

# MONMOUTH SCIENTIFIC CIRCULAIRE PCR 650 CABINET



## DESCRIPTION

The Monmouth Scientific Circulaire PCR 650 uses H13 HEPA filters rated at 99.997% efficient at 0.3 microns ensuring better than ISO 5 (Class 100) clean air conditions. Filter seals are under negative pressure to prevent leaks into the cabinet.

The cabinet is manufactured from epoxy coated Zintec mild steel to prevent corrosion. Polycarbonate side and front screens complete with high intensity LED lighting (> 900 lux) provide maximum visibility of the working area. The fans are large diameter, high performance units ensuring the cabinets are quiet in operation.

The Circulaire PCR 650 provides an excellent sized working area and significantly lowers the risk of cross contamination of your PCR sample by providing a curtain of clean air (Laminar Flow) over the work surface.

## UV LIGHT & AIRFLOW MONITOR SYSTEM

The airflow into the cabinet is constantly monitored and the user is alerted by audible and visual alarms should the airflow fall below optimum levels. The work area itself can be sterilised using the built in UV light and is fitted with an automatic timer to enable easy and accurate sterilisation.

## SAFE OPERATION

A removable, lightweight night door with anti-damper (magnetic) UV interlock switch is provided to ensure there is no risk of exposure to the UV light. This can be hung on the side of the cabinet when not in use. A stainless steel work surface is also provided as standard.

## AIRFLOW CHARACTERISTICS

Air is drawn in through the pre filter at the top of the cabinet removing any particulates in the room. It will then pass through the fan before entering the plenum chamber above the main filter. The plenum chamber will ensure the air is distributed evenly before passing through the main filter. On exiting the main filter, it travels vertically down to the work surface where the air will spread towards the front exit of the cabinet.

## TECHNICAL SPECIFICATION

External Dimensions (W x D x H)	650 x 560 x 875 mm
Working Area (W x D)	640 x 540 mm
Laminar Airflow	Vertical at 0.4 m/s. High performance low noise fans.
Electrical Requirements	230 V / 50 Hz AC - 200 W
Internal Lighting	Internal overhead low profile LED strip (>900 lux)
UV Light	20 W Germicidal Lamp
UV Control	4 pre-set timing intervals with LED indication of status
UV Tube Life Alarm	Warning light & audible alarm after 1000 hours
Warning Systems	Low airflow - Warning light and audible alarm
Operator Safety	Interlocked Safety Screen with continuous monitoring of UV and fluorescent light status
Pre Filter Efficiency	95% at 0.5 microns
HEPA Filter Efficiency	99.997% at 0.3 microns
Basic Weight	60 kg
Noise Level	<55 dB(A)

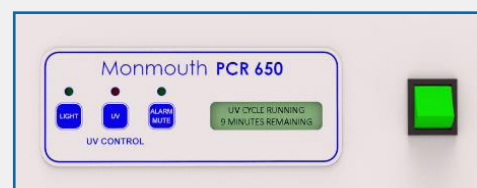
## CONSTRUCTION

Epoxy coated mild steel cabinet to prevent corrosion. Polycarbonate side and front screens (including night-door). Stainless steel work surface. Filter seals under negative pressure to prevent leaks into the cabinet.

## OPTIONS

Item	Part Number
Base Stand	K-PCR650ST
Double Electrical Socket	K-CDES
Replacement UV Light	GS-00567
Replacement HEPA Filter	K-HF0022
Replacement Pack of 10 pre filters	K-PF0023

## MONITOR SYSTEM



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