

Gebrauchsanleitung | Operating manual |
Mode d'emploi | Instrucciones de manejo |
Istruzione | 操作手册



accu-jet® S

Pipettierhelfer | Pipette controllers

Impressum

BRAND GMBH + CO KG

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Languages

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EG-Konformitätserklärung EC-Conformity Declaration

Handelsname des Produktes /
Trade name of the device: Pepettierhelfer accu-jet® S (inkl. Netzteil) /
Pipetting aid accu-jet® S (incl. Charging adapter)

Produktvarianten /
Device variations:

Art.-Nr. / Cat.-No.: 26350, 26351, 26352, 26353, 26360, 26361, 26362, 26363

Hersteller / Manufacturer: BRAND GMBH + CO KG
Otto-Schott-Str. 25
97877 Wertheim · Germany

Wir als Hersteller übernehmen die alleinige Verantwortung für das/die oben beschriebene Produkt(e) und erklären hiermit, dass das/die beschriebene(n) Produkt(e) der/den folgenden Richtlinie(n)/Verordnung(en) entspricht/entsprechen: We, as the manufacturer of the above described device(s) take sole responsibility for and hereby declare that the described device(s) meet(s) the provisions of the following Regulation(s)/Directive(s):	Angewendete harmonisierte Normen: Applied harmonized standards:
RoHS: 2011/65/EU incl. 2015/863/EU (Fst.: Ref. /Abl. L174, 1.7.2011, S. 88-110; OJ L174, 1.7.2011, p. 88-110) (Fst.: Ref. /Abl. L137, 4.6.2015, S. 10-12; OJ L137, 4.6.2015, p. 10-12)	EN IEC 63000:2018
EMC: 2014/30/EU (Fst.: Ref. /Abl. L96, 29.3.2014, S. 79-106; OJ L96, 29.3.2014, p. 79-106)	EN 55032:2012 EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61326-1:2013
LVD: 2014/35/EU (Fst.: Ref. /Abl. L96, 29.3.2014, S. 357-374; OJ L96, 29.3.2014, p. 357-374)	EN 62368-1:2014 EN 61010-1:2010, EN 61010-1:2010/ A1:2019/AC:2019-04, EN 61010-1:2010/A1:2019

Wertheim, 29. Juni 2021 / June 29, 2021

01.02.01.02

Patrick Ziemeck
Technischer Geschäftsführer
Managing Director Technology

i.A. Siegfried Ott
Regulatory Affairs



Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Harmonisierungsvorschriften,
beinhaltet jedoch keine Zusicherung von Eigenschaften.

This document declares the accordance with the named harmonized specific propriety

UK Declaration of Conformity

Trade name of the device: Pipetting aid accu-jet® S (incl. Charging adapter)

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We, as the manufacturer of the above described device(s) take sole responsibility for and hereby declare that the described device(s) meet(s) the provisions of the following Regulation(s)/Directive(s):	Applied harmonized standards:
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012	EN IEC 63000:2018
Electromagnetic Compatibility Regulations 2016 (SI 2016 No. 1091, as amended by SI 2019 No. 696)	EN 61326-1:2013 EN 55032:2012 EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013
Electrical Equipment (Safety) Regulations 2016 (SI 2016 No. 1101, as amended by SI 2019 No. 696)	EN 61010-1:2010, EN 61010-1:2010/ A1:2019/AC:2019-04, EN 61010-1:2010/ A1:2019 EN 62368-1:2014

Wertheim June 10, 2021

01.02.01.03



Patrick Ziemeck
Managing Director Technology



i.A. Siegfried Ott
Regulatory Affairs



This document declares the accordance with the named harmonized regulations, but does NOT assure specific properties

Declaration of conformity – China RoHS 2

BRAND GMBH + CO KG has made reasonable efforts to ensure that hazardous materials and substances may not be used in BRAND products.

In order to determine the concentration of hazardous substances in all homogeneous materials of the subassemblies, a "Product Conformity Assessment" (PCA) procedure was performed. As defined in GB/T 26572 the "Maximum Concentration Value" limits (MCV) apply to these restricted substances:

+ Lead (Pb):	0.1%	+ Hexavalent chromium (Cr(+VI)):	0.1%
+ Mercury (Hg):	0.1%	+ Polybrominated biphenyls (PBB):	0.1%
+ Cadmium (Cd):	0.01%	+ Polybrominated diphenyl ether (PBDE):	0.1%

Environmental Friendly Use Period (EFUP)



EFUP defines the period in years during which the hazardous substances contained in electrical and electronic products will not leak or mutate under normal operating conditions. During normal use by the user such electrical and electronic products will not result in serious environmental pollution, cause serious bodily injury or damage to the user's assets.

The Environmental Friendly Use Period for BRAND instruments is 40 years.



此表格是按照SJ/T 11364-2014中规定所制定的。
This table is created according to SJ/T 11364-2014.

Material content declaration for BRAND products

部件名称 Part name	有毒有害物质或元素 Hazardous substances						环保期限标识 EFUP
	铅 Pb	汞 Hg	镉 Cd	六价铬 Cr(+VI)	多溴联苯 PBB	多溴二 苯醚 PBDE	
包装 / Packaging	0	0	0	0	0	0	
塑料外壳 / 组件 Plastic housing / parts	0	0	0	0	0	0	
电池 / Battery	0	0	0	0	0	0	
玻璃 / Glass	0	0	0	0	0	0	
电子电气组件 Electrical and electronic parts	X	X	X	0	0	0	
金属外壳 / 组件 Metal housing / parts	X	0	0	0	0	0	
电机 / Motor	X	0	0	0	0	0	
配件 / Accessories	X	0	0	0	0	0	

注释: 此表格适用于所有产品。以上列出的元件或组件不一定都属于所附产品的组成。

Note: Table applies to all products. Some of the components or parts listed above may not be part of the enclosed product.

- O: 表示该有毒有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。
O: Indicates that the above mentioned hazardous substance contained in all homogeneous materials of the part is below the required limit as defined in GB/T 26572.
- X: 表示该有毒有害物质至少在该部件某一均质材料中的含量超出GB/T 26572规定的限量要求。
X: Indicates that the above mentioned hazardous substance contained in at least one of the homogeneous materials of this part is above the required limit as defined in GB/T 26572.

除上表所示信息外, 还需声明的是, 这些部件并非是有意用铅 (Pb), 汞 ((Hg), 镉 ((Cd), 六价铬 (Cr+VI), 多溴联苯 ((PBB) 或多溴二苯醚 ((PBDE) 来制造的。

Apart from the disclosures in the above table, the subassemblies are not intentionally manufactured or formulated with lead (Pb), mercury (Hg), cadmium (Cd), hexavalent chromium (Cr+VI), polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE).

Products manufactured by BRAND may enter into further devices or can be used together with other appliances. With these third party products and appliances in particular, please note the EFUP labeled on these products. BRAND will not take responsibility for the EFUP of those products and appliances.

Place, date: Wertheim, 17|05|2021

Patrick Ziemeck
(Managing Director
Technology)

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1 Introduction

1.1 Scope of delivery

Pipette controller, nickel-metal hydride battery, power adapter, 2 replacement membrane filters (0.2 µm), wall mount, operating manual

1.2 Terms of use





- Please carefully read the operating manual before using the device for the first time.
- The operating manual is part of the device and must be kept in an easily accessible place.
- Be sure to include the operating manual if you transfer possession of this device to a third party.

1.2.1 Hazard levels

The following signal words identify possible hazards:

Signal word	Meaning
DANGER	Will lead to serious injury or death.
WARNING	May lead to serious injury or death.
CAUTION	May lead to minor or moderate injuries.
NOTICE	May lead to property damage.

1.2.2 Operating manual symbols

Symbol	Meaning	Symbol	Meaning
	Hazardous area		Explosion hazard
	Wear eye protection		Wear protective gloves

1.2.3 Format

Layout	Meaning	Layout	Meaning
1. Task	Indicates a task.	>	Indicates a condition.
a., b., c.	Indicates the individual steps of a task.	⇨	Indicates a result.

2 Safety

Please read carefully!

The accu-jet® S can be used in combination with hazardous materials, work processes and equipment. However, the operating manual cannot cover all of the safety issues that may occur in doing so. It is the user's responsibility to ensure compliance with the safety and health regulations and to specify the corresponding restrictions before use.

1. Every user must read and understand this operating manual before operation.
2. Follow the general hazard instructions and safety regulations (e.g., wear protective clothing, eye protection, and protective gloves).
3. Observe all specifications provided by reagent manufacturers.
4. Do not operate the instrument in potentially explosive atmospheres and do not pipette highly flammable media.
5. Use the instrument only for pipetting liquids and only within the defined limits of use. Comply with the operating exclusions; see Operating exclusions, p. 38 ! If in doubt, contact the manufacturer or supplier.
6. Always perform work in a manner that does not endanger yourself or other people. Avoid splattering. Only use suitable vessels.
7. Never use force.

8. Use only original accessories and replacement parts. Do not make any technical modifications. Do not dismantle the instrument any further than is described in the operating manual!
9. Always check that the instrument is in proper working condition before use. If an instrument fault is signaled, stop pipetting immediately and follow the instructions in the section Troubleshooting. Contact the manufacturer, if necessary.
10. Use only the original power adapter to charge the nickel-metal hydride battery.
11. Do not use batteries from other manufacturers.
12. Protect the power adapter from moisture and use it only with this instrument.
13. Stop using the power adapter if the connection cable is damaged.
14. Only authorized service technicians are permitted to carry out repairs and internal maintenance on the instrument.

2.1 Function

The device serves as an aid for pipetting liquids with graduated and volumetric pipettes made of glass or plastic in the volume range from 0.1 ml to 200 ml and with a suction tube outer diameter < 9.2 mm. When the device is handled correctly, the pipetted liquid comes into contact with the pipette only.

2.2 Limitations of use

This device is intended for pipetting liquids within the following physical limitations:

- from 10 to 40°C (from 50 to 104°F) (device and reagent)
- vapor pressure up to 500 mbar. Absorb slowly above 300 mbar in order to prevent the liquid from boiling.
- Density up to 9 g/cm³

2.3 Operating exclusions

The instrument must not be used for liquids with vapors that can cause corrosion or attack the materials silicone or EPDM.

The instrument is not suitable for use with Pasteur pipettes.

WARNING



Operating the instrument in a potentially explosive atmosphere

The instrument must never be operated or charged in a potentially explosive atmosphere. Pipetting highly flammable media (flash point under 0 °C (32 °F), e.g. ether, acetone) is prohibited.

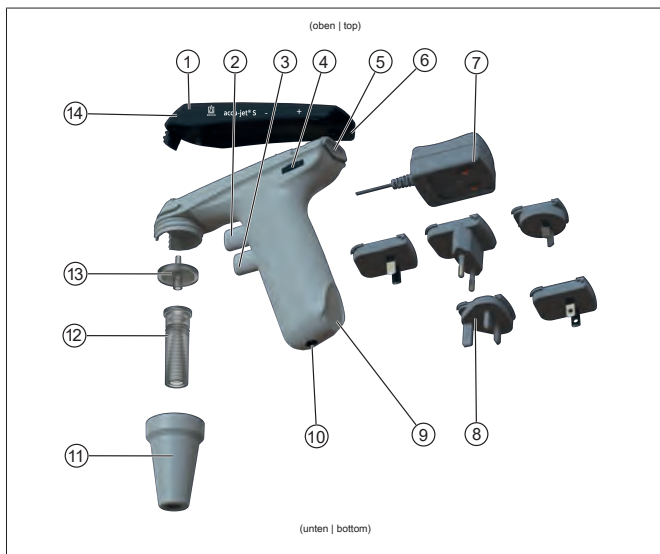
2.4 Storage Conditions

Store the unit and accessories in a cool and dry place in cleaned condition only.

Storage temperature from -20 to 50°C (-4 to 122°F).

Relative humidity: 5 % to 95 %.

3 Functional and operating elements



- | | |
|--|---|
| 1 Upper housing shell | 2 Upper pipetting button (aspirate liquid) |
| 3 Bottom pipetting button (dispense liquid) | 4 Motor speed adjustment wheel |
| 5 Operating mode selection switch | 6 Upper housing shell base |
| 7 Power adapter | 8 Country adapter |
| 9 Handle base | 10 Charging socket |
| 11 Adapter housing (PP) | 12 Adapter/non-return valve (SI/PTFE) |
| 13 Membrane filter (PP/PTFE) | 14 Pressure compensation opening |

For voltage and current consumption specifications, see Technical data, p. 52.

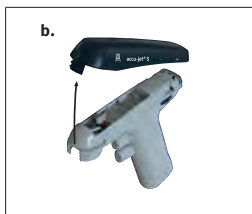
Abbreviation	Material
PP	Polypropylene
PTFE	Polytetrafluoroethylene
SI	Silicone

4 Assembly

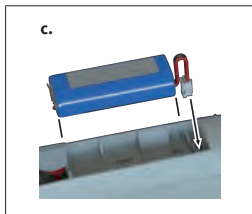
4.1 Connecting the battery



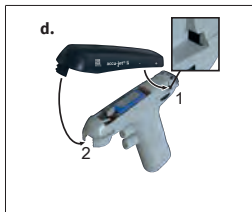
- a.** Unscrew the adapter housing. Adapter and filter remain in the adapter housing.



- b.** Remove housing.
⇒ The battery compartment becomes visible.



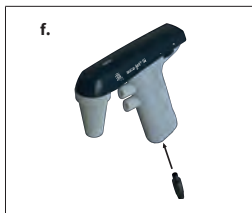
- c.** Grip battery plug by the wire, confirm alignment of the plug and insert it into the socket. Push it firmly into the socket until you can hear it snap into place. Insert the battery into the compartment.



- d. Insert housing. While doing so, make sure that the housing engages in the designated slots above the adjustment wheel (1) and in the screw connection of the adapter housing (2).



- e. Press the upper housing section into the housing shells and screw on the adapter housing.



- f. Charge the battery until the LED charge indicator is flashing green. Charging time is approx. 4 hours, see Charging the battery.

4.2 Charging the battery

WARNING



Damaged power adapter or charging cable

Risk of injury due to electric shock.



- > Do not use a damaged power adapter.
- > If the charging cable is damaged, do not use the power adapter.

NOTICE**Use only the original power adapter supplied by the manufacturer!**

Using another power adapter can damage the instrument and the battery.



- a. Place the country adapter onto the power adapter.
- b. Connect the power adapter to the instrument.
- c. Plug the power adapter into the power outlet.

⇒ The instrument is charging. This is indicated by the LED charge indicator on the upper housing section. For operation and charging duration, see Technical data, p. 52 .

LED charge indicator	Status	Corrective action
Green: blinking	Battery is charged. Trickle charging is carried out.	You can work with the instrument. The instrument is fully charged.
Green: permanently lit	Battery is charging	You can also continue to work while charging.
Red: blinking	Battery is almost empty.	Interrupt your work with the instrument. Charge the battery. You can also continue to work while charging.
Red: permanently lit	Battery is empty.	Charge the battery.

NOTICE

- Trickle charging prevents overcharging and minimizes the lazy battery effect. To maintain maximum capacity, only recharge the battery when the LED charge indicator lights up.

4.3 Turning on the instrument

The instrument is ready for operation when a charged battery is inserted. There is no ON/OFF switch.

4.4 Selecting the operating mode

Selection switch, see Functional and operating elements, p. 39 .

“Gravity delivery” operating mode: slide the selection switch upward.

“Blow-out with motor support” operating mode: slide the selection switch downward.

4.5 Aspirating or dispensing liquid

Pipetting button, see Functional and operating elements, p. 39

To fill the pipette, press the upper pipetting button; to dispense, press the lower pipetting button.

4.6 Changing the pipetting speed

The speed is limited by the maximum motor speed set. The further the upper and lower pipetting buttons are pressed in, the faster the instrument aspirates or dispenses liquid.

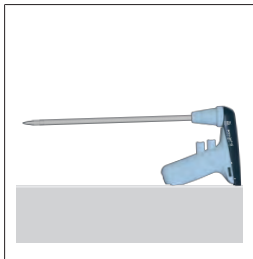
4.7 Setting the motor speed

Adjustment wheel, see Functional and operating elements, p. 39

The motor speed can be infinitely adjusted from maximum (+) to minimum (-) by turning the adjustment wheel. We recommend using the maximum motor speed for large volume pipettes and a lower motor speed for small volume pipettes.

4.8 Storing the instrument

4.8.1 Table placement



The accu-jet® S can be set down on an even surface with an inserted pipette.

4.8.2 Wall mount



- a. Clean the mounting surface with a suitable cleaner (no moisturizing household cleaners) and a lint-free cloth, and allow it to dry thoroughly.
- b. Remove the protective film from the adhesive strips.
- c. **Firmly** press the wall mount onto the mounting surface.

5 Pipetting

1. Attaching the pipette

⚠ WARNING



Ensure that the pipette is firmly in place. Never use force! Especially with thin pipettes, there is a risk of glass breakage! Risk of injury!

1.



- a. Always hold the pipette as close as possible to the upper end and push it carefully into the adapter until it is firmly in place.
- b. Always hold the instrument with the pipette inserted vertically, tip down.

2. Filling the pipette

2.



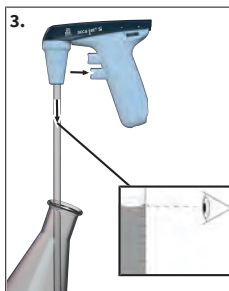
- a. Immerse pipette tip into the test liquid.
- b. Press the upper pipetting button slowly and fill the pipette so that the meniscus lies slightly above the desired marks.
- c. You can aspirate or dispense liquid with greater precision by pressing both pipetting buttons. This is partic-

ularly helpful when adjusting the meniscus or when using small volume pipettes.

NOTICE

Do not overfill the pipette.

3. Setting the volume



- a. If necessary, wipe the tip of the pipette with a suitable lint-free cloth.
- b. Press the lower pipetting button slowly and dispense liquid until the meniscus is adjusted exactly to the desired volume.

4. Emptying the pipette

- a. Press the lower pipetting button slowly. The pipetting speed depends on how far the pipetting buttons have been pressed in. In the “Blow-out with motor support” operating mode, the speed also depends on the set motor speed.

5. After pipetting

- a. Grip the pipette as high up as possible, and pull it out of the adapter.

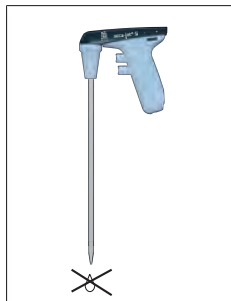
6 Cleaning

NOTICE

accu-jet® S is not autoclavable

Occasionally clean the housing parts with a damp cloth. When used properly, the instrument is maintenance-free.

6.1 Check tightness



After adjusting the meniscus, no liquid should drip from the pipette without operating the valves. If the pipette is dripping, see Troubleshooting, p. 51

6.2 Replace filter and clean adapter

WARNING



Risk of contamination and infection

Wear protective gloves and goggles.



NOTICE

Filter replacement or cleaning is only necessary if a pipette has been overfilled or the suction capacity is impaired.

b.

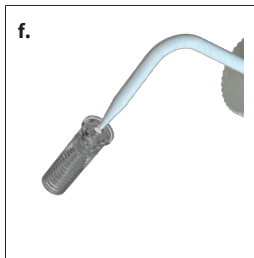
- a.** Pull out pipette.
- b.** Unscrew the adapter housing.
- c.** Pull out the upper housing.

d.

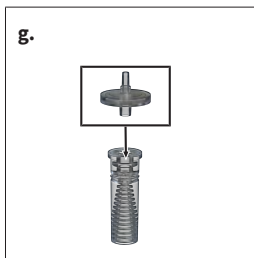
- d.** Push out the adapter and membrane filter from the tapered side of the adapter housing.

e.

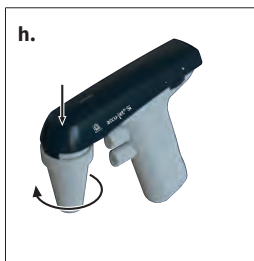
- e.** Remove defective membrane filter.



- f.** For cleaning, rinse the adapter carefully with a spray bottle filled with a suitable cleaning liquid (e.g., water). Then blow out and dry.



- g.** First press the new membrane filter into the adapter with the thicker connection facing downwards (the thinner, conical side facing upwards) and insert it into the adapter housing.



- h.** Press the upper housing section into the housing shells and screw on the adapter housing.

NOTICE**Information on autoclavable filters**

It is the user's responsibility to ensure effective autoclaving. Not every membrane filter is suitable! Use only original accessories.

- > The instrument comes equipped with a 0.2 μm membrane filter (red color code).
 - > The membrane filter can be autoclaved up to five times at 121°C (250 °F).
 - > Class B volume tolerances can be achieved with 0.2 μm membrane filters (for cell cultures).
 - > 3 μm membrane filters are required to comply with Class A volume tolerances. Due to the larger pore size, these have a reduced impact on the free delivery time of the pipettes, see Spare parts.
-

7 Troubleshooting





Problem	Cause	Corrective action
Suction capacity impaired	Motor speed is reduced	Increase motor speed, see Setting the motor speed, p. 43 .
	Non-return valve closed	Set the selection to “Blow-out” and press the lower pipetting button, see Selecting the operating mode, p. 43
Pipette dripping	Filter not properly positioned	Insert filter correctly, see Replacing the filter and cleaning the adapter, p. 47 .
	Adapter or pipette damaged	Replace the adapter or pipette, see Replacing the filter and cleaning the adapter, p. 47 .
Pipette not held in adapter	Adapter dirty or damaged	Clean adapter, allow to air dry or replace if necessary, see Replacing the filter and cleaning the adapter, p. 47 .
LED charge indicator does not light up/blink after the power adapter is connected and power is supplied.	Battery plug not firmly inserted	Firmly insert the battery plug, see Connecting the battery, p. 40 .
	Wrong power adapter	Use only the original power adapter, see Functional and operating elements, p. 39
	Battery or power adapter defective	Replace battery/power adapter
	Instrument defective	Send instrument in for repair, see Repairs, p. 55
Low battery capacity	Battery defective	Replace the battery, see Connecting the battery, p. 40 .
The instrument does not show any function	Internal error (perform reset)	Remove the battery plug and hold a pipetting button for 10 seconds. Then firmly insert the battery plug again, see Connecting the battery, p. 40 and Pipetting, p. 45

If the troubleshooting table above does not solve the problem, contact your authorized dealer or the manufacturer directly.

8 Technical data

Technical data	Values
Charging socket	5 VDC
Power adapter	Input: 100 – 240 VAC, 50/60 Hz Output: 5 VDC
Battery	Battery pack NiMH 2.4 V, 730 mAh Charging time: 4 h Maximum operating time: approx. 8 h Charging temperature: +10 °C to +35 °C

8.1 Product markings

Symbol or number	Meaning
XXZXXXXX	Serial number
Quick Response Code	Contains serial number
	With this mark, we confirm that the product complies with the requirements set out in the EC Directives and has been subjected to the specified testing procedures.
	UKCA: United Kingdom Conformity Assessed With this mark, we confirm that the product complies with the requirements set out in the UK Designated Standards.
www.brand.de/ip	Patent information
 (Here: 40 years)	China RoHS (EFUP) EFUP defines the time period in years, in which the hazardous materials found in the electrical and electronic equipment should not leak or change under normal operating conditions. When used under normal conditions, such electrical or electronic products do not lead to severe environmental pollution, severe personal injuries or damage to the user's property.
	This electrical instrument may not be disposed of in household waste.

9 Ordering Information

9.1 Instrument

Color of the upper housing section	Order no. (with universal power adapter and country adapter)	Order no. (without universal power adapter and without country adapter)
Anthracite	26350	26360
Berry	26351	26361
Petrol	26352	26362
Amethyst	26353	26363

Scope of delivery, see Scope of delivery. Note the order numbers, with or without power adapter.

9.2 Spare parts

Replacement membrane filter

Description	Packing unit	Order No.
0.2 µm, sterile (red color code)	1 pc in blister packaging	26530
0.2 µm	10 pcs in PE bag	26535
3 µm	1 pc in blister packaging	26052
3 µm	10 pcs in PE bag	26056

Power adapter

Technical specifications for power adapter, see Technical data, p. 52.

Type	Order No.
Power adapter and country adapter	26606

Battery pack

Technical specifications for battery, see Technical data, p. 52 .

Description	Order No.
Battery pack NiMH	26630

Silicone adapter with non-return valve

Description	Order No.
Silicone adapter	26508

Adapter housing

Color	Order No.
white	26658

Wall mount

Color	Order No.
white	26539

Snap tape

Packaging unit	Order No.
3 sets	26547

10 Repairs

10.1 Sending for repair

NOTICE

Transporting of hazardous materials without a permit is a violation of federal law.

Clean the instrument thoroughly and decontaminate!

- When returning products, please enclose a general description of the type of malfunction and the media used. If information regarding media used is missing, the instrument cannot be repaired.
- Only send the device without a battery installed.
- Shipment is at the risk and the cost of the sender.

Outside USA and Canada

Complete the “Declaration on Absence of Health Hazards” and send the instrument to the manufacturer or supplier. Ask your supplier or manufacturer for the form. The form can also be downloaded from www.brand.de.

Within USA and Canada

Please clarify the requirements for the return delivery with BrandTech Scientific, Inc **before** sending the instrument in for service.

Return only cleaned and decontaminated instruments to the address provided with the Return Authorization Number. Place the Return Authorization number so that it is clearly visible on the outside of the package.

Contact addresses

Germany:

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97877 Wertheim (Germany)
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F +49 9342 808 98000
info@brand.de
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11 Warranty

We shall not be liable for the consequences of improper handling, use, servicing, operating or unauthorized repairs of the device or for the consequences of normal wear and tear, especially of wearing parts such as pistons, seals, valves and the breakage of glass. The same applies for failure to follow the instructions of the operating manual. We are not liable for damage resulting from disassembly beyond that described in the operating manual or if non-original spare parts or components have been installed.

USA and Canada:

Find more warranty information on www.brandtech.com.

12 Disposal



This symbol means that at the end of their service life, batteries/accumulators and electronic devices must be disposed of separately from household waste (unsorted municipal waste).

Electronic devices must be disposed of in accordance with Directive 2012/09/ EU of the European Parliament and of the Council from July 04, 2012 on waste from electrical and electronic equipment and in compliance with national disposal regulations.

Both batteries and accumulators (rechargeable batteries) contain materials that can be damaging to the environment and human health. Therefore, they must be properly disposed of in accordance with Directive 2006/66/EC of the European Parliament and of the Council from September 06, 2006 on batteries and accumulators and in compliance with national disposal regulations. Only dispose of fully discharged batteries and accumulators.

