en

Instructions for use

# Vibrasat® power

**IMPORTANT**

READ CAREFULLY BEFORE USE

KEEP THESE INSTRUCTIONS FOR FUTURE CONSULTATION

# Manufacturer information

**Möller Medical GmbH**

Wasserkuppenstraße 29-31
36043 Fulda, Germany

Tel:  +49 (0) 661 94195 - 0
Fax: +49 (0) 661 94195 – 850

E-mail: info@moeller-medical.com
Internet: www.moeller-medical.com

# Table of Contents

**Table of Contents**

# 1 General safety instructions

## Explanation of safety symbols used

Important information is visually highlighted in the instructions for use. These references are prerequisites for preventing hazards to patients and operating personnel, as well as for avoiding damage to or malfunctioning of the device

**Symbols used in the instruction manual**

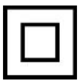
Caution

Information

**Symbols appearing on the device**

Type BF applied part

Refer to instruction manual/booklet



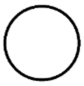
Class II equipment

Manufacturer

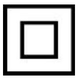

Serial number

Alternating current

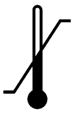
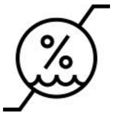
## General safety instructions

| | |
|---|---|
|  | “ON” (power) |
|  | “OFF” (power) |
|  | Return and disposal according to WEEE Directive |
|  | Start-stop key |
|   | SET button for service functions |
|  | Down button to reduce the number of strokes |
|  | Up button to increase the number of strokes |
| ℞ONLY | Attention: Under US Federal law, this device may be only sold to a physician or ordered by a physician. |

**Symbols on the packaging**

| | |
|---|---|
|  | Type BF applied part |
|  | Refer to instruction manual/booklet |
|  | Class II equipment |

## General safety instructions

| | |
|---|---|
|  | Manufacture |
| REF | Catalog number |
| SN | Serial number |
|  | Return and disposal according to WEEE Directive |
|  | Attention |
|  | Temperature limit |
|  | Humidity, limitation |
|  | Keep dry |
|  | Stacking limit, do not store more than 4 packs high |
|  | Use by<br>YYYY-MM-DD |
| LOT | Batch code |
| STERILE EO | Sterilized using ethylene oxide |

## General safety instructions

Do not re-use


Do not resterilise

Do not use if package is damaged


Contains or presence of phthalates


Attention: Under US Federal law, this device may be only sold to a physician or ordered by a physician.

Further information on the symbols used can be found on our homepage: www.moeller-medical.com/glossary-symbols

## Manufacturer's responsibility

The manufacturer can only be considered responsible for the safety, reliability and serviceability of the device, if repairs are carried out by persons that it has authorised. All work requiring the use of tools must be carried out by the technical service of the manufacturer.

The manufacturer agrees to take back used devices in accordance with the Electronic Equipment Act.

## Precautionary duties of the operator

The owner of the device must accept responsibility for the proper operation of the medical device. The user is obliged to fulfil all duties in accordance with the Medical Devices Directive and is fully responsible for all his activities when using medical devices.

Only qualified personnel may operate this device.
Read prior usage of this device the instruction manual carefully. Consider all instructions and warnings to avoid any insuries to you or the patient. Also ensure that you are familiar with the operation principle to the decvice and all its accessories. If you are not familiar with the operation principle please contact Möller Medical GmbH for additional training possibilities.
The device must not be operated if connected to mains power supplies that may not have a correctly functioning protective earth conductor. The supply voltage must match the de-

## General safety instructions

tails specified on the nameplate. No liquid must be allowed to penetrate live electrical components. Disconnect the device plug before cleaning.

Only plug in or unplug ***Vibrasat®* *power*** connectors (power cable, foot switch, hand grip) if the device is switched off. Only the supplied original parts may be used.

Position the ***Vibrasat® power*** so that it can be easily disconnected from the mains power supply.
Any modifications to the ***Vibrasat® power*** are prohibited.

A sterile suction tube should be inserted prior to each application in order to eliminate risk of infection. Do not bend inserted liposuction cannulas. Only use sterile Möller Medical GmbH liposuction cannulas.

Before the first use and after every use the hand grip must be prepared again as described on *page 22*.

The hand grip must be checked by Möller Medical GmbH's Service department after 200 autoclavings!

The operator must dispose of the device according to the relevant regulations and standards.

Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

## Non-Product Additional Equipment

Any additional equipment that is connected to the analogue and digital interfaces of the device must be proven to meet the requirements of the relevant EN specifications, (e.g. EN60950 for data processing devices, and EN60601 for electrical medical devices). All device configurations must also satisfy the applicable version of the electrical system safety standard EN60601-1. Any operator connecting the additional devices is the system configurer and is therefore responsible for ensuring that the system safety standard EN60601-1 is upheld. In the event of queries, please contact the manufacturer.

## Single use

The reuse of single-use articles involves a potential risk of infection for the patient or operator. Contaminated articles can cause damage to health, disease or even death of the patient. Cleaning, disinfection or sterilisation can adversely affect essential material properties and product parameters and thus result in article failure.
Dispose of used single-use articles according to hygiene regulations.

## Warning Section

This device will not, in and of itself, produce significant weight reduction.

This device should be used with extreme caution in patients with chronic medical conditions, such as diabetes, heart or lung disease, circulatory diseases or obesity.

The volume of blood loss and endogenous body fluid may adversely affect intra and/or postoperative hemodynamic stability and patient safety. The capability of providing adequate, timely fluid replacement is essential for patient safety.

## Precautions Section

This device is designed to contour the body by removing localized deposits of excess fat through small incisions. Use of this device is limited to those physicians who, by means of residency training or sanctioned continuing medical education, have demonstrated proficiency in suction lipoplasty.
Results of this procedure will vary depending upon patient age, surgical site, and experience of the surgeon. Results of this procedure may or may not be permanent. The amount of fat removed should be limited to that necessary to achieve a desired cosmetic effect.
All reusable components of the device must be sterilized and all disposable components replaced before using the device system on another patient.

⚠ After an autoclave cycle of the ***Vibrasat® power*** handpiece ensure that the handpiece is fully cooled down before continue of operation. This is due to avoidance of excessive wear or fatigue of the handpiece

# 2 Intended use (purpose)

The ***Vibrasat® power***, which consists of a control unit and a handle with connection cable and induces cannulas in vibration, has the purpose of aesthetic body contouring and is used in particular to support the hand movement of the user.
The ***Vibrasat® power*** may only be used in conjunction with the Möller Medicals's liposuction cannulas.

## Contraindication

### Absolute contraindications

- Known allergies to anaesthetics or local anaesthetics of tumescence anaesthesia

### Relative contraindications

- Known tendency to spasms (epilepsy)
- Taking of coagulation inhibiting medicines
- Too high expectations of the patient on the outcome of the operation
- Severe heart conditions
- Severe lung conditions
- Severe liver damage
- Severe kidney damage
- Risk of thrombosis (thrombophilia)

## Essential features

The ***Vibrasat® power*** has no essential performances.

# 3 Product description

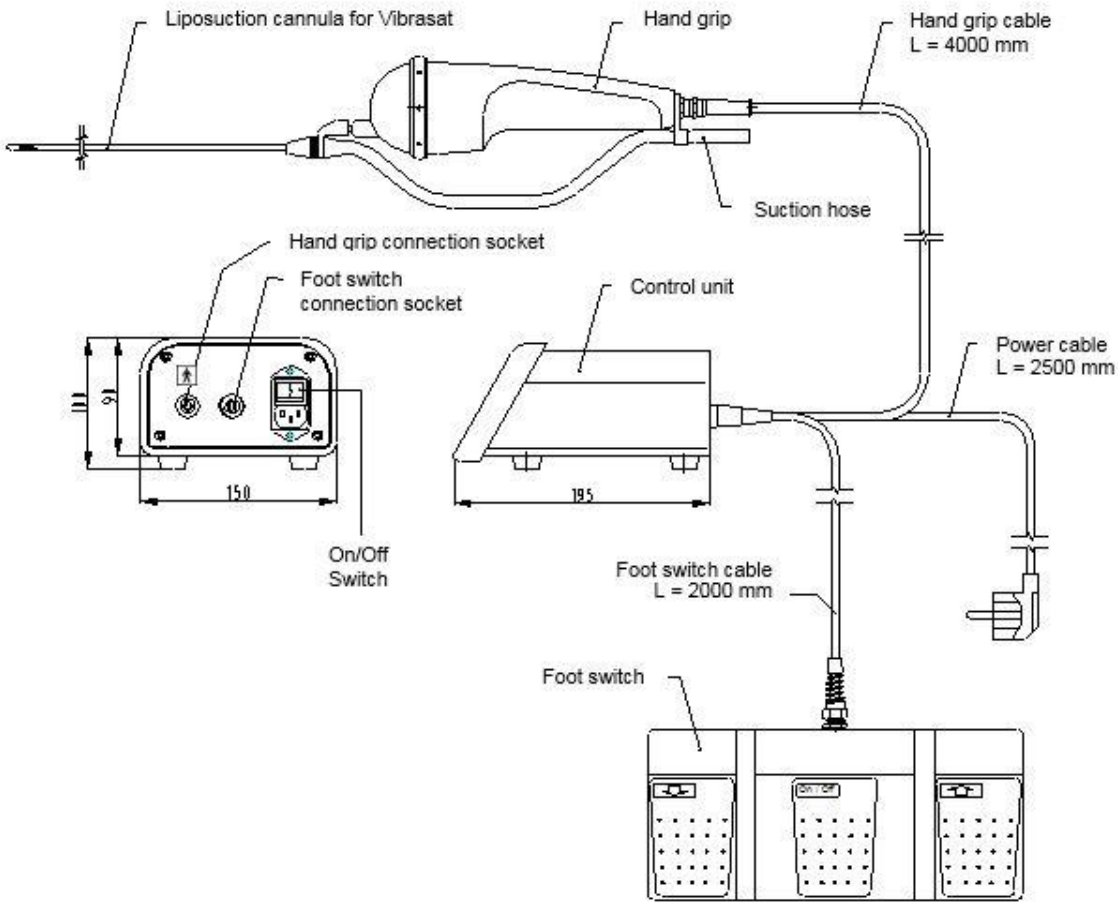
Each use of the device requires precise knowledge of and compliance with this instruction for use. This instruction for use is not intended to replace instruction of the user by the medical device consultant. The device must be used only by persons who have the required training or knowledge and experience. (§2 Sect. 2 Regulations on Sale of Medical Devices).

⚠

Only use the supplied original parts (e.g. power cable, hand grip and foot switch).

Use of components not corresponding to the original design may impair performance and safety.

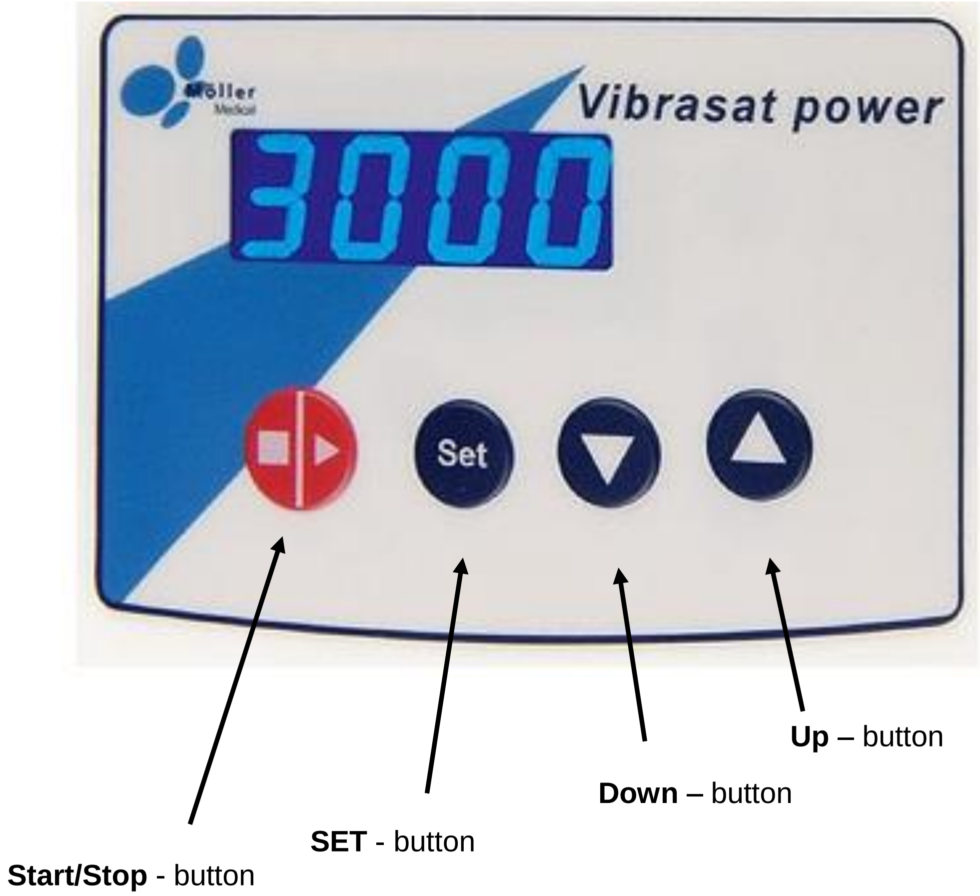
## Structure



## Application description of the Vibrasat® power

The device is switched on using the On/Off switch on the device's reverse side via the primary voltage.

After the display test, the last set stroke rate value (strokes per minute) appears in the display. The last set stroke rate value is always retained when switching the device on and off.

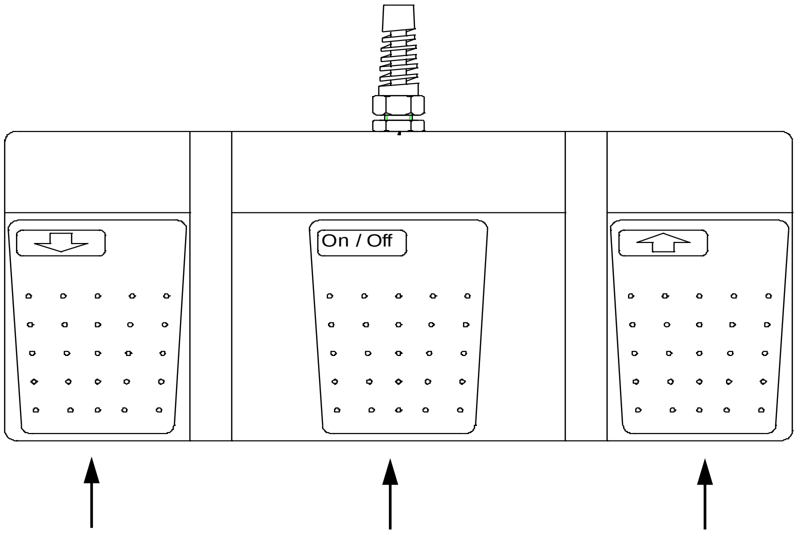



The stroke rate can be set using the “Down – button" or "Up – button".
Adjustment takes place in steps of one hundred.

The stoke rate can be set in the range from 3000 to 5000 strokes per minute.
The stroke rate can be adjusted in both stationary and vibrating mode.

## Three-pedal foot switch

The 3-pedal foot switch connected to the back of the device can be used to perform the same stroke rate adjustment functions. The foot switch has the same functions as the "Up", "Down" and "Start/Stop" buttons.




**Down** – button **Start/Stop** - button **Up** – button

The device is started or stopped with the "Start-stop" button at the control unit or with the 3-pedal foot switch. The device is switched off using the On/Off switch at the back of the control device.

The ***Vibrasat® power*** is maintenance-free. Before first use prepare the control unit according to hygiene guidelines. Only mild detergents / disinfectants (e.g. 70% alcohol) may be used for cleaning the control unit.

## Liposuction cannulae

The handgrip must only be used in combination with tested and approved cannulas by Möller Medical.

# 4 Installation and commissioning

## Transport and storage information

In order to avoid damage to device and other materials when transporting the device, it is imperative to observe the following safety information.

- It is imperative to observe transport information on the packaging.
- Observe prescribed storage conditions.
- Observe prescribed stacking height. Parts stacked too high can collapse.

When transporting, do not stack more than 4 cartons above one another.

The external packaging is a folding corrugated cardboard box. The internal packaging is made from polyethylene foam rubber.

Fire hazard due to easily inflammable packaging material. Do not employ open fire and do not smoke!

**Dimensions of Vibrasat® power**

| | |
|---|---|
| with packaging | 420 mm * 390 mm * 230 mm |
| Weight | approx. 5 kg |

**Transport - storage conditions**

| | |
|---|---|
| Temperature | -10 °C to +50 °C (14 °F to 122 °F) |
| Humidity | less than 90% rel. humidity |

It is advisable not to dispose of the packaging and to use it again if servicing is required.

## Unpacking the device and checking the deliver

The ***Vibrasat® power*** delivery always consists of one carton

Ensure that the packaging is delivered undamaged.

Transportation damage should be reported immediately to the carrier.

When unpacking ***Vibrasat® power***, ensure that no parts remain in the package.

The scope of delivery comprises (1 item each):

- Control unit
- Power cable
- Three-pedal foot switch
- Hand grip with connecting cable
- Instructions for use "German"
- Instructions for use "English"
- **Vibrasat®** liposuction cannulae

## Suitable operating environment

The ***Vibrasat® power*** is suitable for environments in the following areas:

- Professional healthcare facilities with specific requirements

  Clinics (rooms in A+E, hospital rooms, intensive care, operating theatres, except for in the proximity of active facilities of RF surgery devices or outside of the RF-shielded room for magnetic resonance imaging, first aid facilities).

The ***Vibrasat® power*** is not approved for use in aircrafts or military applications. The appropriate EMC requirements for these environments have not been tested.

## Assembly

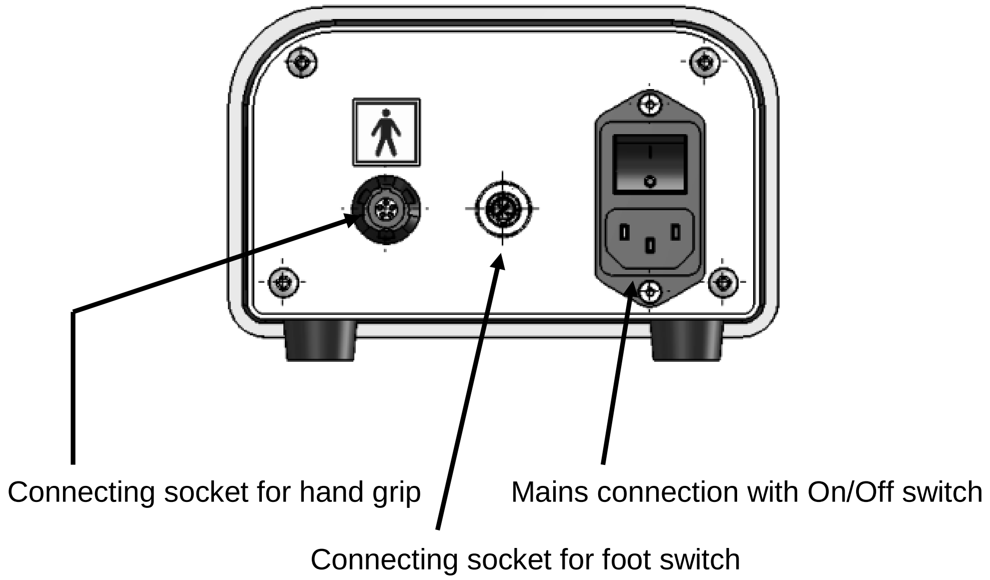
Prior operation ensure that the device is cleaned and sterilsed in accordance with the cleaning instructions, see chapter “Handle Preprocessing” page 22. The control unit has to be cleaned in accordance to the hygenic standards. Mild detergents / disinfection fluids (e.g. 70% based alcohol) are recommended.

The ***Vibrasat® power*** must be safely positioned in a suitable location.
Please proceed in the stipulated sequence:

- Remove the device from the package and place it in a suitable, stable location.
- Now remove the hand grip with the connecting cable from the carton. Insert the connecting plug of the hand grip into the connecting socket at the back ***Vibrasat® power***.
- Now remove the three-pedal foot switch from the package and also connect it to the back of the device.
- Finally, insert the power cable into the back of ***Vibrasat® power*** casing and into a socket with connected protective earth conductor. Observe the voltage indicated on the identification plate.
- Consider not to stack or place other devices in the near vincinity as this may result in malfunction of the ***Vibrasat® power*** or the other devices. If not possible test and observe the function of the ***Vibrasat® power*** and the other devices for correct function.
- It is not allowed to operate the ***Vibrasat® power*** with HF chirugy devices.

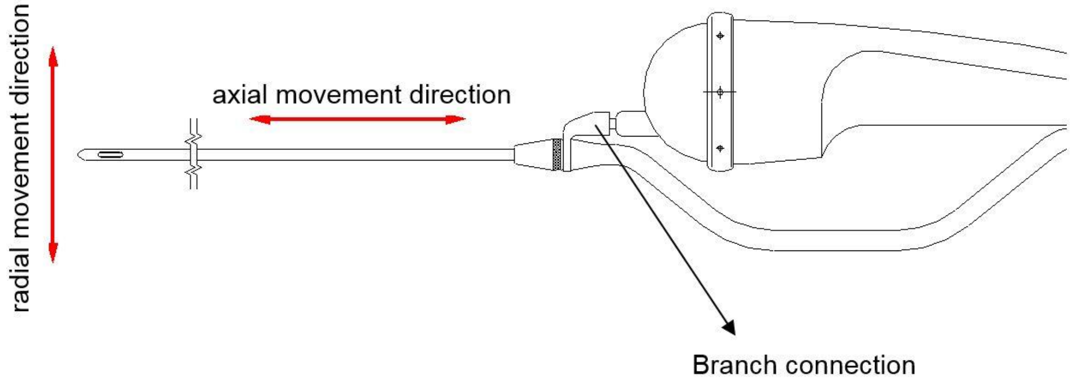
Switch the device on ready for use with the On/Off switch. For operating instructions refer to *chapter 5* of this manual.

## Device connections




Please always observe:

- Only apply forces to the hand grip in its axial movement direction.
- Radial force will cause the device to switch off for safety reasons.
- Stronger radial forces will damage the hand grip.
- Strong forces will damage the hand grip at the branch connection (connection for suction tube and liposuction cannula).
- The branch connection is attached to the hand grip and <u>not</u> adjustable.

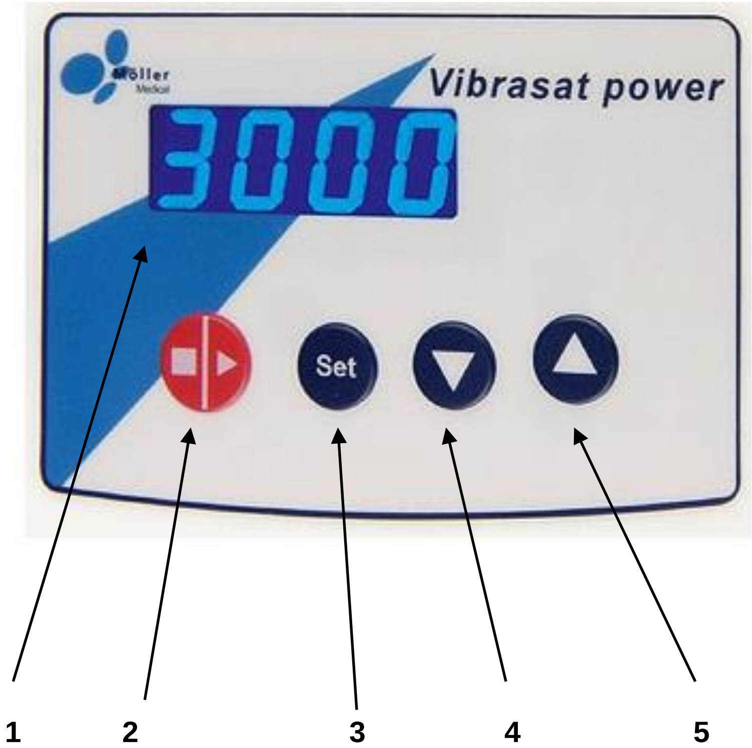


# 5 Operation

## Description of user for *Vibrasat® power*

Any use of the device requires precise knowledge of and compliance with the instructions for use.
This instruction for use is not a replacement for user instruction.
Only qualified personnel may operate this device.

## Description of the operating elements




1 **Segment display** of set stroke rate/min

2 **Start/Stop button**

3 **SET button** for service functions

4 **Down button** for decreasing stroke rate

5 **Up-button** for increasing stroke rate

# 6 Handle reprocessing

See separate instructions:

Reprocessing of the handgrip ***Vibrasat®*** ***power*** REF 93006873

# 7 Troublesshooting

***Vibrasat® power*** may not be opened by the operator!

This chapter identifies some possible problems in connection with ***Vibrasat® power***.

Several possible solutions are listed for each problem. The first proposed solution is generally the most suitable. If the problem is not resolved, work through the proposed solutions in the order listed until the fault is rectified.
Always switch off ***Vibrasat® power*** when removing or attaching connectors.
If this does not remove the error, please contact the Möller Medical GmbH service division (service@moeller-medical.com).

| Problem | Solution |
|---|---|
| No function;<br>display is off. | The device is not switched on or incorrectly connected to power supply.<br>Insert power cable correctly into the socket then plug into the ***Vibrasat® power*** and switch on the mains switch.<br>Check power supply, switch on any multiple sockets, check input leads.<br>If these possibilities can be excluded, the error must be corrected by the service centre. |
| Follower drive without function | Connecting cable of the hand grip is not connected. |
| Foot switch does not react | Connecting cable of the foot switch is not connected. |
| | **If these measures do not eliminate the problem, the device should be checked by Möller Medical GmbH service personnel.** |

If you cannot resolve a problem using the above measures, contact the responsible Möller Medical GmbH service centre.

# 8 Service

Prior to disposal or return of the ***Vibrasat® power***, it must undergo a suitable disinfection procedure to exclude possible risk of infection.

Consumable materials should be disposed of in accordance with hygiene guidelines.

Service information:

<u>Never</u> open the device when it is connected to the mains power supply. Note that even when disconnected from the mains, internal parts of the device may still be electrically live.

**Möller Medical GmbH service center:**

**Möller Medical GmbH**

Wasserkuppenstraße 29-31
36043 Fulda, Germany

Tel: +49 (0) 661 94195 - 0
Fax: +49 (0) 661 94195 - 850

E-Mail: info@moeller-medical.com

Online: www.moeller-medical.com

**Service**

Tel: +49 (0) 661 94195 - 108

Fax: +49 (0) 661 94195 - 850

E-Mail: service@moeller-medical.com

# 9 Recurring safety inspections

***Vibrasat® power*** must be subjected to safety inspections at least every 12 months.

Service must immediately repair the device if it is inoperable or unreliable.

The safety inspections can be performed by the Service department of Möller Medical GmbH (service@moeller-medical.com).

# 10 Disposal

The present device contains material which must be disposed in accordance with environmental regulations. This device is subject to the European Directive 2012/19/EU on Waste Electric and Electronic Equipment (WEEE2). The identification plate of the device bears the symbol of the crossed through garbage bin.

Return devices which are no longer used to Möller Medical GmbH. This ensures that the device is disposed in compliance with the national requirements of the WEEE Directive.

# 11 Appendix

## Technical Data

**Artikel-Nummer:**

| | |
|---|---|
| ***Vibrasat® power*** with hand grip compl. packaged | 00002246 |
| Hand grip compl. packaged | 00002327 |
| **Dimensions:** | |
| Control unit | (B*H*T) = 150 mm * 100 mm * 200 mm |
| Hand grip | ( ø * L ) = 55 mm * 180 mm |
| **Weight** | |
| Control unit | 2,80 kg |
| Hand grip | 0,75 kg |
| **Surface temperature applied part:** | |
| Hand grip | < 48 °C |
| **Electrical connection:** | |
| Voltage | 100 – 240 V AC (Wechselspannung) |
| Frequency | 50 Hz – 60 Hz |
| Current consumption | 1,6 bis 0,6 A |
| Protection class | II |
| Applied parts BF: | Hand grip ***Vibrasat® power*** - REF 00002327 |
| | Cannulas ( see table page 30, 31) |
| **General characteristics:** | |
| Minimum operating life | 8 years |
| **Operating conditions:** | |
| Temperature | +10 °C to + 25 °C (50 °F to 77 °F) |

## Appendix

| | |
|---|---|
| Humidity | 30 to 75 % rel. humidity |

**Transport and storage conditions:**

| | |
|---|---|
| Temperature | 10 °C to +50 °C (14 °F to 122 °F) |
| Humidity | less than 90% rel. humidity |

**Protection rating:**

| | |
|---|---|
| Control unit | IP 30 |
| Hand grip | can be steam sterilised |

## Accessories of the Vibrasat® power

- **Fastening kit**
  for retaining the ***Vibrasat® power***
  on the suction unit
  ***Vacusat® power***.

  **Order no.: 00002283**

- **Handgrip**
  Ergonomic manual hand piece for
  **Vibrasat®** suction cannulas, aluminium anodised, natural colour

  **Order no.: 00002254**


- **Electrical foot switch (2 m cable)**
  with start / stop function

  **Order no.: 93003545**

- **Electrical foot switch (5 m cable)**
  with start / stop function

  **Order no.: 00003982**


- **Three-button foot switch (2 m cable)**
  with start / stop function

  **Order no.: 93003517**

- **Three-button foot switch (5 m cable)**
  with start / stop function

  **Order no.: 00003981**

## Liposuction cannulas with steel socket (surgical stainless steel)

- **Vibrasat® liposuction cannulas (3-hole cannulas)**
  - Ø = 2.5 mm, Length = 150 mm **Order no.: 00001538**
  - Ø = 3.0 mm, Length = 250 mm **Order no.: 00001536**
  - Ø = 3.0 mm, Length = 350 mm **Order no.: 00001537**
  - Ø = 4.0 mm, Length = 250 mm **Order no.: 00001534**
  - Ø = 4.0 mm, Length = 350 mm **Order no.: 00001535**
- **Rapid extraction cannulas (9-hole cannulas)**
  - Ø = 3.0 mm, Length = 250 mm **Order no.: 00002323**
  - Ø = 3.0 mm, Length = 350 mm **Order no.: 00002324**
  - Ø = 4.0 mm, Length = 250 mm **Order no.: 00002325**
  - Ø = 4.0 mm, Length = 350 mm **Order no.: 00002326**

**Appendix**

## Liposuction cannulas with plastic socket

- **Vibrasat® liposuction cannulas (3-hole cannulas)**
  - Ø = 2.5 mm, Length = 150 mm **Order no.: 00002859**
  - Ø = 3.0 mm, Length = 350 mm **Order no.: 00002858**
  - Ø = 4.0 mm, Length = 250 mm **Order no.: 00002855**
  - Ø = 4.0 mm, Length = 350 mm **Order no.: 00002856**

- **Rapid extraction cannulas (9-hole cannulas)**
  - Ø = 3.0 mm, Length = 250 mm **Order no.: 00002891**
  - Ø = 3.0 mm, Length = 350 mm **Order no.: 00002890**
  - Ø = 4.0 mm, Length = 250 mm **Order no.: 00002893**
  - Ø = 4.0 mm, Length = 350 mm **Order no.: 00002892**

### Perspiratory glands cannula with steel socket

- Ø = 3.0 mm **Order no.: 00001599**

### Perspiratory glands cannula with plastic socket

- Ø = 3.0 mm **Order no.: 00002889**

### Sterile suction tube

- Ø = 16 mm, Length = 3 m **Order no.: 00002264**

## Electromagnetic emission

The ***Vibrasat® power*** is intended for the use in the electromagnetic environment as specified below. The customer and/or operator of the ***Vibrasat® power*** should ensure that the ***Vibrasat® power***
is used in an electromagnetic environment as described below.

| **Measurement of electromagnetic interference** | **Compliance** | **Electromagnetic environment - guidelines** |
|---|---|---|
| RF electromagnetic interference acc. to CISPR 11 | Group 1 | The ***Vibrasat® power*** uses HF- energy for internal use only. The energy of the internal HF fields are keept to a minimum. It is very unlikely that other electronic decices in it´s vincinity are disturbed by the ***Vibrasat® power***. |
| RF electromagnetic interference acc. to CISPR 11 | Class B | For suitable operating areas please refer to chapter “Suitable operating environment . |
| Harmonic emissions acc. to IEC 61000-3-2 | Class A | |
| Voltage fluctuations/flicker acc. to IEC 61000-3-3 | Complies | |

# Electromagnetic immunity

| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment / guidelines |
|---|---|---|---|
| Electrostatic discharge (ESD)<br>IEC61000-4-2 | ±8 kV contact discharge<br><br>±15 kV air discharge | ±8 kV contact discharge<br><br>±15 kV air discharge | Floors should be from wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%. |
| Fast transient electric disturbance/burst<br>IEC 61000-4-4 | ±2 kV for power supply lines<br><br>±1 kV for input/output lines | ±2 kV for power supply lines<br><br>±1 kV for input/output lines | Mains power quality should be that of a typical commercial or hospital environment. |
| Surges<br>IEC 61000-4-5 | ±1 kV differential mode<br><br>±2 kV common mode | ±1 kV differential mode<br><br>±2 kV common mode | Mains power quality should be that of a typical commercial or hospital environment. |
| Voltage dips, short interruptions and voltage variations on power supply input lines<br>IEC 61000-4-11 | < 5 % $U_T$<br>(> 95 % dip in $U_T$)<br>for 1 cycle<br><br>40 % $U_T$<br>(60 % dip in $U_T$)<br>for 5 cycles<br><br>70 % $U_T$<br>(30 % dip in $U_T$)<br>for 25 cycles<br><br>< 5 % $U_T$<br>(> 95 % dip in $U_T$)<br>for 5 sec | < 5 % $U_T$<br>(> 95 % dip in $U_T$)<br>for 1 cycle<br><br>40 % $U_T$<br>(60 % dip in $U_T$)<br>for 5 cycles<br><br>70 % $U_T$<br>(30 % dip in $U_T$)<br>for 25 cycles<br><br>< 5 % $U_T$<br>(> 95 % dip in $U_T$)<br>for 5 sec | Mains power quality should be that of a typical commercial or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device is powered from an uninterruptible power supply. |
| Power frequency (50/60 Hz) magnetic field<br>IEC 61000-4-8 | 30 A/m | 30 A/m | Power frequency magnetic fields should be acc. To the typical values of a commercial or hospital environment. |
| Note: $U_T$ is the AC mains voltage prior to application of the test level. | | | |

## Appendix

The ***Vibrasat®*** ***power*** complies to all test levels in accordance to IEC60601-1-2 Edition 4 (table 4 to 9).

Portable RF communications equipment (radio devices) (including their accessories such as antenna cables and external antennas) should not be used closer than 30 cm (or 12 inches) from the parts and cables of the ***Vibrasat®*** ***power*** indicated by the manufacturer. Non-observance may result in a reduction of the device's performance.

Combination of the ***Vibrasat®*** ***power*** with power cords or transformers that are not tested or certified with the ***Vibrasat®*** ***power***, may result in higher electromagnetic emission or interference of the device. This increases the risk of both reversible or non-reversible malfunction of the ***Vibrasat®*** ***power***.

The requirements for the use in the areas of aviation, transportation and military have not been taken into account as they have not been tested.

## Appendix

<table>
<tr><th>Electromagnetic immunity test /standard</th><th>IEC 60601-1-2<br>test level</th><th>Compliance level</th><th>Electromagnetic environment / guidelines</th></tr>
<tr><td>Conducted RF acc. to IEC 61000-4-6</td><td>3 $V_{rms}$<br>150 kHz bis<br>30 MHz<br><br>6 $V_{rms}$ in ISM and amateur radio frequency bands between 150 kHz und 80 MHz</td><td>3 $V_{rms}$<br><br>6 $V_{rms}$</td><td rowspan="2">Portable and mobile RF communications equipment should be used no closer to any part of the Vibrasat® power, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.<br><br>Recommended separation distance:<br><br>$d=1,2\sqrt{P}$ for 80 MHz to 800 MHz<br><br>$d=2,3\sqrt{P}$ $d = 2,3\sqrt{P}$ for 800 MHz to 2.5 GHz<br><br>Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m).<br><br>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey[a)] should be less than the compliance level in each frequency range[b)].<br><br>Interference may occur in the vicinity of equipment marked with the following symbol:<br><br></td></tr>
<tr><td>Radiated RF acc. to IEC 61000-4-3</td><td>3 V/m<br>80 MHz to<br>2,7 GHz<br><br>Tabelle 9 of IEC 60601-1-2 Ed. 4</td><td>3 V/m<br>80 MHz to<br>2,7 GHz<br><br>Tabelle 9 of IEC 60601-1-2 Ed. 4</td></tr>
<tr><td colspan="4">Note:<br><br>NOTE 1: At 80 MHz and 800 MHz the higher frequency range applies.<br><br>NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection by structures, objects and people.</td></tr>
<tr><td colspan="4">[a)] Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radios, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Vibrasat® power is used exceeds the applicable RF compliance level above, the Vibrasat® power should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Vibrasat® power.<br><br>[b)]Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.</td></tr>
</table>

## Recommended protective distances

Refer to chapter “*Electromagnetic immunity*“.

# 12 Liposat power configuration

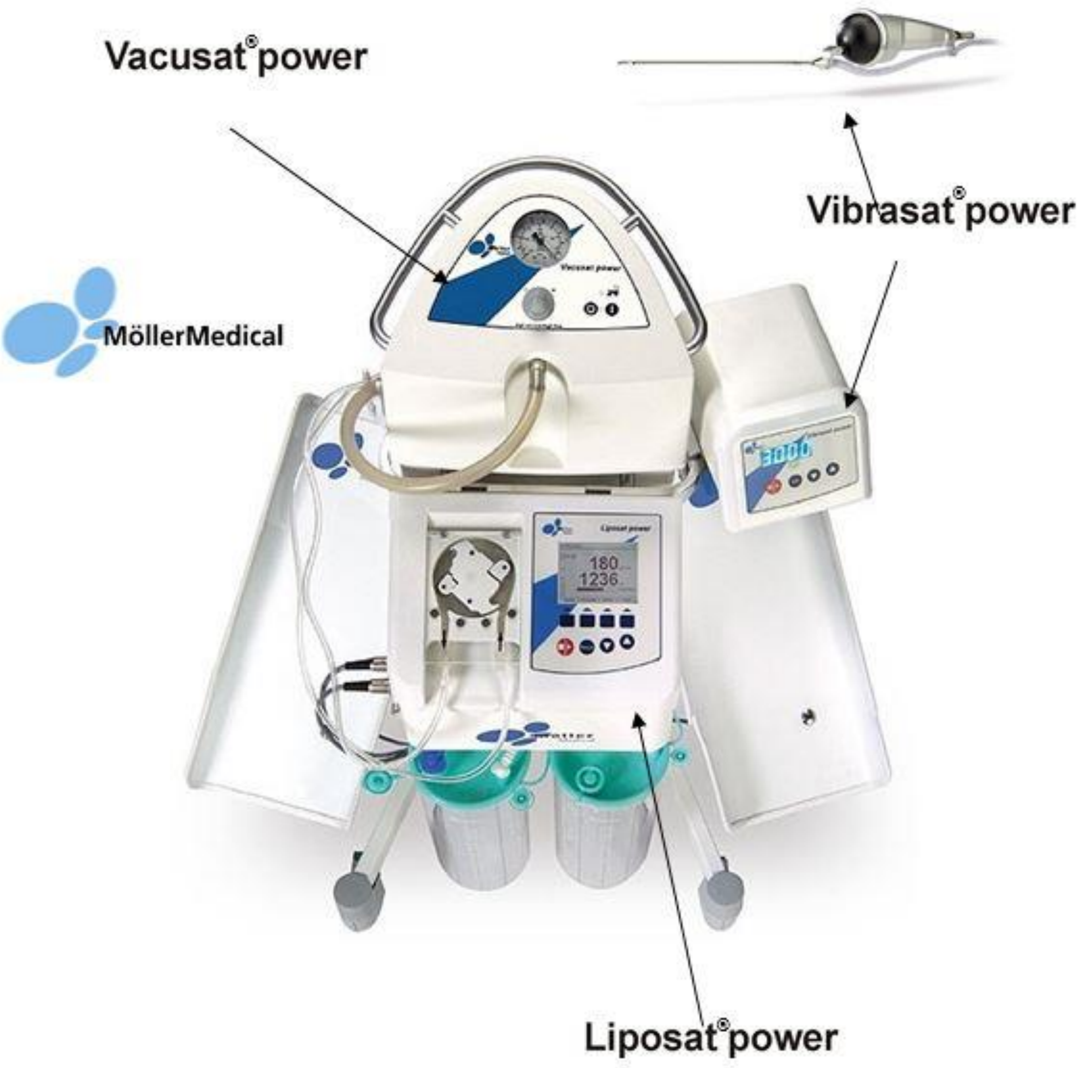
**Liposat® power configuration** is the medical complete system for tumescence local anaesthesia consisting of:

**Liposat® power** - the medical infiltration pump for tumescence solution

**Vacusat® power** - medical vacuum extractor

**Vibrasat® power** - the vibration drive system for liposuction cannulas

as well as all accessories for local tumescence anaesthesia.



Current revision 2020-03 O
Software version 18.02.02

CE 0482

Order number for
Instruction manual
(REF) 92007181

Möller Medical GmbH
Wasserkuppenstrasse 29-31
36043 Fulda, Germany

Tel. +49 (0) 661 / 94 19 5 – 0
Fax +49 (0) 661 / 94 19 5 – 850
http://www.moeller-medical.com
info@moeller-medical.com

MöllerMedical