

Product data overview

Vaculex[®] ML

Vacuum Lifting Systems



Vaculex[®] ML

Smart solutions for the automated world™



Vaculex® ML

English

Introduction

Vaculex® ML - is a small, handy, really easy to operate vacuum lifter which can be manoeuvred with one hand. The lifter is appropriate for loads between 5 and 55 kg. A number of electrical vacuum pumps are available. Another option is a pneumatic vacuum pump, that is very easy to install, since the pump is mounted on the top swivel.

One hand operated

Vaculex ML is a one hand operated vacuum lifter which is easily customized to adapt to most handling situations with loads weighing between 5 and 55 kg.

Large possibilities

Vaculex ML offers large possibilities to choose between a range of different control handles, suction feet and other options to optimize the lifting system for your specific handling situation.

Easy to apply to your changing needs

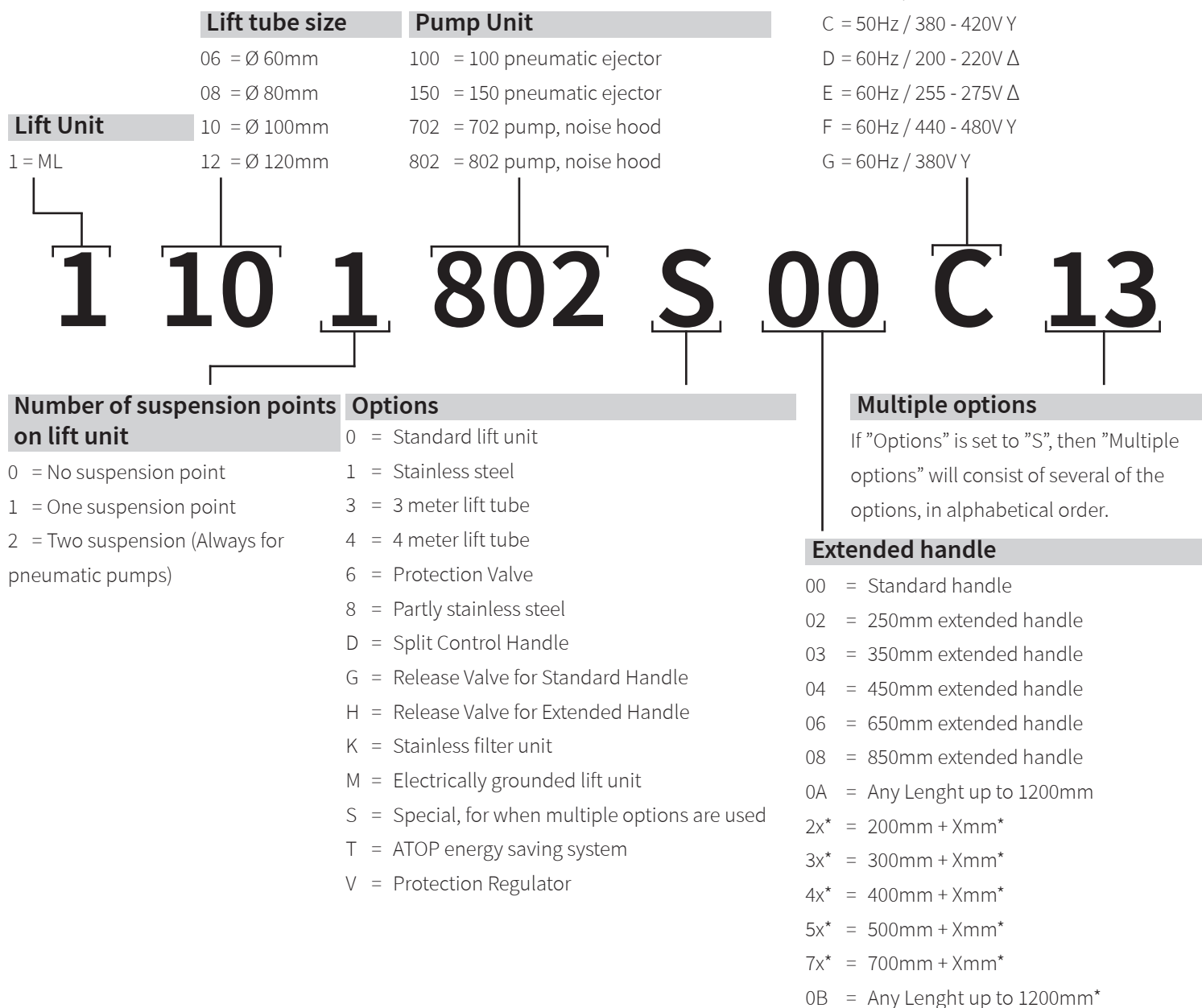
Vaculex ML has a modular design which also makes it easy to reconfigure the lifting system if your needs are changing over time.

Benefit

- Operated with one hand
- User friendly and able to customize to fit customer specific needs
- For handling of loads between 5 kg and 55 kg
- Ergonomic and Safe
 - o Reduces repetitive strain injuries and sick leave costs
 - o Reduces the risk of damage goods
- Increases productivity
- Reliable and with low service costs
- Modular system which can be reconfigured for new tasks over time
- Available as either Electric or Compressed Air powered
- Available with Vaculex ATOP for increased energy efficiency and maximum comfort
- Available with a wide range of different suction feet, vacuum pumps and other options

Identification

Product number consisting of a combination of the following set:



Example:

1 10 1 802 S 00 C 13 = ML lift unit in stainless steel, 3m, 100mm tube with one suspension point, 802 pump with noise hood 380-420V 50Hz and a standard handle.

* = Two part extended handle with hinge.
Length of the second handle.
3 = 300, 5 = 500, 6 = 600 or 7 = 700.

Identification

Clarification of Options:

- 0 = Standard lift unit.
- 1 = Stainless steel - All metal parts in the lift unit are made from stainless steel grade 304.
- 3 = 3 meter lift tube - The length of the lift tube is 3m.
- 4 = 4 meter lift tube - The length of the lift tube is 4m.
- 6 = Protection Valve - The lifter is equipped with a mechanical protection valve (anti jump valve) that prevents the lifter from jumping up in high speed in the unlikely event of dropping the load. Should be used in combination with dead end tools or situations where there is a risk of dropping the load, but the suction foot is still covered by part of the lift object.
- 8 = Partly stainless steel - All metal parts in the control unit are made from stainless steel grade 304.
- D = Split Control Handle - The control handle is split in two parts. The vacuum hose is mounted above the tool and the control house is mounted somewhere on the tool. Both parts are connected by a flexible hose.
- G = Release Valve for Standard Handle - Release valve for standard handle. Recommend when you have high safety factor of the suction foot and needs extra help to release the object. This is also good when you need to release the object before its firmly put downed on the underlying surface. Eg. loading on to a moving conveyor belt.
- H = Release Valve for Extended Handle - Please see the explanation for release valve for standard handle. Recommended to always include this option together with an extended handle.
- K = Stainless filter unit - Filter unit in stainless steel grade 304.
- M = Electrically grounded lift unit - Grounded lift unit without cover sock.
- S = Special, for when multiple options are used.
- T = ATOP energy saving system - The system detects when the lifter has been inactive for x seconds and automatically turns the pump unit off. Supplied with remote control used to start the pump again.
- V = Protection Regulator - Protection regulator to set the maximum allowed vacuum level in the system. Eg. to insure that it's not possible to lift more than the maximum allowed load.

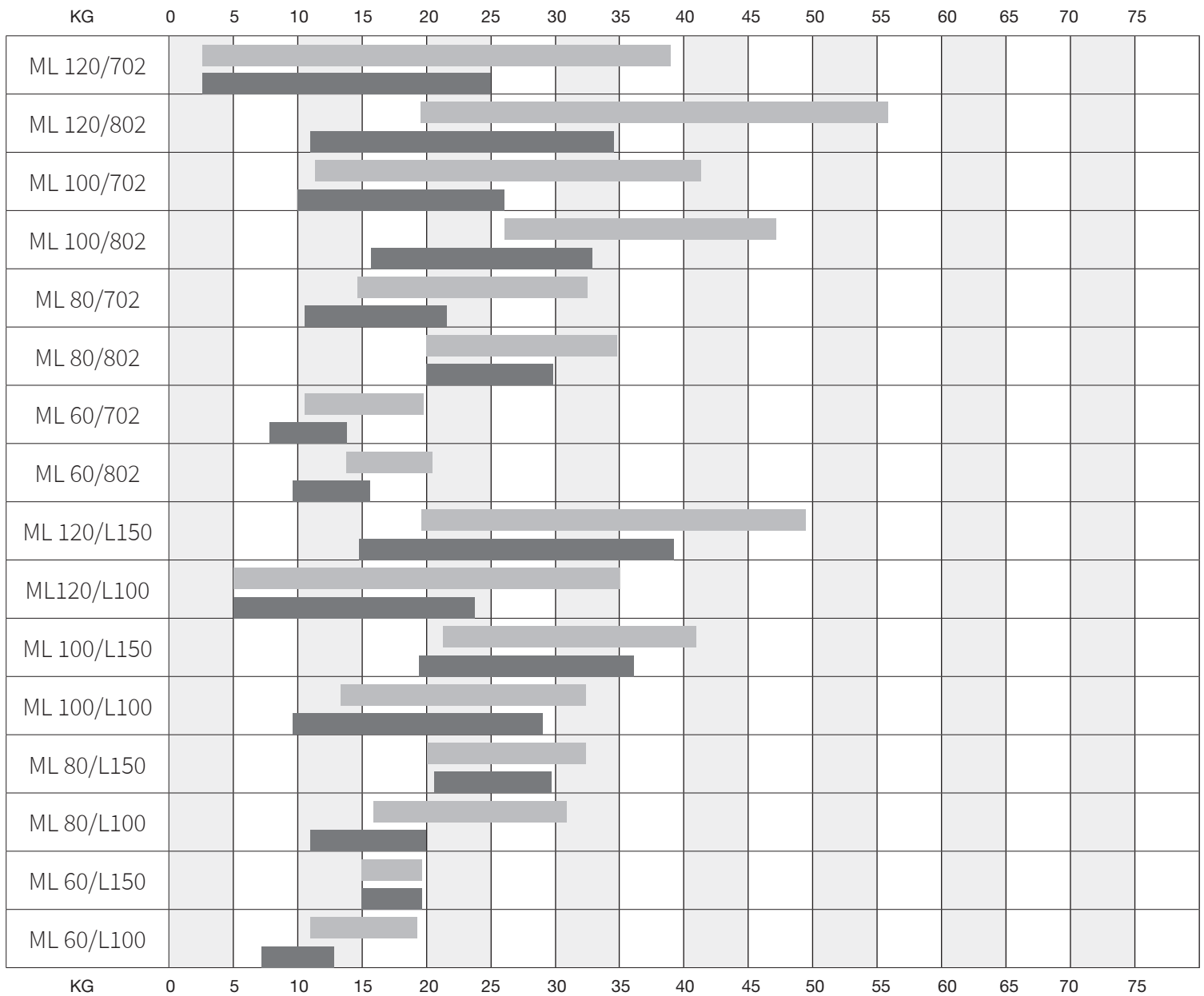
Lifting Capacity

Find the best Lift Unit/Pump combination

Non porous Lifting object

Porous Lifting object

English



The bars show recommended “weight interval” in kg (for the lifted objects) regarding actual Lift Unit/Pump combination.

To the left of the bar it takes 2 seconds for the Lift Unit/Pump combination to evacuate and lift 1 meter. To the right it takes 4 seconds.

We have been using a rectangular suction foot during our tests, therefore you must consider the extra weight if you choose a heavier suction foot.

Note! Try to choose as big Lift Tube as possible.

This will give you a “softer” and smother Lift Unit.

Vaculex® ML

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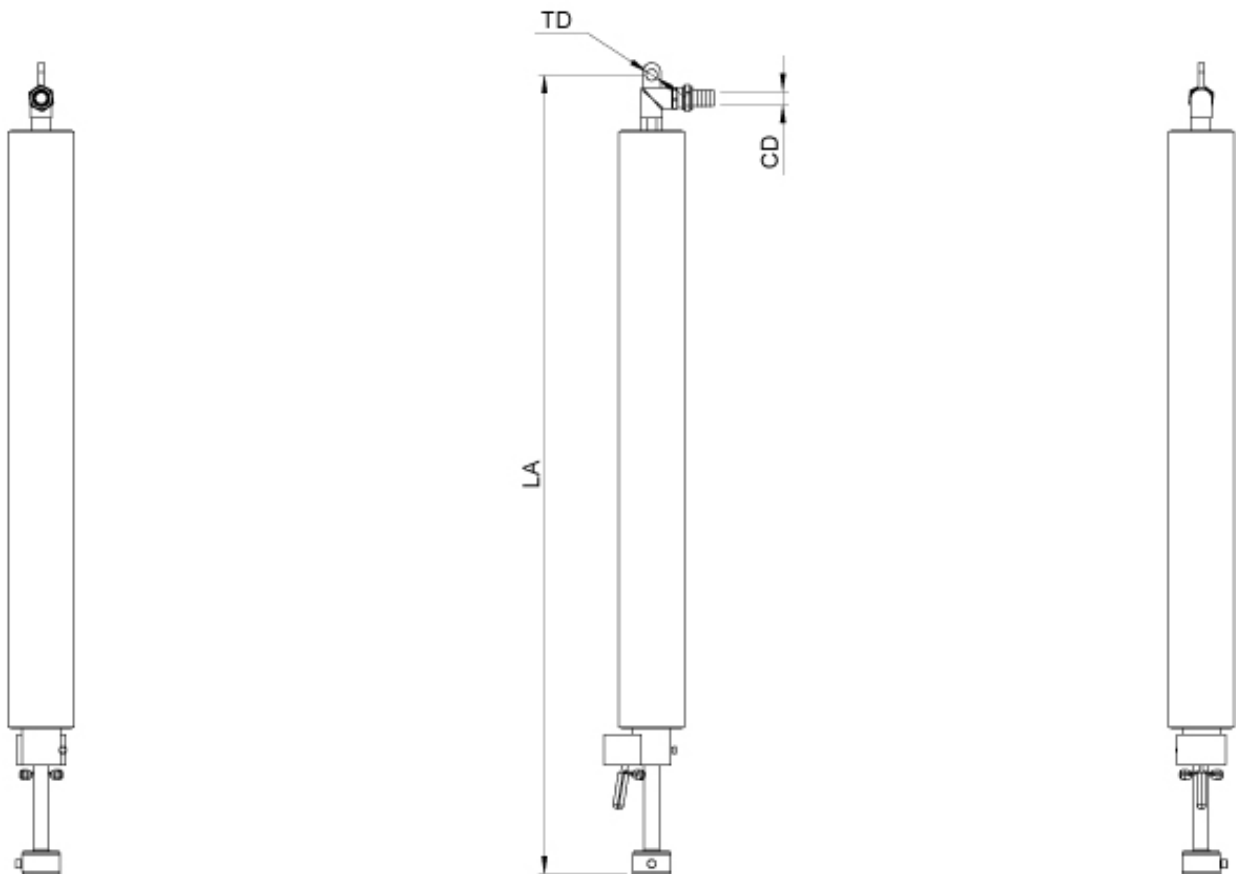
Drawing overview

Simplified drawings with key measurements.

Without suction foot or similar (with the possibility to choose suitable foot).

Dimension (mm)

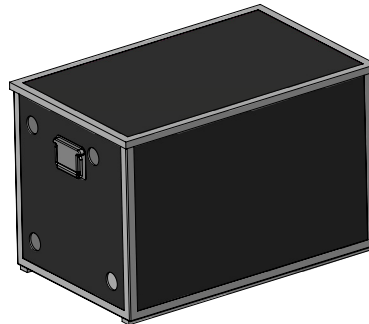
Model	LTD	LA	TD	CD
ML60	60	Max 2850 Stroke: 1840	19 [0.75]	25
ML80	80	Max: 2850 Stroke: 1840	19 [0.75]	25
ML100	100	Max: 2850 Stroke: 1720	19 [0.75]	25
ML120	120	Max: 2850 Stroke: 1750	19 [0.75]	25



Vaculex® ML

Pump

These are the electrical and pneumatic pumps for the ML series.



Pumpunit, electric	702		802	
	50Hz	60Hz	50Hz	60Hz
Power (kW)	0,75	0,9	1,25	1,5
Voltage (V)	X*	Y*	X*	Y*
Weight (kg) [lbs]	61 [134.5]		69 [152]	
Dimensions LxWxH (mm) [inch]	815x515x540 [32x20.3x21.3]		815x515x540 [32x20.3x21.3]	
Sound level (dBA)	54	56	54	56

X = 50Hz, 3 - phase	Y = 60Hz, 3 - phase
200V Δ	220V Δ
230V Δ	265V Δ
350V Y	380-400V Y
400V Y	460V Y

Pumpunit, pneumatic	100	150
Air consumption (Nl/h at 6 bar) [-inHg]	420 [??]	630 [??]
Sound level (dBA)	60-65	60-65

Crane and Over Head system

Several types of Crane and Over Head system can be used with the Vaculex® ML.

These are the most common systems. More info in the separate datasheet for Cranes and Over Head systems.



Bridge Cranes



Slewing Jib Cranes