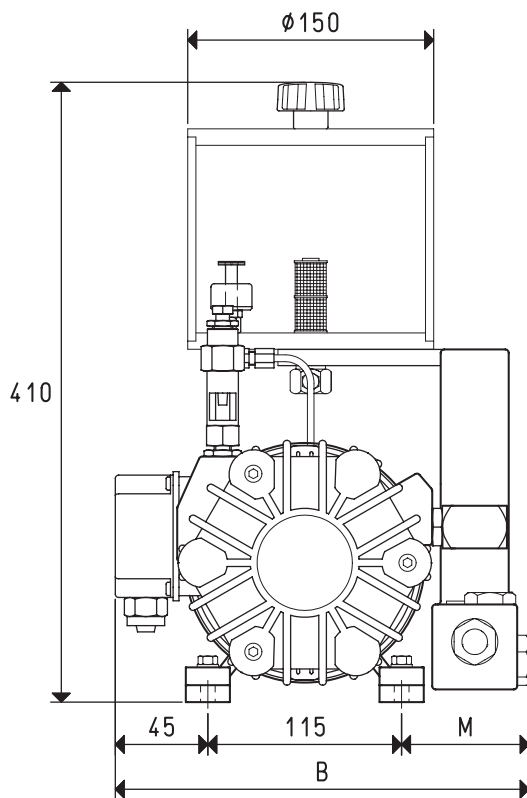


To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{100}$

- 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

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

VACUUM PUMPS VTL 5 AND 10



Art.		VTLP 5		VTLP 10	
Frequency		50Hz	60Hz	50Hz	60Hz
Capacity	m ³ /h	5.0	6.0	10.0	12.0
Final pressure	mbar abs.	80		80	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%
Volt	1~	230±10%		230±10%	
Motor power	3~	0.25	0.30	0.35	0.40
Kw	1~	0.25	0.30	0.25	0.30
Motor protection	IP	54		54	
Rotation speed	rev/min ⁻¹	1450	1740	1450	1740
Motor shape		Special		Special	
Motor size		71		71	
Noise level	dB(A)	62	64	62	64
Max. weight	3~	15.6		21.6	
Kg	1~	16.1		22.1	
A		260		310	
B		245		262	
D		52		70	
F		53		85	
M		85		102	
N		27		52	
R	Ø gas	G3/8"		G1/2"	
Accessories and spare parts					
Oil load	l	1.8		1.8	
Synthetic oil	VT OIL	ISO 32		ISO 32	
6 vanes	art.	00 VTL 05 10		00 VTL 10 10	
Sealing kit	art.	00 KIT VTL 05		00 KIT VTL 10	
Check valve	art.	10 02 10		10 03 10	
Suction filtre	art.	FB 10/FC 10		FB 20/FC 20	
Oil level switch	art.	00 LP VTL 99		00 LP VTL 99	
Oil filtre	art.	00 LP VTL 40		00 LP VTL 40	
Adjustable drip oiler	art.	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.: VTLP 5 M).

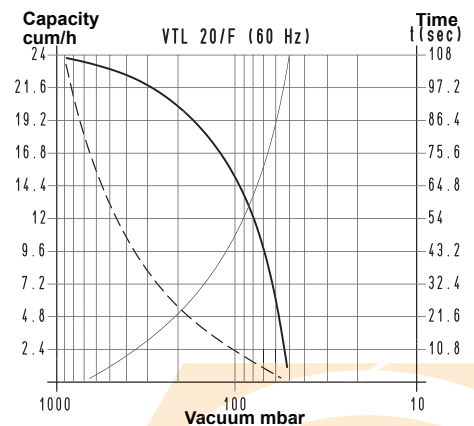
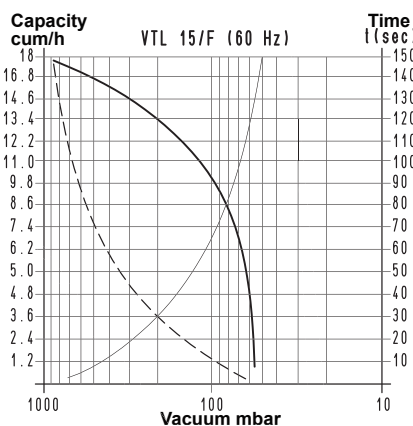
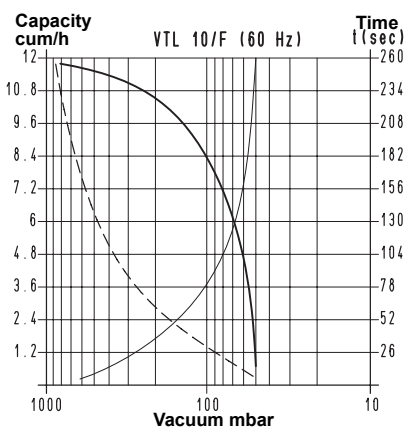
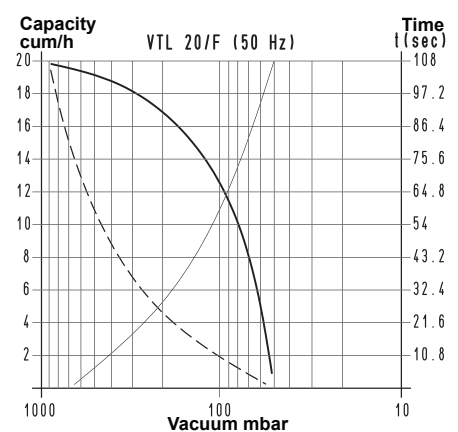
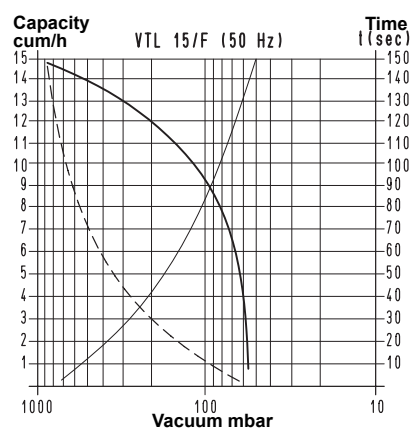
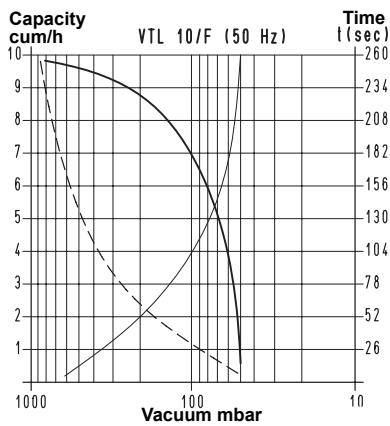
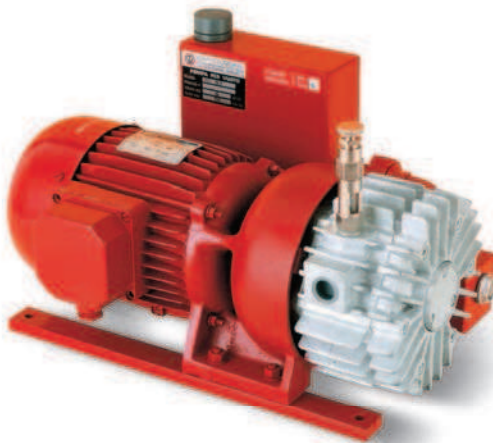
VACUUM PUMPS VTL 10/F, 15/F and 20/F

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.

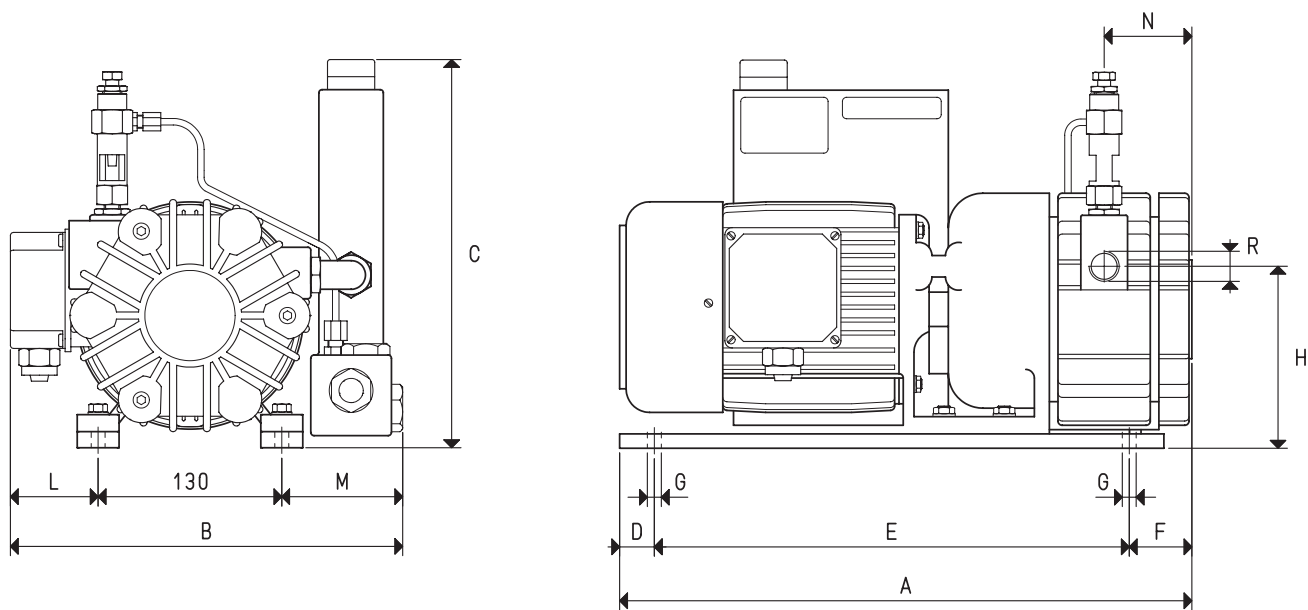


To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{100}$

- 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

V_1 : Volume to be emptied
 t_1 : 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	m³/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).

VACUUM PUMPS VTLP 10/F, 15/F and 20/F WITH DISPOSABLE LUBRICATION



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.

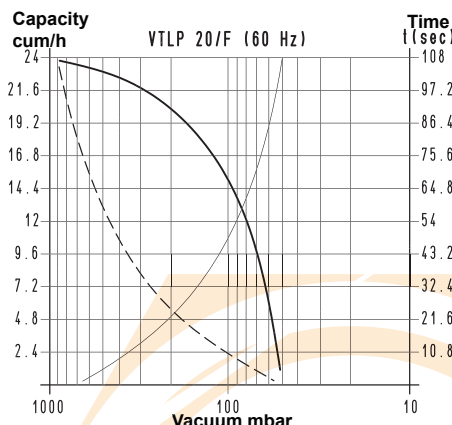
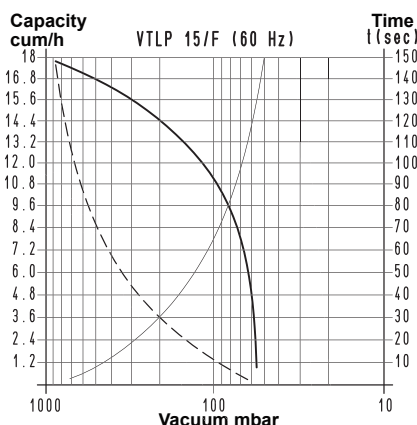
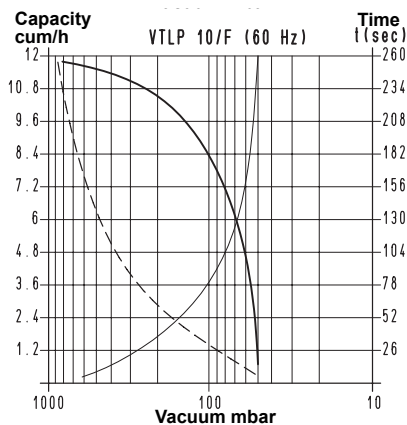
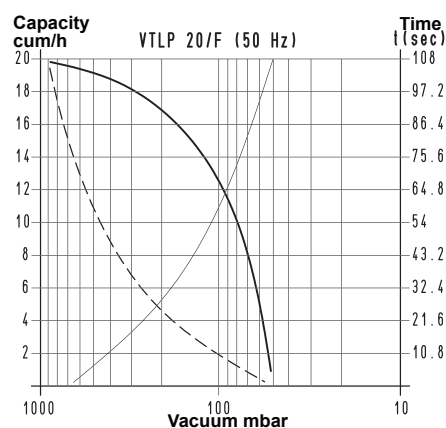
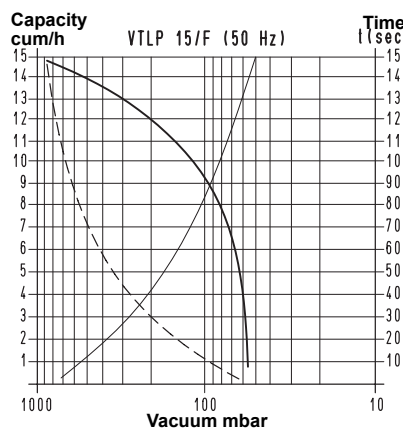
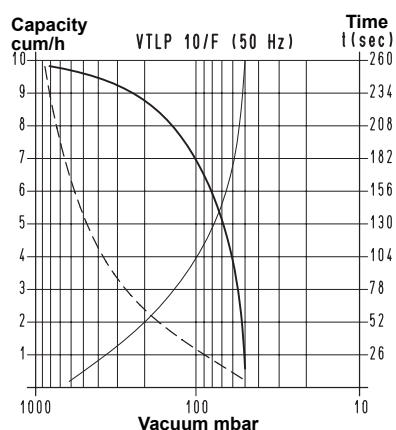
The pump is surface cooled. Heat is dispersed from the outer surface, suitably finned, by means of a radial fan placed between motor and pump. An oil recovery tank is installed on the pump exhaust. This tank contains a separator filtre that prevents oil mists and reduces noise. A safety valve is also 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 oiler 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 effect oil properties.

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.

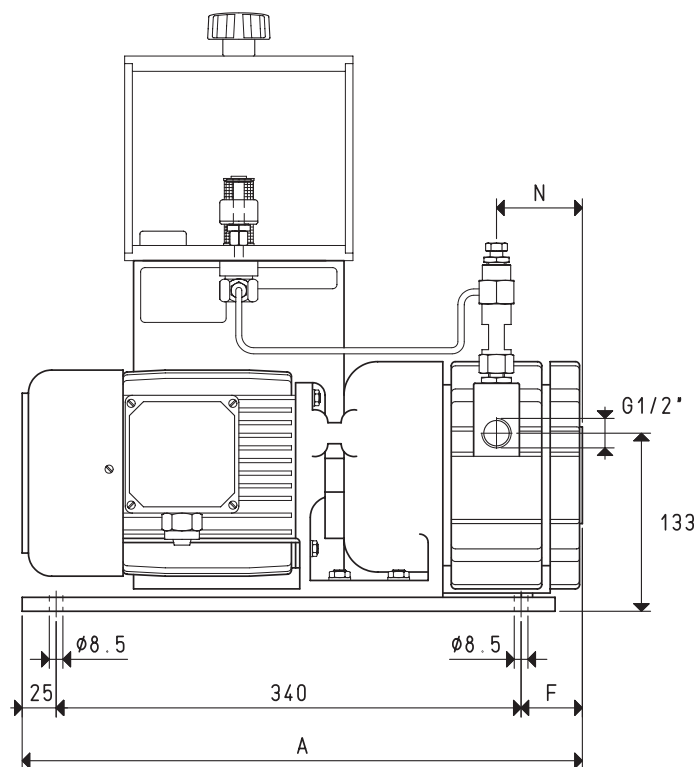
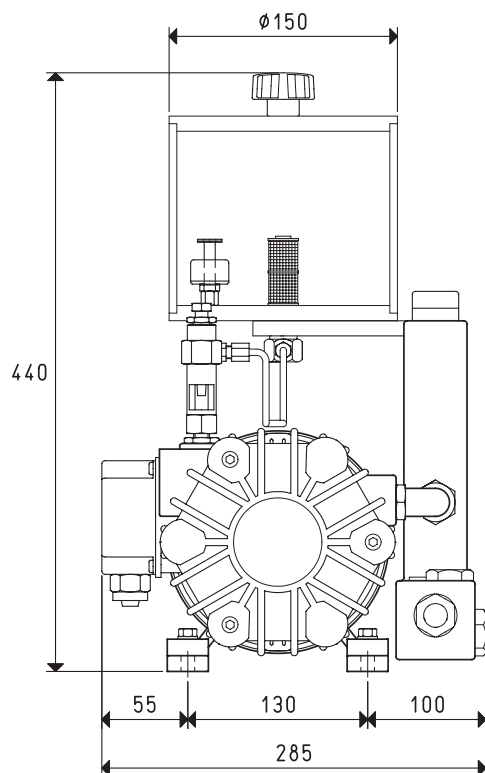


To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{100}$

- 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

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

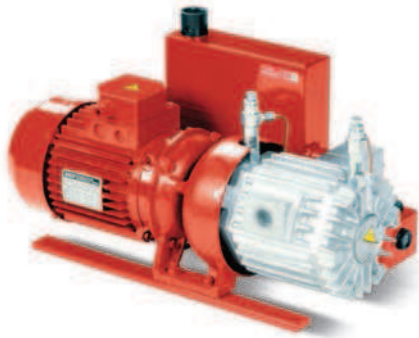
VACUUM PUMPS VTL 10/F, 15/F and 20/F



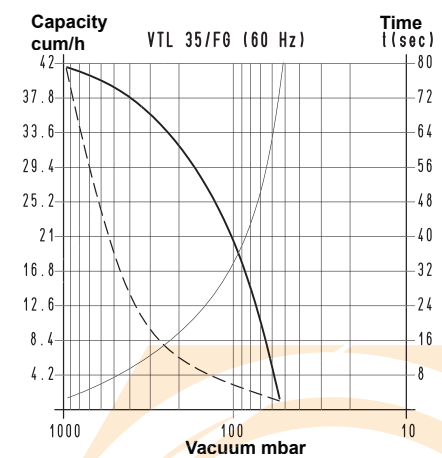
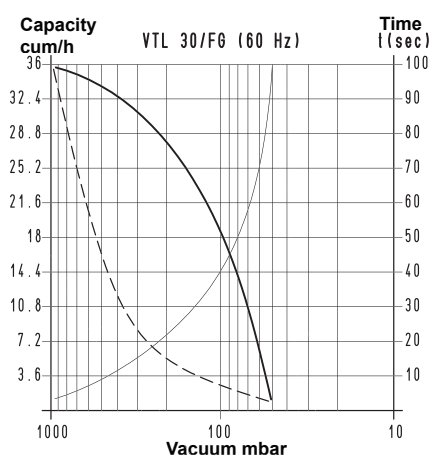
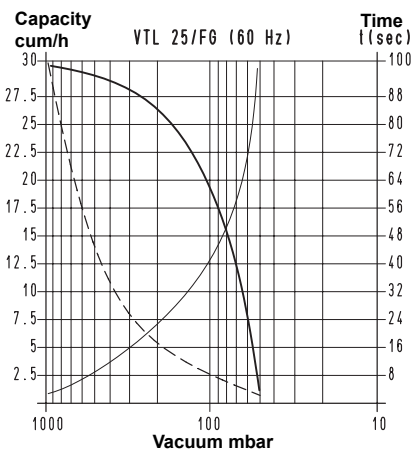
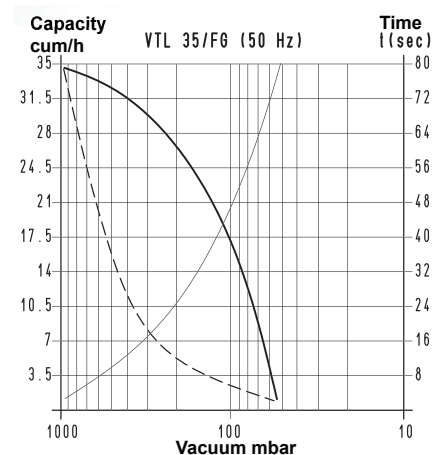
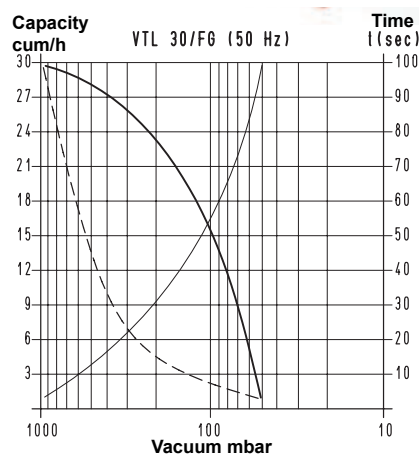
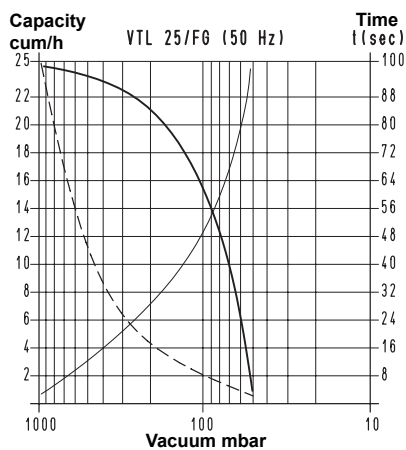
Art.		VTLP 10/F		VTLP 15/F		VTLP 20/F	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity	m³/h	10.0	12.0	15.0	18.0	20.0	24.0
Final pressure	mbar abs.	50		50		50	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%	230/400±10%	275/480 ±10%
Volt	1~	230±10%		230±10%		230±10%	
Motor power	3~	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~	26.1		28.1		31.1	
Kg	1~	26.6		28.6		31.6	
A		385		405		425	
F		20		40		60	
N		53		63		73	
Accessories and spare parts							
Oil load	l	1.8		1.8		1.8	
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	
Oil level switch	art.	00 LP VTL 99		00 LP VTL 99		00 LP VTL 99	
Oil filtre	art.	00 LP VTL 40		00 LP VTL 40		00 LP VTL 40	
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.: VTLP 10/F M).

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



These vacuum pumps have a suction capacity of 10, 15 and 20 cum/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 filtre that prevents oil mists and reduces noise. We strongly recommend installing a check valve and a filtre on the suction inlet. These pumps are supplied with three-phase electric motors only.

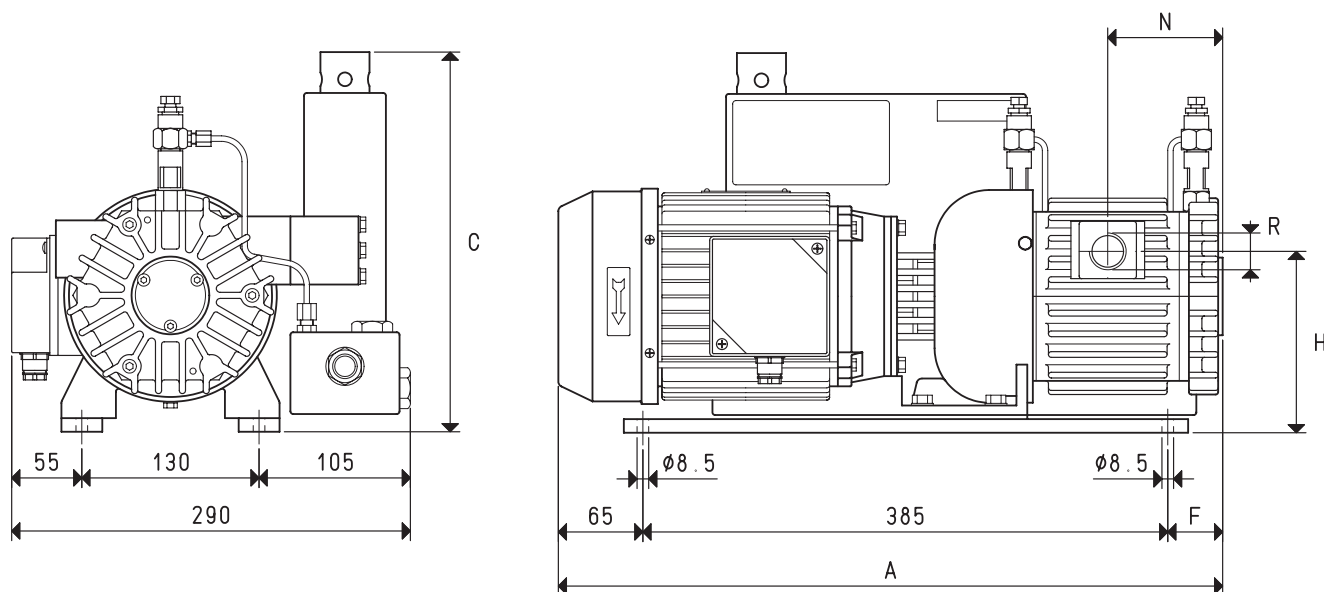


To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{100}$

- 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

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

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



Art.		VTL 25/FG		VTL 30/FG		VTL 35/FG	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity	m³/h	25.0	30.0	30.0	36.0	35.0	42.0
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							
Motor power	3~	0.88	1.05	1.00	1.20	1.00	1.20
Kw							
Motor protection	IP	54		54		54	
Rotation speed	rev/min ⁻¹	1450	1740	1450	1740	1450	1740
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							
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 spare parts							
Oil load	l	0.65		0.85		0.85	
Synthetic oil	VT OIL	ISO 68		ISO 68		ISO 68	
6 vanes	art.	00 VTL 25FG 10		00 VTL 30FG 10		00 VTL 35FG 10	
Sealing kit	art.	00 KIT VTL 25FG		00 KIT VTL 30FG		00 KIT VTL 35FG	
Check valve	art.	10 04 10		10 04 10		10 04 10	
Suction filter	art.	FB 25/FC 25		FB 25/FC 25		FB 25/FC 25	
Adjustable drip oiler	art.	00 VTL 00 11		00 VTL 00 11		00 VTL 00 11	

VACUUM PUMPS VTL 25/FG, 30/FG and 35/FG WITH DISPOSABLE LUBRICATION



These vacuum pumps have a suction capacity of 25, 30 and 35 cum/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 filtre that prevents oil mists and reduces noise.

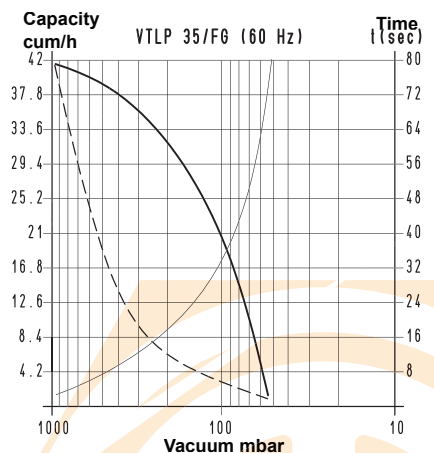
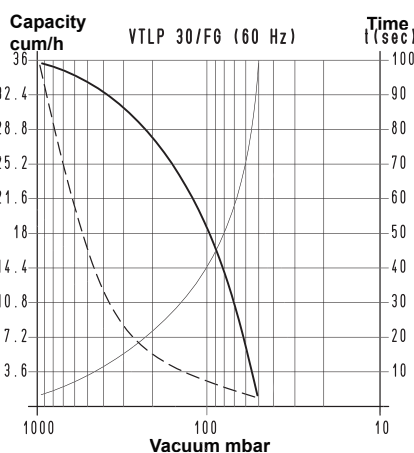
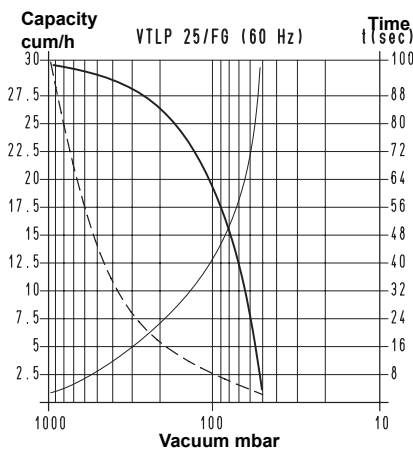
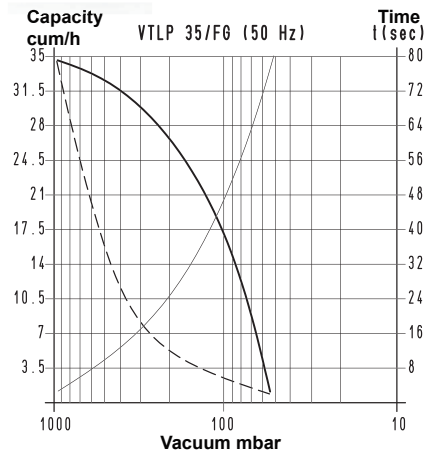
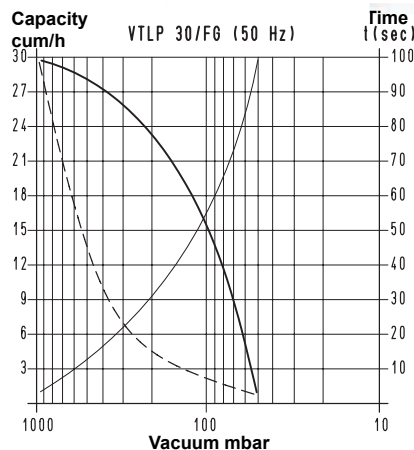
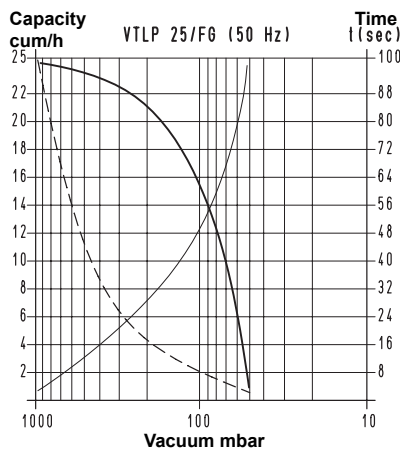
A safety valve is also installed on the tank for the automatic drainage of the exhaust oil when not regularly drained.

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 oiler 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 effect oil properties.

We strongly recommend installing a check valve and a filtre on the suction inlet.

These pumps are supplied with three-phase electric motors only.

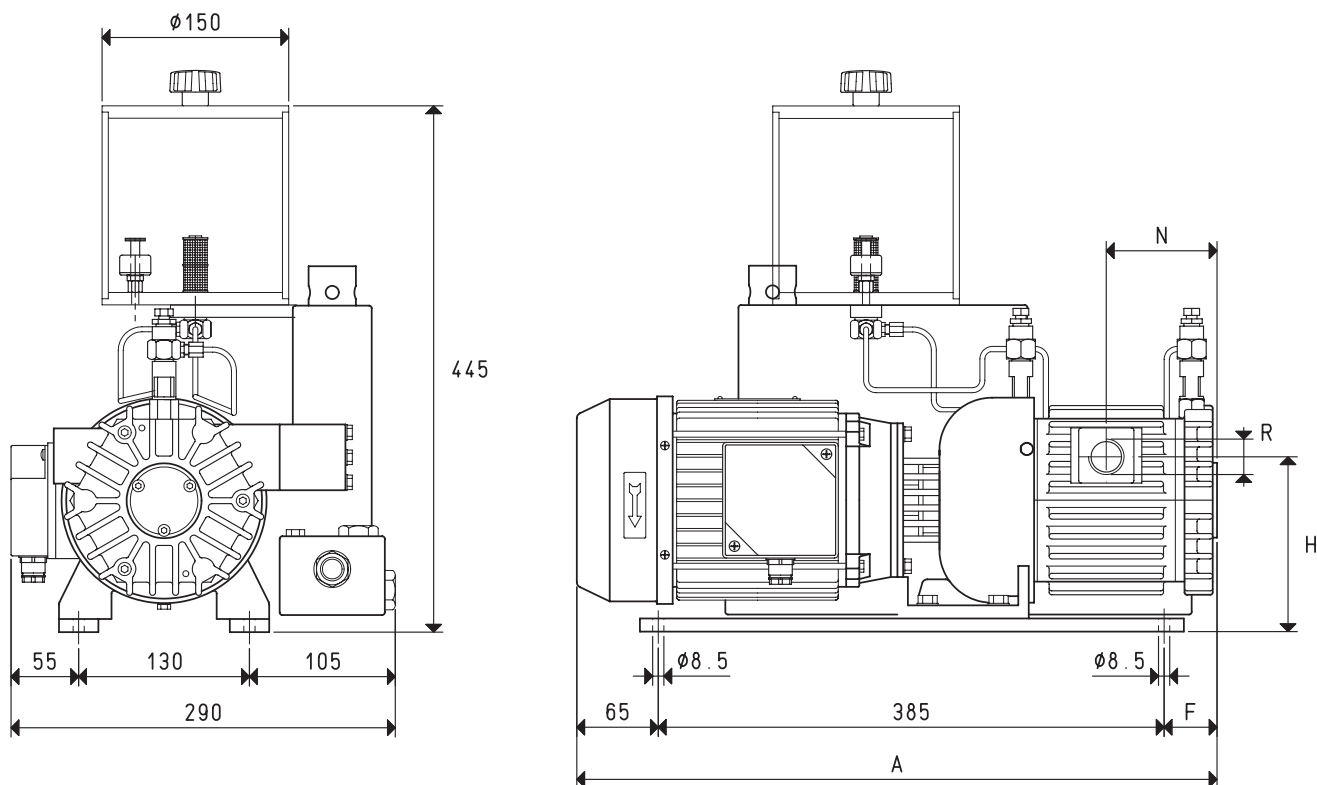


To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{100}$

- 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

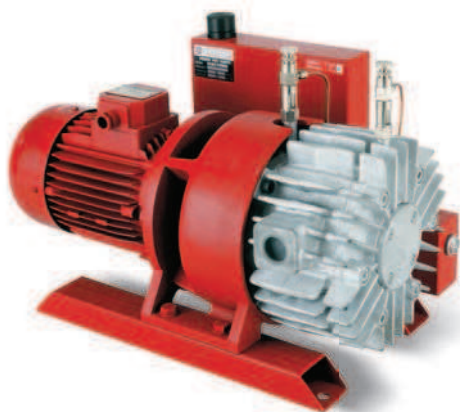
V_1 : Volume to be emptied
 t_1 : Time to be calculated (sec)
 t : Time obtained in the table (sec)

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



Art.		VTLP 25/FG		VTLP 30/FG		VTLP 35/FG	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity	m³/h	25.0	30.0	30.0	36.0	35.0	42.0
Final pressure	mbar abs.	50	50	50	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							
Motor power	3~	0.88	1.05	1.00	1.20	1.00	1.20
Kw							
Motor protection	IP	54	54	54	54	54	54
Rotation speed	rev/min ⁻¹	1450	1740	1450	1740	1450	1740
Motor shape		B14	B14	B14	B14	B14	B14
Motor size		80	80	80	80	80	80
Noise level	dB(A)	64	66	65	67	65	67
Max. weight	3~	32.0	32.0	36.0	36.0	38.0	38.0
Kg							
A		470	470	490	490	510	510
F		20	20	40	40	60	60
H		133	133	133	133	133	133
N		73	73	83	83	93	93
R	Ø gas	G3/4"	G3/4"	G3/4"	G3/4"	G3/4"	G3/4"
Accessories and spare parts							
Oil load	l	1.8	1.8	1.8	1.8	1.8	1.8
Synthetic oil	VT OIL	ISO 68	ISO 68	ISO 68	ISO 68	ISO 68	ISO 68
6 vanes	art.	00 VTL 25FG 10	00 VTL 25FG 10	00 VTL 30FG 10	00 VTL 30FG 10	00 VTL 35FG 10	00 VTL 35FG 10
Sealing kit	art.	00 KIT VTL 25FG	00 KIT VTL 25FG	00 KIT VTL 30FG	00 KIT VTL 30FG	00 KIT VTL 35FG	00 KIT VTL 35FG
Check valve	art.	10 04 10	10 04 10	10 04 10	10 04 10	10 04 10	10 04 10
Suction filtre	art.	FB 25/FC 25	FB 25/FC 25	FB 25/FC 25	FB 25/FC 25	FB 25/FC 25	FB 25/FC 25
Oil level switch	art.	00 LP VTL 99	00 LP VTL 99	00 LP VTL 99	00 LP VTL 99	00 LP VTL 99	00 LP VTL 99
Oil filtre	art.	00 LP VTL 40	00 LP VTL 40	00 LP VTL 40	00 LP VTL 40	00 LP VTL 40	00 LP VTL 40
Adjustable drip oiler	art.	00 VTL 00 11	00 VTL 00 11	00 VTL 00 11	00 VTL 00 11	00 VTL 00 11	00 VTL 00 11

VACUUM PUMPS VTL 40/G1 ÷ 105/G1



These vacuum pumps have a suction capacity of 40, 50, 65, 75, 90 and 105 cum/h.
The vacuum lubrication with oil recirculation is adjusted via two oilers located in correspondence of the support bearings.

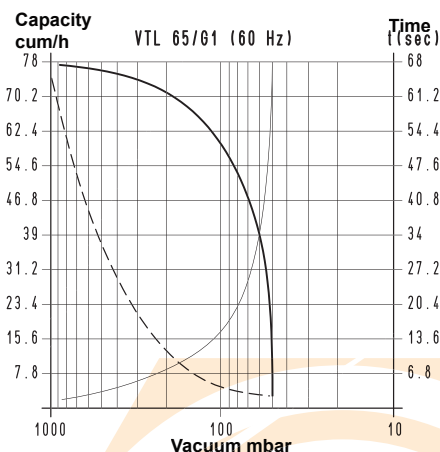
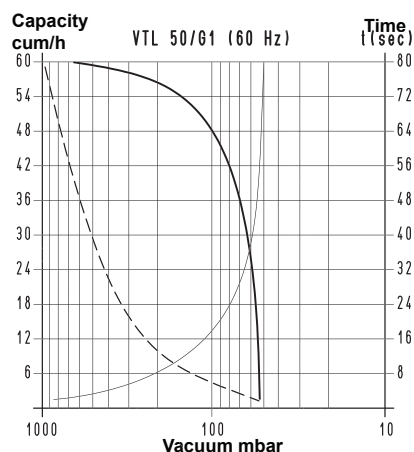
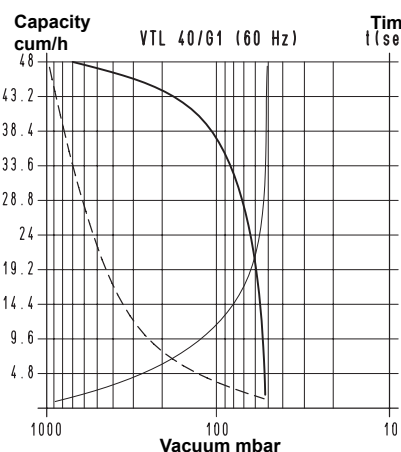
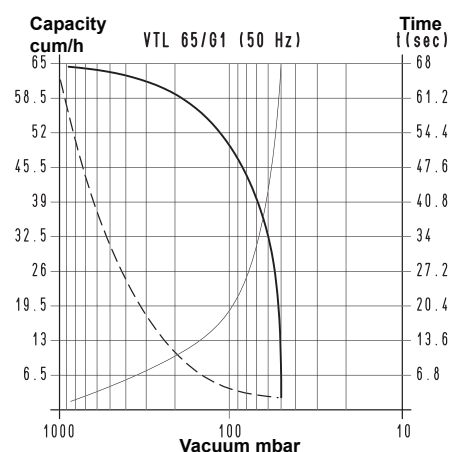
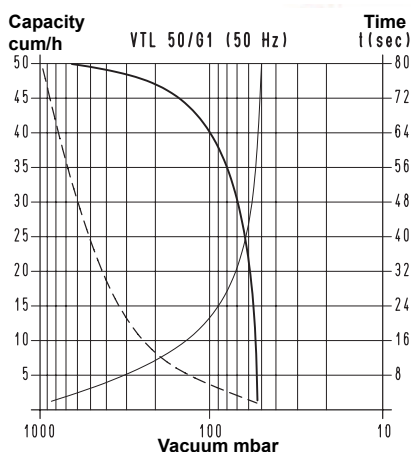
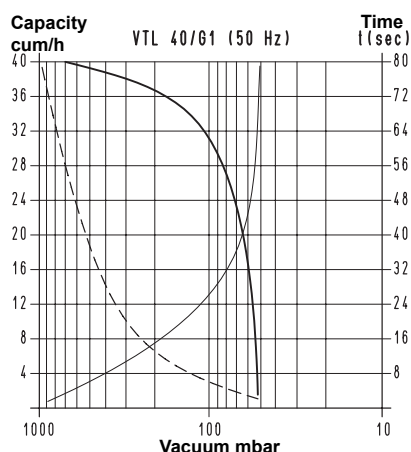
The rotor is fitted on the motor shaft and supported by independent bearings housed in the two pump flanges. The pump and the electric motor are, therefore, two independent units and fixed onto a special support and connected to each other via an elastic transmission joint.

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 filtre that prevents oil mists and reduces noise.

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

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

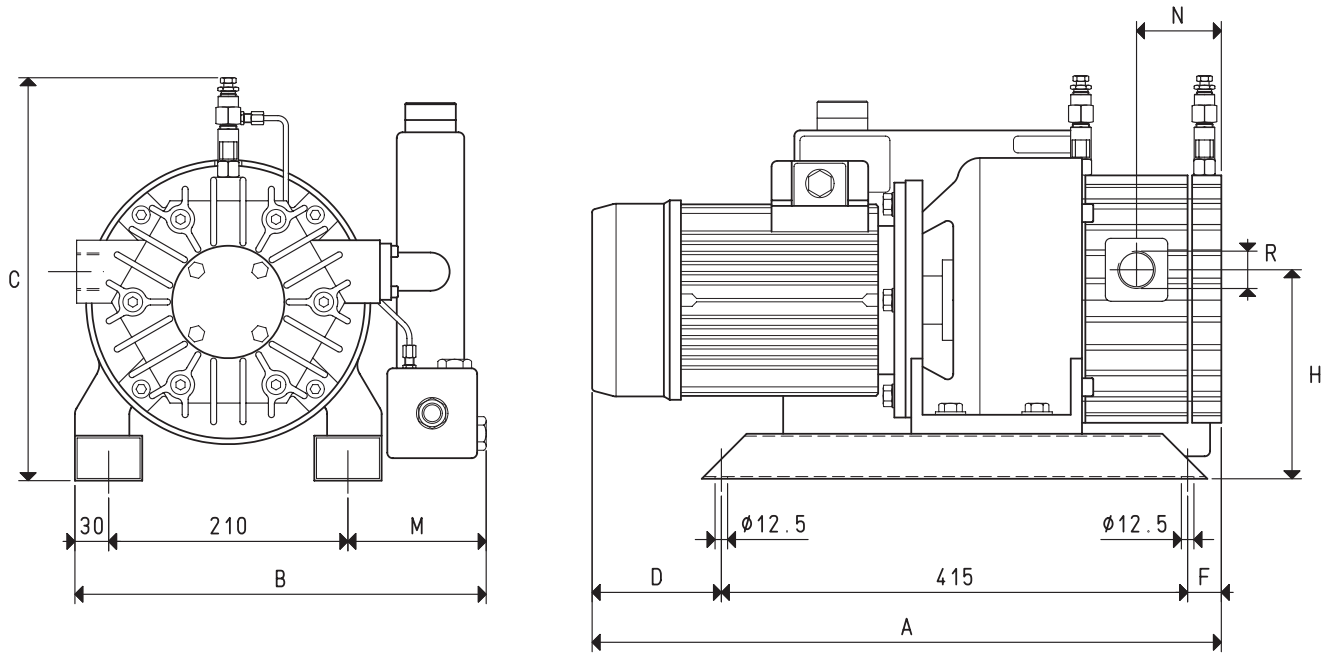


To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{100}$

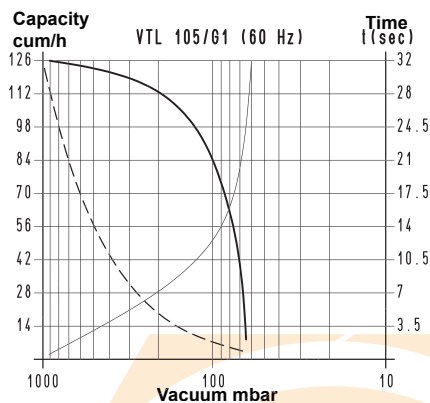
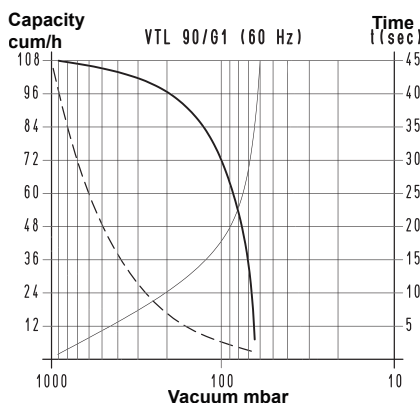
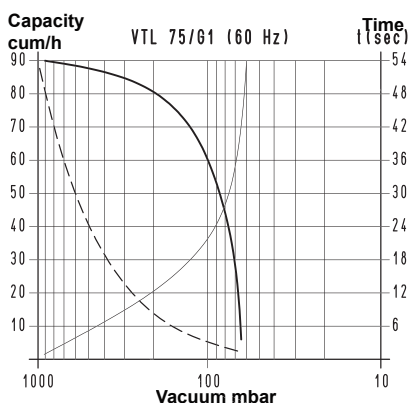
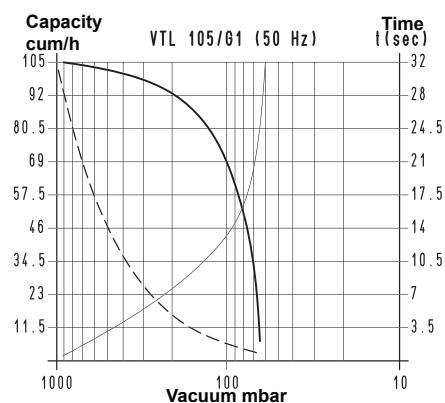
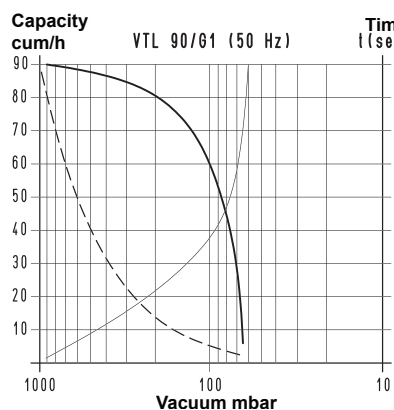
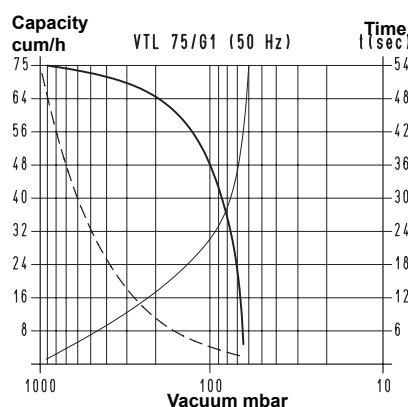
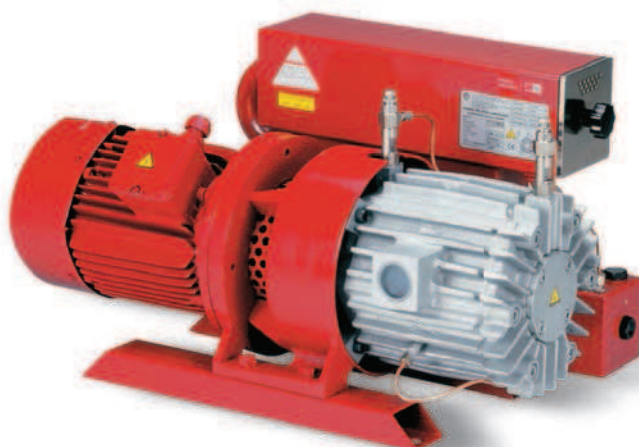
- Curve regarding capacity (referring to the suction pressure)
- - - Curve regarding capacity (referring to a 1013 bar pressure)
- Curve regarding the emptying of a 100-litre volume

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

VACUUM PUMPS VTL 40/G1, 50/G1 and 65/G1



Art.		VTL 40/G1		VTL 50/G1		VTL 65/G1	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity	m³/h	40.0	48.0	50.0	60.0	65.0	78.0
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							
Motor power	3~	1.10	1.35	1.50	1.80	1.50	1.80
Kw							
Motor protection	IP	54		54		54	
Rotation speed	rev/min ⁻¹	1450	1740	1450	1740	1450	1740
Motor shape		B5		B5		B5	
Motor size		90		90		90	
Noise level	dB(A)	68	70	68	70	70	72
Max. weight	3~	51.0		54.0		71.0	
Kg							
A		520		560		580	
B		365		365		365	
C		350		350		350	
D		60		115		120	
F		45		30		45	
H		186		186		186	
M		125		125		125	
N		70		80		80	
R	Ø gas	G1"		G1"		G1"	
Accessories and spare parts							
Oil load	l	0.85		1.00		1.00	
Synthetic oil	VT OIL	ISO 100		ISO 100		ISO 100	
6 vanes	art.	00 VTL 40G1 10		00 VTL 50G1 10		00 VTL 65G1 10	
Sealing kit	art.	00 KIT VTL 40G1		00 KIT VTL 50G1		00 KIT VTL 65 G1	
Check valve	art.	10 05 10		10 05 10		10 05 10	
Suction filtre	art.	FB 30/FC 30		FB 30/FC 30		FB 30/FC 30	
Adjustable drip oiler	art.	00 VTL 00 11		00 VTL 00 11		00 VTL 00 11	

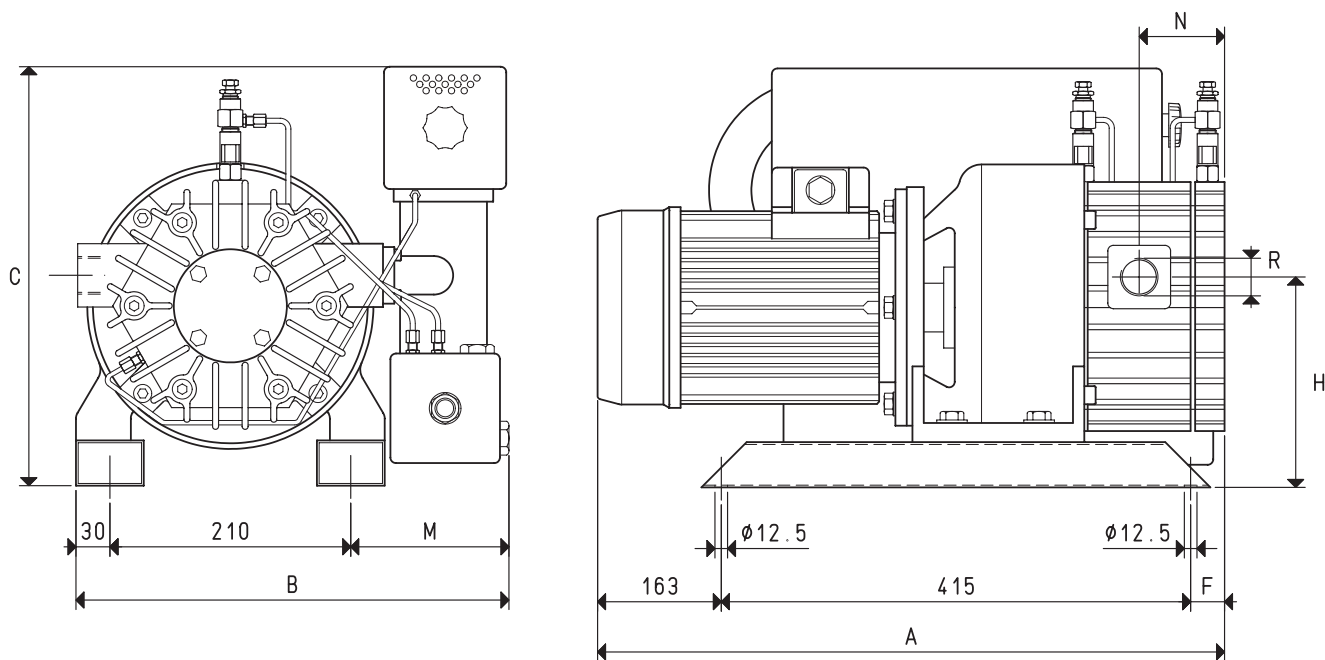


To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{100}$

- 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

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

VACUUM PUMPS VTL 75/G1, 90/G1 and 105/G1



Art.		VTL 75/G1		VTL 90/G1		VTL 105/G1	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity	m³/h	75.0	90.0	90.0	108.0	105.0	126.0
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							
Motor power	3~	2.20	2.70	3.00	3.60	3.00	3.60
Kw							
Motor protection	IP	54		54		54	
Rotation speed	rev/min ⁻¹	1450	1740	1450	1740	1450	1740
Motor shape		B5		B5		B5	
Motor size		100		100		100	
Noise level	dB(A)	70	72	71	73	72	74
Max. weight	3~	76.5		84.0		97.6	
Kg							
A		640		660		690	
B		385		400		400	
C		400		400		445	
F		62		82		112	
H		186		186		186	
M		145		150		160	
N		80		92		122	
R	Ø gas	G1"1/4		G1"1/4		G1"1/2	
Accessories and spare parts							
Oil load	l	2.0		2.6		2.6	
Synthetic oil	VT OIL	ISO 100		ISO 100		ISO 100	
Deoiling cartridge	art.	00 VTL 75G1 29		00 VTL 90G1 29		00 VTL 105G1 29	
6 vanes	art.	00 VTL 75G1 10		00 VTL 90G1 10		00 VTL 105G1 10	
Sealing kit	art.	00 KIT VTL 75G1		00 KIT VTL 90G1		00 KIT VTL 105G1	
Check valve	art.	10 06 10		10 06 10		10 07 10	
Suction filtre	art.	FB 40/FC 40		FB 40/FC 40		FB 50/FC 50	
Adjustable drip oiler	art.	00 VTL 00 11		00 VTL 00 11		00 VTL 00 11	

VACUUM PUMPS VTLP 40/G1 ÷ 105/G1, WITH DISPOSABLE LUBRICATION



These vane vacuum pumps have a suction capacity of 40, 50, 65, 75, 90 and 105 cum/h.
The vacuum lubrication with oil recirculation is adjusted via two oilers located in correspondence of the support bearings.

The rotor is 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.

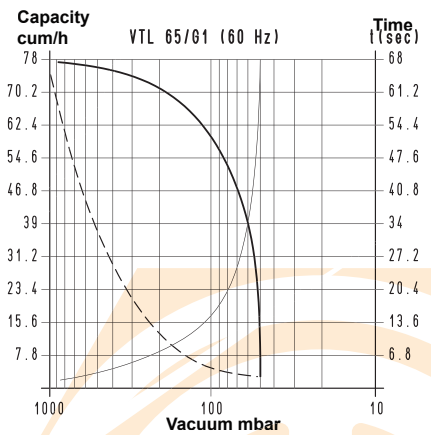
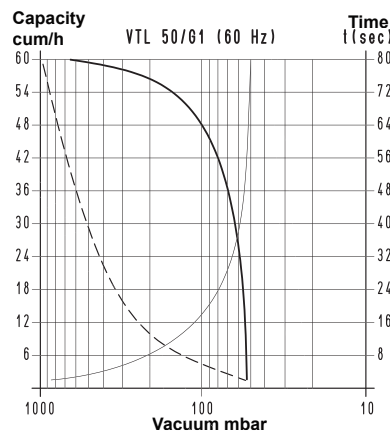
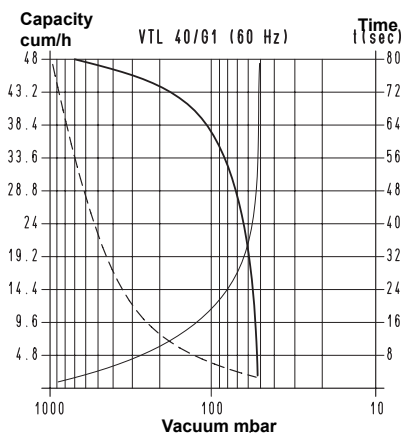
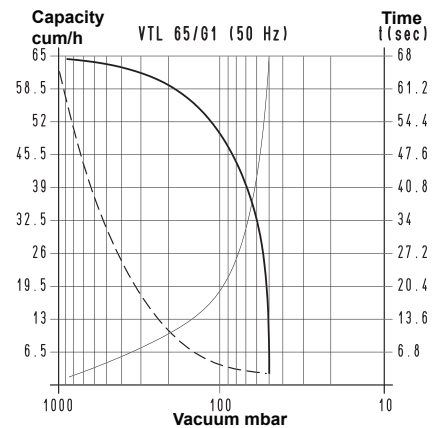
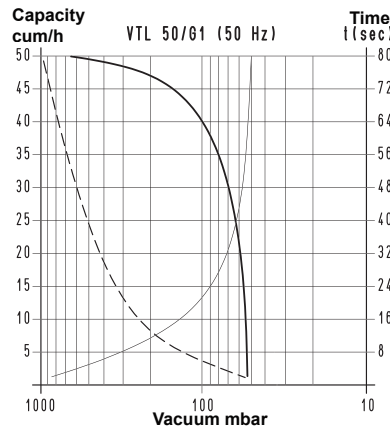
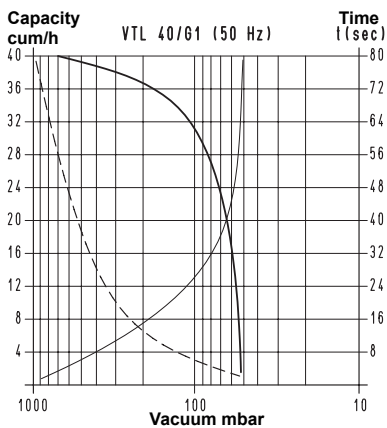
An oil recovery tank is installed on the pump exhaust. This tank contains a separator filter that prevents oil mists and reduces noise.

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 oiler 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 effect oil properties.

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

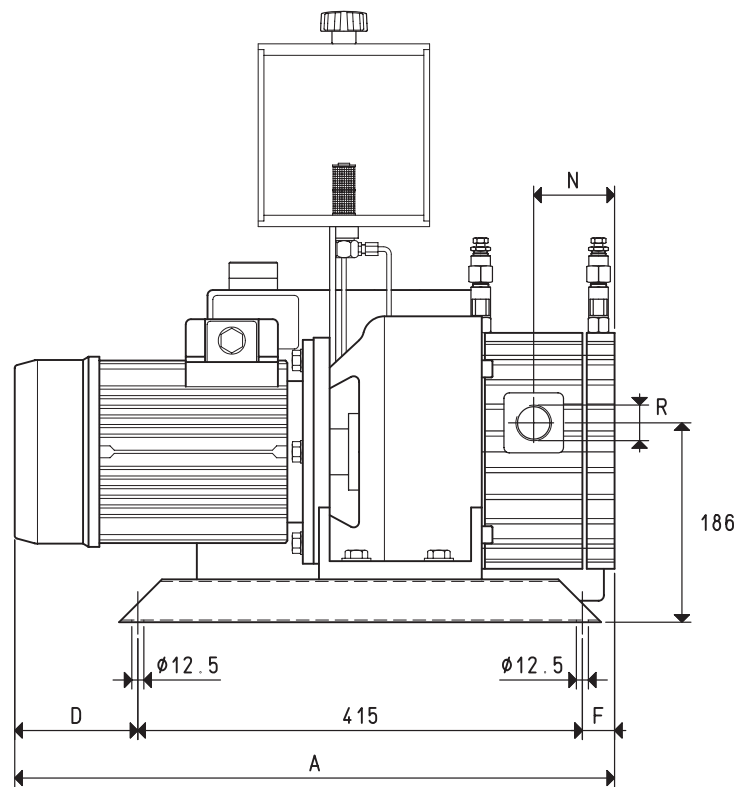
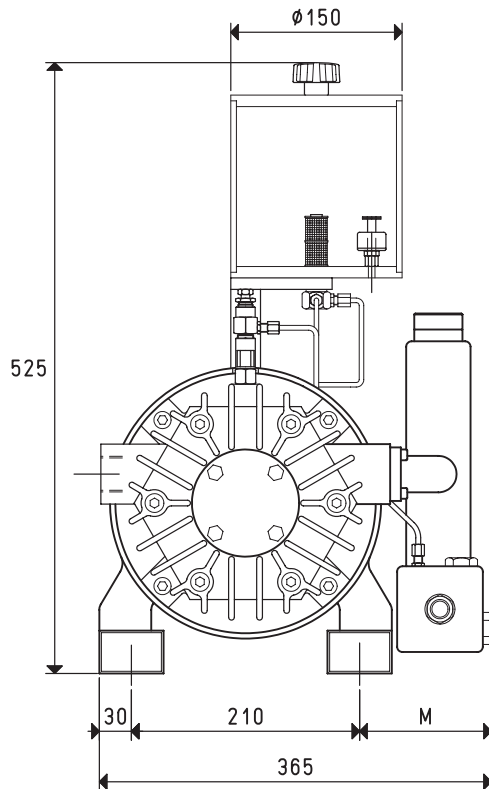


To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{100}$

- 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

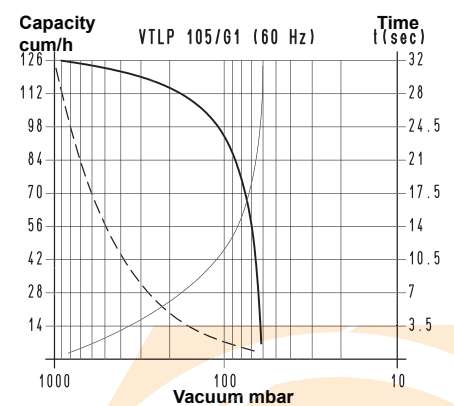
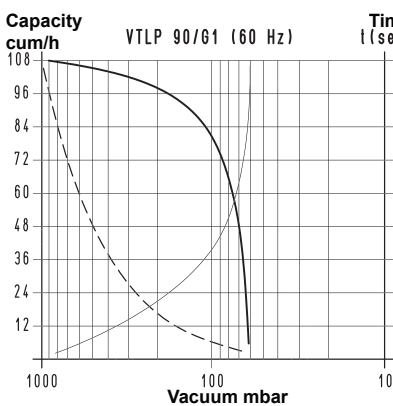
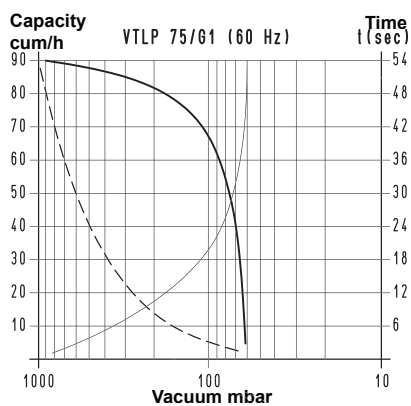
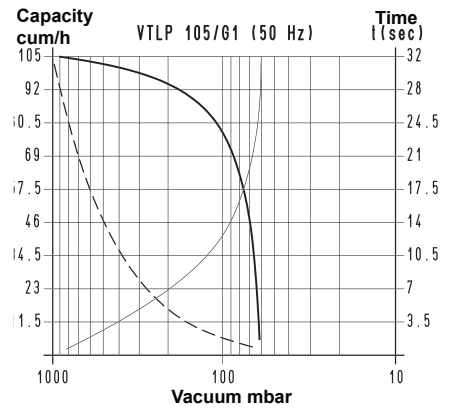
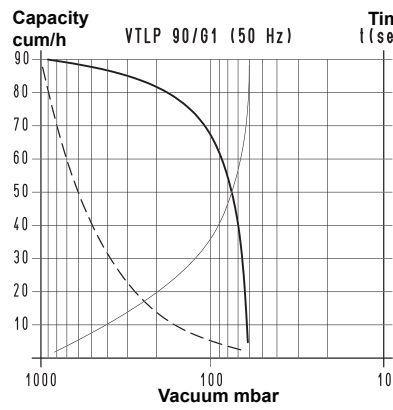
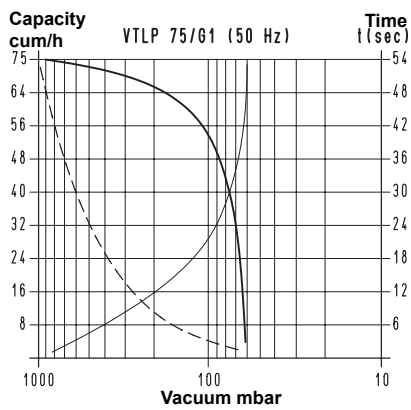
V_1 : Volume to be emptied
 t_1 : Time to be calculated (sec)
 t : Time obtained in the table (sec)

VACUUM PUMPS VTLP 40/G1, 50/G1 and 65/G1



Art.		VTLP 40/G1		VTLP 50/G1		VTLP 65/G1	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity	m ³ /h	40.0	48.0	50.0	60.0	65.0	78.0
Final pressure	mbar abs.	50	50	50	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							
Motor power	3~	1.10	1.35	1.50	1.80	1.50	1.80
Kw							
Motor protection	IP	54	54	54	54	54	54
Rotation speed	rev/min ⁻¹	1450	1740	1450	1740	1450	1740
Motor shape		B5	B5	B5	B5	B5	B5
Motor size		90	90	90	90	90	90
Noise level	dB(A)	68	70	68	70	70	72
Max. weight	3~	52.5	52.5	55.1	55.1	72.1	72.1
Kg							
A		520	520	560	560	580	580
D		60	60	115	115	120	120
F		45	45	30	30	45	45
M		125	125	125	125	125	125
N		70	70	80	80	80	80
R	Ø gas	G1"	G1"	G1"	G1"	G1"	G1"
Accessories and spare parts							
Oil load	l	1.80	1.80	1.80	1.80	1.80	1.80
Synthetic oil	VT OIL	ISO 100	ISO 100	ISO 100	ISO 100	ISO 100	ISO 100
6 vanes	art.	00 VTL 40G1 10	00 VTL 40G1 10	00 VTL 50G1 10	00 VTL 50G1 10	00 VTL 65G1 10	00 VTL 65G1 10
Sealing kit	art.	00 KIT VTL 40G1	00 KIT VTL 40G1	00 KIT VTL 50G1	00 KIT VTL 50G1	00 KIT VTL 65G1	00 KIT VTL 65G1
Check valve	art.	10 05 10	10 05 10	10 05 10	10 05 10	10 05 10	10 05 10
Suction filtre	art.	FB 30/FC 30	FB 30/FC 30	FB 30/FC 30	FB 30/FC 30	FB 30/FC 30	FB 30/FC 30
Oil level switch	art.	00 LP VTL 99	00 LP VTL 99	00 LP VTL 99	00 LP VTL 99	00 LP VTL 99	00 LP VTL 99
Oil filtre	art.	00 LP VTL 40	00 LP VTL 40	00 LP VTL 40	00 LP VTL 40	00 LP VTL 40	00 LP VTL 40
Adjustable drip oiler	art.	00 VTL 00 11	00 VTL 00 11	00 VTL 00 11	00 VTL 00 11	00 VTL 00 11	00 VTL 00 11

VACUUM PUMPS VTLP 75/G1, 90/G1 and 105/G1

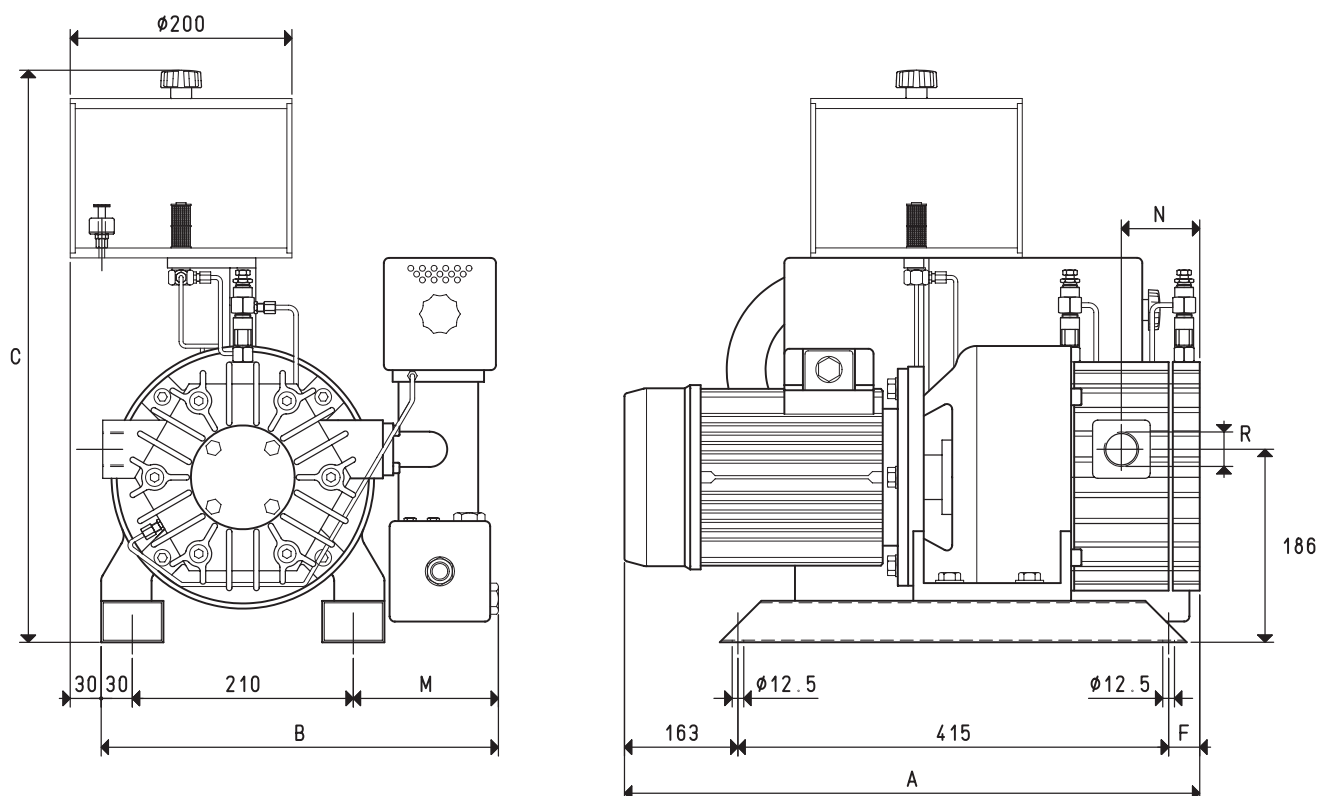


To calculate the emptying time of a volume V_1 , apply the formula $t_1 = \frac{t \times V_1}{100}$

- 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

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

VACUUM PUMPS VTLP 75/G1, 90/G1 e 105/G1



Art.		VTLP 75/G1		VTLP 90/G1		VTLP 105/G1	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity	m ³ /h	75.0	90.0	90.0	108.0	105.0	126.0
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							
Motor protection	IP	54		54		54	
Motor power	3~	2.20	2.70	3.00	3.60	3.00	3.60
Kw							
Rotation speed	rev/min ⁻¹	1450	1740	1450	1740	1450	1740
Motor shape		B5		B5		B5	
Motor size		100		100		100	
Noise level	dB(A)	70	72	71	73	72	74
Max. weight	3~	78.3		85.8		99.4	
Kg							
A		640		660		690	
B		415		430		430	
C		575		575		620	
F		62		82		112	
M		145		150		160	
N		80		92		122	
R	Ø gas	G1 1/4"		G1 1/4"		G1 1/2"	
Accessories and spare parts							
Oil load	l	3.8		3.8		3.8	
Synthetic oil	VT OIL	ISO 100		ISO 100		ISO 100	
Deoiling cartridge	art.	00 VTL 75G1 29		00 VTL 90G1 29		00 VTL 105G1 29	
6 vanes	art.	00 VTL 75G1 10		00 VTL 90 G110		00 VTL 105 G110	
Sealing kit	art.	00 KIT VTL 75G1		00 KIT VTL 90G1		00 KIT VTL 105G1	
Check valve	art.	10 06 10		10 06 10		10 07 10	
Suction filtre	art.	FB 40/FC 40		FB 40/FC 40		FB 50/FC 50	
Oil level switch	art.	00 LP VTL 99		00 LP VTL 99		00 LP VTL 99	
Oil filtre	art.	00 LP VTL 40		00 LP VTL 40		00 LP VTL 40	
Adjustable drip oiler	art.	00 VTL 00 11		00 VTL 00 11		00 VTL 00 11	