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**INSTRUCTION MANUAL
OF
TECHNOSHIELD PCR CABINET**

(CAT. No. TLSCP-SSPM22, TLSCP-SSPM32, TLSCP-SSPM42)

Manufactured and Marketed by:

TechResource

Scientific Pvt Ltd

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Dear Customer,

Congratulations on procuring the PCR Cabinet- TechnoShield.

This TechnoShield from TechResource is robust and sturdy, featuring a stainless-steel tabletop and UV-resistant, transparent PMMA sides. It has been designed and manufactured principally for biology laboratories and is particularly suitable for setting up PCR reactions in a sterile environment.

The PCR Cabinet is indigenously manufactured from high-quality parts and can be easily disassembled to make it portable. It is available in different sizes and can be customised to be a tabletop or standalone model.

Precautions:

1. Always keep the PCR cabinet dry.
2. Do not let water/buffer accumulate in the SS platforms.
3. Please read the manual carefully before using the PCR cabinet
4. Use the UV with a timer or set it only to the required time to increase its lamp hours.

Specifications:

TechnoShield type	TechnoShield 1	TechnoShield 2	TechnoShield 3
Mains supply	<i>230V ± 10%, 50Hz</i>	<i>230V ± 10%, 50Hz</i>	<i>230V ± 10%, 50Hz</i>
Fuse (Internal)	<i>1.5A, fast-blow</i>	<i>1.5A, fast-blow</i>	<i>1.5A, fast-blow</i>
Weight	Approx 36 kg	Approx 51 kg	Approx 61 kg
Dimensions of base platform (SS 304) Platform Width Platform Depth	2 feet 3 feet	3 feet 2 feet	4 feet 2 feet
UVC tube	2 feet (17W)	3 feet (30W)	4 feet (36W)
Programmable Timer	Optional		
Time ranges	Select between nine time ranges 0 – 9.99/ 99.9/ 999 sec 0 – 9.59 min: sec, 99.9/ 999 min 0 – 9.59 hr:min, 99.9/ 999 hr		
Auto recovery on power failure	Yes, starts automatically when power is restored		
UV auto cut off mechanism when door is opened	Optional		

Check before installation

- A. Check for any physical damage to the PCR cabinet that may have occurred in transit
- B. Check the mains supply with a multi-meter for proper earthing and correctness of voltage (between 207 V to 253V)
- C. Functionality test
 - 1. Connect the PCR cabinet directly or through the stabiliser to the mains
 - 2. Switch white Light ON via the switch on the panel. The switch should get illuminated

Control Panel for PCR Cabinet



To set up the PCR Cabinet before the first use

1. Turn OFF the mains switch on the PCR Cabinet
2. Ensure the PCR Cabinet is on a stable, flat surface
3. If the PCR Cabinet is a standalone unit with legs, check if all the levelling legs are touching the surface. If not, please rotate the legs till all legs rest on the surface. Use a spanner to tighten the nuts on the levelling legs.
4. Connect the plug to the mains outlet on the wall or connect to a stabiliser.
5. Switch ON the white light of the PCR Cabinet. The switch should get illuminated.
6. Test the UV light by turning off the White Light switch and switching on the UV (Continuous one or via Timer). Ensure the door is closed.
7. Test the timer functionality
8. Switch off the UV

To use the PCR Cabinet

1. For UV, switch off the white light and switch ON the UV light (continuous one) for a prolonged UV exposure.
2. For using UV with the timer, switch on the UV light (via timer), switch, set the time and press start countdown
3. Ensure the UV light is OFF prior to opening the door. You can also opt for the auto-cutoff mechanism, which will turn the UV off when the door is opened
4. Swab the surface with 70% Ethanol
5. Close the door and turn the UV ON for 20 mins for efficient surface sterilization
6. Post UV exposure, switch off UV and switch on the White light. Open the door as required and swab the surface again with 70% Ethanol. The PCR cabinet is ready for setting up reactions.

Troubleshooting procedure

Indication	Cause	Remedy
Instrument will not switch ON	Check 230V mains supply	Restore the mains supply
	Instrument fuse blown	Try replacing with correct fuse of 1.5 A, only once.
	Fuse blows again	Contact us at sales@techresource.in
Instrument ON but mains switch does not illuminate	Defective mains switch	Contact us at sales@techresource.in

If you are facing any difficulty in understanding the instructions or operating the PCR Cabinet, kindly contact us with your feedback on the steps given above. This will provide us with the necessary information to advise you properly.