

Vario 18 suction pump

Technical Information



- a Overflow protection/virus filter
- b Vacuum gauge in kPa and mmHg
- c LED warning for battery status
- d Carrying handle
- e Tubing holder
- f Membrane vacuum regulator with safety knob
- g Plug for 12 VDC in car connection cable

The Vario 18 is a high-quality suction pump. It is powered by the well-proven QuatroFlex system and guarantees maximum suction performance for a wide range of clinical applications. It ideally combines easy handling and cleaning with high hygiene standards to ensure optimal operation. Medela provides a complete and compatible range of accessories and fluid collection system to configure the pump to many medical applications.

FOR EU AND REST OF THE WORLD: Intended use/purpose

The Vario suction pump is intended for aspiration and removal of surgical fluids, tissue (including bone), gases, bodily fluids (including vomit) or infectious materials, either during surgery or at the patient's bedside.

Indications for use

The Vario suction pump is indicated for a variety of suctioning procedures including nasopharyngeal and tracheal suctioning from a patient's airway or respiratory support system and surgical and gastro-intestinal suctioning, either in "constant" or "intermittent" mode.

ONLY FOR USA:

Intended use

The Medela Vario 18/ci suction pumps are indicated for aspiration and removal of surgical fluids, tissue (including bone), gases, bodily fluids (including vomit) or infectious materials from a patient's airway or respiratory support system, either during surgery or at the patient's bedside. Generally the Medela Vario 18/ci is intended to be used for a variety of suctioning procedures including nasopharyngeal, tracheal, surgical, gastrointestinal in either "constant" or "intermittent" mode.

KEY DIFFERENTIATORS

Minimising the risk from Infection with high quality protection system for both the Health Care Professional (HCP) and Patient

Its virus and bacteria filter system prevents from cross contamination with filtration efficiency greater than 99.9%, providing high quality protection and hygiene standards for both HCP and patient. The Vario 18 can be used with either the specially designed Medela Reusable (RCS) or Disposable Collection Systems (DCS). Moreover, the membrane vacuum regulator of Vario 18 allows precise vacuum settings without air leakage.

For High Performance and simplified HCP suctioning effort

While combining safety features, ease of use, and functional versatility, Vario 18 remains an indispensable portable suction pump for airway suction in hospital environment. It is compact, equipped with its carrying handle design that makes transport easy. At the same time, the battery powered option makes it ultraportable and versatile for more than 30 minutes. Vacuum build-up is achieved within the first 6 seconds (see chart 2 in page 3), while flow and vacuum rate can be easily adaptable. The process makes the effort for the HCP eased and simplified with high flexibility in place.

Quiet running low vibration

The QuatroFlex piston/cylinder technology offers superior longlasting power and durability. The Vario 18 operates quietly, making airway suctioning discreet with high efficiency.

Reliable with long medical suction expertise

Known and trusted over 60 years* for medical suction expertise, Medela offers high quality solutions for a wide range of clinical applications and warrants the device will be free from defects for a period of 2 years from the delivery date, while the technical service support is always on availability for any inconvenience occurred. For more information on warranty please read the Instructions for Use of the device.

* Medela PVS exists in the global market since 1981

Product codes

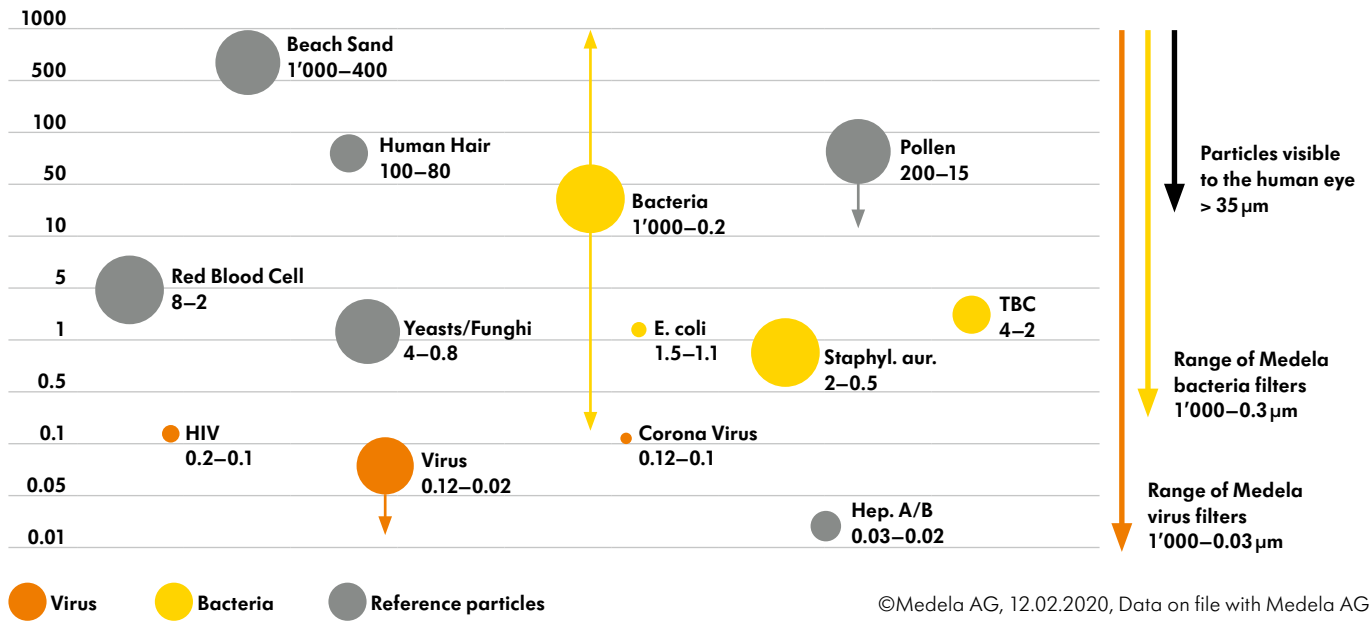
Item numbers	AC version		
	026.2110	230–240 V/50Hz	Euro plug
	026.2120	100–120 V/60Hz	US plug
	026.2150	230–240 V/50Hz	AUS/NZ plug
	026.2160	230–240 V/50Hz	Euro plug
	AC/DC version		
	026.5110	100–240 V/50–60 Hz	Euro plug
	026.5120	100–240 V/50–60 Hz	US plug
	026.5140	100–240 V/50–60 Hz	UK plug
	101046668	100–240 V/50–60 Hz	Brazil plug
	101046669	100–240 V/50–60 Hz	China plug
	AC/DC c/i version		
026.8122	100–240 V/50–60 Hz	US plug	
026.8152	230–240 V/50Hz	AUS/NZ plug	
Service manual	177.2610 (EN, DE)		

Pump specifications

Max. vacuum [kPa/mmHg]	–75/–563 (±10% tolerance)	
Flow [l/min]	18 l/min. (±10% tolerance)	
Dimensions [mm]	380 x 170 x 285 height including filter and 90° coupling piece: 440	
Weight [kg]	AC	3.5
	AC/DC	4.2
Drive unit	QuatroFlex piston/cylinder technology	
Power supply	AC	230–240V, 50 Hz/230–240V, 60 Hz/120 V, 60 Hz
	AC/DC	100–240V, 50–60 Hz
Power consumption [W]	AC	90 (70 for 100–120V version AC)
	AC/DC	80
Noise level [dB(A)]	<56	
Vacuum regulator	Membrane	
Protection against electric shock	Type CF (cardiac floating: max. earth leaking current 10 µA)	
Medical Device Classification – According to 93/42/EEC	Class IIa	
Protection against electric shock	Class II Equipment	
Ingress Protection	IP22	
Battery	NiMH	
Operation from battery (at full charge)	30 minutes	
Charging time of battery	5 hours	
Low battery indication	LED and acoustic	
Overflow protection	Disposable overflow protection/bacterial filter (5 pcs included)	
Warranty [years]	2; QuatroFlex and battery 6 months	
Operating temperature, relative humidity, pressure	+5 to +40°C / 15 to 93% / 70 to 106 kPa	
Transport/storage temperature, relative humidity, pressure	–20 to +55°C / 15 to 93% / 70 to 106 kPa	
Made in	Switzerland	

Chart 1

Filtration Efficiency μm (Micrometer)

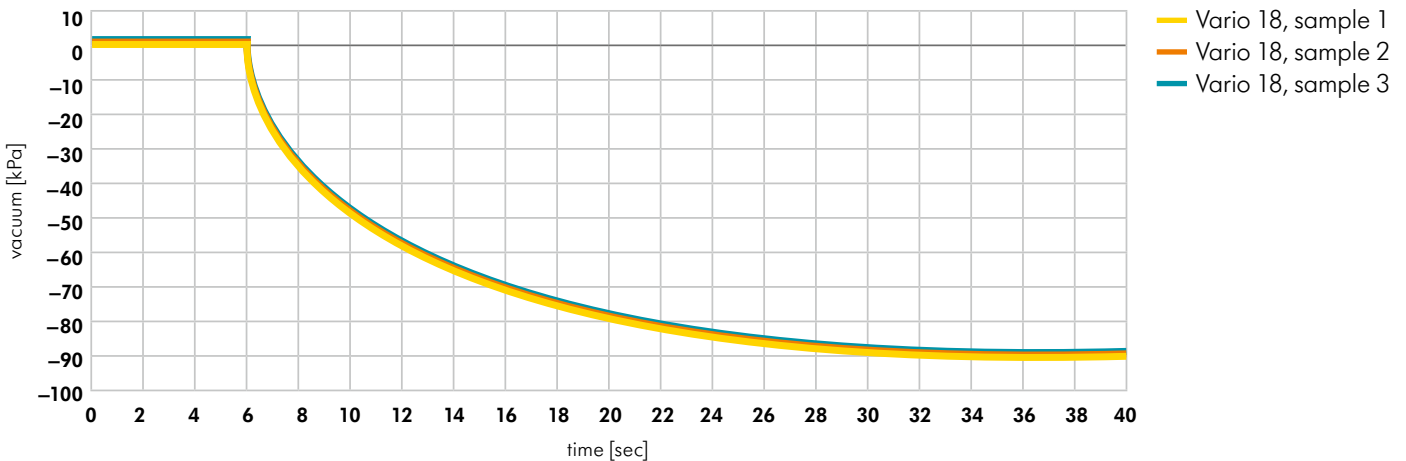


Benefits at a glance

- ✓ Laboratory tested high **virus retention grades of 99.99%** for particles larger than 0.03 μm
- ✓ **Captures all kinds of Coronaviruses:** 2019-nCoV, SARS-CoV, HCoV NL 63 and HKUI
- ✓ Filters all kinds of viruses and bacteria

Chart 2

Vacuum build-up, Vario 18 AC, calculated at sea level (with filter and 1 L jar)



Conclusion

Vario 18 build-up regulator lasts maximum 6 seconds, while vacuum performance starts stabilising vacuum to -90 kPa at 30 seconds.

Main compatible accessories	
Reusable Collection System	
Reusable 1 l set with PSU suction jar	077.0715
Reusable 2 l set with PSU suction jar	077.0716
Disposable Collection System	
Suction jar PC, 1.5 l	077.0082
Disposable suction liner 1.5 l	077.0083
Disposable suction liner 1.5 l with solidifier	077.0084
Adapter for Vario	077.0105
Filters (selection of range)	
Vario disposable filter set	077.0834
Disposable overflow protection/bacteria filter with Medela connection	077.0571
Disposable bacteria filter with Medela connection	077.0573
Disposable bacteria/odour filter with Medela connection	077.0575
Disposable virus filter with overflow protection with Medela connection	101035263
Disposable virus filter with overflow protection with conical connections	101035264
Disposable virus filter with Medela connection	101035265
Tubing, silicone (selection of range)	
Silicone tubing Ø 7x12 mm, without coupling pieces, 1 m	077.0901
Silicone tubing Ø 7x12 mm, without coupling pieces, 2 m	077.0902
Silicone tubing Ø 7x12 mm with 1 coupling piece, 60 cm	077.0912
Silicone tubing Ø 7x12 mm with 1 coupling piece, 100 cm	077.0913
Silicone tubing Ø 7x12 mm with 2 coupling pieces, 30 cm	077.0921
Silicone tubing Ø 7x12 mm with 2 coupling pieces, 60 cm	077.0922
Silicone tubing Ø 7x12 mm, 25 cm, with 1 coupling piece and 1 coupling piece 90°	077.0931
Tubing, disposable	
Disposable (PVC) tubing, 180 cm, with fingertip, sterile	077.0951
Disposable tubing, 180 cm, with fingertip, non sterile	077.0952
Optional	
Clampholder, plastic	077.0521
Wall bracket, single	077.0523
Vario carrying bag	077.0831
Car connection cable for Vario 12V DC	077.0832
Disposable specimen cup, Ø 6–10 mm (for reusable collection system)	077.0562
Disposable specimen cup for disposable collection system	077.0094



CAUTION: Federal law restricts this device to sale by or on the order of a health professional.

Medical Vacuum Technology for Healthcare Professionals
Please contact us or your local Medela representative for details.

 Medela AG
Lättichstrasse 4b
6340 Baar
Switzerland
www.medela.com

Local contact