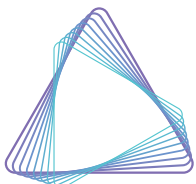
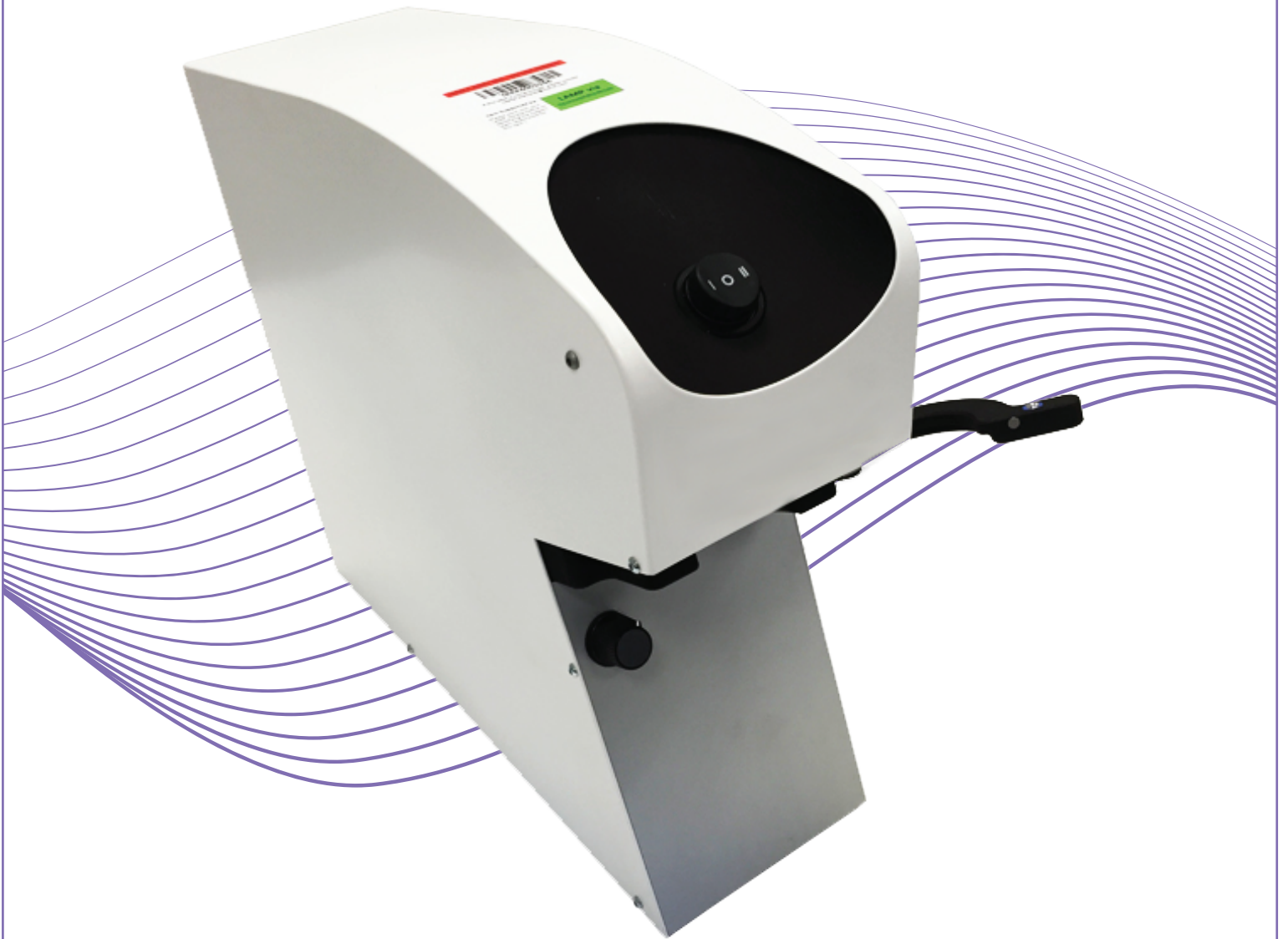


Semi-Automated Screw Cap Decapper User Manual



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Azenta US, Inc.

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This technology is subject to United States export Administration Regulations and authorized to the destination only; diversion contrary to U.S. law is prohibited.

Original manual printed in English.

These are the original instructions for the Semi-Automated Screw Cap Decapper.



Corporate Headquarters

2910 Fortune Circle West
Indianapolis, IN 46241 U.S.A.

European Union Representative

Im Leuschnerpark 1B
64347 Griesheim, Germany

For Technical Support:

Location	Contact Number	Website
North America	+1.888.2.AZENTA (+1.888.229.3682)	www.azenta.com
Europe	+44.0.161.777.2000	
Japan	+81.45.4477.5570 (ext. 24)	

Revision History

Part Number: 337442

Semi-Automated Screw Cap Decapper User Manual

Revision	ECO Number	Date	Explanation of Changes
Revision A	EC119082	03/02/2020	Initial completion of the manual.
Revision B	EC132461	10/26/2021	Updated branding.

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1. Safety



DANGER

Read the Safety Chapter

Failure to review the Safety chapter and follow the safety warnings can result in death or serious injury.

- All personnel involved with the operation or maintenance of this product must read and understand the information in this safety chapter.
- Follow all applicable safety codes of the facility as well as national and international safety codes.
- Know the facility safety procedures, safety equipment, and contact information.
- Read and understand each procedure before performing it.









This product is intended for laboratory use and should be serviced only by Azenta or Azenta trained representatives. The manuals and related materials are provided in English at no charge and are intended for use by experienced lab technicians. It is the responsibility of the user to obtain and assure the accuracy of any needed translations of manuals. If you require assistance please contact Azenta service department. Contact information can be found at www.azenta.com.

If additional safety related upgrades or newly identified hazards associated with the Semi-Automated Screw Cap Decapper are identified, Azenta Technical Support notifies the owner of record with a Technical Support Bulletin (TSB).


General Safety Considerations

The Semi-Automated Screw Cap Decapper may be used as a decapper and recapper only, to be used with assay tubes. The unit is set up for a specific size of tube, the user should not attempt to make any changes to these settings.

 CAUTION Unauthorized Service	
<p>Personal injury or damage to equipment may result if this product is operated or serviced by unauthorized personnel.</p> <ul style="list-style-type: none"> • Only qualified personnel are allowed to transport, assemble, operate, or maintain the Product. • Properly qualified personnel are those who have received certified training and have the proper qualifications for their jobs. 	
 CAUTION Inappropriate Use	
<p>Use of this product in a manner or for purposes other than for what it is intended may cause equipment damage or personal injury.</p> <ul style="list-style-type: none"> • Only use the product for its intended application. • Do not modify this product beyond its original design. • Always operate this product with the covers in place. 	
 CAUTION Damaged Components	
<p>The use of this product when components or cables appear to be damaged may cause equipment malfunction or personal injury.</p> <ul style="list-style-type: none"> • Do not use this product if components or cables appear to be damaged. • Place the product in a location where it will not get damaged. • Route cables and tubing so that they do not become damaged and do not present a personal safety hazard. 	

Regulatory Compliance and Declaration of Conformity

The Semi-Automated Screw Cap Decapper meets the requirements of the European Union's Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive 2014/30/EU, and 2011/65/EU Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment. In accordance with the directives, Azenta Life Sciences has issued a Declaration of Conformity and the Semi-Automated Screw Cap Decapper has a CE mark affixed.

DOCUMENT NUMBER: 337137	TITLE: Declaration of Conformity, Machinery Directive	
REVISION: C	DOCUMENT CLASSIFICATION: 04-Form, Template or Other	
ECO# EC132455		

DECLARATION OF CONFORMITY

Description: Semi-Automated Screw Cap Decapper, 1-channel, with interchangeable cap drivers and multiple torque settings

Function: The device is a compact semi-automatic single tube decapper/recapper designed for de-capping/re-capping handheld test tubes. This device is compatible with all standard size tubes with either screw caps or septum caps. Specific configurations are required for each rack model. The unit is set up for a specific tube size. Suitable for use in a laminar flow cabinet.

Product code: 46-6001

Business name and full address of the manufacturer of the machinery:

Azenta Life Sciences, Northbank, Irlam, Manchester M44 5AY, United Kingdom

Name and address of the person, established in the Community, authorized to compile the relevant technical documentation:

Azenta Life Sciences (Germany) GmbH, Im Leuschnerpark 1B, 64347 Griesheim, Germany

The manufacturer declares:

- That this machinery fulfills all the relevant provisions of Directive 2006/42/EC (Machinery Directive)
 - EN 12100:2010 Safety of machinery. General principles for design. Risk assessment and risk reduction
 - ISO/TR 14121-2:2012 ED2 Safety of machinery. Risk assessment. Practical guidance and examples of methods
 - EN 61010-1:2010+A1:2019 Safety requirements for electrical equipment for measurement, control, and laboratory use. General requirements
- That this machinery fulfills all the relevant provisions of Directive 2014/30/EU (EMC Directive)
 - EN 61326-1:2021 Electrical equipment for measurement, control and laboratory use. EMC requirements. General requirements
- That this machinery is in conformity with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment and amendment 2015/863/EU.
 - BS EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

Year CE Marking Affixed to Product: 2011

Signed for and on the behalf of Azenta Life Sciences:

Rob Woodward

Rob Woodward (Oct 25, 2021 05:58 GMT+1)

Print name: Rob Woodward
Position: Senior Vice President, Global Quality Executive Management
Place: Irlam, Manchester

Confidential: The information is confidential and is to be used only in connection with matters authorized by Azenta and no part of it is to be disclosed to others without prior written permission from Azenta.

Date Printed: Saturday, October 23, 2021

This is uncontrolled when printed

PAGE 1 OF 1

2. Overview

Semi-Automated Screw Cap Decapper is designed to reduce the risk of injury resulting from repetitive movements.

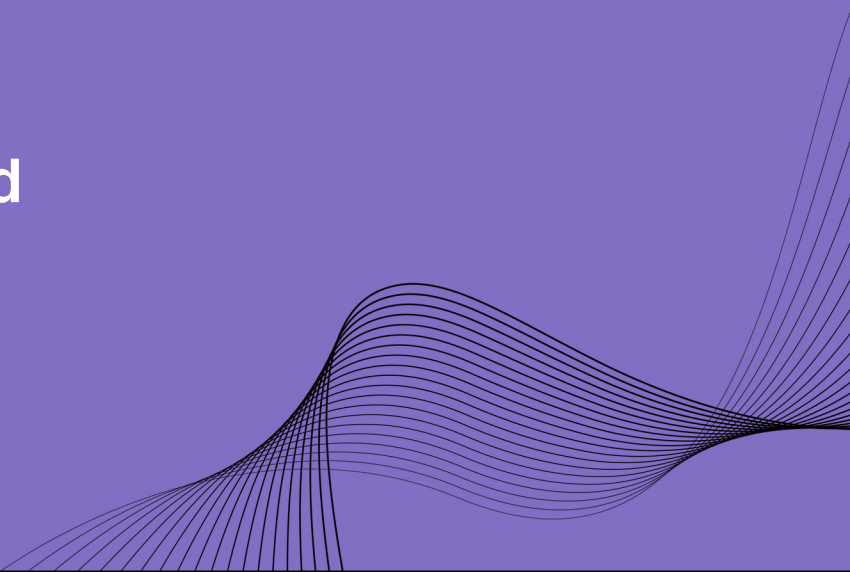
Compatible with all standard size tubes with screw caps.

To use, simply place the tube into the gripping system. The Semi-Automated Screw Cap Decapper will start automatically while the operator gently holds the tube in place.

Cycle time is less than 3 seconds.

Suitable for use in a laminar flow cabinet.

3. Specifications and Site Requirements



Materials

All components that may come into contact with samples are manufactured from stainless steel, aluminum, or resistant plastic.

Cabinet is soft steel mold with gray powder coating.

Cabinet ingress protection grade IP20.

Unit Dimensions

Table 3-1: Space Requirements

Parameter	Specification
Width	110 mm
Depth	338 mm
Height	295 mm
Weight	5.5 kg

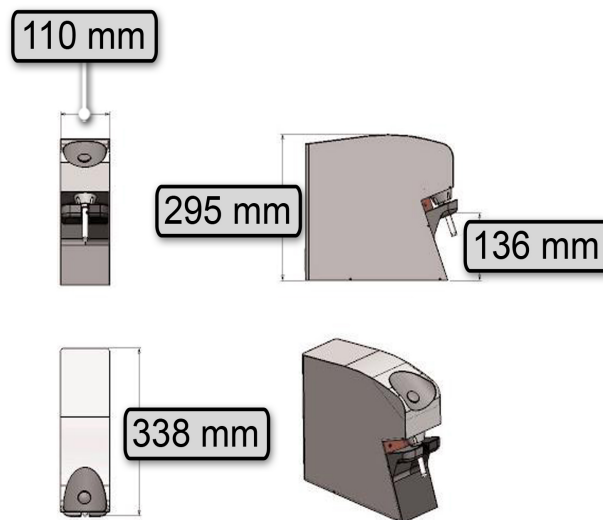


Figure 3-1: Unit Dimensions

Electrical Requirements

The system must only operate with the power supply and frequency specified on the system identification stickers mounted on the side of the device. Operating the system with any other power supply or frequency can result in damage to the equipment.

Table 3-2: Electrical Requirements

Parameter	Specification
Supply Voltage	AC 100 - 240V, 26W
Supply Frequency	50/60 Hz

4. Installation

Unpacking

Step	Action
1.	Check the integrity of the box for external damage.
2.	Place the box on a flat firm surface and open the box.
3.	Remove the top foam insert.
4.	Remove the small box containing the Semi-Automated Screw Cap Decapper associated items.
5.	Remove the unit out of the box and place on a clean, dry flat work bench.

5. Operation

Overview

This chapter provides complete operation directions for the Azenta Life Sciences Semi-Automated Screw Cap Decapper. The operation of the Semi-Automated Screw Cap Decapper is covered for both normal operating conditions and emergency conditions.



DANGER



Read the Safety Chapter


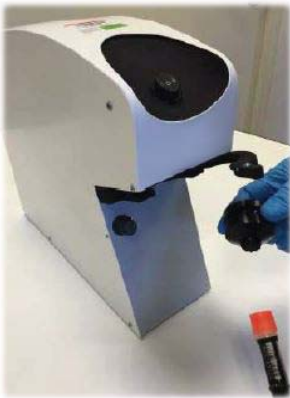

Failure to review the Safety chapter and follow the safety warnings can result in death or serious injury.

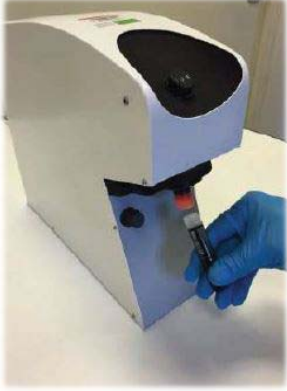

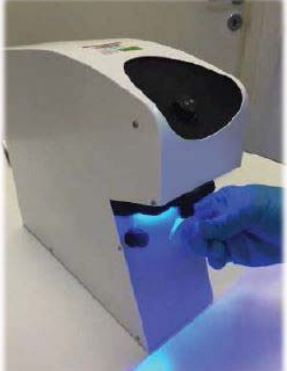
- All personnel involved with the operation or maintenance of this product must read and understand the information in this safety chapter.
- Follow all applicable safety codes of the facility as well as national and international safety codes.
- Know the facility safety procedures, safety equipment, and contact information.
- Read and understand each procedure before performing it.





Theory of Operation

Step	Action
1.	<p>Prepare the cap driver and set the necessary torque.</p> 
2.	<p>Decap the tube and process the samples.</p> 

Step	Action
3.	<p>Recap the tube after processing is complete.</p> 
4.	<p>Change the cap driver for a new tube (if necessary) and set the appropriate torque.</p> 
5.	<p>Decap the tube and process the samples.</p> 

Step	Action
6.	<p data-bbox="318 268 768 296">Recap the tube after processing is complete.</p> 
7.	<p data-bbox="318 779 1146 806">Change the cap driver for a new tube (if necessary) and set the appropriate torque.</p> 
8.	<p data-bbox="318 1266 753 1293">Decap the tube and continue as necessary.</p> 

Operation Procedure

Step	Action
1.	<p>Plug in the power cable and turn on.</p> <p>NOTE: The Semi-Automated Screw Cap Decapper requires a power supply of 100-240 VAC (50/60Hz)</p>
2.	<p>Select the mode of the Semi-Automated Screw Cap Decapper: "o" - alternates automatically between capping and decapping. "I" - decap multiple tubes. "II" - cap multiple tubes.</p> 
3.	<p>Place a capped or uncapped tube smoothly onto the gripping system.</p> 
4.	<p>The decapping/recapping process starts automatically.</p>

6. Preventative Maintenance



Overview

The Semi-Automated Screw Cap Decapper needs only minimum maintenance to operate.

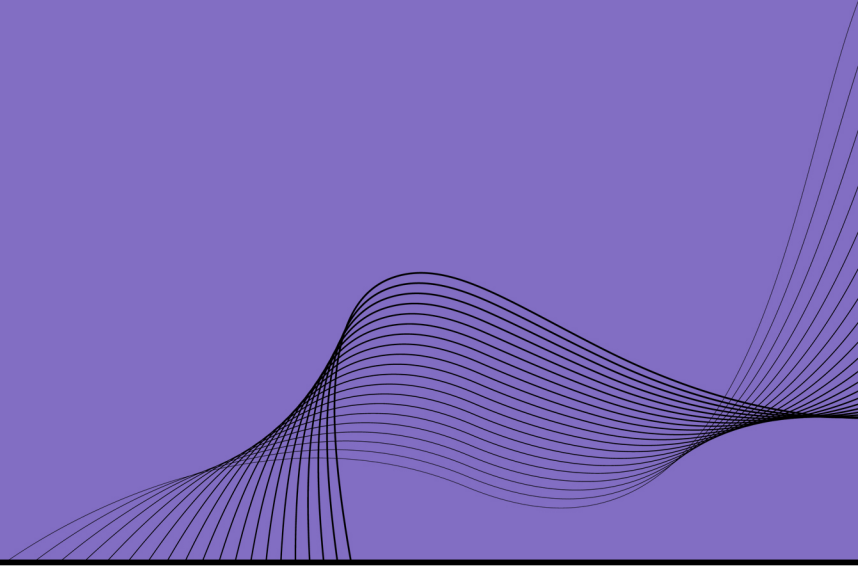
Schedules and Procedures

Periodic Cleaning	Clean the unit using alcohol wipes, non-bleach disinfecting wipes, or germicidal disposable wipes.
Gripper	Remove the gripper from the unit by unlocking the handle that holds the part and ensure it is clean of dust and debris. See " Gripper Check " on page 19.

Gripper Check

Step	Action
1.	<p data-bbox="318 331 963 359">Unlock the handle on the Semi-Automated Screw Cap Decapper.</p> 
2.	<p data-bbox="318 926 686 953">Remove the cap driver from the unit.</p> 
3.	<p data-bbox="318 1520 902 1547">Inspect the gripper to ensure it is clean of dust and debris.</p>

7. Appendices



The following contains appendices to the manual.

Appendix A: Warranty

The Semi-Automated Screw Cap Decapper is covered by a 1 year warranty. Contact Azenta Life Sciences for more details.

Appendix B: WEEE Statement (European Union)



The symbol above indicates that Waste Electrical and Electronic Equipment (WEEE) is not to be disposed of as unsorted municipal waste. Equipment marked with this symbol is to be collected separately.

The objectives of this program are to preserve, protect and improve the quality of the environment, protect human health and utilize natural resources prudently and rationally. Specific treatment of WEEE is indispensable in order to avoid the dispersion of pollutants into the recycled material or waste stream. Such treatment is the most effective means of protecting the customer's environment.

The waste collection, reuse, recycling, and recovery programs available to Azenta Life Sciences customers, vary by customer location. Please contact the responsible body (e.g., your laboratory manager) for information about local requirements.

Appendix C: Tube Grippers

A common list of compatible grippers is displayed in the following table. For more information about the complete list of compatible grippers, please contact your Azena representative.

Tube	Cap Driver	Description
		46-6002-1: Gripper kit, TRP tube 50ml Cap (Fujifilm)
		46-6002-2: Gripper kit, BD Falcon tube 50ml Cap
		46-6002-3: Gripper kit, BD Greiner tube Cap
		46-6002-4: Gripper kit, Sarstedt 0.5 & 1.5 & 2.0ml Cap
		46-6002-5: Gripper kit, Azena 6 & 10ml Automation-Friendly Cap
		46-6002-6: Gripper kit, Corning 21mm Cap
		46-6002-7: Gripper kit, Azena 6.0 & 10ml External Cap
		46-6002-8: Gripper kit, Azena 4.0ml Glass Jacket Tube Cap
		46-6002-9: Gripper kit, Ø 50mm Cap for glass container

Tube	Cap Driver	Description
		<p>46-6002-10: Gripper kit, Azenta / Greiner Ext & Sarstedt Internal Cap</p>
		<p>46-6002-11: Gripper kit, Greiner/Corning 1.2ml - 5.0ml Cap</p>
		<p>46-6002-12: Gripper kit, Fisher Custom Tube Cap dia. 16mm</p>
		<p>46-6002-13: Gripper kit, Falcon 15mm dia. centrifuge tube</p>
		<p>46-6002-14: Gripper kit, Azenta 96-format External & Internal Co-Molded Caps</p>
		<p>46-6002-15: Gripper kit, Sarstedt 12ml screwcap tube (60.9922.937); dia. 16mm</p>
		<p>46-6002-16: Gripper kit, 3.5ml 14mm dia. False Bottom MarketLab Tube (Inpeco tube, EXT)</p>
		<p>46-6002-17: Gripper kit, Glass Vials, 4ml (dia. 15mm,length 48mm, GNF)</p>
		<p>46-6002-18: Gripper kit, 50ml, green cap, dia. 35.8mm, customized tube for optimum processing</p>