epT.I.P.S.® *Motion* Reloads

Instructions for use

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0012 579.853-07/042021

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1 Operating instructions

1.1 Using this manual

Before using the accessories for the first time, read these instructions for use. Also read the operating manual of the device the accessories are used with.

The current version of the operating manual can be found on our website: www.eppendorf.com/manuals.

1.2 Danger symbols and danger levels

1.2.1 Danger symbols

The safety instructions in this manual have the following danger symbols and danger levels:

Biohazard	**Material damage**

1.2.2 Danger levels

DANGER	*Will* lead to severe injuries or death.
WARNING	*May* lead to severe injuries or death.
CAUTION	May lead to light to moderate injuries.
NOTICE	May lead to material damage.

1.3 Symbols used

Depiction	Meaning
1. 2.	Actions in the specified order
‣	Actions without a specified order
•	List
Text	Display or software texts
	Additional information

2 Product description

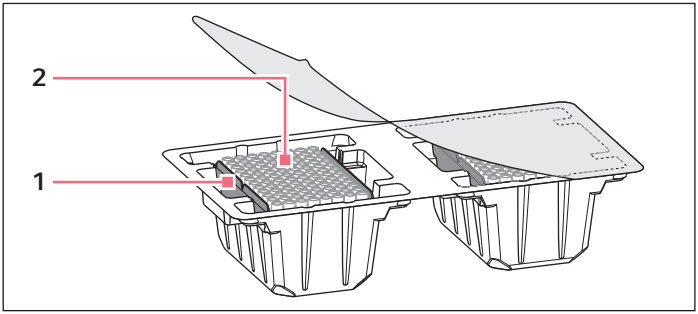

Fig. 2-1: epT.I.P.S. Motion Reloads

1 Tray **2 epT.I.P.S. Motion**

epT.I.P.S. Motion Reloads consist of a tray which contains 96 epT.I.P.S. Motion pipette tips.

epT.I.P.S. Motion Reloads can be used with the ep*Motion*, ep*Motion* 96 and ep*Motion* 96xl devices.

Size of the pipette tips	**ep*Motion***	**ep*Motion* 96**	**ep*Motion* 96xl**
10 µL	×	–	–
50 µL	×	×	–
300 µL	×	×	×
1000 µL	×	–	×

The epT.I.P.S. Motion Reloads has a code. This code is used by the device to detect the size of the pipette tips and whether the pipette tips have a filter.

epT.I.P.S. stands for "**ep**pendorf **T**otally **I**ntegrated **P**ipetting **S**ystem".

3 Safety

3.1 Intended use

epT.I.P.S. Motion are transparent pipette tips for use on the ep*Motion*, the ep*Motion* 96 and the ep*Motion* 96xl. epT.I.P.S. Motion are available as Reloads.

epT.I.P.S. Motion with a size of 10 µL may only be used on the devices ep*Motion* 5070, ep*Motion* 5073, ep*Motion* 5075.

epT.I.P.S. Motion Reloads are intended for single use.

The products can be used for training, routine and research laboratories in the areas of life sciences, industry or chemistry. This product is intended to be used for research purposes only. Eppendorf AG does not provide a warranty for other applications. The products are not suitable for use in diagnostic or therapeutic applications.

The products may only be used by skilled personnel who have been trained in the areas mentioned above.

3.2 Safety instructions

WARNING! Damage to health due to infectious liquids and pathogenic germs.

- When handling infectious liquids and pathogenic germs, observe the national regulations, the biosafety level of your laboratory, and the manufacturers' Safety Data Sheets and application notes.
- Wear your personal protective equipment.
- For comprehensive regulations about handling germs or biological material of risk group II or higher, please refer to the "Laboratory Biosafety Manual" (source: World Health Organization, Laboratory Biosafety Manual, in the currently valid version).

NOTICE! Dispensing errors due to incorrect handling of pipette tips.
Pipette tips become deformed and change size during autoclaving.

- Do not autoclave the pipette tips. If necessary, use pipette tips that are specified as sterile.

NOTICE! Damage to pipette tips due to aggressive chemicals.
Aggressive substances may damage the pipette tips.

- Check whether the pipette tips are resistant to the chemicals used.

3.2.1 Safety instruction for the use of the ep*Motion*

WARNING! Danger due to flammable and infectious liquids in the waste container and waste bags.
Pipette tips in the waste container and in waste bags may contain flammable or infectious liquids.

- Wear your personal protective equipment.
- Handle the pipette tips and sample material from the waste container and waste bags in accordance with the safety data sheets, safety regulations and laboratory guidelines.
- Dispose of the pipette tips and sample material from the waste container and waste bags in accordance with the safety data sheets, safety regulations and laboratory guidelines.

NOTICE! Contamination due to using incorrect pipette tips.
The optical sensor does not detect if the pipette tips on the worktable are intended for single use (epT.I.P.S. Motion Rack, epT.I.P.S. Motion Reload) or multiple use (epT.I.P.S. Motion SafeRack).

- If the pipette tips will be used several times, equip the entire worktable with epT.I.P.S. Motion SafeRacks.

NOTICE! Incorrect stock detection due to missing pipette tips.
The optical sensor checks the start position and the end position of the pipette tips in the rack. The optical sensor does not check if pipette tips are missing in the center.

- Do not remove any pipette tips from the rack.

3.2.2 Safety instruction for the use of the ep*Motion* 96 and ep*Motion* 96xl

NOTICE! Damage to device due to incorrectly equipped trays.
The device detects the tip size from the coding of the tray. Incorrect equipping of the trays can lead to contamination of the pipetting head.

- Only use trays that were equipped by the manufacturer.
- Do not equip the trays manually.

4 Operation

4.1 Inserting epT.I.P.S. Motion Reloads in the ep*Motion*

4.1.1 Loading the ep*Motion* worktable

epT.I.P.S. Motion Reloads can be used in the following labware:

- TipHolder, TipHolder 73
- Box
- Gripper Tower

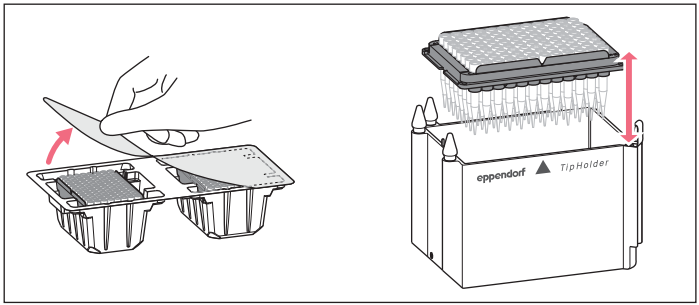

Fig. 4-2: Example: Placing the tray with epT.I.P.S. Motion Reloads on the TipHolder

Prerequisites

- The pipette tips are undamaged.

1. Check that boxes that are used multiple times are undamaged and do not show any signs of abrasion.
2. Place the tray on an appropriately-sized box.
   The notch in the tray must be on the labeled side of the box.

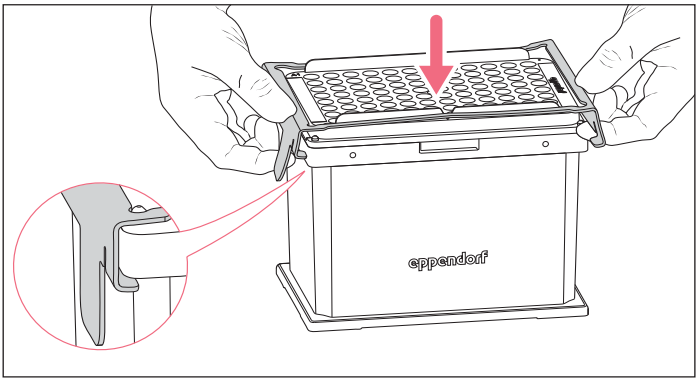

Fig. 4-3: Attaching the clip to the rack for pipette tips 1000 µL

3. For trays with pipette tips 1000 µL use a clip. Place the clip on the tray from above. Bend the 4 tabs at the corners so that they grip around the tray. The tray is protected against lifting.

When using clips, do not stack the boxes.

4. Place the box on an ep*Motion* worktable location with the label facing the front.

4.1.2 Loading the epBlue worktable

It depends on the epMotion software version how the epBlue worktable is loaded.

Size of the pipette tips	Labware definitions in epBlue version < 40.5	Labware definitions in epBlue version > 40.5
10 µL	• Pipette tips 10 µL are not supported by epBlue Version < 40.5.	The labware definition contains the dimensions of the TipHolder and the tray. Separate labware definitions are available for all types of epT.I.P.S. Motion Reloads. • epT.I.P.S. Motion Reloads xx µL: labware definition *Reload_tipxx*
50 µL	• Height adapter 40 mm: labware definition *Adap_40* • epT.I.P.S. Motion rack 50 µL: labware definition *tip50*	
300 µL	• Height adapter 40 mm: labware definition *Adap_40* • epT.I.P.S. Motion rack 50 µL: labware definition *tip300*	
1000 µL	• epT.I.P.S. Motion Rack 1000 µL: labware definition *tip1000*	

4.2 Inserting epT.I.P.S. Motion Reloads in the ep*Motion* 96 or the ep*Motion* 96xl

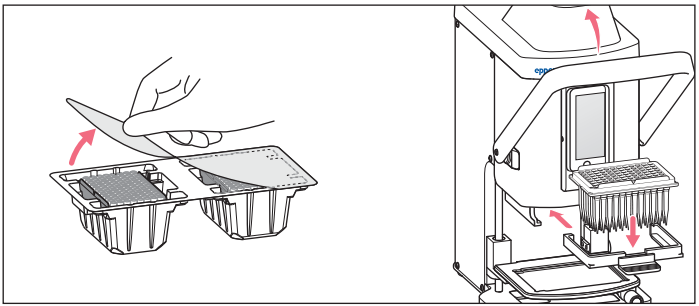

Fig. 4-4: Example: Inserting the tray with epT.I.P.S. Motion Reloads in the ep*Motion* 96

Prerequisites
- Tray and pipette tips are undamaged.

1. Pull the lever forward.
2. Remove the loading frame from the device.
3. Insert the tray with pipette tips in the loading frame.
   The notch in the tray points toward the handle of the loading frame.
4. Insert the loading frame.
5. Push the lever backward.

5 Cleaning

epT.I.P.S. Motion Reloads are intended for single use. Pipette tips and trays must not be cleaned and used multiple times.

Racks, SafeRacks, TipHolders, and clips can be cleaned with the following agents:
- 70% (v/v) ethanol
- 3%–4% sodium hypochlorite solution
- Reagents DNA-ExitusPlus and ExitusPlus IF

Racks and SafeRacks must not be autoclaved.

6 Transport, storage and disposal

6.1 Storage

Racks, SafeRacks and Reloads must be placed with the bottom side down during storage. This ensures that the pipette tips are hanging in the trays.

6.2 Disposal

Dispose of used pipette tips and trays in accordance with the safety data sheets, safety regulations and laboratory guidelines.

Dispose of the packing in accordance with the marking and comply with the legal regulations.

7 Technical data

7.1 Material

Pipette tips	Polypropylene (PP)
Filters of the pipette tips	Polyethylene (PE)
Trays	Polypropylene (PP)
Protective foil of the racks	Polyethylene (PE)
Blister package	Polybutylene terephthalate (PET)

7.2 Ambient conditions

Tab. 1: Ambient conditions during operation

Ambience	For indoor use only.
Ambient temperature	5 °C – 40 °C
Relative humidity	10 % – 95 %, non-condensing
Atmospheric pressure	79.5 kPa – 106 kPa

Tab. 2: Ambient conditions during storage

Temperature during storage in transport packing	-20 °C – 55 °C
Temperature during storage without transport packing	-5 °C – 45 °C
Relative humidity	10 % – 95 %
Atmospheric pressure	70 kPa – 106 kPa

8 Ordering information

Order no. (International)	Description
	epT.I.P.S. Motion Reloads 10 µL
	12 × 2 trays with 96 tips each
0030 014.545	Eppendorf Quality
	epT.I.P.S. Motion Reloads 50 µL
	12 × 2 trays with 96 tips each
0030 014.421	Eppendorf Quality
	epT.I.P.S. Motion Reloads 300 µL
	12 × 2 trays with 96 tips each
0030 014.464	Eppendorf Quality
	epT.I.P.S. Motion Reloads 1 000 µL
	12 × 2 trays with 96 tips each
0030 014.502	Eppendorf Quality
	epT.I.P.S. Motion Filter Reloads 10 µL
	12 × 2 trays with 96 tips each
0030 014.553	PCR clean
0030 014.561	PCR clean and Sterile
	epT.I.P.S. Motion Filter Reloads 50 µL
	12 × 2 trays with 96 tips each
0030 014.430	PCR clean
0030 014.529	PCR clean and Sterile
	epT.I.P.S. Motion Filter Reloads 300 µL
	12 × 2 trays with 96 tips each
0030 014.537	PCR clean and Sterile
0030 014.472	PCR clean
	epT.I.P.S. Motion Filter Reloads 1 000 µL
	12 × 2 trays with 96 tips each
0030 014.510	PCR clean
0030 014.570	PCR clean and Sterile
	TipHolder
5075 751.399	for epT.I.P.S. Motion Reloads
	Clip
	for epT.I.P.S. Motion Reloads
5075 751.070	5 pieces
	Box
	for epT.I.P.S. Motion 1 000 µL
0030 014.677	10 pieces
	Box
	for epT.I.P.S. Motion 10 µL, 50 µL, 300 µL
0030 014.669	10 pieces

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