

Multipette® plus Repeater® plus

Operating manual

eppendorf

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U.S. Patent No.

5,591 408

5,620,660

5,620,661 U.S. Design Patent No. Combitip plus

384. 163

384, 162

387, 426

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1 User instructions

1.1 Using this manual

- Please read this operating manual completely before using the device for the first time.
- Please view this operating manual as part of the product and keep it somewhere easily accessible.
- When passing the device on to third parties, be sure to include this operating manual.

2 Product description

2.1 Features

In combination with Eppendorf Combitips advanced, the Multipette plus/the Repeater plus forms a dispensing system for repeat dispensing operations.

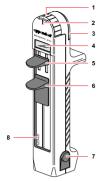


Fig. 1: Multipette plus/Repeater plus

ΡΙĘ	j. 1: Multipette plus/Repeater	piu	S
1	Volume selection dial	2	Position indicator
3	Battery compartment	4	Digital display
5	Dispensing lever	6	Filling lever
7	Ejection keys	8	Serial number

2.2 Combitips advanced

A supply of liquid is aspirated into the Combitip advanced and then dispensed step by step.

The built-in electronics automatically recognize

- · the Combitip advanced inserted and
- the position of the volume selection dial,

and the current dispensing volume appears in the display.

Nine Combitips advanced with a variety of filling volumes are available for single use (see *Choose Combitip on p. 7*). The Combitips advanced 25 mL and 50 mL can only be used in combination with an adapter. The adapter is a wear part.

For each Combitip advanced, you can use the volume selection dial to set 20 different volumes.

The smallest volume can be dispensed up to a max. of 100 times and the largest volume a max. of 5 times.

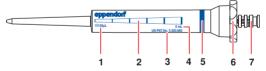


Fig. 2: Combitip advanced

5	J. 2. Combinp dataneca	
1	Dispensing volume with the manual dispenser at selection dial position 1	2 Graduation
3	US patent numbers	4 Maximum volume
5	Color code	6 Coding
7	Piston	

2.3 Combitips plus

Multipette plus/Repeater plus can also be used with Combitips plus (predecessor model).

3 Safety

3.1 Intended use

The Multipette plus/Repeater plus is a lab device and, in combination with a Combitip plus/Combitip advanced, it is intended for dispensing aqueous solutions in the volume range between 1 μ L and 10.00 mL. In vivo applications (applications in or on the human body) are not permitted.

The Multipette plus/Repeater plus may only be operated by trained specialist staff. All users must have read the operating manual carefully and familiarized themselves with the device's mode of operation.



CAUTION! Danger to persons from careless use.

- Never point the opening of a Multipette plus / Repeater plus equipped with a Combitip at yourself or anyone else.
- Only perform dispensing operations when you do not endanger yourself or anyone else.



CAUTION! Poor safety due to incorrect accessories and spare parts.

The use of accessories and spare parts other than those recommended by Eppendorf may impair the safety, function and precision of the device. Eppendorf cannot be held liable or accept any liability for damage resulting from the use of incorrect or non-recommended accessories and spare parts or from the improper use of such equipment.

 Only use accessories and original spare parts recommended by Eppendorf.



NOTICE! Damage to device from opening the housing.

- Do not remove the housing of the Multipette plus/ Repeater plus.
- Do not allow the housing to be opened by anyone except service staff authorized by Eppendorf.



NOTICE! Damage to sensor from damaged or incorrectly inserted Adapter plus.

- When using 25 mL and 50 mL Combitips, make sure that the adapter is in a perfect condition. The adapter is a wear part.
- ▶ Do not use the Adapter if it is damaged or visibly worn.
- Connect the Adapter and the Combitip always outside of the Multipette plus/Repeater plus.
- ▶ Do not turn the inserted Combitip.
- Always hold the Multipette plus/Repeater plus by the housing.



NOTICE! Damage to device from penetration of liquids.

- Do not allow any liquids to penetrate the inside of the housing.
- If liquid has penetrated the inside of the housing, have the inner parts of the Multipette plus / Repeater plus repaired only by service partners of Eppendorf AG. Contact your responsible sales office before returning a product.



NOTICE! Material damage from incorrect use.

- Only use the product for its intended purpose as described in the operating manual.
- Ensure adequate material resistance when using chemical substances.
- Do not use the Multipette plus/Repeater plus with liquids which attack the materials ABS, ASA, PBT, PC, POM and PPS.
- Do not use the Combitip with liquids which attack the materials PP, PE or LCP.
- In case of doubt, contact your local Eppendorf partner.

Operation

4.1 Choose Combitip

▶ Use the volume table to select volumes and Compitip plus.

_																				
Position	Position of the volume selection dial	olume s	election	dial .																
	0.5	0.5 1 1.5 2	1.5	2	2.5	2.5 3	3.5	3.5 4	4.5	5	5.5	9	6.5	7 7.5	7.5	8	8.5	6	9.5	10
Maximur	laximum number of dispensing steps	er of dis	pensing	3 steps																
e th	100	100 50	33	33 25	20 16	16	14 12	12	1	11 10	6	8	8 7 7		9	9	5	2	2	5
_	Sombitip mit den Volumina	en Volui	mina																	
0.1 mV		1µL 2µL	3µL	4µL	5µL	6µL	7µL	8µL	9µL 10µL	10µL	11µL 12µL	12µL	13µL	14µL	15µL 16µL	16µL	17µL	17µL 18µL	19µL	20µL
0.2 mL	2µL	4 ⁴	6µL	8µL	10µL	12µL	14µL	16µL	18µL	20µL	22µL	24µL	26µL	28µL	30µL	32µL	34µL	36µL	38µL	40µL
0.5 mL	5µL	10µL	15µL	20µL	25µL	30µL	35µL	40µL	45µL	50µL	55µL	60µL	65µL	70µL	75µL	80µL	85µL	90µL	95µL	100µL
1.0 mL	10µL	20µL	30µL	40µL	50µL	60µL	70µL	80µL	90µL	90µL 100µL	110µL 120µL	20µL	130µL 140µL	140µL	150µL 160µL	160µL	170µL 180µL	180µL	190µL ;	200µL
2.5 mL	25µL	50µL		75µL 100µL	125µL	150µL	175µL	200µL	225µL 250µL	250µL	275µL 3	300µL	325µL 350µL	350µL	375µL 4	400hL	425µL 4	450µL	475µL !	500µL
2 mg	50µL	100µL	100µL 150µL	200µL		250µL 300µL		350µL 400µL	450µL 500µL	500µL	550µL 600µL	00µL	650µL 700µL	700µL	750µL 8	800µL	850µL 900µL	900µL	950µL 1.0mL	1.0mL
10 mg t	100µL	200µL	300µL	200µL 300µL 400µL		500µL 600µL	700µL	700µL 800µL	900pL	1.0mL	900µL 1.0mL 1.1mL 1.2mL	.2mL	1.3mL 1	1.4mL	1.3mL 1.4mL 1.5mL 1.6mL	.6mL		1.7mL 1.8mL	1.9mL 2.0mL	2.0mL
± 72 mΓ the	, 250µL	500µL	750µL	1.0mL	1.25mL	1.5mL	1.75mL	2.0mL	2.25mL ;	2.5mL	250µL 500µL 750µL 1.0mL 1.25mL 1.5mL 1.75mL 2.0mL 2.25mL 2.75mL 3.0mL 3.25mL 3.5mL 3.5mL 3.75mL 4.0mL 4.25mL 4.5mL	.0mL 3	.25mL 3	3.5mL (3.75mL 4	1.0mL	4.25mL 4	4.5mL	4.75mL 5.0mL	5.0mL
	0.5mL	1.0mL	1.5mL	2.0mL	2.5mL	3.0mL	3.5mL	4.0mL	4.5mL	5.0mL	50 mL* 0.5mL 1.0mL 1.5mL 2.0mL 2.5mL 3.0mL 3.5mL 4.0mL 4.5mL 5.0mL 5.5mL 6.0mL 6.5mL 7.0mL 7.5mL 8.0mL 8.5mL 9.0mL 9.5mL 10mL	.0mL	6.5mL 7	7.0mL	7.5mL 8	3.0mL	8.5mL (9.0mL	9.5mL	10mL

25 mL and 50 mL Combitips must be used with the supplied adapter.



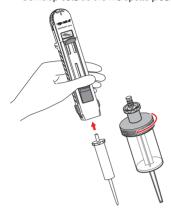
See the safety instructions and the general illustration(see Fig. on p. 4).

4.2 Insert Combitip



NOTICE! Damage to property due to incorrect insertion of the Combitip.

- For Multipette plus/Repeater plus manufactured before 12/15/2009: Do not press the ejection keys when a Combitip is inserted.
- If using 25 mL or 50 mL Combitips, connect the adapter to the Combitip outside the Multipette plus/Repeater plus.



- 2. Slide the filling lever right to the bottom and hold it there.
- Push the Combitip from below into the Multipette plus / Repeater plus and, in doing so, hold the filling lever slid downwards. Or insert the Combitip and then push the filling lever downward.

4.3 Select volume

 Turn the volume selection wheel until it locks into the desired position.

The volume selection wheel has 20 positions. They are indicated with the figures 1 to 10. Positions between these numbers, and position 0.5, are indicated with a spot.



When setting small volumes (position 5 and below), the operating path of the dosage lever is reduced automatically. The dosage lever changes its position when the volume selection wheel is turned.

You cannot turn the volume selection wheel beyond position 10.

Do not turn the volume selection wheel beyond 10 or 0.5. Turn the volume wheel back to its initial position.

4.3.1 Filling Combitip and reverse stroke

- 1. Immerse the tip of the Combitip in the liquid.
- Slowly and uniformly push the filling lever up to the stop.The display is blinking, the Multipette plus/Repeater plus is not yet ready for operation.

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4.3.2 Discard first dispensing step (reverse stroke).

- 1. Wipe the Combitip tip using lint-free cell tissue.
- 2. Place the Combitip tip on the tube wall.
- Actuate the dispensing lever once and discard the liquid (reverse stroke).

This step, which brings the system to the basic position, should be completed independent of the volume setting.

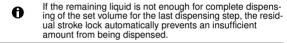
The display is no longer blinking, and displays the dispensing volume. The Multipette plus/Repeater is ready for operation, the full range of dispensing steps are available.

Comments

- If you do not fully fill the Combitip, the display will not blink. Press
 the dispensing lever fully downward as often as necessary until
 liquid escapes from the Combitip plus. Discard the liquid. Then,
 you can dispense the set volume.
- Between dispensing steps, you can change the volume using the volume selection dial.
- Pressing the filling lever too quickly may create a too high vacuum.
 The liquid is enriched with air bubbles which could cause dispensing inaccuracies.
 - With a volume selection dial setting larger 5, the aspiration of a large air bubble can lead to drip formation after each dispensing step, particularly with 10, 25 and 50 mL Combitips.
- A small air bubble in the upper cylinder chamber has no effect on dispensing.
- The Combilong/Combitube is an aspiration aid for the Multipette plus/Repeater plus. The Combilong/Combitube enables direct liquid aspiration from bottles.

4.4 Dispense

- 1. Place the tip of the Combitip against the wall of the tube.
- 2. Push the dispensing lever up to the stop.



After the Combitip has been refilled, discard the first dispensing step.

4.5 Release Combitip

 Hold the Combitip in a tube and push the filling lever right to the bottom.

The residual liquid is emptied.

- 2. Hold the Multipette plus/the Repeater over a waste container.
- 3. Press both ejection keys at the same time.
 - The Combitip (in the case of 25 mL and 50 mL including adapter) is released from the Multipette plus/the Repeater plus. The display goes out.
- On the Combitip 25 mL and 50 mL: unscrew the reusable adapter from the Combitips.

The adapter is a wear part. If significant wear is apparent, do not reuse the adapter.

4.6 Quick Start



Only trained staff already familiar with the operating manual and the Multipette plus/the Repeater plus may work to these short instructions. Follow the safety instructions.

- Select Combitip.
- 2. With Combitip 25, 50 mL: connect adapter to the Combitip.
- 3. Insert Combitip (see p. 8).
- 4. Fill Combitip:
 - a Immerse the tip of the Combitip in the liquid.
 - b Slowly draw up the filling lever.
- 5. Reverse stroke:
 - a Press the dispensing lever.
 - b Discard the first dispensing step (reverse stroke).
- 6. Dispense:
 - a Place the tip of the Combitip against the wall of the tube.
 - b Press the dispensing lever.
- 7. Discard the Combitip:
 - a Push the filling lever right to the bottom.
 - b Press both ejection keys at the same time.

4.7 Empty Battery

The Multipette plus/Repeater plus can still function if the electronics fail or the battery is empty.

To set volumes, use the volume table (see p. 7) or proceed as follows in order to determine the position required on the volume selection wheel:

- Read the volume for position 1 on the volume wheel from the Combitip (fig. 2-1).
- Divide the desired volume by the volume with position 1.

Examples for Combitip

Volume for position 1 100 μ L Desired volume of dosage 200 μ L Calculation 200 / 100 = **2**

Position to be set

Desired volume of dosage 750 µL

Calculation 750 / 100 = 7.5Position to be set between 7 and 8

Desired volume of dosage 50 μL

Calculation 50 / 100 = 0.5Position to be set before 1 before shipment on p. 12).

5 Troubleshooting

5.1 General errors

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Should you require service, contact your official dealer for Eppendorf products or our sales office. You can find the addresses of our dealers on our website www.eppendorf.com. The addresses of our sales offices are listed on the penultimate page of these Instructions for

www.eppendorf.com. The addresses of our sales offices are listed on the penultimate page of these Instructions for Use.

Read the note on decontamination (see *Decontamination*)

Error	Cause	Solution
Battery symbol appears.	 Battery is running down. 	 Replace the battery within the next two weeks.
Blank display.	No Combitip has been inserted.	- Replace the Combitip.
	 battery is run down. Battery has been installed incorrectly. 	 Insert a new battery. Insert the battery correctly, making sure that the positive pole is visible.
	 Electronics are defective. 	 Operation and volume selection are possible without the electronics.
		 Send in the Multipette plus/Repeater plus for repair.
	 25 mL Combitip in old Multipette 4980 (gray operating controls). 	 Use new Multipette 4981 (blue operating controls).
Air bubble increases in size; liquid cannot be aspirated.	 Combitip is leaking. 	 Replace the Combitip.
Poor accuracy/precision values.	- Combitip is leaking.	- Replace the Combitip.
	 Liquid contains air bubbles. 	 Aspirate the liquid slowly and evenly.
		 Use degassed liquid.
	 Pipetting stroke has not been executed completely. 	 Use the entire path of the dispensing lever.
	 Reverse stroke not discarded. 	 After filling the Combitip: always discard the first volume.
Displays S2	 Volume selection dial has not locked into position. 	 Lock the volume selection dial into position.
Displays C2 C4	 Rim of the Combitip barrel or the Combitip mounting area is not clean. 	 Wipe with a moist cloth or use a new Combitip.
90	 Combitip is not positioned correctly in the mounting area (i.e. is not straight). 	 Insert the Combitip correctly without touching the ejection key.
	 Combitip sensor is defective. 	 Send in the Multipette plus/Repeater plus for repair.
	 Adapter worn. 	 Use new adapter.

The precision and correctness of the Multipette plus/of the Repeater plus must be checked regularly to prevent dispensing errors. You can find an SOP (Standard Operation Procedure) for the test on our website: www.eppendorf.com

6 Maintenance

6.1 Cleaning



Any servicing activities above and beyond cleaning or changing the battery must be performed only by Eppendorf AG or an Eppendorf AG service partner.



NOTICE! Damage to device from penetration of liquids.

- Do not allow any liquids to penetrate the inside of the housing.
- If liquid has penetrated the inside of the housing, have the inner parts of the Multipette plus / Repeater plus repaired only by service partners of Eppendorf AG. Contact your responsible sales office before returning a product.

Clean any dirt off the Multipette plus / Repeater plus as follows:

- Moisten a cloth with soap solution and remove the dirt.
- ➤ To disinfect the Multipette plus/Repeater plus, use isopropanol (70%).

6.2 Change battery

When the battery symbol appears in the digital display, you can use the battery for approximately another two weeks.

- Push the lid in the direction of the arrow to open the battery compartment.
- 2. Remove the old battery.
- 3. Wipe over the new battery with a soft dry cloth.
- Insert the battery with the plus symbol and the labeling facing upwards.
- 5. Close the battery compartment.



You can also use the Multipette plus/the Repeater plus without a battery (see *Empty Battery on p. 10*).

6.3 Decontamination before shipment

If you wish to return the pipette to Eppendorf AG or an Eppendorf AG service partner to be checked or repaired, please note the following:



CAUTION! Use of a contaminated device may result in personal injuries and damage to the device.

 Clean and decontaminate the Multipette plus/Repeater plus before shipping or storage according to the cleaning instructions.

Hazardous substances are:

- · solutions presenting a hazard to health
- · potentially infectious agents
- · organic solvents and reagents
- radioactive substances
- · proteins presenting a hazard to health
- DNA
- Please note the information in the document "Decontamination certificate for product returns".

You can find it as a PDF file on our homepage www.eppendorf.com.

- Enter the serial number of the Multipette plus/Repeater plus in the decontamination certificate.
- Enclose the fully-completed decontamination certificate for returned goods with the Multipette plus / Repeater plus.

Technical data

Combitip	Testing	Error li	mits				
advanced	volume	Error	Error				
		System error	atic	Randor error	n		
		± %	±μL	± %	±μL		
0.1 mL	2 μL	±1.6	±0.032	±3.0	±0.06		
white	20 μL	±1.0	±0.2	±2.0	±0.4		
0.2 mL	4 μL	±1.3	±0.052	±2.0	±0.08		
light blue	40 μL	±0.8	±0.32	±1.5	±0.6		
0.5 mL	10 μL	±0.9	±0.09	±1.5	±0.15		
violet	100 μL	±0.8	±0.8	±0.6	±0.6		
1 mL	20 μL	±0.9	±0.18	±0.9	±0.18		
yellow	200 μL	±0.6	±1.2	±0.4	±0.8		
2.5 mL	50 μL	±0.8	±0.4	±0.8	±0.4		
green	500 μL	±0.5	±2.5	±0.3	±1.5		
5 mL	100 μL	±0.6	±0.6	±0.6	±0.6		
blue	1 000 μL	±0.5	±5.0	±0.25	±2.5		
10 mL	200 μL	±0.5	±1.0	±0.6	±1.2		
orange	2 000 μL	±0.5	±10	±0.25	±5.0		
25 mL	500 μL	±0.4	±2.0	±0.6	±3.0		
red	5 000 μL	±0.3	±15	±0.25	±12.5		
50 mL	1 000 μL	±0.3	±3.0	±0.5	±5.0		
light grey	10 000 μL	±0.3	±30	±0.3	±30		

The data is valid for the following test conditions, in accordance with ISO 8655:

Liquid Water, double distilled, degased 20 to 25 °C, constant to ±0.5 °C Test temperature

with original Eppendorf Combitips Number of determinations 10, before dispensing, Combitip com-

pletely filled Operating temperature

+4 °C to +40 °C

Battery

Lithium button cell 3 V 210 mAh

Service life about 2 years

Ordering Information



CAUTION! Poor safety due to incorrect accessories and spare parts.

The use of accessories and spare parts other than those recommended by Eppendorf may impair the safety, function and precision of the device. Eppendorf cannot be held liable or accept any liability for damage resulting from the use of incorrect or non-recommended accessories and spare parts or from the improper use of such equipment.

 Only use accessories and original spare parts recommended by Eppendorf.

8.1 Multipette plus/Repeater plus

	Order No. (North America)	Description
4981 000.019	-	Multipette plus
-	022260201	Repeater plus

8.1.1 Accessories Multipette plus/Repeater plus

Order No. (International)	Order No. (North America)	Description
3115 000.003	022444905	Pipette carousel 3115 with 6 pipette holder for Research and Reference Pipettes
4981 201.006 4980 210.001	022260588 022261592	Multipette plus, Repeater plus, Varipette - adapter for pipette carousel 3115 for pipette carousel 4807 (old)
4981 203.009	022260596	Wall mounting device for Multipette plus, Repeater plus, Varipette with adhesive surface
4980 215.003	022269119	Battery 3 V

8.1.2 Combitips advanced

Order No.	Order No.	Description
(International)	(North America)	
0030 089.405 - 0030 089.618 0030 089.766	0030089405 0030089510 0030089618	Combitips advanced 0.1 mL 100 pieces Eppendorf Quality Sterile, individually wrapped Biopur, individually wrapped PCR clean
0030 089.413 - 0030 089.626 0030 089.774	0030089413 0030089529 0030089626	Combitips advanced 0.2 mL 100 pieces Eppendorf Quality Sterile, individually wrapped Biopur, individually wrapped PCR clean
0030 089.421 - 0030 089.634 0030 089.782	0030089421 0030089537 0030089634	Combitips advanced 0.5 mL 100 pieces Eppendorf Quality Sterile, individually wrapped Biopur, individually wrapped PCR clean
0030 089.430 - 0030 089.642 0030 089.790	0030089430 0030089545 0030089642	Combitips advanced 1.0 mL 100 pieces Eppendorf Quality Sterile, individually wrapped Biopur, individually wrapped PCR clean
0030 089.448 - 0030 089.650 0030 089.804	0030089448 0030089553 0030089650	Combitips advanced 2.5 mL 100 pieces Eppendorf Quality Sterile, individually wrapped Biopur, individually wrapped PCR clean
0030 089.456 - 0030 089.669 0030 089.812	0030089456 0030089561 0030089669	Combitips advanced 5.0 mL 100 pieces Eppendorf Quality Sterile, individually wrapped Biopur, individually wrapped PCR clean

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Order No. (International)	Order No. (North America)	Description
0030 089.464 - 0030 089.677 0030 089.820	0030089464 0030089570 0030089677	Combitips advanced 10 mL 100 pieces Eppendorf Quality Sterile, individually wrapped Biopur, individually wrapped PCR clean
0030 089.472 - 0030 089.685 0030 089.839	0030089472 0030089588 0030089685	Combitips advanced 25 mL 100 pieces Eppendorf Quality Sterile, individually wrapped Biopur, individually wrapped PCR clean
0030 089.480 - 0030 089.693 0030 089.847	0030089480 0030089596 0030089693	Combitips advanced 50 mL 100 pieces Eppendorf Quality Sterile, individually wrapped Biopur, individually wrapped PCR clean

8.1.3 Adapter advanced

Order No. (International)	Order No. (North America)	Description
0030 089.715	0030089715	Adapter advanced 25 mL 1 piece Eppendorf Quality
0030 089.723	0030089723	Adapter advanced 50 mL 1 piece Eppendorf Quality
0030 089.731	0030089731	Adapter advanced 25 mL 7 pieces Biopur, individually wrapped
0030 089.740	0030089740	Adapter advanced 50 mL 7 pieces Biopur, individually wrapped

8.1.4 Accessories Combitips advanced



Fig. 3: Combitips advanced Rack A Combitips advanced Rack is available for storing Combitips advanced (≤ 10 mL).

Order No. (International)	Order No. (North America)	Description
0030 059.506	_	Combilong Aspirating aid for removing liquids from volumetric flasks and tall bottles 2 pieces

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Order No.	Order No. (North America)	Description
(IIILEITIALIOIIAI)	(NOITH America)	
_	022261550	Combitube Aspirating aid for removing liquids from volumetric flasks and tall bottles 2 pieces
	02220.000	'
0030 089.758	0030089758	Combitips advanced Rack 1 piece Eppendorf Quality

Eppendorf Biopur[®] disposable articles are guaranteed to be sterile and free from pyrogen, RNase, DNA and ATP.



In the event of claims under warranty, please contact your Eppendorf distributor.

Wear parts are excluded from the warranty.

When returning the Multipette plus/Repeater plus, please follow the instructions relating to decontamination (see *Decontamination before shipment on p. 12*).

10 Disposal

10.1 Disposal

In case the product is to be disposed of, the relevant legal regulations are to be observed.

Information on the disposal of electrical and electronic devices in the European Community:

Within the European Community, the disposal of electrical devices is regulated by national regulations based on EU Directive 2002/96/EC pertaining to waste electrical and electronic equipment (WEEE).

According to these regulations, any devices supplied after August 13, 2005, in the business-to-business sphere, to which this product is assigned, may no longer be disposed of in municipal or domestic waste. They are marked with the following symbol to indicate this:

As disposal regulations may differ from country to country within the EU, please contact your supplier if necessary.





WARNING! Risk of explosion and fire due to overheated accumulators and batteries.

 Do not heat accumulators and batteries to over 80 °C and do not throw them into fires.

Disposing of accumulators and batteries

Do not dispose of accumulators and batteries as household waste. Dispose of accumulators and batteries according to the locally applicable legal regulations.



EG-Konformitätserklärung EC Conformity Declaration

Das bezeichnete Produkt entspricht den einschlägigen grundlegenden Anforderungen der aufgeführten EG-Richtlieie und Nammen. Ber einer nicht mit uns abgestemmen Anderung des hobidates dem einer horbt bestimmungsgemitalen Anwendung welfert desse Erkährung Are Grüftigkeit.

The product named below fulfills the relevant fundamental requirements of the EC directives and standards lated in the case of shautherized modifications to the product

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Aultipette plus 4981	
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Manueller Dispenser / Manual	dispenser
2004/108/EG. EN 55011/B. 8	EN 61000-6-1, EN 61000-3-2, EN 61000-3-3
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