

Instructions Manual

VWR® PCR Workstation

NA-EU

US Plug:: 10783-132
EU Plug: 732-2541
EU Plug DE: 732-2840 (pre-assembled, available in Germany only)
UK Plug: 732-2542
BE-FR Plug: 732-3900



CE

UK
CA

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Country of Origin: GERMANY

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1 Introduction

The VWR PCR Workstation is designed as an ideal environment for the manipulation of DNA and RNA, especially for the set-up of PCR assays. Contamination can lead to false or misleading results which costs time and money. The VWR PCR Workstation minimises the risk of contamination. It provides a 'separate room', e.g. for the set-up of PCR reactions.

The high intensity surface UV tubes inactivate DNA as a source of contamination between experiments. In addition, a UV Air Recirculator is integrated into the workstation system which reduces airborne contaminants during experiments. UV light is effectively blocked by solid polycarbonate screens to ensure maximum protection for the user.

The surface of the workstation is constructed of stainless steel, which is very robust and can easily be cleaned plus has an antimicrobial effect.

The VWR PCR Workstation offers a controlled environment for PCR and RNA applications that protects your samples and helps to achieve optimal results.

2 Delivery contents

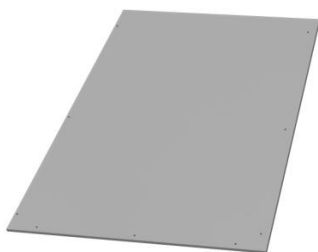
After receipt of the system, please check if the following items are included in the shipment:



① Base (1x)



② Rear panel (1x)



③ Side panel (2x)



④ Front panel (1x)



⑤ Shelf (2x)



⑥ Top assembly (1x)



⑦ Ventilation cover (1x)



⑧ Screw (31x)



⑨ Screwdriver (1x)



⑩ Main cable (1x)

3 Safety Instructions

The PCR Workstation is designed with function, reliability, and safety in mind.

Before using the PCR Workstation please read this entire manual and strictly follow the safety instructions!

Caution: The unit includes shortwave UV, which is a powerful source of UV radiation that will cause damage to unprotected eyes and skin if directly exposed to the UV lamps. Before operating any unit, ensure that the PCR Workstation is not damaged, and that instructions for use of this equipment are followed. A safety shut-off switch automatically turns the UV light off when the front panel is open, protecting users from UV exposure. The polycarbonate panels are UV-blocking.

Intended use of the PCR Workstation: Working environment for protection of PCR reactions / reaction set ups and genetic substances against pollution and contamination.

Safety and protection of the user can not be ensured if the PCR Workstation is used in any manner that is not specified in these instructions. Special notice must be taken of the following:



Caution: Dangerous voltage

Ensure that the voltage requirements of the PCR Workstation exactly match your local AC power supply.
Only use the original AC cable supplied with the PCR Workstation.



Caution: Liquids

Ensure that no liquids can enter the device. Do not place liquids on top of the PCR Workstation.



Caution: Dangerous explosive material

Do not use reactive or explosive substances in the PCR Workstation.



Caution: Damage

Check for transport damage and completeness of the accessories upon arrival. If any damage is noticed, contact your distributor or manufacturer immediately. If you detect any damage of the PCR Workstation or one of its accessories, do not connect the PCR Workstation to the AC wall outlet and do not use the device in any manner!



Caution: Optical radiation

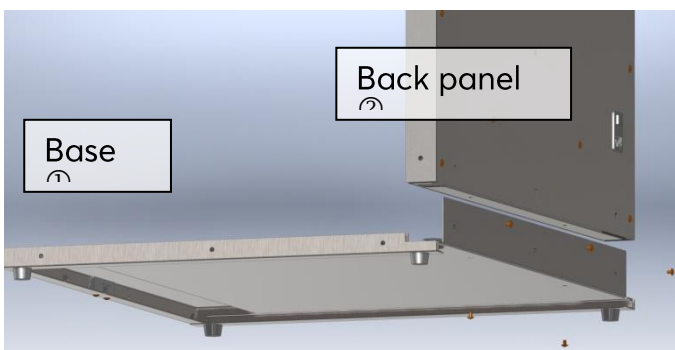
Do not switch on the PCR Workstation if not completely assembled. See "ASSEMBLING THE PCR WORKSTATION" chapter.
Do not look directly into the UV lamps.

4 Assembling the PCR Workstation

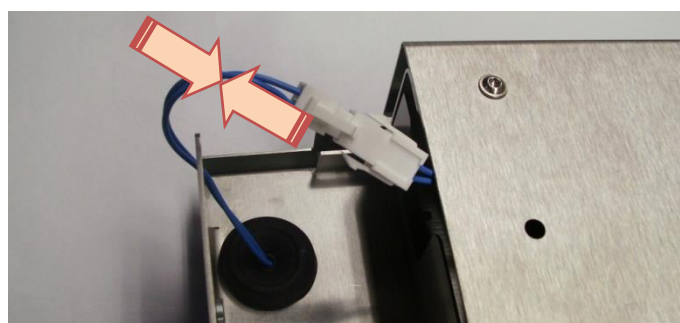
The PCR Workstation should be assembled by two people, directly at the site of operation. We recommend the wearing of safety gloves for hand protection.

Step 1

Put the base ① on an even surface with the rubber feet facing down and the sensor cable outlet facing to the front. Lay the back panel ② onto the base ① with the power outlets facing down, and the power input and the type label facing to the right.



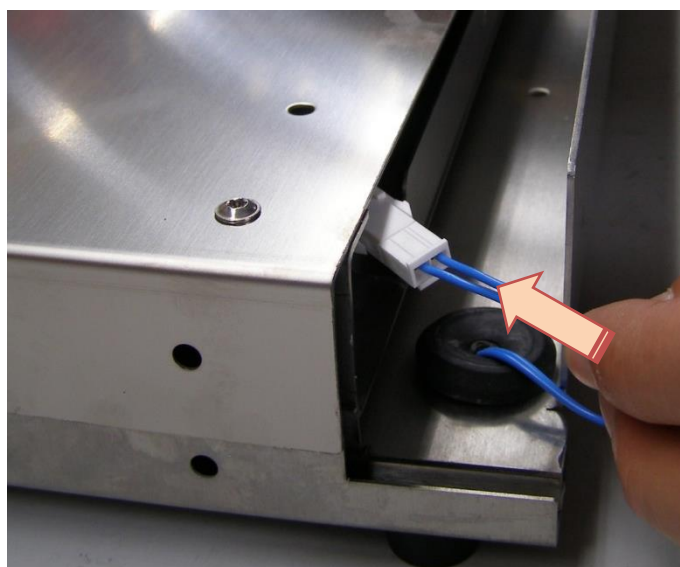
Connect both sensor cables.



Slide the connection assembly into the cavity of the back panel.

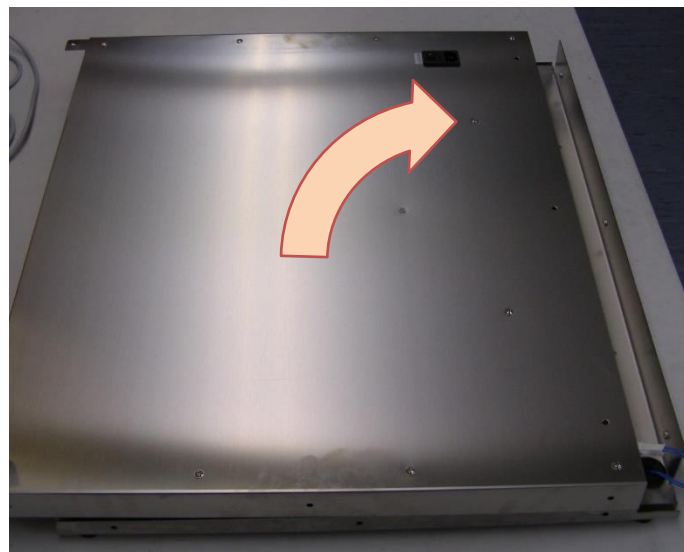


Be careful not to damage the blue sensor cables. Warranty for this type of damage is excluded.



Slot the back panel ② onto the base ①. The connecting link of the base ① must fit in the back panel ②. **Take care not to squeeze the sensor cable.**

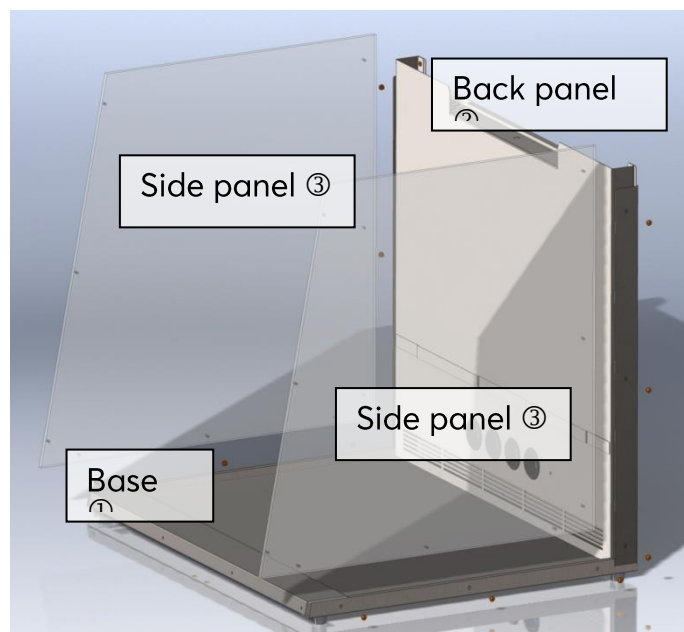
Connect both parts by screwing 3 screws ⑧ into the back side. Use the screw driver ⑨ to do this. Turn the parts around 90° on the site of operation and incline both screwed parts to the back part of the back panel ②. Screw both panels with 2 screws ⑧ from underneath. Tilt back the panels in starting position with the back panel facing backwards.



Step 2

Remove the protective foil from the side panels.

Insert the side panels ③ into the guiding rails at the base ① and push up against the back panel ② within the guiding rails at both sides. Carefully screw the side panels ③ with 3 screws each in the base ① and the back panel ②, respectively. Use the supplied screws ⑧ and the screwdriver ⑨.



Step 3

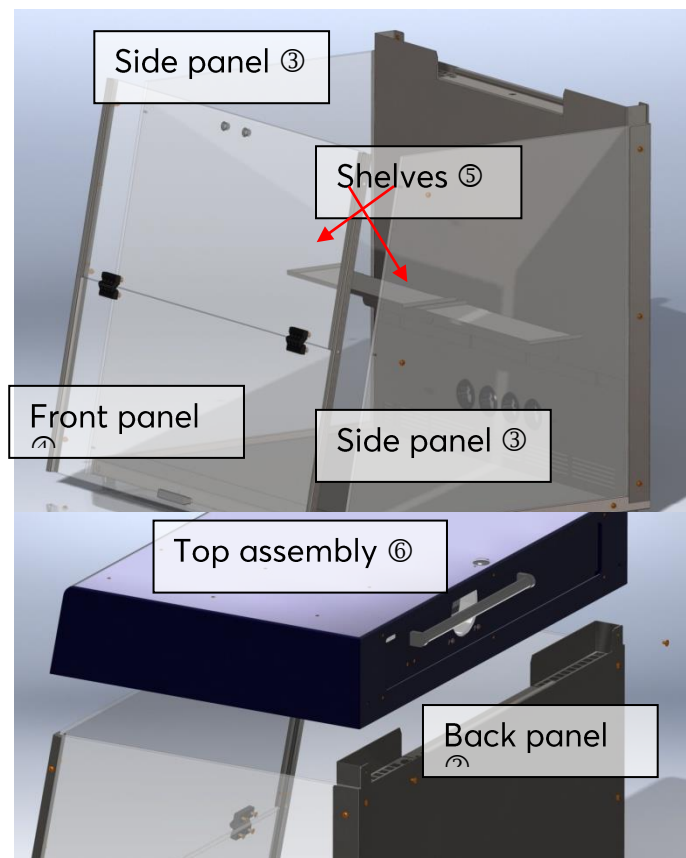
Put the shelves ⑤ into the shelf brackets at the back panel ②.

Remove the protective foil from the front panel.

Put the front panel ④ onto the side panels ③.

Take care that the screw holes of the front panel match the threaded holes in the side panels ③.

Hold the front panel ④ in place. Screw the front panel ④ to both side panels ③ using 3 screws ⑧ each. Use the screwdriver ⑨.



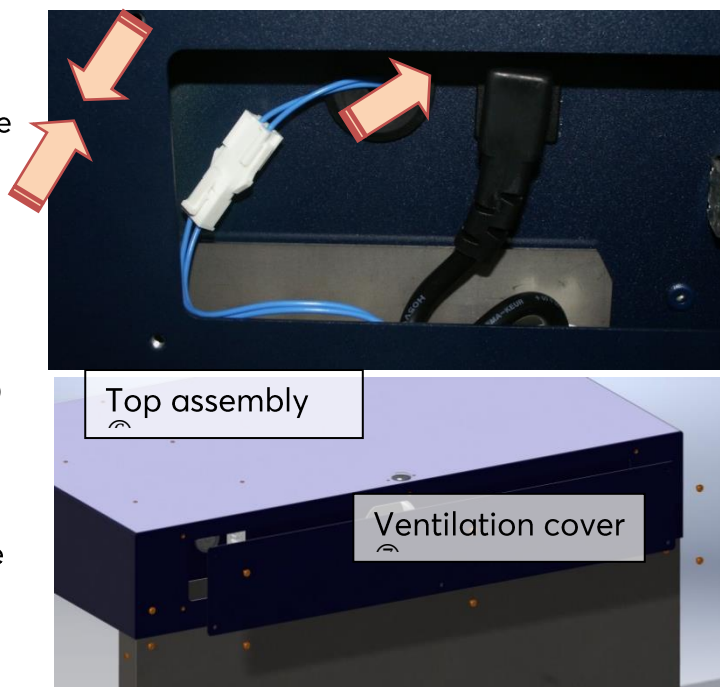
Step 4

Turn the assembled parts around 180°.

Remove the small UV tube at the back of the top assembly.

Put the top assembly ⑥ onto the panels. Take care not to squeeze the cables protruding from the back panel. Screw the top assembly to the back panel ② at two positions. Use the screws ⑧ and screwdriver ⑨ supplied.

Connect the sensor cables from the back panel ② and the top assembly ⑥. Put the power plug of the back panel ② into the power outlet of the top assembly ⑥.



Step 5

Insert the UV tube back in place.

Cover the service access of the top assembly ⑥ with the ventilation cover ⑦. Screw both parts together with 6 screws ⑧. Use the screw-driver ⑨.

Turn the system around 180° and place it at the site of operation as needed.

Finally connect the system to the power supply by plugging the power plug ⑩ from the back panel ② into the local power outlet.

The system is now ready for use.

5 Specifications

5.1 VWR PCR Workstation

Light sources integrated into the top assembly:

- 2x 25 W 254 nm UV light tubes – for effective surface decontamination
- 1x 8 W 254 nm UV light tube – for decontamination of air during work in UV Air Recirculator
- 1x 15 W white light tube – for a bright work surface

Features:

- Four power outlets
- Two shelves made from stainless steel
- Electronic UV timer
- Working area and back panel made from stainless steel
- Front and side panels made from polycarbonate (Makrolon®) that blocks wavelengths below 400 nm

WxHxD:	750x780x620 mm / 29.5x30.7x24.4 inches
Weight:	48 kg / 105.8 lbs
Pollution rate:	2
Environmental temperature range:	+10 to +30 °C
Maximum relative humidity:	70%
Maximum height above sea level:	2000 m
Noise level:	<51 dB (A)
Circulation rate fan:	16m ³ /h +/- 20%

5.2 Power supply

EU/UK/BE-FR version: 220 - 240 V AC, 50/60 Hz, max. 1650 VA

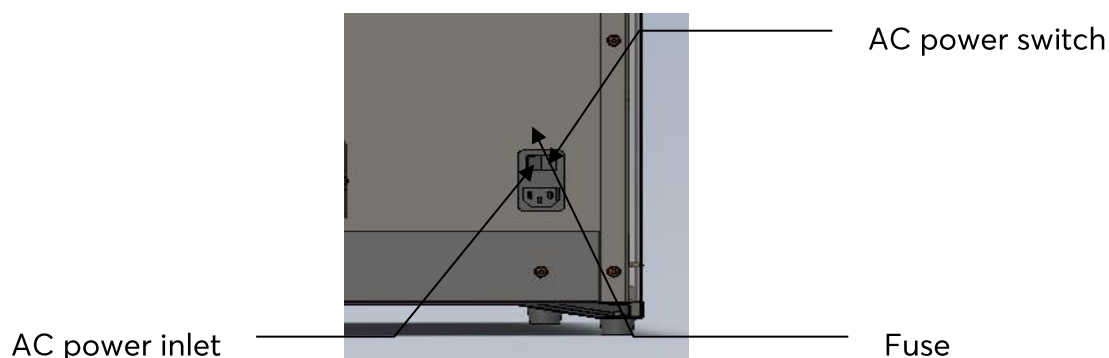
US version: 120 V, 60 Hz, max. 900 VA

Fuse: 10 AT, 5 x 20 mm

For indoor use, only!

6 Connections

6.1 AC power inlet



Before first use, ensure that the voltage requirements of the PCR Workstation exactly match your local AC power supply. Connect the PCR Workstation to the AC power supply only by the AC power cord delivered with your PCR Workstation. Only connect the PCR Workstation to electric power systems with an earth conductor. The AC power inlet and the AC power switch are located at the rear of the workstation. The AC power switch serves as a disconnection of the AC power supply from the device. The accessibility of the AC power switch must be not hindered or obscured in any way.

The electric fuse is placed at the back of the device between the power switch and the AC power inlet. After pulling off the AC power cord and pushing upwards a safety catch, the fuse can be changed. Use only a fuse with correct values (see "SPECIFICATIONS" chapter). Indications about the fuse type are also located at the back of the device.

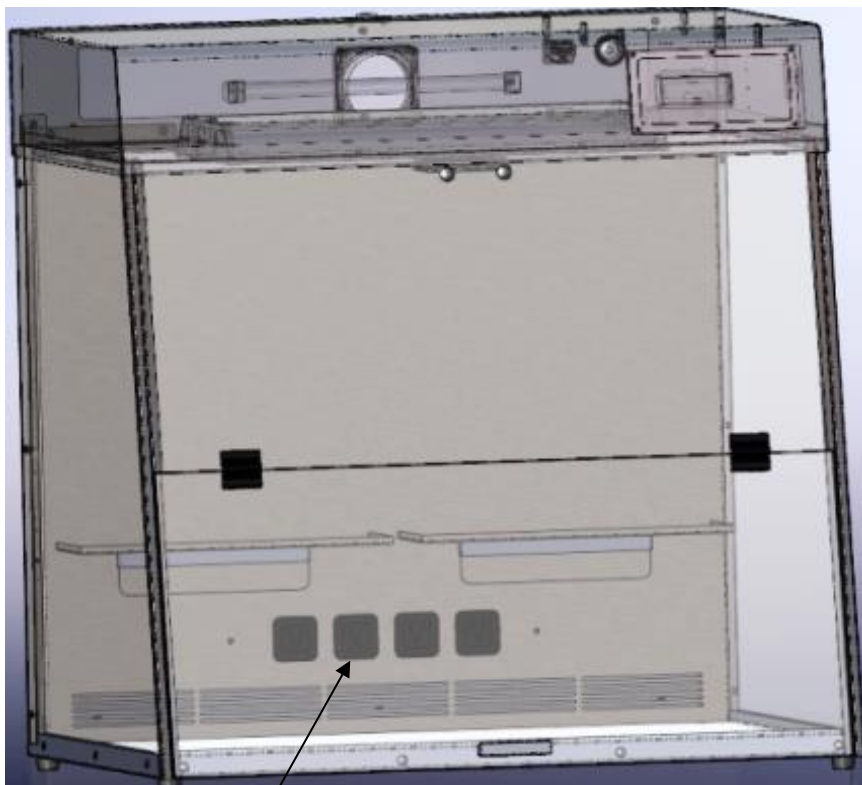
If a service is required, contact your local distributor or the manufacturer (see "TECHNICAL SERVICE AND ORDER INFORMATION" chapter).

The serial number of the PCR Workstation is located at the rear of the instrument. The replacement of single components (except polycarbonate panels, UV tubes and the UV Air Recirculator fuse and filter) must not be done by the user but exclusively by authorised specialists using original replacement parts. Therefore, the device must be sent to the manufacturer. Unauthorised work on the device voids the warranty.

The surface of the device should be decontaminated with a lint-free cloth soaked with 70% ethanol before sending. Please fill in and sign the decontamination certificate and send it to the manufacturer together with the device.

For safety reasons the device must be switched off and the mains plug pulled before cleaning is performed!

7 AC power outlets



4x AC power outlet

The 4 AC power outlets serve as power supplies for devices used inside the PCR chamber.

PCR workstation version	reference	Plug Type	Sockets type	Voltage	Grounded
North American	10783-132	Type B (NEMA 5-15)	Type B (NEMA 5-15)	120 V	Yes
Europe	732-2541	Type F, CEE 7/4	Type F, CEE 7/4	230 V	Yes
UK	732-2542	Type G, BS 1363	Type G, BS 1363	230 V	Yes
BE-FR	732-3900	Type E, CEE 7/6	Type E, CEE 7/6	230 V	Yes



The sum of the maximum power ratings of devices connected to these power outlets must not exceed the values specified for the PCR Workstation.

For PCR workstation 732-2541 :

When attaching appliance with Type E CEE 7/6 (French) plug, use correct socket adapter!
When attaching appliance with Type J SN 441011 (Swiss) plug, use correct socket adapter!
See chapter "OPERATING THE PCR WORKSTATION " chapter for further information.

8 Operating the PCR Workstation

8.1 Use of PCR equipment inside the workstation

Shelves are provided for the placing of small tools for storage and decontamination. Power outlets allow use of shakers, rockers and other equipment for PCR experiments inside the PCR chamber. The equipment can be decontaminated between experiments. To operate equipment within the chamber, plug the equipment into the power plug. Specific power plugs are installed as shown in the illustration "AC power outlets" section.

Timing of UV decontamination can be programmed for time-controlled every day decontamination.

NOTE: When operating, equipment plugged into the outlets, combined amp total should not exceed 6 amps.

NOTE: Crazeing is a normal process for polycarbonate panels exposed to UV light. Crazeing will occur over a period of time. Reduce crazeing by keeping exposure to UV to a minimum. Crazeing may occur within the warranty period and is regarded as normal wear and tear not covered by the warranty. Polycarbonate panels are available as spare parts and can be replaced.

8.2 Operating the overhead UV and white lights

The PCR Workstation provides an automated process for eliminating contamination by using the decontaminating properties of shortwave 254 nm ultraviolet light. The UV light is typically operated when no samples are inside the chamber. The chamber is decontaminated and DNA as a possible contamination is inactivated.

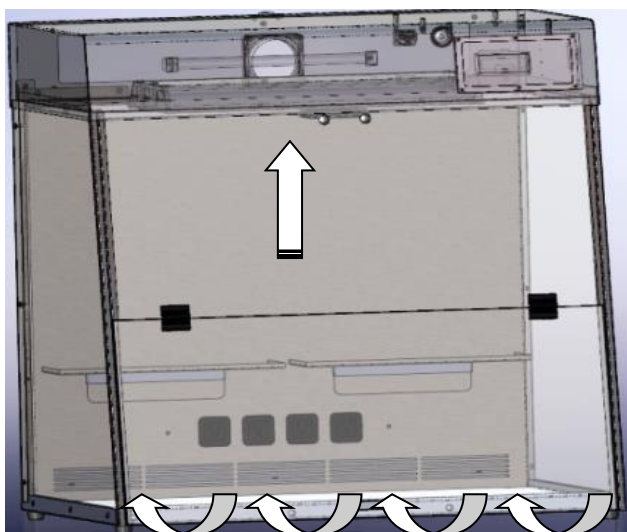
The overhead white light can remain lit at any time throughout an experiment or a decontamination process. The fluorescent white light provides a bright light within the PCR Workstation.

8.3 Operating the UV Air Recirculator

The VWR PCR Workstation includes a built-in UV Air Recirculator for elimination of airborne microbes during experiments.

NOTE: The UV Air Recirculator can operate while the front panel is open.

The UV Air Recirculator circulates airflow into and out of the chamber. The air is sucked into the UV Air Recirculator in the top of the chamber, the air outlets are at the bottom of the back panel. The drawing indicates the location of the air vents.



NOTE: Equipment in front of the air vents will block airflow.

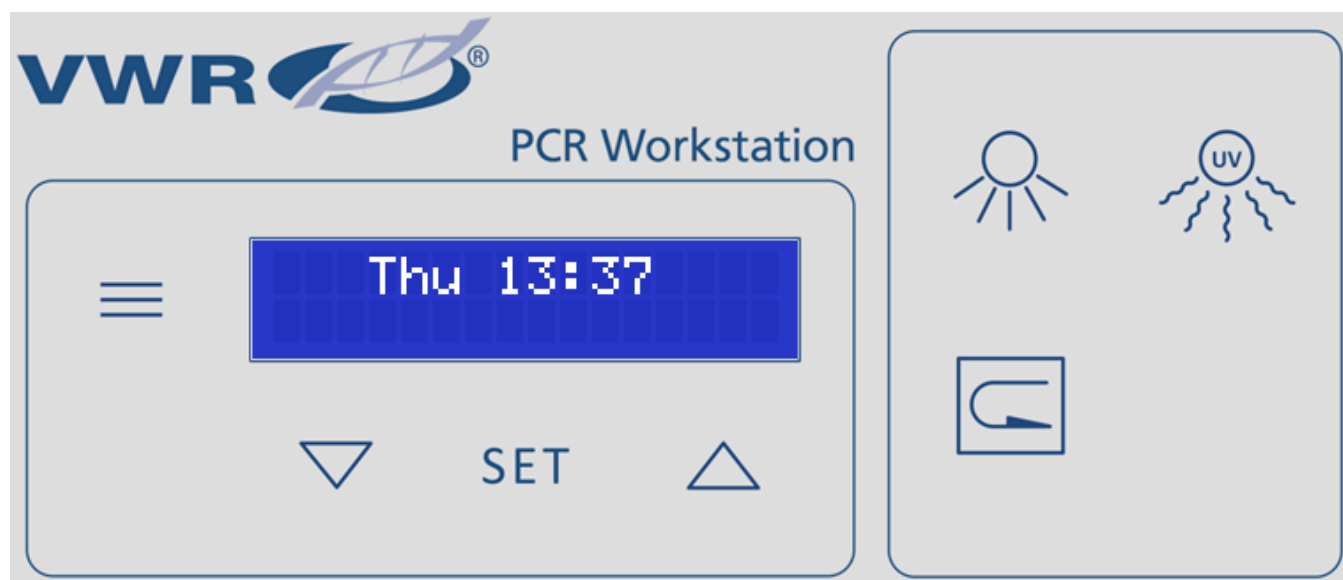
8.4 Timer

The default setting is 30 minutes adjustable at 5 minutes' increments down to a minimum of 5 minutes. For information on setting the timer please see in the following chapter.

Note: A magnetic sensor is built into the bottom of the front panel. When the front panel is opened, the ultraviolet light will automatically shut off!

Note: Do not attempt to perform PCR procedures with the germicidal lamp on. The germicidal lamp is used to decontaminate the chamber between experiments.

9 Control panel description



	To scroll or increase selected value
	To scroll or decrease selected value
SET	Enables to select and change the displayed program settings. Several clicks to jump from value to value.
	Enables to open and close the software menu
	Switch white light on and off
	Switch UV light on and off It automatically activates the programme to decontaminate the workspace. The default time for the decontamination process is 30 minutes. The display will show the remaining time of the decontamination programme. Remaining time could be change with the arrow buttons.
	Switch Recirculator on and off

9.1 Select day and time

SET

Press from the home screen to change day and time. Pressing the ▲ or ▼ button will modify the selected value.

SET

Press to go to the next values: hours, minutes and safe.



9.2 Software menu



Press to open the software menu. Pressing the ▲ or ▼ button will go through the menu items. An arrow is displayed near the selected item.

The items are:

- UV Surface
- Auto Decontamination
- Duty hours
- Settings



9.3 Set up UV Surface time

SET

Select "UV Surface" and click on . The time starts flashing. Pressing the ▲ or ▼ button will modify the time between 30 min and 5 min in steps of 5 minutes. To store the

SET

selected value press .



9.4 Set up Auto Decontamination routine

Select "Auto Decontamination" and click on

SET

to set up a daily decontamination routine.

The following parameters can be selected

Start time

Weekdays

Functions



▶ Start Time
Weekdays

Select "Start time" and press SET. The first value starts flashing.

Pressing the ▲ or ▼ button will modify from OFF to ON. To activate or deactivate the daily decontamination routine.



Auto-Decon OFF
07:30 20 min

Press SET to confirm and set "hours"

Press SET to confirm and set "minutes".

Press SET to confirm and set decontamination time between 30 and 5 minutes in steps of 5 minutes.

Press SET to confirm and store the settings.

Press ≡ to go back to the decontamination routine parameters.

Select "Weekday" and press SET. To select the Weekdays the auto decontamination will be activated.

First character is flashing (M = Monday), pressing ▲ or ▼ button will modify the character from active (filled box) to inactive

(empty box). Press SET to confirm and select

the next day. Press SET to confirm and select the next day after selecting the last value

(S = Sunday) SET will store the settings.



M T W T F S S
■ ■ ■ ■ ■ □ □

Press  to go back to the decontamination routine parameters.

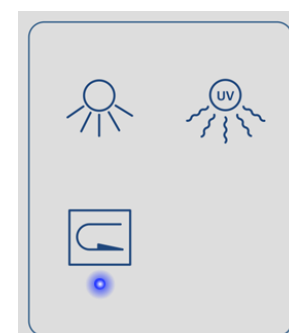
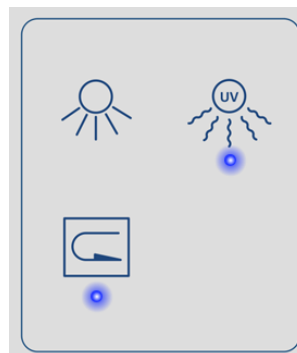
Select "Functions" and press . To select the Functions for the auto decontamination, click on the function buttons on the right panel. A blue light will flash if a function is

selected. To save the selection press . Note: During Auto-Decontamination all selected functions will be activated automatically, after reaching the selected time only the UV Light will be deactivated all other functions (Recirculator) are still running to protect the device from re-contamination.

Press  to go back to the decontamination routine parameters. To stop a running Auto Decontamination

select Abort? Yes and press . After finalizing an Auto Decontamination run the final Time will be shown in the display,

press  to go back to the main screen. Note: During Auto-Decontamination all selected functions will be activated automatically, after reaching the selected time only the UV Light will be deactivated. All other selected functions (e.g. Recirculator) are still active to protect the device from re-contamination.



9.5 Checking and resetting the hours of duty

Select "Duty hours" and click on . The following parameters can be selected

UV Surface
UV Recirculator

Select one parameter and press on  to see the time of duty. A progress bar will indicate when the device needs to be replaced.

We recommend to change the **UV tubes** after 1000 – 1500 operating hours as the UV intensity decreases significantly after that time.

To reset the Duty hours of the selected

parameter, press on  the progress bar and hours starts flashing.

Press the ▲ or ▼ buttons to change the value

to zero. Press on  to store. Press  to go back to the Duty hours selection parameters.

Reaching the maximum of the recommended operating hours, the UV tubes or filters must be replaced. Those items will be temporary indicated on the main screen tagged by a sandglass (duty hours exceeded). When "duty hours exceeded" message is displayed, press

 to reset the duty hours of the items directly (short cut).

After replacing UV tubes it is necessary to reset the hours of duty in the software manually!



9.6 Settings

Select "Settings" and press on . The following parameters can be selected

Brightness
Contrast
Language
Time Format
Factory Reset



Select "Brightness" and press on , a progress bar starts flashing and indicates the brightness of the display. Press the ▲ or ▼



buttons to change the value. Press  to

confirm and store the settings. Press  to go back to the Settings parameters

Select "Contrast" and press on , a progress bar starts flashing and indicates the contrast of the display. Press the ▲ or ▼



buttons to change the value. Press  to

confirm and store the settings. Press  to go back to the Settings parameters

Select "Language" and press on . Press the ▲ or ▼ buttons to modify the selected language. Languages are: English, German, Espanola, Francis, Italian and

Portuguese. Press  to confirm and store

the selected language. Press  to go back to the Settings parameters.



Select "Time Format" and press on . Press the ▲ or ▼ buttons to modify the selected format between 24h and 12h am/pm.

Press  to confirm and store the selected parameter. Press  to go back to the Settings parameters.

Select "Factory Reset" and press on . Press the ▲ or ▼ buttons to select YES or NO for the reset. Press  to confirm and store the settings. Press  to go back to the Settings parameters.

The Default parameters are:

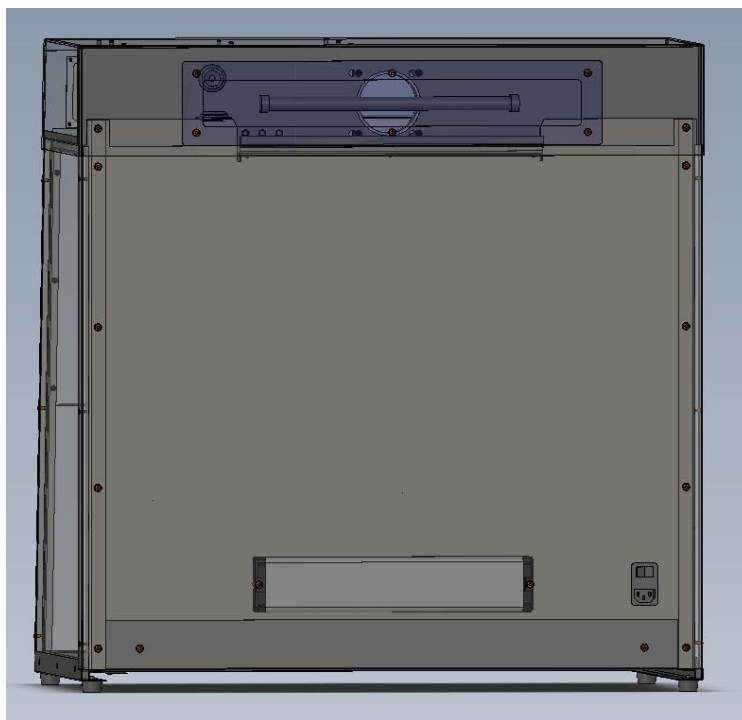
Language:	English
Time Format:	24h
Brightness:	60%
Contrast:	60%
UV Surface Time:	30 min
Auto Deco:	OFF



10 Measuring UV tube intensity

As UV tubes age, intensity and germicidal destruction rate decreases. We recommend you change the UV tubes after 1000 – 1500 hours of operation (please refer to "Checking and resetting the hours of duty" section). Otherwise it is important to monitor the efficiency of the tubes to ensure germicidal requirements are met. The germicidal destruction rate is a function of the UV intensity at wavelength 254 nm and exposure time. The lower the tube intensity, the longer the lamps must be on to accomplish the same objective.

A UV Intensity Meter with 254 nm sensor will allow the user to measure the 254 nm emissions from the tubes. When it is time to measure the UV intensity inside the PCR Workstation, the sensors can be placed on the floor of the PCR Workstation. Close the front panel and turn on the UV tubes. Please refer to the UV radiometer manual on how to perform the measurement. It is recommended that the user records an initial value upon receipt and assembly of the PCR Workstation. To measure the UV intensity from the UV Air Recirculator tube, open the cover lid on the back of the PCR Workstation and perform the measurement as described in the UV radiometer manual. Wear protective eyewear and shielding when operating the UV Air Recirculator with the ventilation cover open. Replace the cover and screws after the measurement is completed.



11 Bacterial destruction chart

The germicidal destruction rate calculation:

Microwatt seconds/cm² = microwatts/cm² x seconds of exposure

The bacterial destruction chart below indicates the amount of shortwave (254 nm) UV energy required for complete destruction of various organisms.

Bacteria	Microwatt seconds/cm ²	Other organisms	Microwatt seconds/cm ²
Bacillus anthracis	8700	YEASTS	
S. enteritidis	7600	Saccharomyces ellipsoideus	13200
B. Megatherium sp. (veg.)	2500	Saccharomyces sp.	17600
B. Megatherium sp. (spores)	5200	Saccharomyces cerevisiae	13200
B. paratyphosus	6100	Brewer's yeast	6600
B. subtilis	11000	Baker's yeast	8800
B. subtilis spores	22000	Common yeast cake	13200
Clostridium tetani	22000		
Corynebacterium diptheriae	6500	MOULD SPORES	
Eberthella typosa	4100	Penicillium roqueforti	26400
Escherichia coli	6600	Penicillium expansum	22000
Micrococcus cadidus	12300	Penicillium digitatus	88000
Micrococcus sphaeroides	15400	Aspergillus glaucus	88000
Mycobacterium tuberculosis	1000	Aspergillus flavus	99000
Neisseria catarrhalis	8500	Aspergillus niger	330000
Phytomonas tumefaciens	8500	Rhizopus nigricans	220000
Proteus vulgaris	6600	Mucor racemosus A	35200
Pseudomonas aeruginosa	10500	Mucor racemosus B	35200
Pseudomonas fluorescens	6600	Oospora lactis	11000
S. typhimurium	15200		
Salmonella	10000	VIRUSES	
Sarcina lutea	26400	Bacteriophage (E. coli)	6600
Serratia marcescens	6160	Tobacco mosaic	44000
Dysentery bacilli	4200	Influenza	6600
Shigella paradysenteriae	3200		
Spirillum rubrum	6160	PROTOZOA	
Staphylococcus albus	5720	Paramecium	200000
Staphylococcus aureus	6600	Nematode eggs	9200
Streptococcus hemolyticus	5500	Chlorella vulgaris (algae)	22000
Streptococcus lactis	8800		
Streptococcus viridans	3800		

12 Maintenance

NOTE: Polycarbonate ages in UV light, therefore crazing is considered as a normal process.

Crazing will occur with time. Reduce crazing by keeping exposure to UV to a minimum. Crazing may occur within the warranty period and is regarded as normal wear and not covered by the warranty. Polycarbonate panels can be replaced.

12.1 Care and cleaning

The front and side panels are made of polycarbonate and are subject to scuffing and scratches if

improperly cleaned. Therefore, it is strongly recommended to use a soft cloth (preferentially microfibre) for cleaning.

- Wipe excess water from inside the unit and outside the unit with an absorbent soft cloth or sponge
- Use mild detergent and water with a soft cloth or sponge to clean the exterior and interior of the unit
- Clean the front and side panels with a mild detergent only
- Do not use abrasive pads or cleansers
- A plastic cleaner solution is recommended to clean the front panel and is available from local plastic supply distributors

Never use organic-based compounds like acetone or ammonia containing cleaners for polycarbonate panels!

Due to the specific qualities of polycarbonate panels made of Makrolon® 70% ethanol can be used for cleaning.

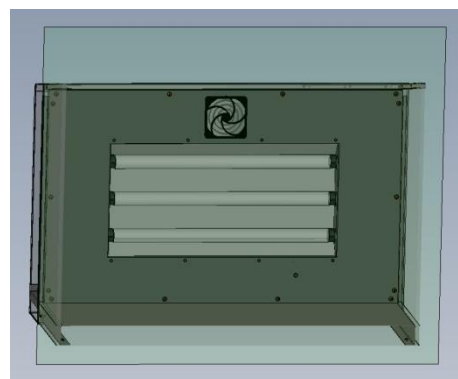
Warning: Unplug the unit before cleaning around the UV tube contacts and internal plug outlets.

12.2 Replacing the UV germicidal or white light tubes

Turn the unit power off and unplug the unit from the power outlet. Lift up the front panel and locate the tubes. The tube has two prongs on each end that first fit into a socket, then rotate into place.

Carefully hold the tube at the end and insert the tube into the socket. Twist the tube 90° until the tube locks into place.

Drawing shows tube location in top assembly. Outer tubes are the shortwave 254 nm UV and the middle tube is white light.



We recommend changing the UV tubes after 1000 – 1500 hours of operation.

12.3 Replacing the UV Air Recirculator UV tube

Locate and remove the six screws on the ventilation cover on the outer back panel of the workstation.

Pull away the ventilation cover from the workstation.

The tube has two prongs on each end that fit into a socket, then rotate into place.

Carefully hold the tube at the ends and insert the tube into the socket. Twist the tube 90° until the tube locks into place. Replace the cover back into position and reattach the six screws.

We recommend you change the UV tubes after 1000 – 1500 hours of operation.



12.4 Replacing the fuse

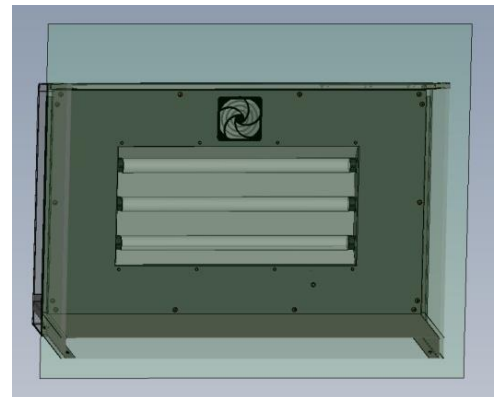
The fuse is located at the back-right side of the system. To remove the fuse, use a flathead screwdriver to open the lid and pull out the fuse.

Insert the new fuse and using the screwdriver, turn the fuse clockwise to lock.



12.5 Replacing the filter of the UV Air Recirculator

The UV Air Recirculator fan filter is located on the inner top of the PCR Workstation in front of the light tubes (see picture to the right). To change the filter, take off the plastic cover with the filter attached to it and replace it with a new filter. Push the plastic cover back into its location.



13 Ordering Information

Article	Description	Cat. No.
PCR Workstation	VWR PCR Workstation	10783-132 (US) 732-2541 (EU) 732-2542 (UK) 732-3900 (BE/FR) 732-2840 (DE only)
UV Bulb	UV Light Bulb for VWR PCR Workstation 2 tube	10783-136 (US) 732-2544 (EU)
UV Bulb	UV Light Bulb for UV Air Recirculator, 1 tube	10783-138 (US) 732-2545 (EU)
White light tube	White light tube for PCR Workstation, 1 tube	10738-134 (US) 732-2543 (EU)
Dust filter	Dust Filter for Air Recirculator, 10 filters (Shelf life >10 years if stored dry at room temperature)	10783-140 (US) 732-2546 (EU)

14 Technical service

14.1 Web resources

Visit the VWR's website at **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

For information or technical assistance contact your local VWR representative or visit **vwr.com**.

15 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 delivery. If a defect is present, VWR will, at its option and cost, repair, replace, or refund the purchase price of this product to the customer, 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. If the required maintenance and inspection services are not performed according to the manuals and any local regulations, such warranty turns invalid, except to the extent, the defect of the product is not due to such non-performance.

Items being returned must be insured by the customer against possible damage or loss. This warranty shall be limited to the aforementioned remedies. IT IS EXPRESSLY AGREED THAT THIS WARRANTY WILL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY.

16 Compliance with local laws and regulations

The customer is responsible for applying for and obtaining the necessary regulatory approvals or other authorisations necessary to run or use the Product in its local environment. VWR will not be held liable for any related omission or for not obtaining the required approval or authorisation, unless any refusal is due to a defect of the product.

17 Disposal Instruction



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's your responsibility to correctly dispose of your equipment at lifecycle end by handing it over to an authorised facility for separate collection and recycling. It's also your responsibility to decontaminate the equipment in case of 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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