

# Vario 18 suction pump

## Technical Information



### Introduction

The low noise level of this suction pump keeps staff focused on the task at hand wherever suctioning takes place. Stressful situations require an easy setup and handling – both needs are met with the Vario 18 pump. Variable vacuum levels make Vario 18 indispensable in hospitals – simply adjust the vacuum by pushing down the button and turning it. Not only are settings precise, but the safety pushbutton also prevents accidental re-adjustment. The battery versions can be used for portability, patient transport or in areas with no power sockets. Hospitals already using a Medela fluid collection system do not need to purchase a new set – the Vario 18 can be equipped with either the Reusable (RCS) or Disposable Collection System (DCS).

### Intended use

The Vario 18 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 Vario 18 is intended to be used for a variety of suctioning procedures including nasopharyngeal, tracheal and surgical.

### Key differentiators

#### Simple to use

- The Vario 18 can be used with either the Medela Reusable (RCS) or Disposable Collection Systems (DCS). No need to buy specific collection systems for the pump.
- Fail-safe visual cues make it easy to connect the Vario 18 to a variety of accessories.

#### Robust and safe

- The combination of safety features, ease of use, and functional versatility makes the Vario 18 an indispensable portable suction pump in hospitals.
- Compact, easy-carry design and battery powered options make Vario 18 ultraportable and versatile.
- Sturdy housing and components make the pump ideal for use on crash carts.

#### Quiet running low vibration

- The QuatroFlex piston/cylinder drive unit offers superior power and durability
- The Vario 18 operates quietly, making airway suctioning discreet.

- a Overflow protection/bacteria filter
- b Vacuum gauge in kPa and mmHg
- c LED warning
- d Carrying handle
- e Tubing holder

- f Membrane vacuum regulator with safety knob
- g Plug for 12 VDC IN car connection cable

## Product codes

Item numbers	AC-version		
	026.2110	230–240 V/50Hz	Euro plug
	026.2112	230–240 V/50Hz	Euro plug
	026.2140	230–240 V/50Hz	UK plug
	026.2150	230–240 V/50Hz	AUS/NZ plug
	026.2120	100–120 V/60Hz	US plug
	026.2160	230–240 V/60Hz	Euro plug
	AC/DC-version		
	026.5110	100–240 V/50–60 Hz	Euro plug
	026.5112	100–240 V/50–60 Hz	Euro plug
	026.5140	100–240 V/50–60 Hz	UK plug
	026.5150	100–240 V/50–60 Hz	AUS/NZ plug
	026.5120	100–240 V/50–60 Hz	US plug
	Service manual	177.2610 (EN, DE, FR)	

## 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)]	51.2	
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	IP21	
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, 15–93%, 70–106 kPa	
Transport/storage temperature, relative humidity, pressure	–25 to +50°C, 15–93%, 70–106 kPa	
Made in	Switzerland	

<b>Main compatible accessories</b>	
<b>Reusable Collection System</b>	<b>Item number</b>
Reusable 1 l set with PSU suction jar	077.0715
Reusable 2 l set with PSU suction jar	077.0716
<b>Disposable Collection System</b>	<b>Item number</b>
Adapter for Vario	077.0105
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
<b>Filters (selection of range)</b>	<b>Item number</b>
Vario disposable filter set	077.0834
Disposable overflow protection/bacteria filter with Medela connections	077.0571
Disposable overflow protection/bacteria filter with Medela and conical connections	077.0577
Disposable virus filter with overflow protection with Medela connections	101035263
Disposable virus filter with overflow protection with conical connections	101035264
<b>Tubing, silicone</b>	<b>Item number</b>
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
<b>Tubing, disposable</b>	<b>Item number</b>
Disposable (PVC) tubing, 180 cm, with fingertip, sterile	077.0951
PVC tubing Ø 12.7x18 mm, 200 cm for patient connection Ø 10–14 mm	077.0963
Disposable PVC tubing, 150 cm CH25, sterile	077.0965
<b>Optional</b>	<b>Item number</b>
Clampholder, plastic	077.0521
Wall bracket, single	077.0523
Vario rail holder 10x25 mm	077.0821
Vario universal holder	077.0823
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 so 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.