



AESTHETIC MEDICINE

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VIBRATION-ASSISTED LIPOSUCTION

■ Liposuction with **Vibrasat® power**

Liposuction with **Vibrasat® power** is an approved method. Here, the suction cannula is moved axially in a fast vibrational mode; this serves in combination with the suction vacuum to microscopically and gently cut and remove fat tissue. The vibration allows the surgeon to work more precisely. Also, the cut a dispose tissue is easier to extract. This technique has its specific advantages for both the doctor as well as the patient.

- Gentle and homogeneous fat removal
- Time-saving procedure
- Less force and effort necessary to move the cannula; the doctor is thus able to work with higher precision



Vibrasat® power is the technologically leading vibration hand piece for liposuction treatments.

- Up to 5,000 strokes/min by 2.8 mm (.11in)
- Running quietly and smoothly
- Very powerful
- Fully autoclavable due to special materials in the drive and gear unit
- Anatomically shaped hand grip with just the right balance point and low weight to hold it comfortably for any length of time; still enough weight to cushion the vibrations towards your palm its inertia
- Quality product made in Germany (bearing the CE label).

The Company Möller Medical

Möller Medical was founded in 1949 and is presented today most notably within the demanding OEM business; the company is developing and manufacturing components, systems and finished devices for human medicine, in vitro diagnostics (IVD) and precision engineering. The client list includes many well known medical engineering companies/ IVD.

R&D and manufacturing is done on site in Fulda, Germany. For example there also the **Vibrasat® power** was developed, programmed and manufactured. Möller Medical is certified according to DIN EN ISO 13485 and manufactures the devices shown here with CE mark, i.e. according to EU-directive 93/42/EWG.

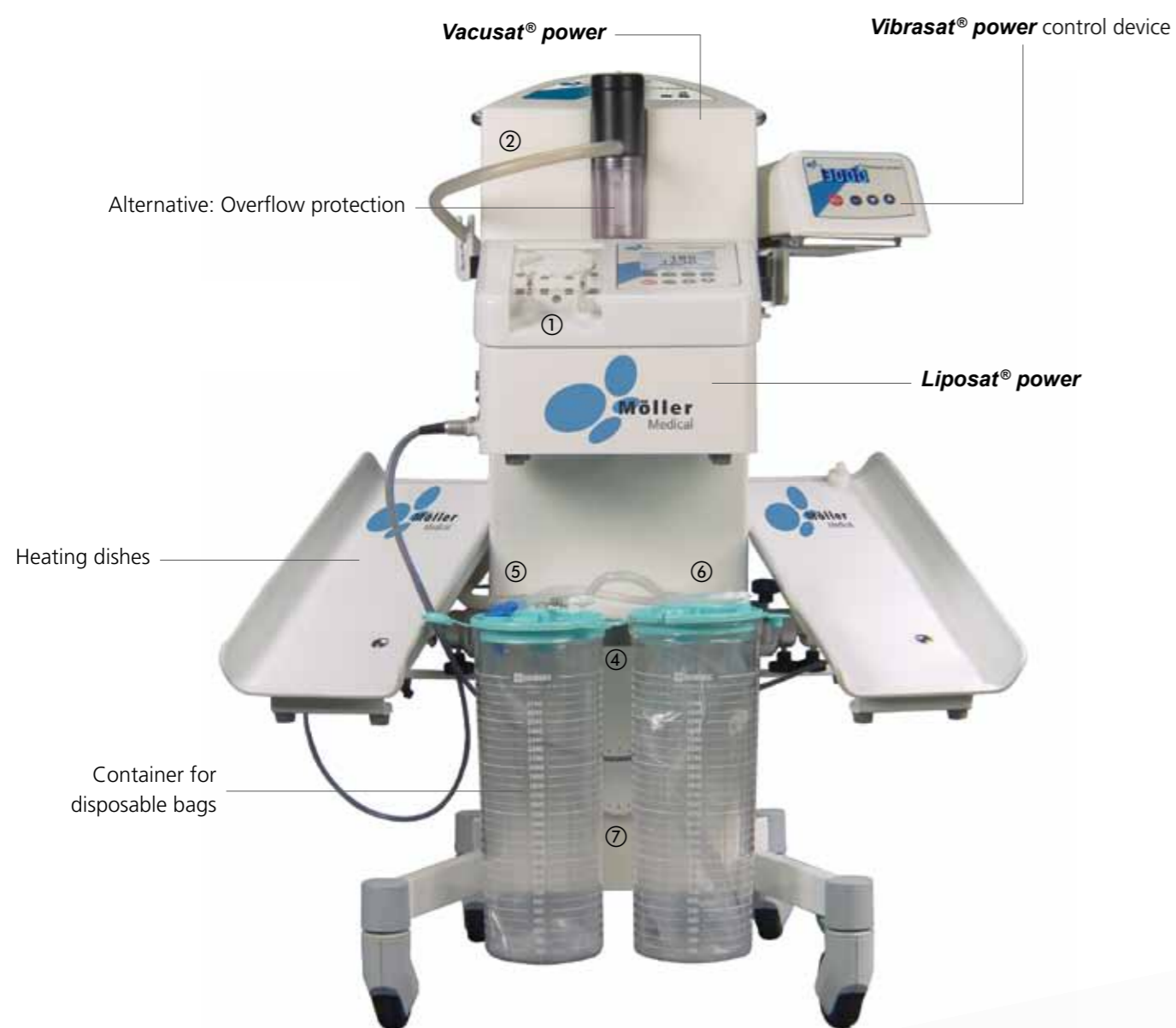
■ Tumescence local anaesthesia (TLA) with **Liposat® power**

The liposuction with tumescence local anaesthesia (TLA) is applied international most frequently. Here a saline solution is pumped directly into the patient's issue. This method has principal advantages with any treatment that requires local anaesthesia, such as liposuction (fat removal) or many applications of vascular surgery.

- Unwanted side-effects, such as thromboses, risks of embolisms, or nausea, occur much less frequently
- The patient can stay awake
- Simple application without the need for an anaesthesiologist
- Little post-surgical pain
- Small cuts, very little loss of blood
- With correct application, no or only small haematomas
- "Three-dimensional" liposuction possible by repositioning the patient during the procedure.



■ The modular system for the vibration-assisted liposuction



- ① Tube set for **Liposat® power**
- ② Vacuum connecting tube 8x14x1,000mm
- ③ Suction tube
- ④ Disposable bags
- ⑤ Serial tube 285mm with blue angle
- ⑥ Vacuum serial tube with T-piece
- ⑦ Bacterial filter

Vibrasat® power hand piece



■ Device configurations

Liposat® power configuration

Description

The combination of the suction apparatus **Vacusat® power** with the infiltration pump **Liposat® power** and the vibration drive **Vibrasat® power** results in an excellent liposuction system solution.

The exact adjustable pump rate of the saline solution in the tissue is gentle for the patient and time saving for the doctor. He can take care of other things during the infiltration.

The heating dishes keep up the temperature of the infiltration solution, leading to increased safety and comfort of the patient. The vibrating hand grip for liposuction cannulae complete the perfect system.

Consisting of:

- 1 **Vacusat® power** with accessories
 - 1 **Liposat® power** infiltration pump
 - 1 **Vibrasat® power**
 - 2 heating dishes
 - 1 holder for **Vibrasat® power**
 - 5 **Vibrasat®** liposuction cannulae with plastic socket respectively 3 liposuction cannulae with steel socket
 - 2 containers for disposable bags 3l
 - 2 disposable bags 3l
 - 1 three-way tap
 - 1 suction tube 3m
 - 1 tube set for **Liposat® power**
 - **2 years guarantee**
- Article no. 00002253**

Liposat® power system

Description

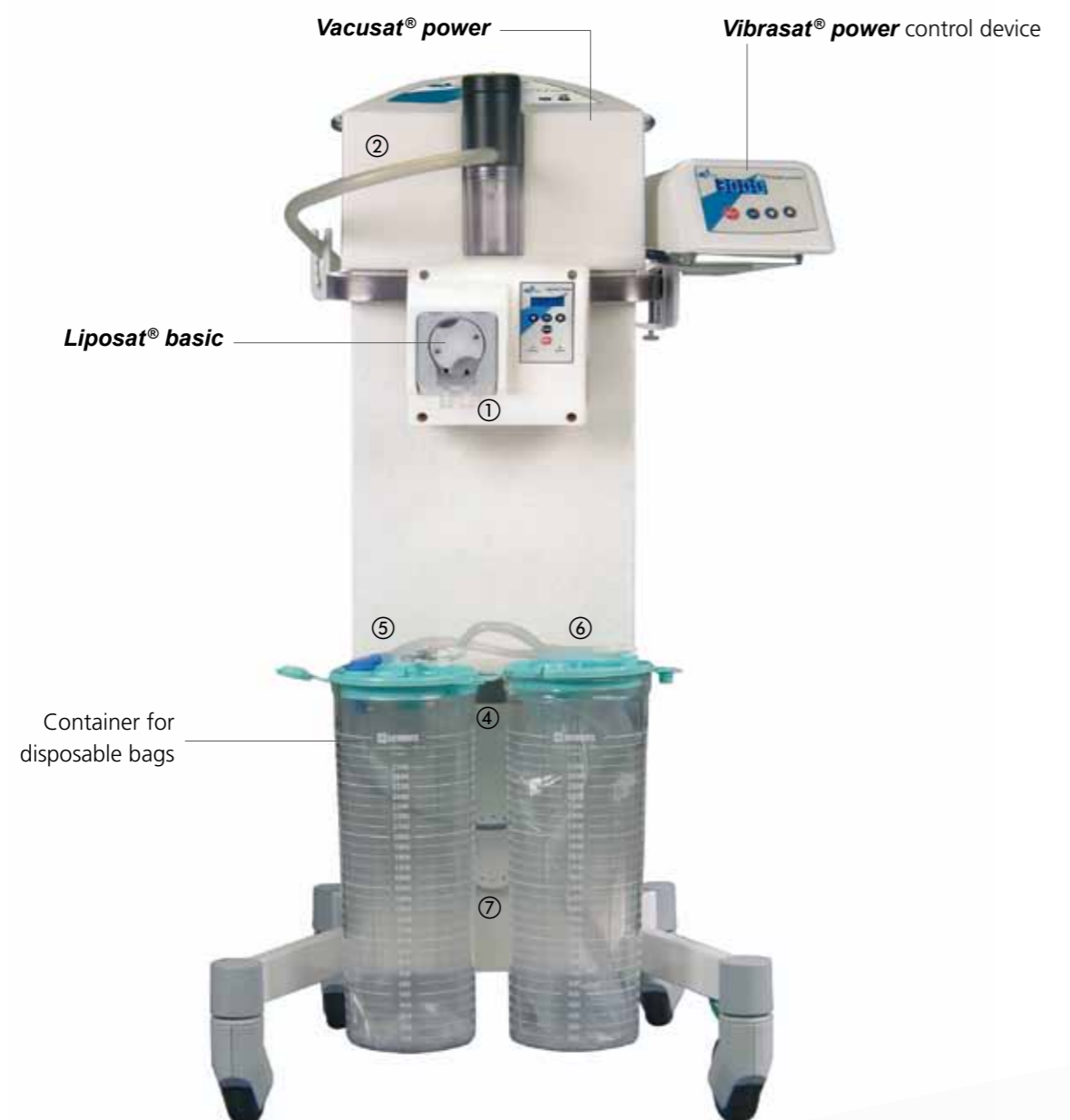
The **Liposat® power** system is the combination of the suction apparatus **Vacusat® power** and the infiltration pump **Liposat® power**.

The system provides the same advantages as the **Liposat® power** configuration. However the **Vibrasat® power** is not contained in the **Liposat® power** system.

Consisting of:

- 1 **Vacusat® power** with accessories
 - 1 **Liposat® power** infiltration pump
 - 2 heating dishes
 - 2 containers for disposable bags 3l
 - 2 disposable bags 3l
 - 1 three-way tap
 - 1 suction tube 3m
 - 1 tube set for **Liposat® power**
 - **2 years guarantee**
- Article no. 00002295**

■ The low budget solution to the *Liposat® power* configuration



- ① Tube set for *Liposat® basic*
- ② Vacuum connecting tube 8x14x1,000mm
- ③ Suction tube
- ④ Disposable bags
- ⑤ Serial tube 285mm with blue angle
- ⑥ Vacuum serial tube with T-piece
- ⑦ Bacterial filter

■ Device configurations

Liposat® basic configuration

Description

The combination of the suction apparatus *Vacusat® power* with the infiltration pump *Liposat® basic* and the vibration drive *Vibrasat® power* means an competitive alternative for the liposuction.

The exact adjustable pump rate of the saline solution in the tissue is gentle for the patient and time saving for the doctor. He can take care of other things during the infiltration.

The vibrating hand grip for liposuction cannulae rounds the whole system off.

Liposat® basic system

Description

The *Liposat® basic* system is the combination of the suction apparatus *Vacusat® power* with the infiltration pump *Liposat® basic*.

The system provides the same advantages as the *Liposat® basic* configuration. However the *Vibrasat® power* is not contained in the *Liposat® basic* system.

Consisting of:

- 1 *Liposat® basic* infiltration pump
- 1 *Vacusat® power*
- 1 *Vibrasat® power*
- 1 holder for *Vibrasat® power*
- 5 *Vibrasat®* liposuction cannulae with plastic socket
respectively 3 liposuction cannulae with steel socket
- 2 containers for disposable bags 3l
- 2 disposable bags 3l
- 1 three-way tap
- 1 suction tube 3m
- 1 tube set for *Liposat® basic*
- **2 years guarantee**
- **Article no. 00002410**

Consisting of:

- 1 *Liposat® basic* infiltration pump
- 1 *Vacusat® power*
- 2 containers for disposable bags 3l
- 2 disposable bags 3l
- 1 three-way tap
- 1 suction tube 3m
- 1 tube set for *Liposat® basic*
- **2 years guarantee**
- **Article no. 00002411**

Individual devices

Design your device according to your own conception and demand!

Vacusat® power with accessories

Description

The suction apparatus **Vacusat® power** is an extreme powerful and persevering machine, which could be used quickly and easily. Through innovative technology, the suction pump is quieter, and offers new safety features against over-aspiration.



Technical data

Size (WxBxD): 500x1,000x560 mm
 Weight: 26 kg
 Protection class: I
 Suction power: 58 l/min ± 6 l/min at 50 Hz
 65 l/min ± 6 l/min at 60 Hz
 Vacuum: -90 kPa on NN
 (100 kPa = 1 bar = 1,000 mbar)
 Energy power: 230 VAC, 50/60 Hz
 Current power: 1.1 A
 Security measures: T 1.6 AH

Article no. 00002252

Vibrasat® power with accessories

Description

The vibration drive **Vibrasat® power** makes the suction of the fat easier with fast small movements in the length direction. The suction becomes gentler for the patient and less tiring for the operating doctor. Because of its ergonomic form the handle enables a very pleasant operation.



Technical data

Size
 Control unit (WxHxD): 150x100x200 mm
 Handle (ØxL): 55x180 mm
 Weight
 Control unit: 2.80 kg
 Handle: 0.75 kg
 Protection class: IIa
 Stroke distance: 2.8 mm
 Stoke frequency: 3,000-5,000/min.
 Power supply: 100-240 VAC, 50/60 Hz,
 Current power: 1.6 to 0.6 A

Article no. 00002246

Liposat® basic

Description

The **Liposat® basic** is a small tumescence pump developed for the tumescence local anaesthesia. The pumping rate can be adjusted in increments of 20. When the adjusted volume is reached, the pump automatically stops.



Technical data

Size (WxHxD): 170x200x140 mm
 Weight: 2.5 kg
 Protection class: IIa
 Capacity: 20 ml/min. up to 200 ml/min.
 (adjustable in steps of 20)
 Accuracy: ± 15 %
 Power supply: 230 VAC, 50 Hz
 Current power: 0.1 A

Article no. 00002498

Liposat® power

Description

The tumescence pump **Liposat® power** is developed especially for the tumescence local anaesthesia. The pumping rate can be adjusted for different applications. When the adjusted volume is reached, the pump automatically stops.

Option: Heating dishes



Technical data

Size (WxHxD): 270x220x180 mm
 Weight: 10 kg
 Capacity: 30-300 ml/min.
 (variable adjustment)
 Protection class: IIa
 Accuracy: ± 15 %
 Power supply: 100-240 VAC, 50/60 Hz
 Current power: 1.5 to 0.7 A

Article no. 00002274

Heating dishes

Description

With two controlled heating dishes the temperature of the saline solution is kept by 37°C. At a temperature higher than 42°C the pump stops to protect the patient against burns.



Technical data

Size with packaging
 (WxHxD): 300x300x540 mm
 Weight: 4.8 kg

Article no. 00002542

■ Accessories



HANDGRIP for manual liposuction

Description

Ergonomic, manual handle for Vibrasat® suction cannulae anodized with aluminium, natural

Article no. 00002254



HOLDER FOR **Vibrasat® power**

Description

Holder for **Vibrasat® power** control device for attachment on the **Vacusat® power**

Article no. 00002283



OVERFLOW PROTECTION

Description

Overflow protection with room for hydrophobic filter

Article no. 00002299

■ Consumables



TUBE SET FOR **Liposat® power**

Description

Tube set consisting of:
tube set 1 – 1,500 mm lg.
tube set 2 – 2,500 mm lg.

Article no. 00002251



TUBE SET FOR **Liposat® basic**

Description

Tumescence tube set
4,050 mm lg.

Article no. 00002492



SUCTION TUBES

Description

Suction tube, mat.: PVC – (sterile) 10x16 mm in different types

with one red funnel:
3,000 mm lg.

Article no. 00002264

with two blue funnels:
3,000 mm lg.

Article no. 00002430



CONTAINER FOR DISPOSABLE BAG

Description

Container for disposable bags
Material: polycarbonate, autoclavable

Article no. 00002257



CANNULA CONNECTOR

Description

Connector for application of luer-lock-cannulae with **Vibrasat® power**

Article no. 00002482



DISPOSABLE BAGS

Description

Disposable bags for container, 3.0l
– unsterile –
green

Article no. 00002256



3-WAY AND 5-WAY TAPS

Description

3-way and 5-way taps with infusion tubes 80 cm lg. (sterile) in two different types:

3-way

Article no. 00002278

5-way

Article no. 00002279



BACTERIA FILTER

Description

Sterile exhaust air filter for **Vacusat® power**

Article no. 00002296

■ Single-use liposuction cannulae with plastic socket

Vibrasat liposuction cannulae
3-hole cannulae

Article no.	Ø in mm	Length in mm
00002855	4.00	250
00002856	4.00	350
00002857	3.00	250
00002858	3.00	350
00002859	2.50	150



Rapid Extraction cannulae
9-hole cannulae

Article no.	Ø in mm	Length in mm
00002893	4.00	250
00002892	4.00	350
00002891	3.00	250
00002890	3.00	350



Perspiratory glands cannula

Article no.	Ø in mm
00002889	3.00



■ Single-use liposuction cannulae with steel socket

Vibrasat liposuction cannulae
3-hole cannulae

Article no.	Ø in mm	Length in mm
00001534	4.00	250
00001535	4.00	350
00001536	3.00	250
00001537	3.00	350
00001538	2.50	150

Rapid Extraction cannulae
9-hole cannulae

Article no.	Ø in mm	Length in mm
00002325	4.00	250
00002326	4.00	350
00002323	3.00	250
00002324	3.00	350

Perspiratory glands cannula

Article no.	Ø in mm
00001599	3.00



■ Lipotransfer Cannulae

Removal cannula

Description

Cannula for removal of the fat (sterile)

Article no. 10001180



Scar cannula

Description

Cannula with V-shaped blade (sterile)

Article no. 10001181



Injection cannula 1

Description

Straight cannula to inserting of the fat (sterile)

Article no. 10001182



Injection cannula 2

Description

Cannula bended convex, for injection of the fat (sterile)

Article no. 10001183



Injection cannula 3

Description

Cannula bended concave, for injection of the fat (sterile)

Article no. 10001184



■ Accessories

Injection

Description

Injection sterile packed in 3 types: 1ml injection

Article no. 00002417

10 ml injection (B. Braun Omnifix)

Article no. 00002418

20 ml injection (B. Braun Omnifix)

Article no. 00002419

Injection stopper

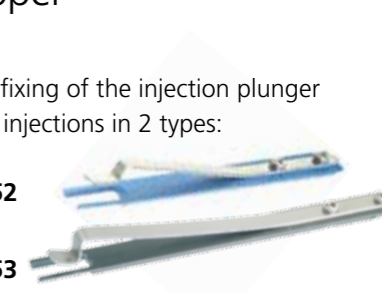
Description

Injection stopper for fixing of the injection plunger for B. Braun Omnifix injections in 2 types: for 10ml injection

Article no. 00002452

for 20ml injection

Article no. 00002453



Luer-lock adapter

Description

Luer-lock adapter (w/w)

Article no. 00002420



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