

RIDA qLine[®] Orbital Shaker





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User Manual RIDA qLine[®] Orbital Shaker

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Carefully read this manual before using the device, and make the manual available to all users. Failure to observe the instructions in this manual will void the manufacturer's warranty and can pose a risk to users.

Make sure that all users are familiar with the device. When in doubt, contact R-Biopharm AG if you need additional equipment or training before using the device.

1 General information

1.1 Unpacking the device

Examine the outer box containing the instrument. Look for damage, e.g., dented walls, chemical damage to the box, water marks, or other signs of physical distortion that could have damaged the package's contents. If you detect damage, immediately contact the shipper and ask about the actions that need to be taken.

Note: If all components are undamaged and all parts are complete, you can start operating the device after reading through the user manual.

1.2 Safety information

1. Read this user manual in its entirety before operating the device. Items that require special attention within your area of application need to be marked so that they immediately catch the eye.

- 2. This user manual needs to be available at all times, especially to the people who would like to use this device. Therefore, keep this user manual in the proximity of the device. Strictly observe this user manual.
- 3. Use only original spare parts and original accessories from the manufacturer. These parts are tuned to the tight tolerances of the device and ensure reliability.
- 4. Always work in accordance with the regulations on good laboratory practice. The guidelines for working in medical laboratories must be observed. Wear a lab coat and follow the safety standards in your laboratory.
- Be careful when working with infectious material, and precisely follow the safety information. Always wear gloves for your own safety.
 Follow the safety regulations of your laboratory if infectious substances come into contact with your skin.
- 6. Only professional users may operate this device.

Explanation of the safety information in the user manual

Symbol	Description
	Warning! Follow the instructions to avoid the risk of injury.
A	Warning! Follow the instructions to avoid the risk of injury.
4	Warning! Potential electrical shock
	General safety information Follow the instructions to ensure optimal performance of the device.





Note:

Failure to follow the safety and operating instructions in the user manual and improper handling of the device can impact the safety that the device affords and will void the warranty.



Important:

Only trained users may operate the device.



Important:

Do not use this device in an unsafe environment and especially not in an explosionhazardous environment.



Important:

The main switch of the control box does not completely disconnect the device from its power source. Only one phase is disconnected. To completely disconnect the device from the electrical grid/power supply, unplug the power plug.



Note:

Make sure that all safety information for the device and on the device itself is clearly visible during operation.



Important:

Do not open the device. Repairs are reserved to trained service technicians.



Important:

Do not use flammable media together with the device or in its immediate vicinity.

2 Operation and description of the RIDA qLine[®] Orbital Shaker

2.1 Description

The RIDA qLine[®] Orbital Shaker is a shaker that has orbital shaking motion. The power switch on the front side is used to switch on and off the device. The speed is set to 300 rpm by default. Users cannot change the speed.

2.2 Intended use

For *in vitro* diagnostic use. The RIDA qLine[®] Orbital Shaker is a device for shaking the RIDA qLine[®] Allergy strips during the incubation steps.

The product is intended for professional use.



Important:

Do not use flammable media together with the device or in its immediate vicinity.



Important:

The user is responsible for determining whether the device is suitable for the user's application. If you are in anyway unsure,

talk to your distributor or directly with the manufacturer.



Important:

Always use this device in such a way that neither the user nor any other person could be endangered.



2.3 Dimensions and installation of the RIDA qLine[®] Orbital Shaker

The following image shows the installation dimensions, such as length × width × height.





Important:

Make sure that the device is resting on all 4 feet. The device must be placed on a horizontal surface.



Important:

When installing the device, ensure the device has adequate safety distances in its immediate vicinity. The shaker unit needs to have a safety distance of at least 2 cm away from surrounding objects.

These safety distances refer only to the proper functioning of the device and not to fire hazards.

Do not use flammable media in the immediate vicinity of the device.

2.3.1 Ventilation requirements during operation

Ensure adequate and constant ventilation of the RIDA qLine[®] Orbital Shaker during operation. The shaker's ambient temperature should not exceed 40 °C. As a user, you are responsible for providing adequate ventilation to ensure that the device does not overheat.

Users are responsible for the ventilation. It is up to the user to judge whether this ventilation is damaging to the method/application.

If the instructions are not followed, the safe operation of the device cannot be ensured and there is a possibility of a risk to people and property.

2.4 Scope of delivery

2.4.1 Included in the delivery

Product

RIDA qLine[®] Orbital Shaker

User manual

Power supply unit with 4 different power adapters

2.4.2 Required accessories, not included with the device

Product	Item no.
RIDA qLine® Incubation Set	ZG1108



2.4.3 Required consumables, not included with the device

Product	ltem no.
RIDA qLine® QC-Kit (for qLine soft)	ZG2701
RIDA qLine [®] Allergy	 A6442, A6242, A6342, A6142, A6142EC2, A6142VIET, A6142PSMI, A6442UA1, A6242H, A6242PA, A6342UY, A6142UZ, A6442TZA, A6342MENA, A6442UZ, A6442BY, A6342KE, A6342BY, A6142HVEN, A6142UY, A6442UA2, A6242GR, A6342PH, A6242PH, A6142BY, A6242BY, A6242UY, A6142ZW2, A6142EAWU, A6242EAWU, A6342EAWU, A6442EAWU, AW2001, AW2002, AW2003, AW2004

2.5 Operation of the RIDA qLine® Orbital Shaker

Ensure that the device is operated only under the ambient conditions described in the "Technical data" section. Read the user manual before operating the device. Follow all instructions stated in the user manual.

Once the device is connected to a suitable power source and is switched on at the power switch on the front side, the shaker unit starts moving in its orbital shaking motion. Once the power switch is switched off, the shaking platform returns to a stop.



Important:

The control unit's main switch does not completely disconnect the device from the power supply when the device is switched off. The main switch disconnects only one phase. To completely disconnect the device, unplug the plug from the power supply.

Func- tion	Potential error	Possible causes	Possible effects	Possible check of individual functions	Possible remedies
Shaking of the platform	Device does not shake.	 Not connected to power. Shaking platform is stuck. Shaking platform overloaded. 	Effects on the application itself are to be determined by the user.	External visual inspection of the speed (with the eye or an external tachometer)	Once user errors have been ruled out, switch off the device on the power switch. Check to make sure the device is standing freely so that the shaking platform can move freely. After a short time, switch on the device again.
Shaki	Device shakes uncontrol- lably or at the wrong speed.	 Shaking platform is stuck. Defective control electronics. 	Effects on the application itself are to be determined by the user.	External visual inspection of the speed (with the eye or an external tachometer)	If the device still does not work as specified, contact the manufacturer or supplier of the device.

2.6 Device malfunctions



3 Maintenance and service

3.1 Service and repairs

If you have any other questions about installation, operation, or maintenance, contact R-Biopharm AG or your distributor.

Do not make any electronic or mechanical repairs to the device. Inside the device, there are no parts that users can service or repair. User repairs can cause damage to the electronics. They can also void the warranty.



Important:

Do not open the device. Repairs are reserved to trained service technicians.



Important:

In the event of a repair: Return the device to the manufacturer or supplier. Make sure that the device was adequately cleaned/decontaminated before it is returned.

3.2 Device cleaning and decontamination

Use a soft, lint-free cloth <u>moistened</u> with a mild soap solution (water and commercial detergent) to wipe off the device's external surfaces and user elements. Do not use a wet cloth, and use only a small amount of cleaning agent. Do not clean the surfaces with acids, chlorinated solvents, or saline solutions.

Do not scour or scratch the device; otherwise this causes damage to labels and surfaces. If you use cleaning agents other than the ones mentioned in this manual, make sure beforehand that the intended method does not cause damage.

4 Uninstalling and disposal

Due to its properties and possible applications, the device needs to be handled properly. Follow the instructions below for handling the device:

4.1 Uninstalling the device

When uninstalling/removing the device and its components, follow the steps below:

- 1. First, switch off the RIDA qLine[®] Orbital Shaker using the power switch.
- 2. Disconnect the power cord from the power supply.
- 3. Now you can remove the shaker and its components from the work area.

4.2 Disposal of reagents and materials

Users are responsible for the proper disposal of all reagents and materials after use. Users are responsible for the proper disposal of instruments at the end of the life cycle. For disposal, please adhere to national regulations.

4.3 Device disposal

Waste Electrical and Electronic Equipment (WEEE) Directive of the European Union (EU).

Damaged and/or defective electrical and electronic equipment must be taken to recycling



center that accepts e-waste. The packaging material also needs to be disposed of in an environmentally friendly way (separation of materials).

Devices sold in EU countries must be labeled appropriately. The WEEE Directive stipulates that customers and end users in EU countries may not dispose of electrical and electronic devices or electrical and electronic accessories in the household waste. Within the EU, contact your local distributor or the customer service of your device supplier to get more information on WEEE disposal/returns.

5 Packaging and storing the device

5.1 Packaging the device



Important:

Before packaging, make sure that the device was adequately cleaned/ decontaminated. Users who want to unpack and operate the device at a later time should not be left unaware of potential risks. Users bear responsibility for direct and indirect injury to people and damage to property that can result from the media they used as long as they are not responsible for adequate labeling of possible hazards.

If possible, use the original packaging to package the device. If you cannot use the original packaging, label the outside of the package with the following information:

- Glass symbol (caution: fragile)
- Umbrella (protect against moisture)
- Packaging unit (information on the contents)

5.2 Storing the device

Follow the instructions below for proper storage of the shaker.

- 1. Package the shaker in a plastic bag.
- Ensure the following ambient conditions are met: Max. ambient temperature: 5 °C - 40 °C Max. humidity: 80 %

6 Warranty and exclusion of liability

The manufacturer is obligated to remedy any errors in the material or processing of this device experienced by the purchaser that occur within the first 24 months upon delivery of the device by either repairing or, at the manufacturer's option, replacing the device. If the device is replaced, the warranty will still be valid until the end of the 24-month period from the date of purchase.

Contact the distributor for all customer service.

The warranty becomes void if the defect or malfunction is caused by an accident, negligence, improper use, improper servicing, or other reasons that are not due to defective materials or incorrect processing.

All claims to warranty are limited to the professional and proper use of the device under observance of the general safety regulations and this user manual. The manufacturer is not obligated whatsoever to any services other than those contained in this declaration of warranty. In particular, personal injury and property damage resulting from defective parts or other malfunctions are excluded from liability.

The manufacturer's obligation is limited in its scope to the repair or replacement of defective parts. Under no circumstances is the manufacturer required to compensate for damages for consequential damage of any type that can arise from the use and possession of this device.





Important:

If the device fails, do not attempt to repair it. The device does not contain any parts that can be serviced or repaired by the user. User repairs will void the warranty.



Important:

Do not open the device. Repairs are reserved to trained service technicians.

7 Technical data

Technical data: Standard conditions: 20 °C , 1013 mbar

Speed, constant, rpm: $300 \pm 10\%$ Orbit, mm: 3.0Shaking type: orbital, horizontal Power supply: $24 \lor DC/15 \lor$ westernal power supply unit Device dimensions, $W \times H \times D$, mm: $180 \times 150 \times 90$ Installation area, $W \times D$, mm: 170×140 Weight, kg: 1.6

Operating elements:

Power supply: ON/OFF switch lights up

Working conditions:

Ambient temperature, °C: 5 - 40 Max. humidity, %: 80 % relative humidity

Safety functions:

Motor thermal cutoff: Integrated into motor electronics

8 Troubleshooting/information on reporting to authorities

For users in the European Union: Report all serious adverse events associated with the product to R-Biopharm AG and the appropriate national authorities.

9 Conformity to IEC 61326-2-6 and RoHS3

The CE mark on the RIDA qLine[®] Orbital Shaker confirms that the RIDA qLine[®] Orbital Shaker is compliant with Regulation (EU) 2017/746 (*In Vitro* Diagnostic Medical Devices).

In addition, the RIDA qLine[®] Orbital Shaker fulfills the protection requirements of EMC pursuant to IEC 61326-2-6. The RIDA qLine[®] Orbital Shaker is complaint with the current RoHS Directive.



10 Symbols used on the device

Symbol	Description
RIDA qLine [®] Orbital Shaker	Product designation
IVD	For <i>in vitro</i> diagnostic use
REF	Item number
SN	Serial number
▲	Important
X	WEEE Waste Electrical and Electronic Equipment
Ĩ	Follow user manual
and i	Manufacturer
പ	Date of manufacture
	Permissible storage temperature
Ś	Permissible storage humidity

11 Version history

Version number	Chapter and description	
Version 15 (2015-11-15)	Previous version	
Version 16 (2022-03-03)	 IVDR changes: 2.3.1 Ventilation requirements during operation 2.4.2 Required accessories, not included with the device 4.2 Disposal of reagents and materials 8 Troubleshooting/information on reporting to authorities 10 Symbols used on the device 11 Version history 	

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