



PCR FAST

Polymerase Chain Reaction Cabinet



LABORATORY AND INDUSTRIAL EQUIPMENT

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PCR FAST is DNA amplification cabinet that belongs to the latest generation of cabinets manufactured by FASTER S.r.l.

It is specifically designed to perform sensitive **Polymerase Chain Reaction (PCR)** amplification and manipulation of DNA or RNA and it is adopted in a wide range of disciplines such as microbiology, haematology, cell culture and genetics.

At the end of the PCR process, the unit ensures a completely sterile work area thanks to the presence of LED UV light that is needed for irradiation and decontamination of DNA and RNA samples thus prevent contamination during the next PCR campaign.

The cabinet is bench-top type with body structure made in cold rolled epoxy painted steel painted with Alesta® Dupont antimicrobial coating, safety glass side/front wall and AISI 304 L stainless steel back wall and work surface.

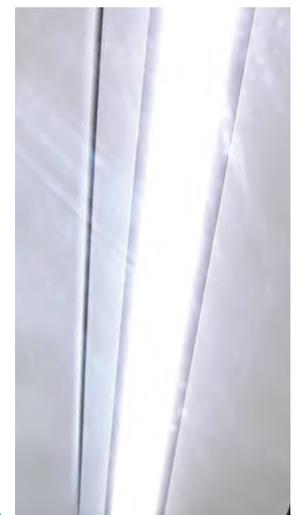


The LED UV lamps are timer controlled for fully programmable activation

1XIP 66 ELECTRICAL SOCKET for total protection against liquid splash.



AISI 304 L STAINLESS STEEL with SB pharmaceutical finishing for back wall and work surface.



FRONT WINDOW AND SIDES PANELS MADE BY 6MM ANTI-UV SAFETY GLASS. A safety switch is in place to turn off UV when front glass is opened.

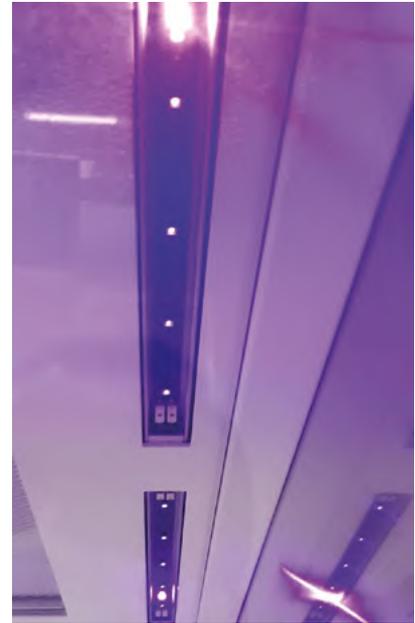
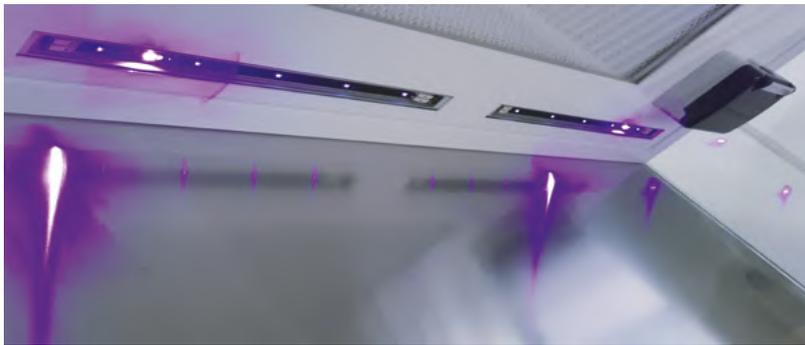
WHITE LED

White LED providing perfect visibility during daily working.

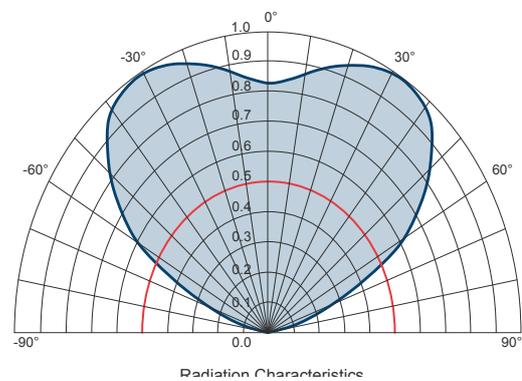
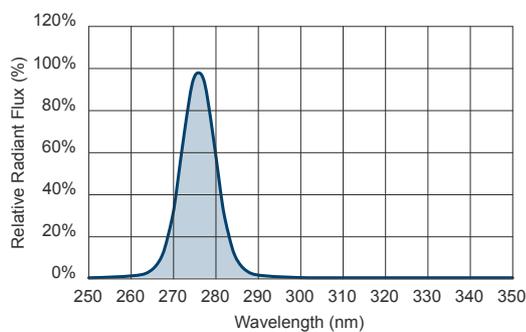
WHY CHOOSING LED UV?

FASTER decided to equip PCR FAST with LED UV lamps. This is not a fancy choice but rather the best way to make it: as a matter of fact, LED UV allows to hit samples at the perfect frequency and consequently radiation recommended for a proper sterilization.

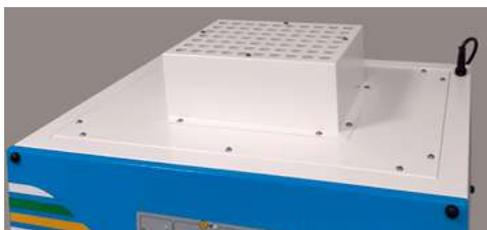
The same effect in fact is not reachable with standard UV bulbs which are normally providing a range of effective radiation but not the most effective.



The evidence shown here below, in the chart indicates that the UV light peak wavelength reaches the 100% Relative Radiant Flux at a **more efficient value of 275 nm** (versus a lower value of 254,3 nm of standard UV bulbs).



H14 HEPA FILTER AND MOTORBLOWER KIT



As option a ventilation KIT including a H14 HEPA filtration and motor blower for laminar air flow.



TECHNICAL SPECIFICATIONS

Description	Unit	PCR FAST
Overall dimensions (WxDxH)	mm	712 x 620 x 860
Useful dimensions (WxDxH)	mm	700 x 600 x 550
Working aperture	mm	200
Maximum front aperture	mm	500
Weight	kg	55
UV light radiant flow	mW	170
UV light average lifetime	Hours	8.000
UV light timesetting	Hours	4 (+/- 1 min accuracy)
UV light peak wavelength	nm	275
Noise level (1)	db(A)	<54
LED Lighting level	lux	>2100
Electrical data		1Ph+E - 230V 50Hz
Energy consumption (2)	kW	0,11 kW
Internal electrical outlet	The electrical outlets have a total load capacity of 4A	

(1) Equipped with Kit HEPA filter.

(2) Clean filters, lighting activated, internal outlet load excluded.

ACCESSORIES

- HEPA filter + motorblower KIT
- Support stand
- Additional electrical socket



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Striving everyday to improve our environmental performance, FASTER developed environmental procedures are founded on three guiding principles:

- Protect the Environment for present and future generations manufacturing low energy consumption equipments
- Reduce risks and improve efficiencies
- Introduce improved technology and processes

