

Product Diagram



Figure 1

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appZAP

UV Pipette Carousel



Instruction Manual



For the Life Scientist

Introduction

Thank you for your purchase of the appZAP UV Pipette Carousel. The appZAP is designed to protect sensitive assays and cell lines from contamination caused by carry over on pipette shafts. The 254nm germicidal lamp in the base of the appZAP is reflected by a highly mirrored surface to expose the bottom part of the pipette shaft to 360° of UV light. In one 28 minute exposure, UV light breaks the bonds in DNA, causing thymine dimers to form. This results in microorganisms being unable to grow or replicate, and, ultimately, in cell death.

Before operating the appZAP Pipette Carousel, please read this instruction manual carefully.

Technical Data

Capacity:	6 single channel pipettes
Lamp:	25nm, UV-C, non-ozone, 450µw
Lamp Life:	Approximately 2,000 hours
Cycle Time:	28 minutes
Housing:	UV-resistant polycarbonate
Reflector:	Mirrored polyester film
Dimensions:	17cm diameter, 33cm height
Electrical:	100-240V, 50/60 Hz, 240W, 1A
Warranty:	2 years

Setting up the appZAP

Carefully remove the appZAP Pipette Carousel from the packaging then place on a flat, stable surface away from direct sunlight, water sources and heat sources. Keep the packaging until the unit is shown to be in proper working order.

Ensure the proper power cord has been received for the local power supply. Plug the power cord into the back of the appZAP and then plug the other end into a properly grounded wall socket.

The appZAP is now ready for use.

Operation

The appZAP Pipette Carousel will accommodate 6 single pipettes in the universal holsters. Pipettes should be placed in the carousel with the tip ejector to the outside as shown in Figure 1.

Note: Use with UV resistant pipette brands only, e.g appPETTE, Gilson®, HTL® (the shafts on some inexpensive pipettes will yellow and become brittle over time from UV exposure). If in doubt, check with your pipette's manufacturer. Most reputable brands are UV resistant.

Remove the pipette tip before placing the pipette into the holster. For best results, the shaft of the pipette should be wiped with ethanol and a soft cloth before placing in the carousel. It is also recommended that steel tip ejectors be occasionally autoclaved.

To begin the Auto-Decon™ cycle, press the "Start" button on the base of the unit as show in Figure 2, below. The Auto-Decon cycle will start immediately and take 28 minutes to complete. The chamber of the appZAP will glow slightly when the UV light source is activated.



Figure 2:
Position of Start button on the base

Once the cycle is complete, the pipettes can be removed from the carousel and used immediately. There is no waiting for pipettes to dry or cool and no recalibration is necessary. Alternatively, pipettes may be stored in the carousel for future use.



Never look down in to the pipette chamber when the Auto-Decon cycle is running

While the appZAP has been designed for user safety, looking in to an empty pipette position may expose the user to UV light. UV light can cause damage to the eyes and should be avoided.

The carousel can be rotated for easier access to the pipettes. Rotate the carousel by the knob at the top of the unit only.

Care and Maintenance

The exterior of the appZAP should be wiped down periodically with a soft cloth. Do not immerse the unit in water or place anything other than a pipette in the holsters. Do not attempt to clean the mirrored surface. Should cleaning be required, please contact Appleton Woods.



Take care not to let any particulate matter enter the appZAP as this will reduce the effectiveness of the germicidal lamp. Do not place pipette tips in the appZAP.



If the appZAP will not be used for an extended period of time, unplug the unit and cover the carousel to prevent dust from entering the UV chamber.



DO NOT ATTEMPT TO OPEN THE appZAP. There are no user serviceable parts inside. Opening the unit can result in injury and will void the warranty. Touching the light source can leave residues that will cause serious damage to the light source.

The lamp in the appZAP contains mercury and must be recycled. The lamp has an expected lifetime of 2,000 hours. Should replacement be required, please contact Appleton Woods on 0121 458 7740 or email info@appletonwoods.co.uk.

Warranty

AppZAP UV Pipette Carousel is covered by the **Appleton Promise** which means that should any faults arise within the 2 year warranty period it will be replaced free of charge. Damage from neglect, abuse, misuse or dropping the unit will not be covered under the warranty.

