



VWR PCR Plate Spinner

INSTRUCTION MANUAL

European Catalogi Y Numbers

521-1648	VWR PCR PLATE SPINNER 2 PLATE ROTOR EU plug
521-1649	VWR PCR PLATE SPINNER 2 PLATE ROTOR UK plug
521-1650	ADAPTER FOR STRIPS, TUBES OR HALF PLATES

Version: 2
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EC Declaration of Conformity

Déclaration de conformité CE

EG Konformitätserklärung

We, **VWR International bvba,**
Nous, **Researchpark Haasrode 2020,**
Wir, **Geldenaaksbaan 464,**
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hereby declare that the products, mentioned in Schedule comply with the essential requirements of the following Directives of the European Parliament and council:

déclarons par la présente que les produits mentionnés en annexe sont conformes aux exigences essentielles des Directives du Parlement Européen et du Conseil suivantes :

bestätigen hiermit, daß die Produkte im Anhang den grundlegenden Anforderungen der folgenden Richtlinie des Europäischen Parlaments und des Rates entsprechen:

2006/95/EC	of 17 May 2006 on Machinery <i>du 17 mai 2006 relative aux machines</i> <i>vom 17. Mai 2006 über Maschinen</i>
2004/108/EC	of 12 December 2006 on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits <i>du 12 décembre 2006 concernant le rapprochement des législations des États membres relatives au matériel électrique destiné à être employé dans certaines limites de tension</i> <i>vom 12. Dezember 2006 zur Angleichung der Rechtsvorschriften der Mitgliedstaaten betreffend elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen</i>
2002/95/EC	of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment <i>du 27 janvier 2003 relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques</i> <i>vom 27. Januar 2003 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten</i>
2002/96/EC	of 27 January 2003 on waste electrical and electronic equipment (WEEE) - Joint declaration of the European Parliament, the Council and the Commission relating to Article 9 <i>du 27 janvier 2003 relative aux déchets d'équipements électriques et électroniques (DEEE) - Déclaration conjointe du Parlement européen, du Conseil et de la Commission relative à l'Article 9</i> <i>vom 27. Januar 2003 über Elektro- und Elektronik-Altgeräte - Gemeinsame Erklärung des Europäischen Parlaments, des Rates und der Kommission zu Artikel 9</i>

and are in conformity with the following standard(s) and/or other normative document(s):

et sont conformes à la (aux) norme(s) ou autre(s) document(s) normatif(s) :

und der (die) folgende(n) Norm(en) oder ander(er) normativ(er) Dokument(e) entsprechen:

EN/IEC 61010-1:2001 Ed:2; IEC 61326-1 Issued:2005/12/01 Ed:1.0

IEC 61000-3-2:2000; IEC 61000-3-3:2002

IEC 61000-4-2:2001; IEC 61000-4-3:2002; IEC 61000-4-4:2004; IEC 61000-4-5:2001;

IEC 61000-4-6:2003; IEC 61000-4-11:2004

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EC Declaration of Conformity

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Schedule 1

Annexe 1

Anhang 1

Article Number	Article description
521-1648	PCR PLATE SPINNER 2 PLATE ROTOR EU CENTRIFUGEUSE DE 2 PLAQUES PCR EU MIKROTITTERPLATTENZENTRIFUGE EU
521-1649	PCR PLATE SPINNER 2 PLATE ROTOR UK CENTRIFUGEUSE DE 2 PLAQUES PCR UK MIKROTITTERPLATTENZENTRIFUGE UK

Legal Address of Manufacturer

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Country of origin: USA

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Safety Information

Please follow the guidelines below, and read this manual in its entirety to ensure safe operation of the unit.

- NEVER** use the centrifuge in any manner not specified in these instructions.
- NEVER** put hands in the rotor area unless the rotor is completely stopped.
- NEVER** move the centrifuge while the rotor is spinning.
- NEVER** use solvents or flammables near this or other electrical equipment.
- NEVER** centrifuge flammable, explosive or corrosive materials.
- NEVER** centrifuge hazardous materials outside of a hood or proper containment facility.
- NEVER** continue to operate a centrifuge that is vibrating excessively.
- ALWAYS** load the rotor symmetrically. Each plate should be counterbalanced by another plate of the same brand, type and volume.
- ALWAYS** use plates that have been sealed in some manner to avoid spillage.
- ALWAYS** load plates so that the sealed side faces the centre of the rotor and the bottom of the plate faces out.
- ALWAYS** be sure the plates are pushed all the way to the bottom of the rotor slot before operating the centrifuge.
- ALWAYS** locate the centrifuge within easy access to an electrical outlet.

WARNING! This unit is intended for short run usage only, requiring 15-20 seconds to spin down samples. Inadvertent continuous use could cause sample temperature to rise and the thermal switch to open, which will shut down the motor

Package Contents

Description	Quantity
PCR Plate Spinner	1
Power cord	1
Instruction manual	1

Installation


The VWR PCR Plate Spinner should be placed on a clean, flat surface with sufficient space around it for ventilation. Be sure that both the bench and the unit's rubber feet are clean. Plug the power cord into the back of the unit and the wall socket. Turn the power switch (on the back of the unit) to the "ON" position.

Intended use

The VWR PCR Plate Spinner is a personal centrifuge supplied with a rotor to hold 2 PCR microplates. The VWR PCR Plate Spinner is designed for quick spins of samples in PCR plates. Primarily designed for use with 96 or 384 well plates and small volumes, it will accommodate skirted, non skirted and semi skirted styles. This centrifuge is intended for indoor use.

Symbols and conventions

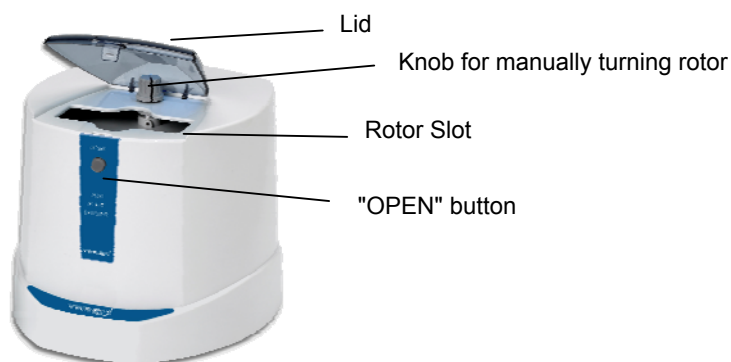
The following chart is an illustrated glossary of the symbols that are used in this manual.

	CAUTION This symbol indicates a potential risk and alerts you to proceed with caution
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Product Specifications

Capacity2 PCR plates
Dimensions 190 x 210 x 183 mm
Max Speed 2,500rpm
Max RCF 500 x g
Power Consumption..... 40 Watts
Electrical230V ~50/60 Hz, 0.3 A (Fuse 0.5 AT)

Description of Buttons and 7 cbhfc`g



Operational keys

Key

Functions



Open button: Used to open lid and stop operation of centrifuge

Operation

To avoid spillage of samples, only plates that have been heat or tape sealed should be placed in the centrifuge. Plates are loaded into the rotor in a vertical position. Lift the clear centrifuge cover to gain access to the rotor (press the “OPEN” button to release the lid if it is locked down). Using the knob on the top of the unit, turn the rotor until the rotor slot lines up with the opening. Carefully, slide the first plate into position so that the sealed side faces the centre of the rotor and the bottom of the plate faces out. Be sure that the plate is pushed all the way down into the slot. Line up the second slot like the first, using the knob on the top of the unit. Load the second plate in the same manner as the first making sure that it is all the way down in the rotor slot. If spinning only one plate, it is extremely important to load a dummy plate of the same brand, style and sample volumes (water can be used) as a counterbalance.

To begin a run, close the lid of the centrifuge. The centrifuge will quickly ramp up to speed. Allow the unit to run for 15 – 20 seconds. This is sufficient time to spin the samples down to the bottom of the wells. To stop, press the “OPEN” button. Once the rotor has stopped, fully open the lid to gain access to your samples. To remove the plates, turn the knob on the top of the unit until the rotor slot lines up with the opening.

Proper loading of a PCR Plate



Note: A slight vibration may be felt when the centrifuge reaches full speed. Excessive vibration indicates that the rotor is not balanced. **DO NOT** run the centrifuge unbalanced. Always use a balance plate of the same brand, type and sample volumes.

Maintenance of VWR PCR Plate Spinner



Before using any cleaning or decontamination methods except those recommended by the manufacturer, check with the manufacturer that the proposed method will not damage the equipment.

To clean the outside housing of the VWR PCR Plate Spinner, use a damp cloth with mild non-corrosive detergent, (pH<8). The rotor slots may be cleaned with a sponge or cloth. Do not pour liquids in or over the centrifuge. Do not immerse the centrifuge in liquid.

Accessories

Description	Quantity	Cat. No.
PCR strip/tube adaptor	2	521-1650

Technical service

Web Resources

Visit the VWR's website at www.vwr.com for:

- Complete technical service contact information
- Access to VWR's online catalogue, and information about accessories and related products
- Additional product information and special offers

Contact us For information or technical assistance contact your local VWR representative or visit. www.vwr.com.

Warranty

VWR International warrants that this product will be free from defects in material and workmanship for a period of two (2) years from date of purchase. If a defect is present, VWR will, at its option, repair, replace, or refund the purchase price of this product at no charge to you, provided it is returned during the warranty period. This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication, or from ordinary wear and tear.

For your protection, items being returned must be insured against possible damage or loss. This warranty shall be limited to the replacement of defective products. IT IS EXPRESSLY AGREED THAT THIS WARRANTY WILL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY.

Equipment disposal



This equipment is marked with the crossed out wheeled bin symbol to indicate that this equipment must not be disposed of with unsorted waste.

Instead it is your responsibility to correctly dispose of your equipment at the end of its life cycle by handing it over to an authorised facility for separate collection and recycling. It is also your responsibility to decontaminate the equipment from biological, chemical and/or radiological contamination, so as to protect from health hazards the persons involved in the disposal and recycling of the equipment.

For more information about where you can drop off your waste of equipment, please contact your local dealer from whom you originally purchased this equipment. By doing so, you will help to conserve natural and environmental resources and you will ensure that your equipment is recycled in a manner that protects human health.

Thank you

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