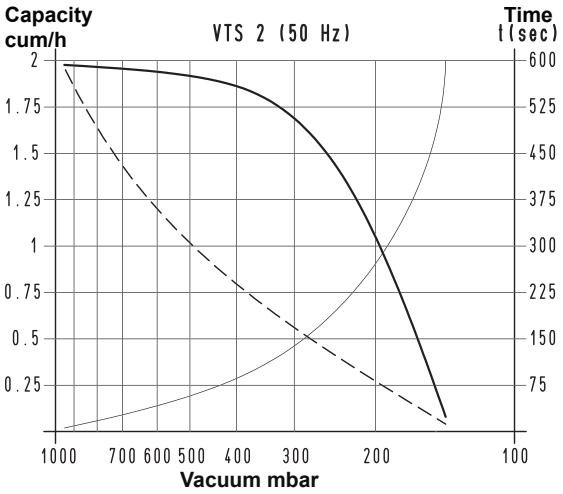
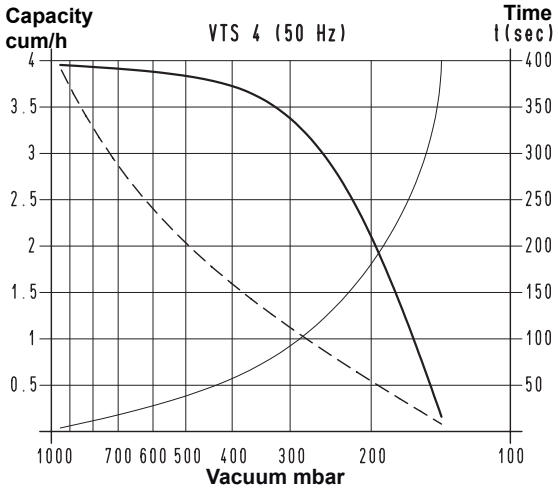
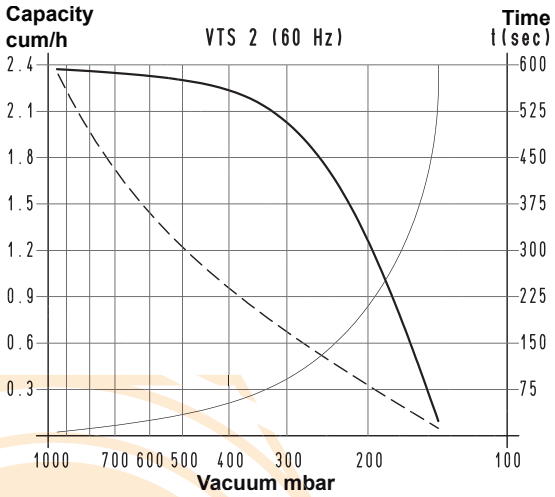
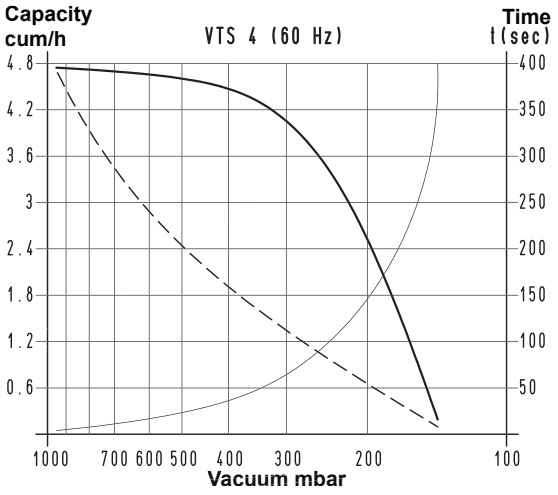
DRY VACUUM PUMPS VTS 2 AND 4

These small dry vacuum pumps have a suction capacity of 2 and 4 cum/h. The particular shape of the working chamber and the special graphite, with which the locking flanges and vanes are made, allow these pumps to operate with no lubrication.
The rotor is cantilevered-fitted on the motor shaft, thus reducing overall dimensions to the minimum. The motor and the pump are cooled by the motor fan (surface cooling).
A filtre that functions as a silencer is installed on the suction inlet.
We strongly recommend installing a filtre on the suction inlet against possible impurities. These pumps are ***not recommended*** *when the fluid to be sucked contains water or oil vapours or condensations.*
Vacuum pumps VTS 2 and 4 can also be supplied with single-phase electric motor.





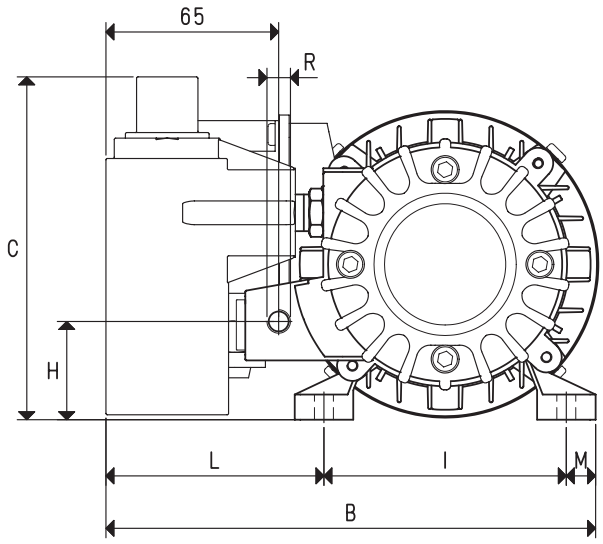


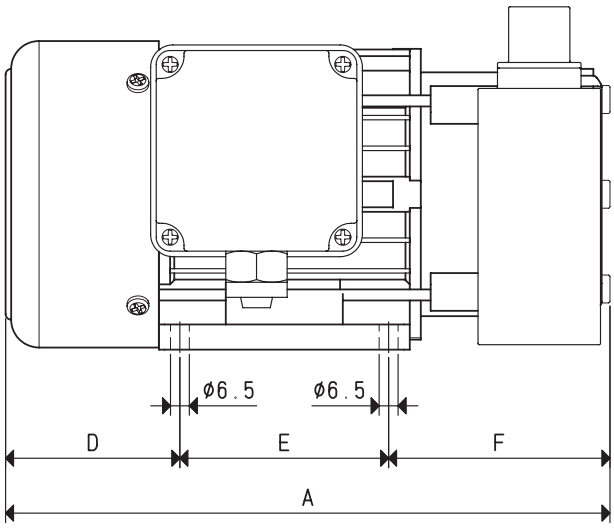


To calculate the emptying time of a volume V_1, apply the formula $t_1 = \frac{t \times V_1}{100}$

——— Curve regarding capacity (referring to the suction pressure)
– – – Curve regarding capacity (referring to a 1013 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)





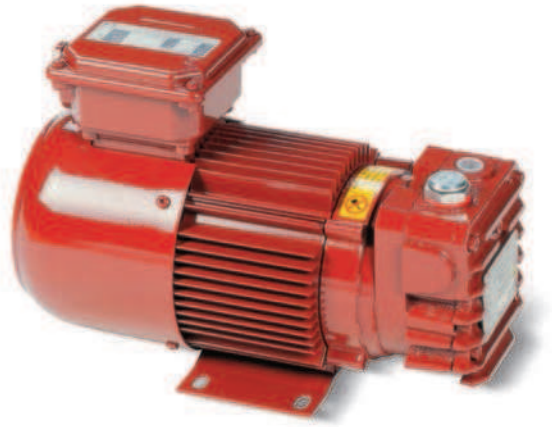
Art.		VTS 2		VTS 4	
Frequency		50Hz	60Hz	50Hz	60Hz
Capacity	m^3/h	2.0	2.4	4.0	4.8
Final pressure	mbar abs.	150		150	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%
Volt	1~	230±10%		230±10%	
Motor power	3~	0.13	0.15	0.15	0.18
Kw	1~	0.13	0.15	0.15	0.18
Motor protection	IP	54		54	
Rotation speed	rev/min^{-1}	2800	3300	2800	3300
Motor shape		Special		Special	
Motor size		56		63	
Noise level	dB(A)	64	66	64	66
Max. weight	3~	5.3		6.8	
Kg	1~	5.5		7.0	
A		217		251	
B		180		186	
C		121		131	
D		66		78	
E		71		81	
F		80		92	
H		35		45	
I		90		100	
L		79		73	
M		11		13	
R	Ø gas	G1/4"		G1/4"	
Accessories and spare parts					
4 graphite vanes	art.	00 VTS 02 10		00 VTS 04 10	
Perforated graphite disc	art.	00 VTS 02 12		00 VTS 02 12	
Non-perforated graphite disc	art.	00 VTS 02 16		00 VTS 02 16	
Sealing kit	art.	00 KIT VTS 02		00 KIT VTS 04	
Check valve	art.	10 01 15		10 01 15	
Suction filtre	art.	FB 5		FB 5	

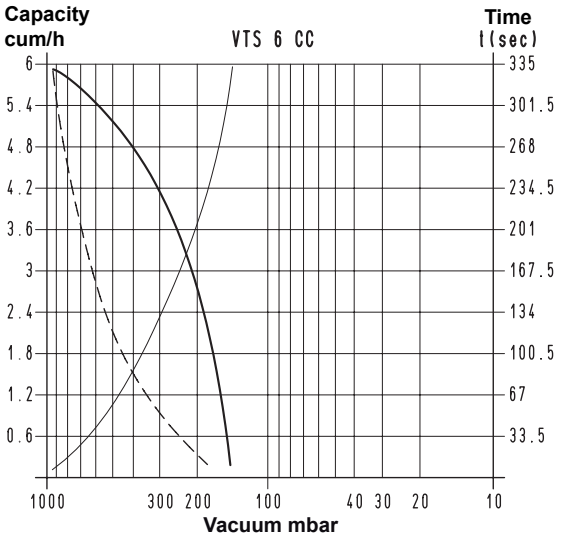
Note: The pump will be supplied with single-phase electric motor by adding the letter M to the article (E.g.: VTS 2 M).

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

DRY VACUUM PUMPS VTS 6 DC WITH DC MOTOR

The extremely reduced size, the excellent final vacuum level that can be reached, the total absence of lubrication and the DC motor with which it is equipped, are the main features of this rotating vane vacuum pump.
This pump has a monobloc structure with the rotor fitted directly on the motor shaft. Both the motor and the pump are cooled by the motor fan (surface cooling).
A filtre that functions as a silencer is installed on the suction inlet.
We strongly recommend installing a filtre on the suction inlet against possible impurities. These pumps are ***not recommended*** *when the fluid to be sucked contains water or oil vapours or condensations.*
Pumps VTS 6 DC can only be supplied with DC motor (service S1) conform with the EMC (89/336/EEC) Directive.

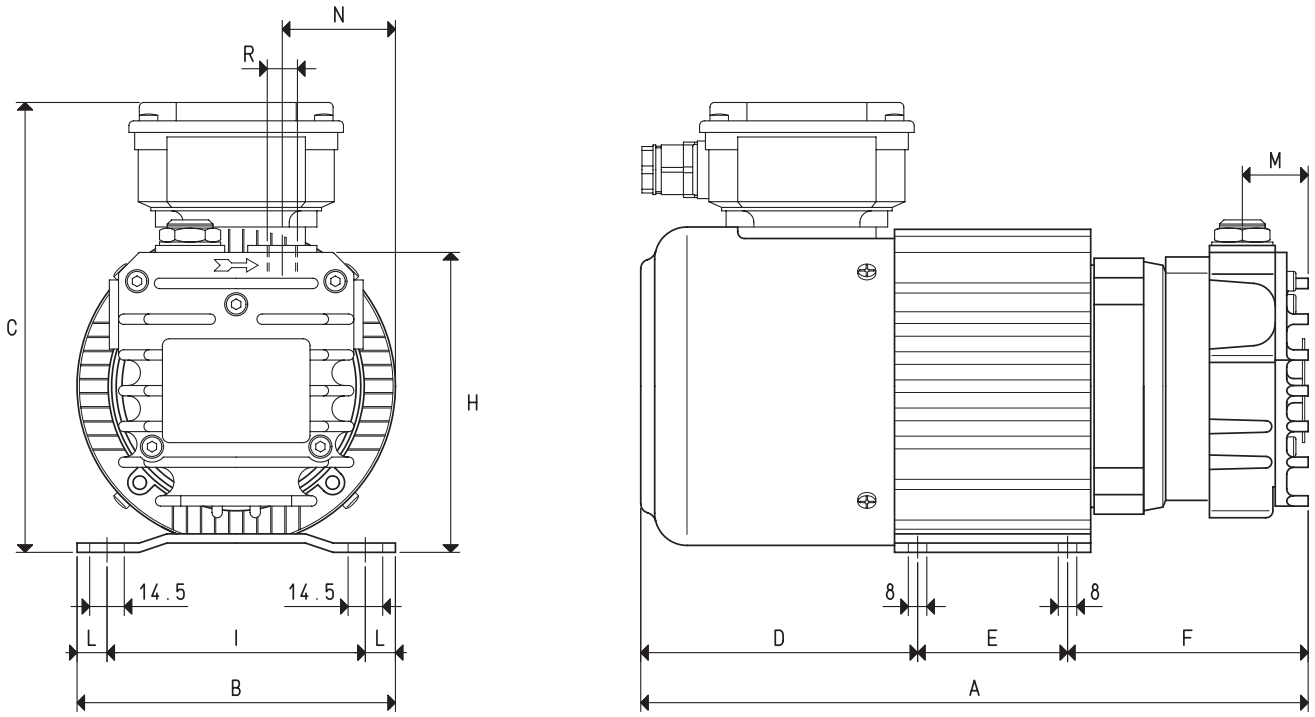




To calculate the emptying time of a volume V_1, apply the formula $t_1 = \frac{t \times V_1}{100}$

——— 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)

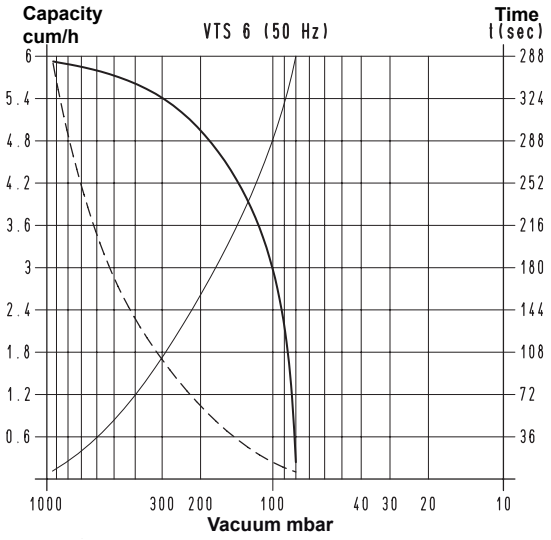


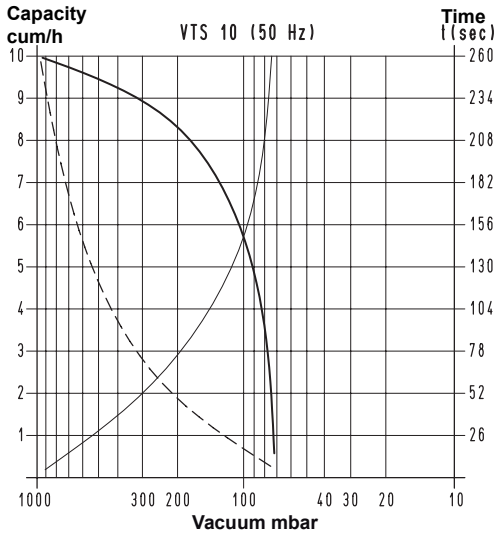
Art.		VTS 6 CC
Capacity	m^3/h	6.0
Final pressure	mbar abs.	150
Motor execution	Volt	24 CC
Motor power	Kw	0.28
Max. absorption at 24V/CC	A	15
Motor protection	IP	54
Rotation speed	rev/min^{-1}	3000
Motor shape		Special
Motor size		71
Noise level	dB(A)	72
Max. weight	Kg	9.5
A		290
B		136
C		193
D		124
E		65
F		101
H		131
I		112
L		12
M		28
N		48
R	Ø gas	G1/4"
Accessories and spare parts		
4 vanes	art.	00 VTS 06 CC 10
Sealing kit	art.	00 KIT VTS 06 CC
Check valve	art.	10 01 15
Suction filtre	art.	FB 5

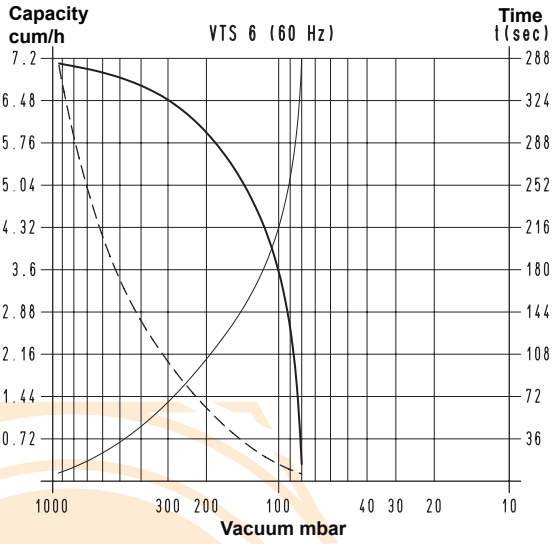
Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$ cfm= cum/h x 0.588; inch Hg= mbar x 0.0295; psi= bar (g) x 14.6

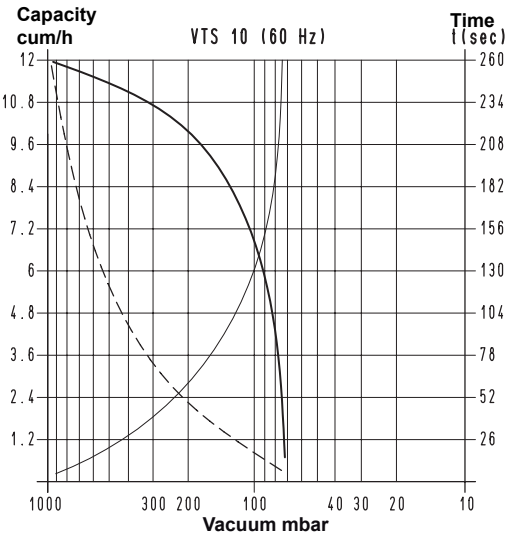
DRY VACUUM PUMPS VTS 6 and 10

These dry vacuum pumps have a suction capacity of 6 and 10 cum/h. The particular shape of the working chamber and the special graphite, with which the locking flanges and vanes are made, allow these pumps to operate without any lubrication.
The rotor is cantilevered-fitted on the motor shaft, thus reducing overall dimensions to the minimum. The motor and the pump are cooled by the motor fan (surface cooling).
A filtre that functions as a silencer is installed on the suction inlet..
We strongly recommend installing a filtre on the suction inlet against possible impurities. These pumps are ***not recommended*** *when the fluid to be sucked contains water or oil vapours or condensations.*
Pumps VTS 6 and 10 can also be supplied with single-phase electric motor.





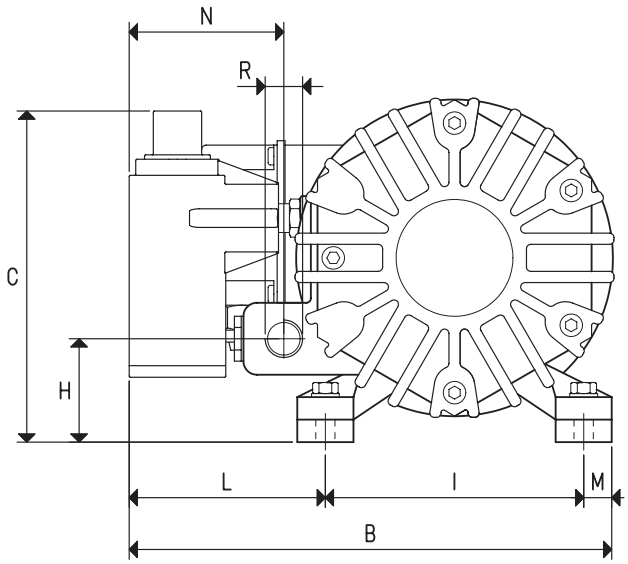


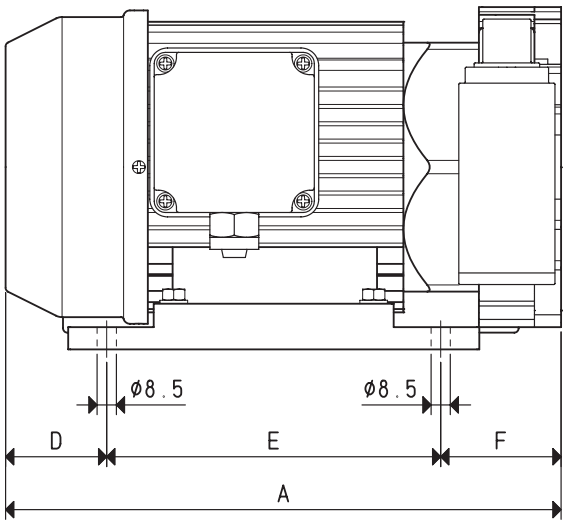


To calculate the emptying time of a volume V_1, apply the formula $t_1 = \frac{t \times V_1}{100}$

—— Curve regarding capacity (referring to the suction pressure)
– – – Curve regarding capacity (referring to a 1013 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)





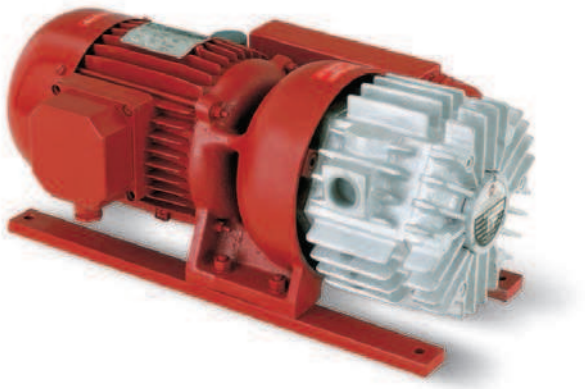
Art.		VTS 6		VTS 10	
Frequency		50Hz	60Hz	50Hz	60Hz
Capacity	m^3/h	6.0	7.2	10.0	12.0
Final pressure	mbar abs.	80		80	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%
Volt	1~	230±10%		230±10%	
Motor power	3~	0.25	0.30	0.35	0.40
Kw	1~	0.18	0.21	0.25	0.30
Motor protection	IP	54		54	
Rotation speed	rev/min^{-1}	1450	1740	1450	1740
Motor shape		Special		Special	
Motor size		71		71	
Noise level	dB(A)	64	66	64	66
Max. weight	3~	11.8		15.0	
Kg	1~	12.0		15.2	
A		268		298	
B		210		180	
C		156		156	
D		55		55	
E		155		155	
F		58		88	
H		43		53	
I		115		115	
L		82.5		52.5	
M		12.5		12.5	
N		68		13	
R	Ø gas	G1/4"		G3/8"	
Accessories and spare parts					
6 graphite vanes	art.	00 VTS 06 10		00 VTS 10 10	
Front graphite disc	art.	00 VTS 06 08		00 VTS 10 12	
Rear graphite disc	art.	00 VTS 06 13		00 VTS 10 19	
Sealing kit	art.	00 KIT VTS 06		00 KIT VTS 10	
Check valve	art.	10 01 15		10 02 10	
Suction filtre	art.	FB 5		FB 10/FC 10	

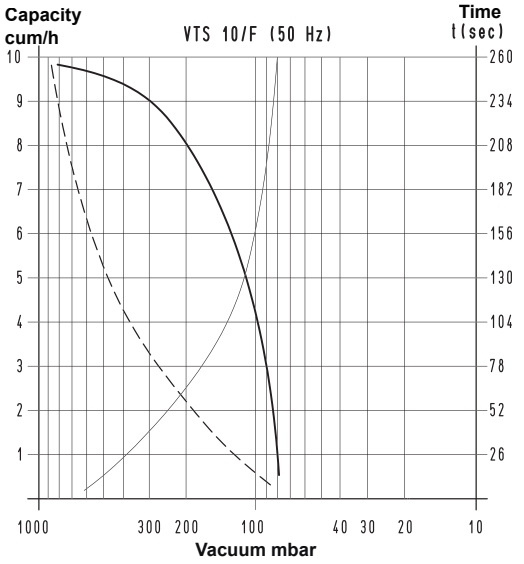
Note: The pump will be supplied with single-phase electric motor by adding the letter M to the article (E.g.: VTS 6 M).

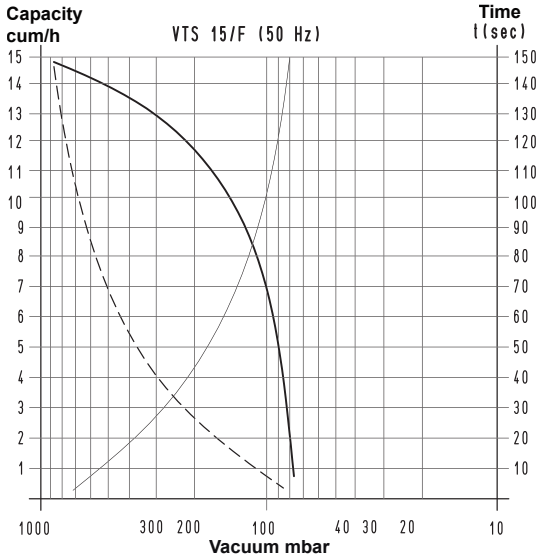
Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$ cfm= cum/h x 0.588; inch Hg= mbar x 0.0295; psi= bar (g) x 14.6

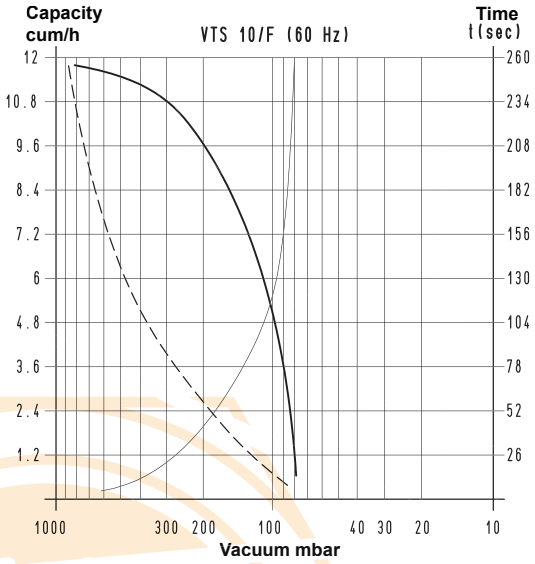
DRY VACUUM PUMPS VTS 10/F, 15/F, 20/F and 25/F

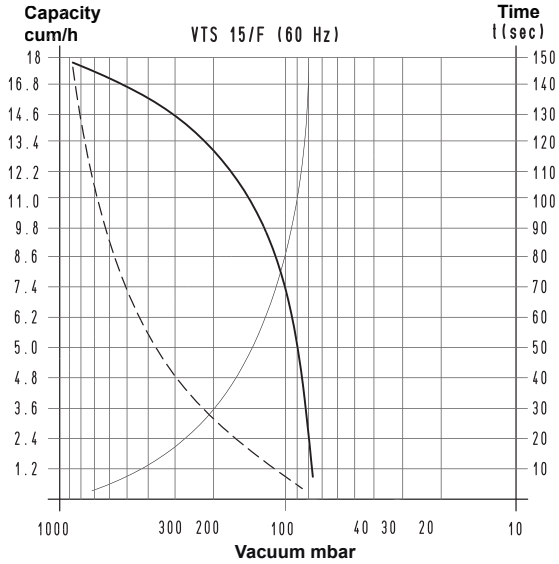
These lubrication-free rotating vane vacuum pumps have a suction capacity of 10, 15, 20 and 25 cum/h. The particular shape of the working chamber and the special graphite, with which the locking flanges and vanes are made, allow these pumps to operate with no lubrication.
The pump rotor is fitted on the motor shaft and supported by independent bearings located on both the pump locking flanges.
The pump is surface-cooled; the heat is dispersed from the especially finned external surface by a radial fan located between the motor and the pump.
A filtre that functions as a silencer is installed on the suction inlet..
We strongly recommend installing a filtre on the suction inlet against possible impurities. These pumps are ***not recommended*** *when the fluid to be sucked contains water or oil vapours or condensations.*
This range of pumps can be also supplied with single-phase electric motors.







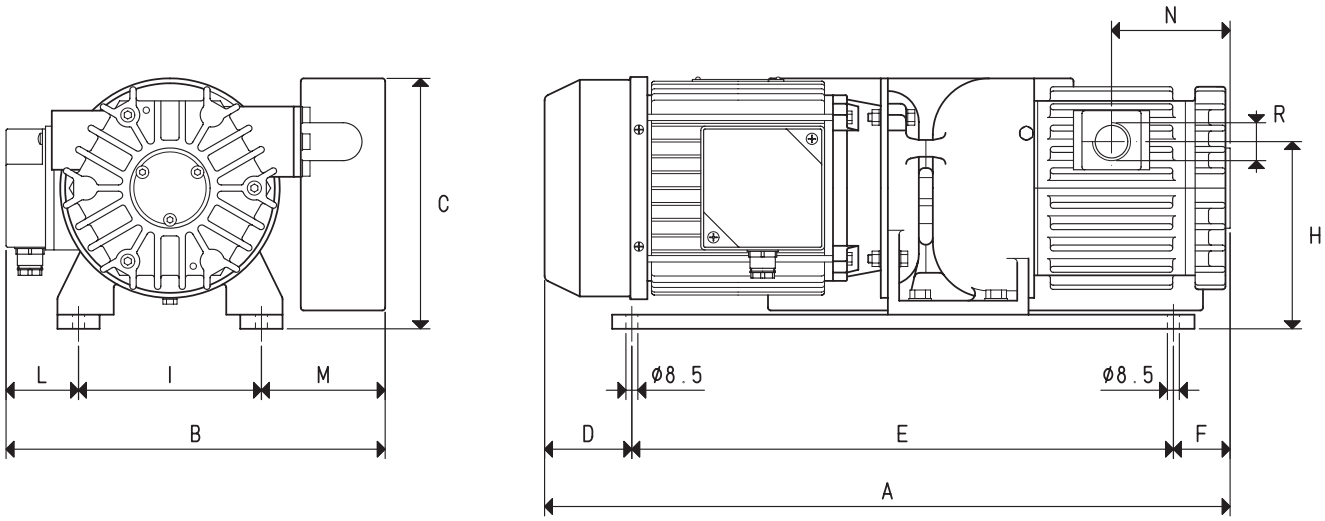




To calculate the emptying time of a volume V_1, apply the formula $t_1 = \frac{t \times V_1}{100}$

——— 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

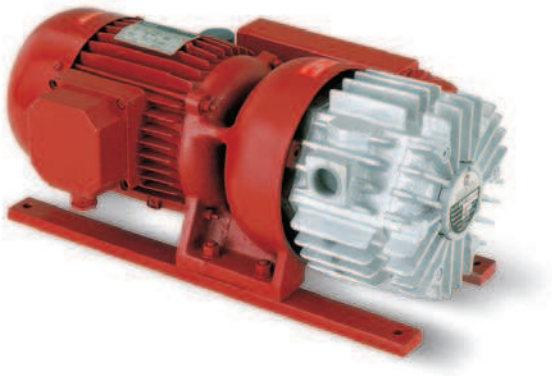
V_1 : Volume to be emptied
t_1 : Time to be calculated (sec)
t : Time obtained in the table (sec)

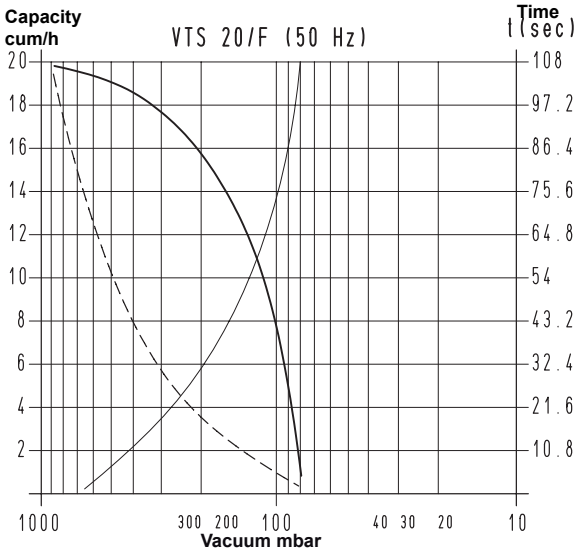


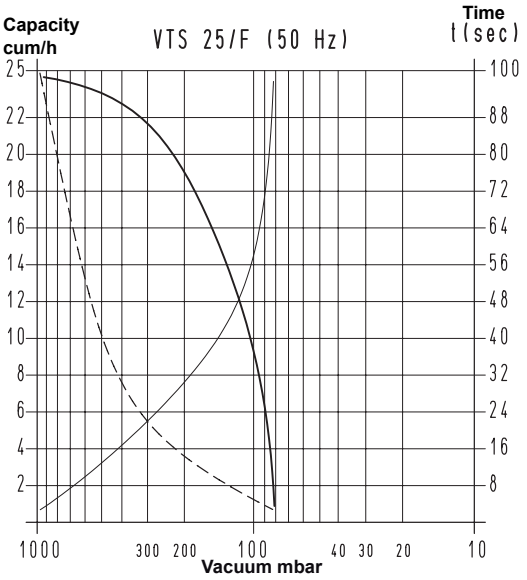
Art.		VTS 10/F		VTS 15/F	
Frequency		50Hz	60Hz	50Hz	60Hz
Capacity	m^3/h	10.0	12.0	15.0	18.0
Final pressure	mbar abs.	80		80	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%
Volt	1~	230±10%		230±10%	
Motor power	3~	0.55	0.66	0.55	0.66
Kw	1~	0.55	0.66	0.55	0.66
Motor protection	IP	54		54	
Rotation speed	rev/min^{-1}	1450	1740	1450	1740
Motor shape		Special		Special	
Motor size		80		80	
Noise level	dB(A)	64	66	65	67
Max. weight	3~	22.1		24.1	
Kg	1~	22.5		24.5	
A		388		408	
B		260		260	
C		187		187	
D		24		24	
E		340		340	
F		24		44	
H		133		133	
I		130		130	
L		55		55	
M		75		75	
N		53		63	
R	Ø gas	G1/2"		G1/2"	
Accessories and spare parts					
6 graphite vanes	art.	00 VTS 10F 10		00 VTS 15F 10	
Front graphite disc	art.	00 VTS 10F 21		00 VTS 10F 21	
Rear graphite disc	art.	00 VTS 10F 21		00 VTS 10F 21	
Sealing kit	art.	00 KIT VTS 10F		00 KIT VTS 15F	
Check valve	art.	10 03 10		10 03 10	
Suction filtre	art.	FB 20/FC 20		FB 20/FC 20	

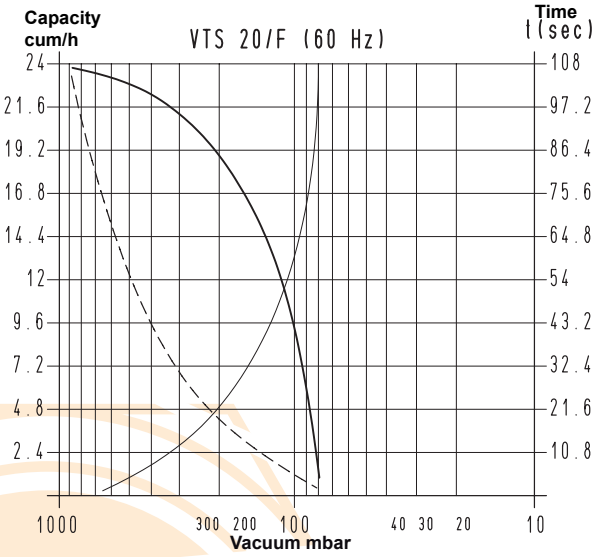
Note: The pump will be supplied with single-phase electric motor by adding the letter M to the article (E.g.: VTS 10/F M).

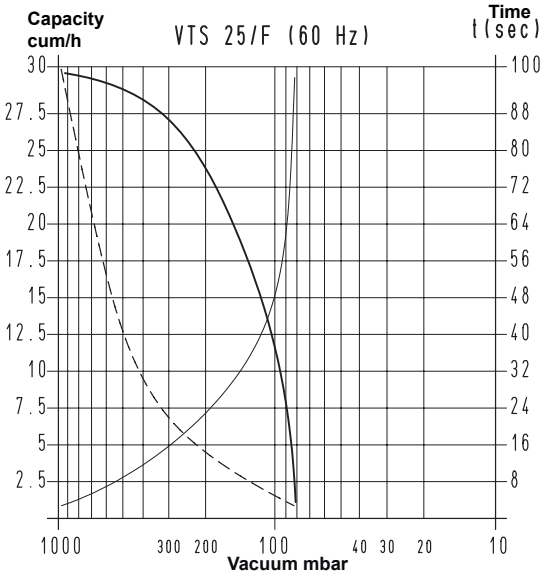
Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$ cfm= cum/h x 0.588; inch Hg= mbar x 0.0295; psi= bar (g) x 14.6







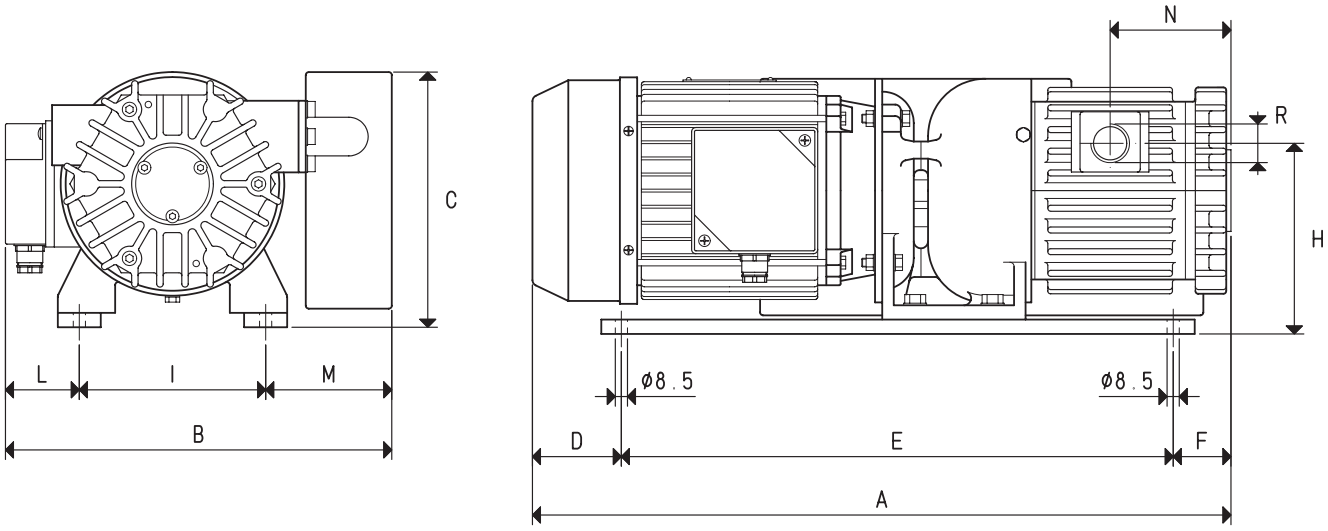




To calculate the emptying time of a volume V_1, apply the formula $t_1 = \frac{t \times V_1}{100}$

—— 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)



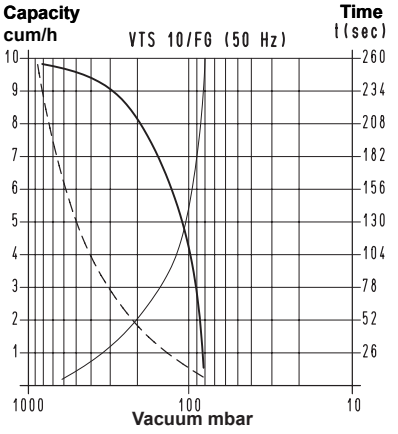
Art.		VTS 20/F		VTS 25/F	
Frequency		50Hz	60Hz	50Hz	60Hz
Capacity	m^3/h	20.0	24.0	25.0	30.0
Final pressure	mbar abs.	80		80	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%
Volt	1~	230±10%		230±10%	
Motor power	3~	0.88	1.05	0.88	1.05
Kw	1~	0.88	1.05	0.88	1.05
Motor protection	IP	54		54	
Rotation speed	rev/min^{-1}	1450	1740	1450	1740
Motor shape		Special		Special	
Motor size		80		80	
Noise level	dB(A)	65	67	65	67
Max. weight	3~	27.4		28.1	
Kg	1~	27.9		28.6	
A		428		428	
B		260		260	
C		187		187	
D		24		24	
E		340		385	
F		64		19	
H		133		133	
I		130		130	
L		55		55	
M		75		75	
N		73		73	
R	Ø gas	G1/2"		G3/4"	
Accessories and spare parts					
6 graphite vanes	art.	00 VTS 20F 10		00 VTS 25F 10	
Front graphite disc	art.	00 VTS 10F 21		00 VTS 10F 21	
Rear graphite disc	art.	00 VTS 10F 21		00 VTS 10F 21	
Sealing kit	art.	00 KIT VTS 20F		00 KIT VTS 25F	
Check valve	art.	10 03 10		10 04 10	
Suction filtre	art.	FB 20/FC 20		FB 25/FC 25	

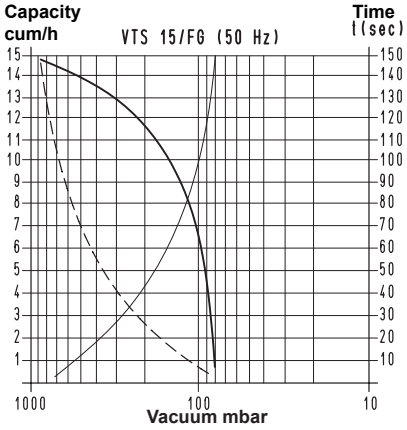
Note: The pump will be supplied with single-phase electric motor by adding the letter M to the article (E.g.: VTS 20/F M).

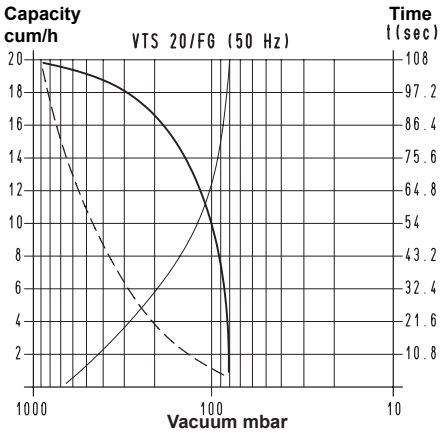
Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$ cfm= cum/h x 0.588; inch Hg= mbar x 0.0295; psi= bar (g) x 14.6

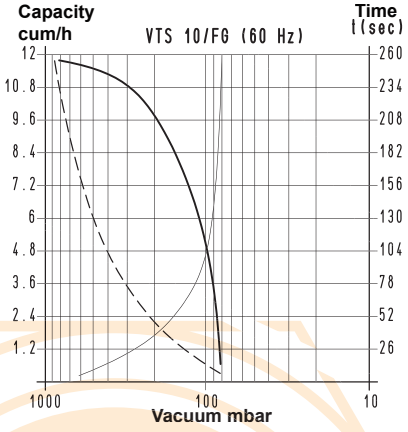
DRY VACUUM PUMPS VTS 10/FG ÷ 35/FG

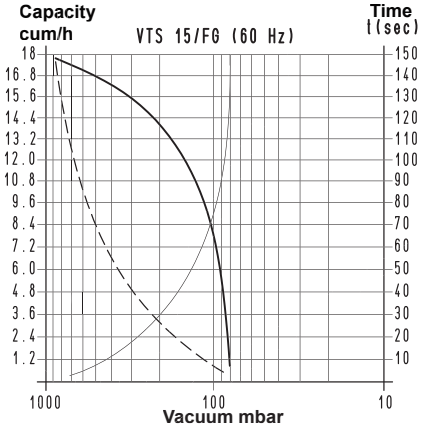
These lubrication-free rotating vane vacuum pumps have a suction capacity of 10, 15, 20, 25, 30 and 35 cum/h. The particular shape of the working chamber and the special graphite, with which the locking flanges and vanes are made, allow these pumps to operate with no lubrication.
The pump rotor is fitted on the motor shaft and supported by independent bearings located on both the pump locking flanges.
Therefore, the pump and the electric motor are two independent units connected to each other by 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; the heat is dispersed from the especially finned external surface by a radial fan located between the motor and the pump.
A filtre that functions as a silencer is installed on the suction inlet..
We strongly recommend installing a filtre on the suction inlet against possible impurities. These pumps are ***not recommended*** *when the fluid to be sucked contains water or oil vapours or condensations.*
The pumps with capacity up to 20 cum/h can also be supplied with single-phase electric motors.

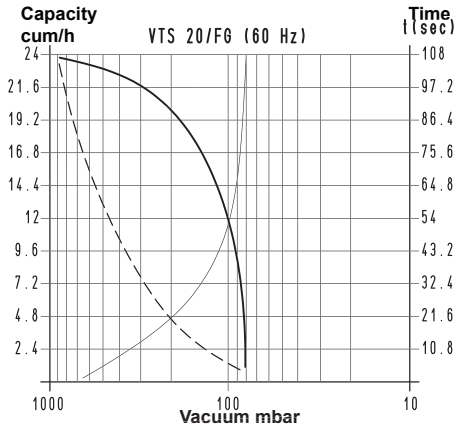








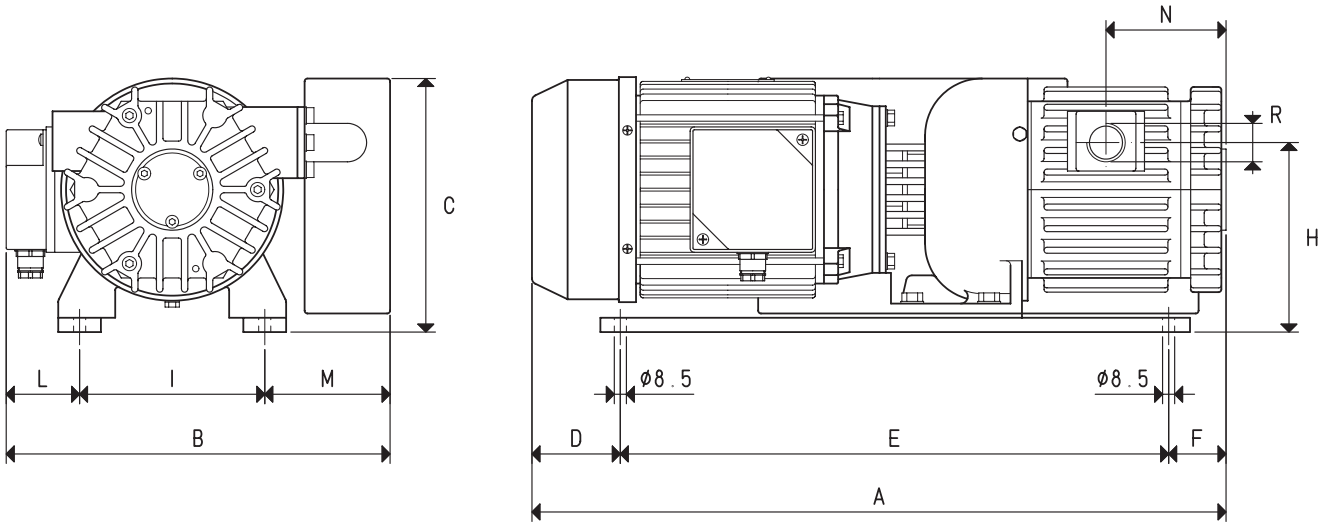




To calculate the emptying time of a volume V_1, apply the formula $t_1 = \frac{t \times V_1}{100}$

——— 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

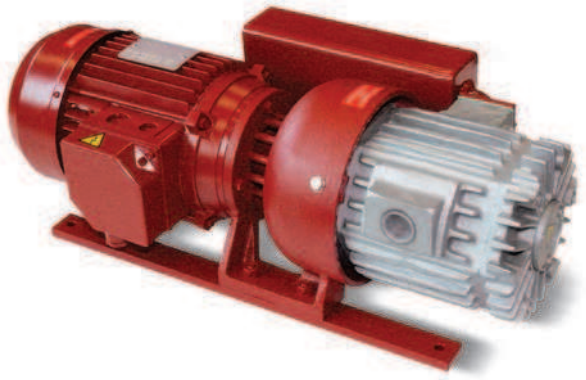
V_1 : Volume to be emptied
t_1 : Time to be calculated (sec)
t : Time obtained in the table (sec)

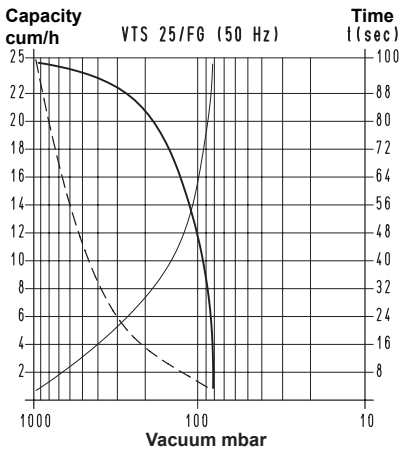


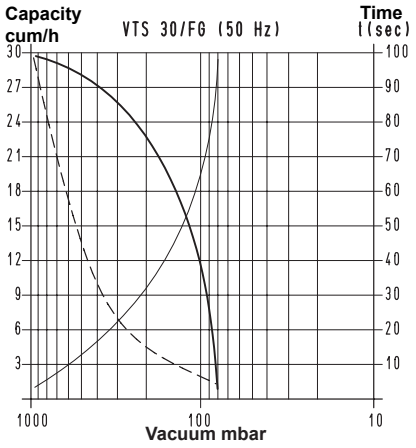
Art.		VTS 10/FG		VTS 15/FG		VTS 20/FG	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity	m^3/h	10.0	12.0	15.0	18.0	20.0	24.0
Final pressure	mbar abs.	80		80		80	
Motor execution	3~	230/400±10%	275/480±10%	230/400±10%	275/480±10%	230/400±10%	275/480 ±10%
Volt		230±10%		230±10%		230±10%	
Motor power	3~	0.55	0.66	0.55	0.66	0.88	1.05
Kw	1~	0.55	0.66	0.55	0.66	0.88	1.05
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~	22.0		24.0		27.3	
Kg	1~	22.4		24.4		27.8	
A		430		450		470	
B		265		265		265	
C		170		170		170	
D		65		65		65	
E		340		340		340	
F		25		45		65	
H		133		133		133	
I		130		130		130	
L		55		55		55	
M		80		80		80	
N		73		83		93	
R	Ø gas	G1/2"		G1/2"		G1/2"	
Accessories and spare parts							
6 graphite vanes	art.	00 VTS 10FG 10		00 VTS 15FG 10		00 VTS 20FG 10	
Front graphite disc	art.	00 VTS 10FG 17		00 VTS 15FG 17		00 VTS 20FG 17	
Rear graphite disc	art.	00 VTS 10FG 26		00 VTS 15FG 26		00 VTS 20FG 26	
Sealing kit	art.	00 KIT VTS 10FG		00 KIT VTS 15FG		00 KIT VTS 20FG	
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	

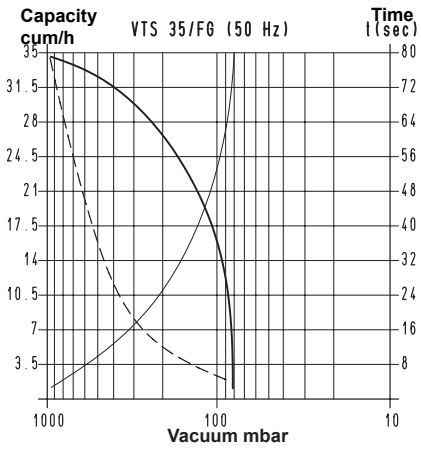
Note: The pump will be supplied with single-phase electric motor by adding the letter M to the article (E.g.: VTS 10/FG M).

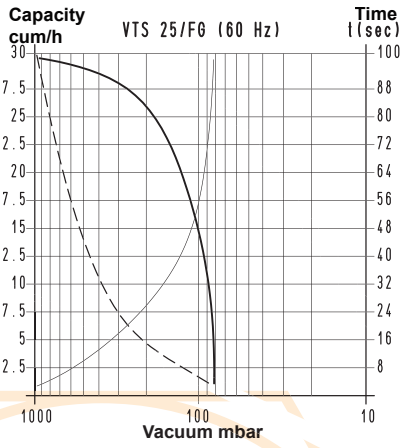
Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$ cfm= cum/h x 0.588; inch Hg= mbar x 0.0295; psi= bar (g) x 14.6

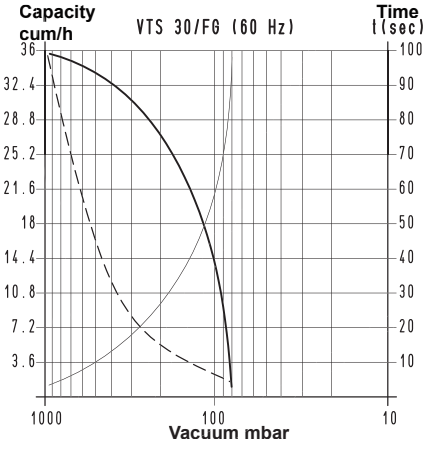


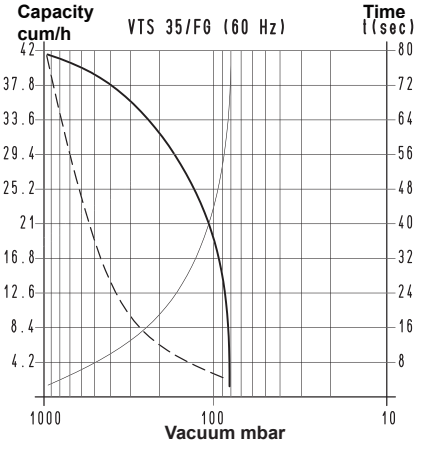








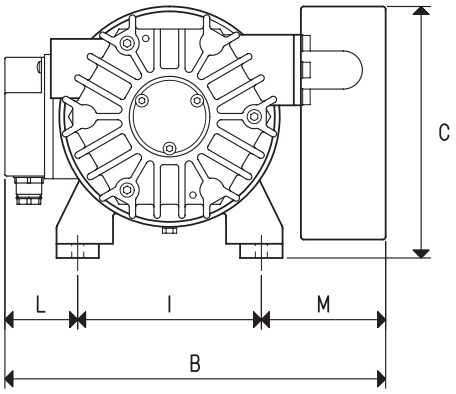


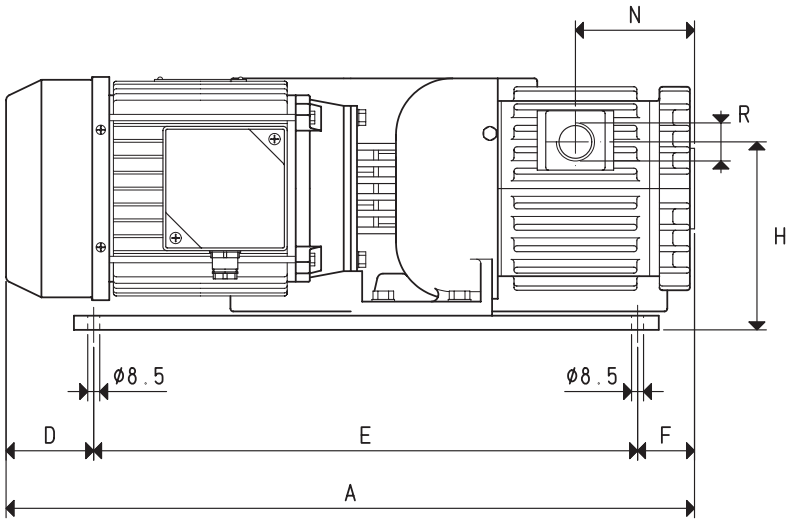


To calculate the emptying time of a volume V_1, apply the formula $t_1 = \frac{t \times V_1}{100}$

——— 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)





Art.		VTS 25/FG		VTS 30/FG		VTS 35/FG	
Frequency		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity	m^3/h	25.0	30.0	30.0	36.0	35.0	42.0
Final pressure	mbar abs.	80		80		80	
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)	66	68	68	70	70	72
Max. weight	3~	28.0		32.0		34.0	
Kg							
A		470		490		510	
B		265		265		265	
C		170		170		170	
D		65		65		65	
E		385		385		385	
F		20		40		60	
H		133		133		133	
I		130		130		130	
L		55		55		55	
M		80		80		80	
N		73		83		93	
R	Ø gas	G3/4"		G3/4"		G3/4"	
Accessories and spare parts							
6 graphite vanes	art.	00 VTS 25FG 10		00 VTS 30FG 10		00 VTS 35FG 10	
Front graphite disc	art.	00 VTS 25FG 17		00 VTS 30FG 18		00 VTS 35FG 18	
Rear graphite disc	art.	00 VTS 25FG 26		00 VTS 30FG 27		00 VTS 35FG 27	
Sealing kit	art.	00 KIT VTS 25FG		00 KIT VTS 30FG		00 KIT VTS 35FG	
Check valve	art.	10 04 10		10 04 10		10 04 10	
Suction filtre	art.	FB 25/FC 25		FB 25/FC 25		FB 25/FC 25	

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