

Instructions

for the

Battery Pack (accumulator) 73-4127 for MiniVent or MidiVent

Version 5.0

Date: Jan 2023 PP/TB

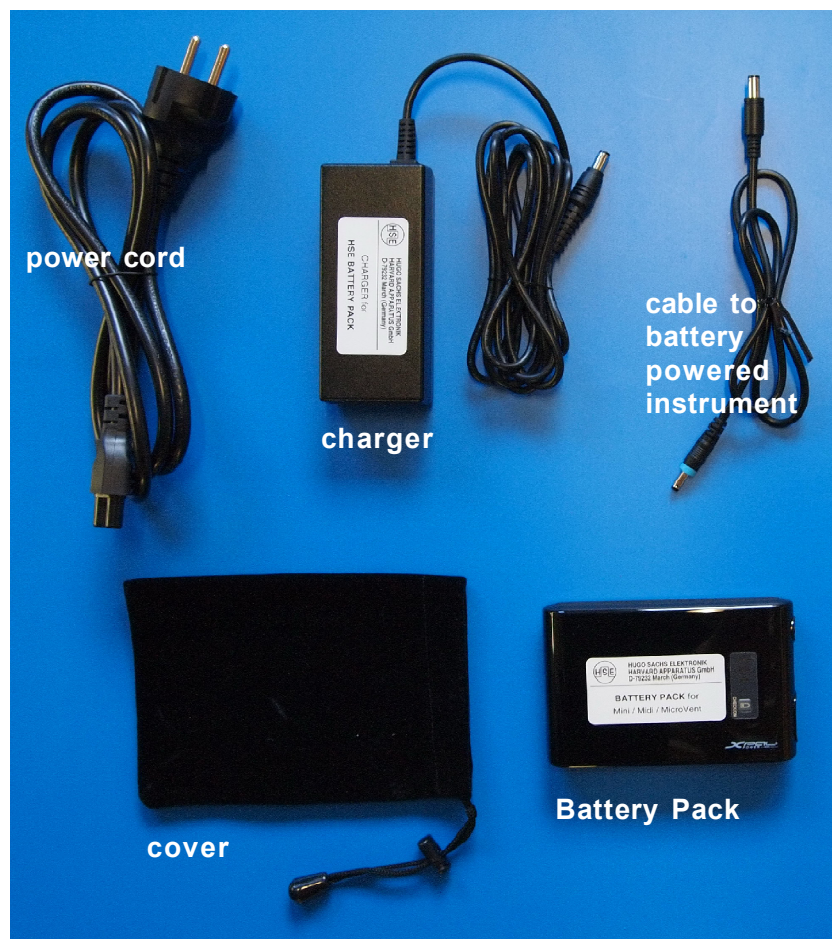




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1. Introduction, manufacturer's details

These Operating Instructions describe the function and use of the Battery-Pack and the charger for the following instruments: MiniVent, MidiVent. The manual is a part of the instrument and has to be kept close to it.

All the information in these Instructions has been drawn up after careful examination but does not represent a warranty of product properties. Alterations in line with technical progress are reserved.

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1.2 Trademarks

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2. Safety note

Warning: This equipment is designed for use in general laboratories, light industrial and office environments. Operation in hazardous areas and/or in a flammable atmosphere is not permitted.

3. General Description, Application

The battery pack for the MiniVent or MidiVent is used to run the unit independent from a power supply. This may be necessary if e.g. the surgery and the experiment have to be performed in different rooms and the animal or organ must be transported under continuously ventilation or perfusion.

The battery pack is connected to the MiniVent or MidiVent through the short cable.

It is possible to charge the battery while connected to the instrument. The power supply charges the battery and provides the power for the instrument.

The charging process is indicated by blue LEDs. If all LEDs light up blue the battery is fully charged

The battery pack can be connected any time to the charger. An intergrated electronic charges the battery and provides overloading.

If you disconnect the charger from the battery pack the instrument works without interruption on the battery.

To check charging just press the "Check" button.

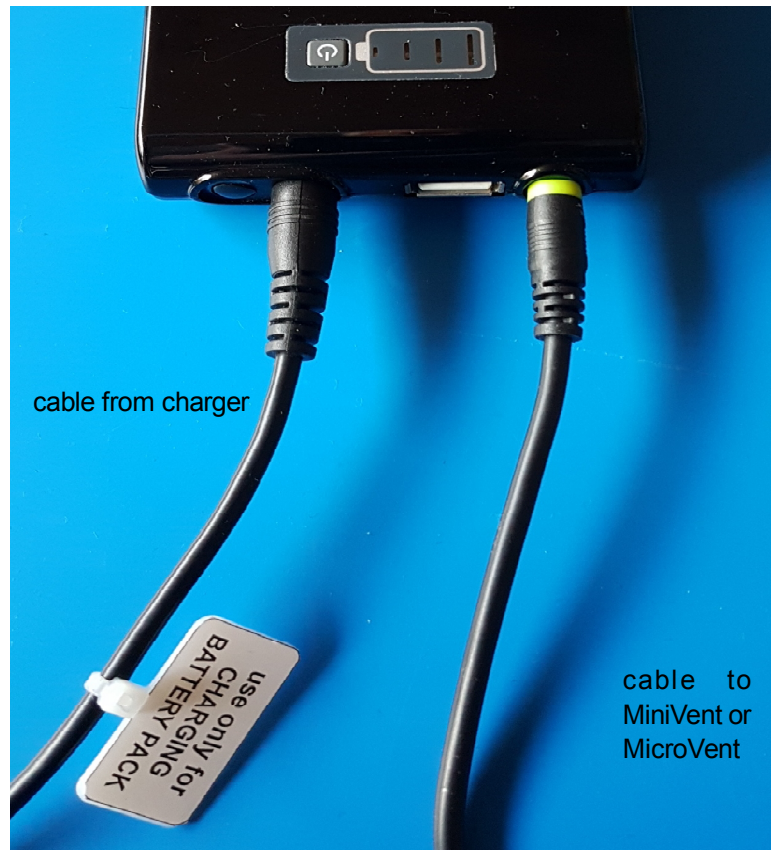
Don't connect the charger for the Battery pack directly on the MiniVent/MidiVent !!!

MiniVent with Battery pack 73-4127



Battery pack with charger

4. Battery pack connections



The battery pack can provide 2 voltages, USB 5V plus 12V

The USB socket can be used to supply instruments which are charged via an USB port and USB Kabel.

The maximal current is limited to 100mA.

The following instruments can be connected to the 12V socket:

MiniVent, MidiVent

If you press "Check" the charging state is displayed, the blue LEDs light up if you press the button.

The battery pack (accumulator) has a built-in charging and discharging electronic for optimized handling of the battery cells. The charging and discharging process is continuously checked and switched off if something is not correct. It is possible to charge the battery pack while the ventilator is working.

The battery pack has a short circuit protection and a "high temperature switch off".



Input from charger

USB port to supply 5V to USB devices

OUTPUT to supply
MiniVent or MidiVent

During charging the blue LED lights are blinking.
If they light permanently the accumulator is fully charged.

With the "CHECK" button you can check the charging state. The LEDs below show the charging capacity.

4.1 Charger

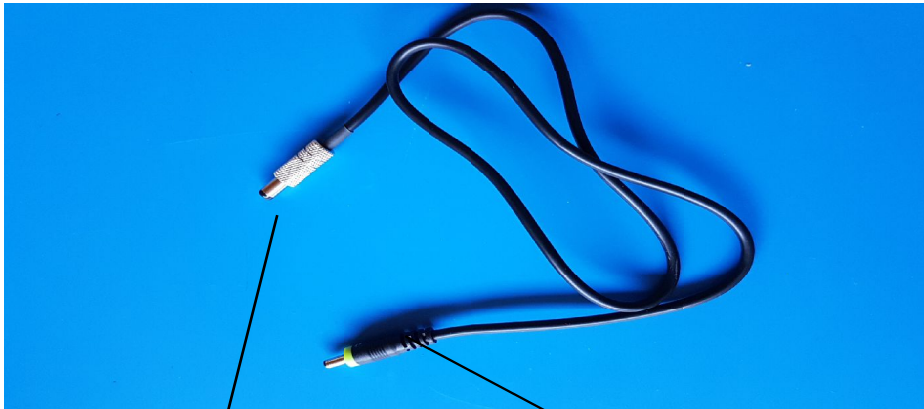
The battery pack is charged by this special charger. It is a high quality switching power supply which is short circuit and overload protected. Due to the different line connectors it can be used world wide with AC voltages between (100 – 240 V AC).

Don't connect the charger for the Battery pack directly to the MiniVent / MidiVent !!!



5. Operation

Connection cable to Ventilators



Connector fitting to
Minivent or Microvent

Connector fitting to
Battery pack

To connect the MiniVent or MidiVent please use only the above showed delivered connection cable.

The cable has connectors with differnt size.

Connect the cable with the green connector to the OUTPUT socket of the battery pack.

The connector with the larger connector fits to the MiniVent or MicroVent

6. Environment protection

Rechargeable batteries are not to be disposed in domestic waste. Return used batteries to your dealer or to a battery recycling collection point.



7. Experiences about the time you can use the instrument on the battery pack

MiniVent approx.. 16 h

MidiVent approx. 16 h



8. Maintenance

The battery pack does not need special maintenance. The connectors should not get wet or come into contact with saline solutions. The battery pack should be charged not too often but always carefully.

9. Technical Specifications

Battery Pack:

integrated Lithium-Polymer LiPo-Accumulator 8000mAh

Inputs Voltage 19V DC use only delivered charger

Output voltages USB: 5 V DC 1000mA / 12V 2000mA

Working temperature -10°C ... +45°C at max. 85% relative humidity

Weight approx. 240 g

Size in in mm (WxHxD) 75 x 27,5 x 193

Charger:

Input Voltage: 110 to 240 VAC 50/60 Hz

Output Voltage: 19V 3,42 A

Working temperature -10°C ... +45°C at max 85% relative humidity

Weight approx 219 g

Size in mm (WxHxD) 106 x 48 x 30

