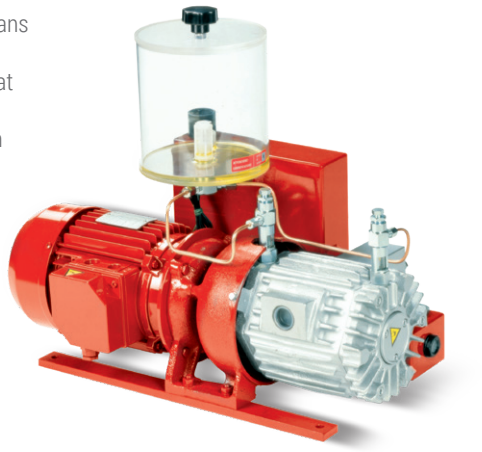
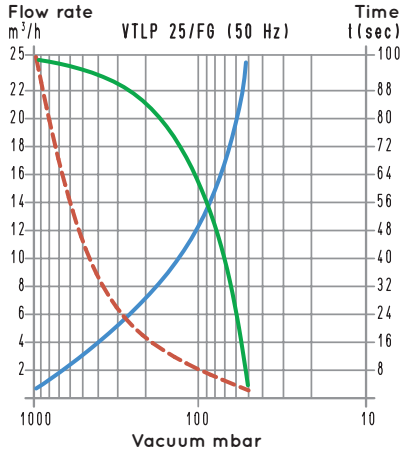
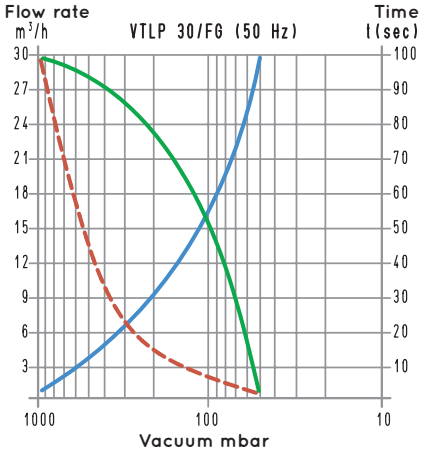
# VACUUM PUMPS VTLP 25/FG, 30/FG and 35/FG WITH DISPOSABLE LUBRICATION

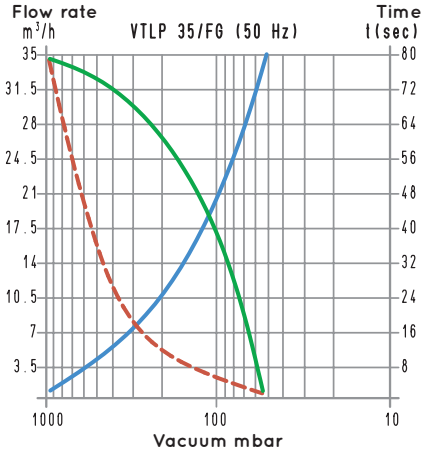
These vacuum pumps have a suction flow rate of 25, 30 and 35 $m^3/h$.
The vacuum with disposable oil lubrication is adjusted via two oilers located in correspondence of the support bearings.
The rotor is cantilevered-fitted on the motor shaft and supported by independent bearings housed in the two pump 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.
We strongly recommend installing a check valve and a filter on the suction inlet.
Also this range of pumps can be supplied with single-phase electric motors.

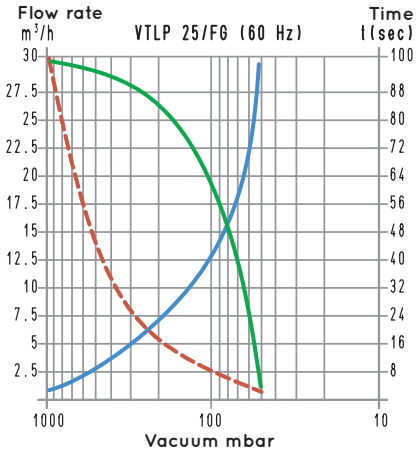


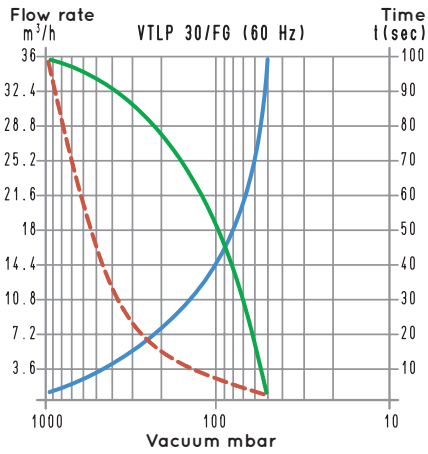


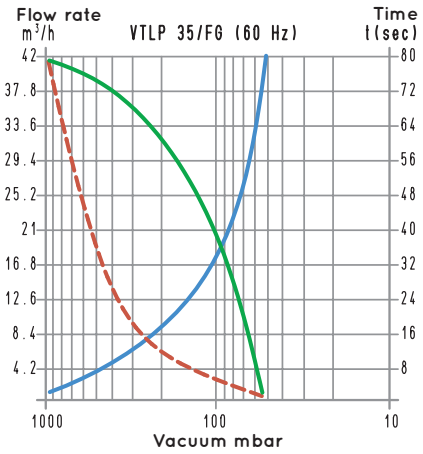


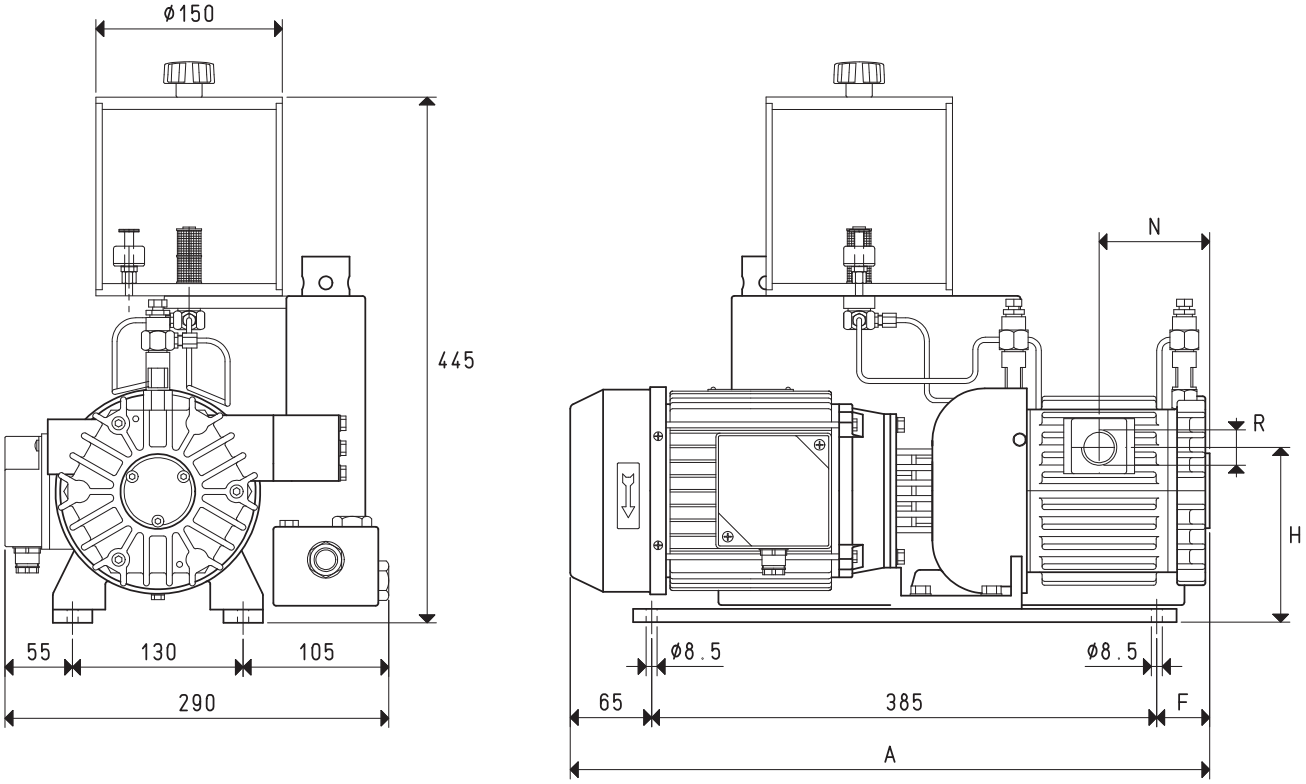




To calculate the emptying time of a volume of $V_1$, use the following formula: $t_1 = \frac{t \times V_1}{100}$

- 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 VTLP 25/FG, 30/FG and 35/FG WITH DISPOSABLE LUBRICATION




| Item | | VTLP 25/FG | | VTLP 30/FG | | VTLP 35/FG | |
|---|---|---|---|---|---|---|---|
| **Frequency** | | 50Hz | 60Hz | 50Hz | 60Hz | 50Hz | 60Hz |
| **Flow rate** | $m^3/h$ | 25.0 | 30.0 | 30.0 | 36.0 | 35.0 | 42.0 |
| **Final pressure** | mbar abs. | 50 | | 50 | | 50 | |
| **Motor performance** | 3~ | 230/400±10% | 265/460±10% | 230/400±10% | 265/460±10% | 230/400±10% | 265/460±10% |
| **Volt** | 1~ | 230±10% | | 230±10% | | 230±10% | |
| **Motor power** | 3~ | 0.75 | 0.90 | 0.75 | 0.90 | 1.10 | 1.35 |
| **Kw** | 1~ | 0.75 | | 0.75 | | 1.10 | |
| **Motor protection** | IP | 55 | | 55 | | 55 | |
| **Rotation speed** | $g/min^{-1}$ | 1410 | 1640 | 1410 | 1640 | 1435 | 1745 |
| **Motor shape** | | B14 | | B14 | | B14 | |
| **Motor size** | | 80 | | 80 | | 80 | |
| **Noise level** | dB(A) | 64 | 66 | 65 | 67 | 65 | 67 |
| **Max weight** | 3~ | 32.0 | | 36.0 | | 38.0 | |
| **Kg** | 1~ | 32.5 | | 36.5 | | 38.5 | |
| **A** | | 470 | | 490 | | 510 | |
| **F** | | 20 | | 40 | | 60 | |
| **H** | | 133 | | 133 | | 133 | |
| **N** | | 73 | | 83 | | 93 | |
| **R** | Ø gas | G3/4" | | G3/4" | | G3/4" | |

| Accessories and Parts | | VTLP 25/FG | VTLP 30/FG | VTLP 35/FG |
|---|---|---|---|---|
| **Oil charge** | L | 1.8 | 1.8 | 1.8 |
| **Lubricating oil** | type | ISO 100 | ISO 100 | ISO 100 |
| **6 vanes** | item | 00 VTL 25FG 10 | 00 VTL 30FG 10 | 00 VTL 35FG 10 |
| **Sealing kit** | item | 00 KIT VTL 25FG | 00 KIT VTL 30FG | 00 KIT VTL 35FG |
| **Check valve** | item | 10 04 10 | 10 04 10 | 10 04 10 |
| **Suction filter** | item | FB 28/FC 25 | FB 28/FC 25 | FB 28/FC 25 |
| **Oil level switch** | item | 00 LP VTL 99 | 00 LP VTL 99 | 00 LP VTL 99 |
| **Oil filter** | item | 00 LP VTL 40 | 00 LP VTL 40 | 00 LP VTL 40 |
| **Adjustable drip oiler** | item | 00 VTL 00 11 | 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: VTLP 25/FG M).

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$ ; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$ cfm= $m^3/h$ x 0.588; inch Hg= mbar x 0.0295; psi= bar x 14.6