

PCR Cabinet Specifications	PCR6	PCR8
Dimensions (W x D x H) mm	630 x 550 x 900	800 x 710 x 1060
Work Area Size (W x H) mm	610 x 550	790 x 610
Face Velocity	Not Applicable	>0.6m/sec
Laminar Flow Velocity	>0.4m/sec	>0.4m/sec
Filters	1 x HEPA Filter (99.997% eff. @ 0.3 µm) 1 x Pre-filter	2 x HEPA Filter (99.997% eff. @ 0.3 µm) 1 x Pre-filter
Negative Pressure Filter Seals	Standard	Standard
Low Airflow Alarms	Standard	Standard
Internal Lighting	1 x 15 watt fluorescent	2 x 18 watt fluorescent
UV Lighting	254nm at 15 watts	254nm at 18watts
Lightweight Interlocked Night Door	Standard	Standard
Construction	Zintec Mild Steel with Epoxy Powder Coating Removable Stainless Steel Worksurface	
Fan	Centrifugal Sparkless to IP44	Centrifugal Sparkless to IP44
Electrical	240 volts 50Hz 200 watts	240 volts 50Hz 450 watts
Noise Level	<53 db (A)	<58 db(A)
Weight	60kg	160kg



PCR Preparation

PCR Cabinet
PCR Cabinet with containment

Other products in the Labcaire range include:



Filtration Fume
Cupboards



Microbiological
Safety Cabinets



Downflow
Workstations



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PCR Preparation Stations

PCR8 Laminar Flow with Containment



The Labcaire PCR8 Prep Station has been designed for use where contaminant free PCR needs to be performed but also where operator protection is required.

The cabinet offers clean air over the worksurface to better than Class 100, whilst also offering full containment to BS EN 12469:2000, therefore protecting the operator from any hazardous materials.

The cabinet comes complete with a timed UV light and interlocked lightweight door to allow for safe and automatic sterilisation of the enclosure, along with implements such as flasks, pipettes and sample tubes between amplifications.

Airflow alarms are fitted as standard on both the laminar flow and face velocity airspeeds whilst a uniform face velocity is achieved with the unique air intake grille configuration. Safety interlocks are also used on the folding sash, ensuring 100% safe and efficient operation at all times.

The cabinet is constructed of epoxy powder coated Zintec mild steel with a stainless steel worksurface and clear glazing to three sides. The clear panels used in conjunction with overhead internal lighting ensure maximum illumination of the working area.

Containment and laminar flow are achieved with the use of HEPA (High Efficiency Particulate Air) filters making the cabinet easy to install as no connection to services are required, other than mains electricity.



Unique Grille Configuration



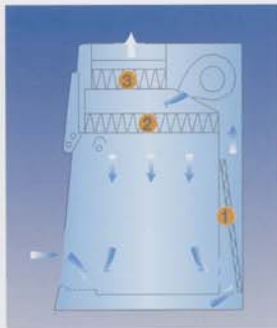
Clear interlocked removable door for safe automatic sterilisation

Airflow Characteristics

Air is drawn in through the front aperture in a uniform manner via the unique grille configuration.

It travels underneath the worksurface and behind the back panel of the cabinet where any large particulate is removed by the pre-filter (1). The air is then drawn into the plenum chamber where 70% of it is recirculated back into the cabinet via the first HEPA filter (2) to create the downward laminar flow.

The remaining 30% of air is then expelled through the exhaust HEPA filter (3) where any hazardous material is filtered out.



Technical Illustration PCR8

PCR6 Laminar Flow

The Labcaire PCR6 Prep Station provides a cost-effective means of preparing PCR and other sterile samples without the risk of contamination.

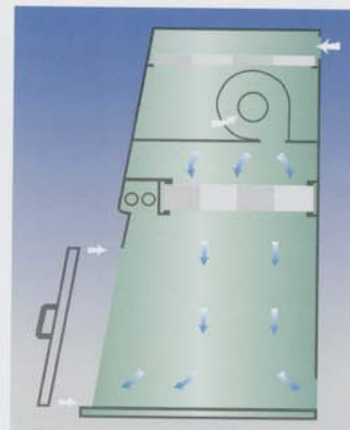
The PCR6 is a mini laminar flow cabinet providing better than Class 100 clean air conditions at the worksurface.

To further reduce the risk of contamination, the PCR6, like the PCR8, has a built-in automatically timed UV steriliser. Between amplifications simply place all pipettes, tubes and flasks in the cabinet and press the UV switch. After five minutes, the UV light will automatically switch off and all potentially contaminating DNA and RNA will have been destroyed.

The Class 100 clean air with both the PCR6 & PCR8 provides continual product protection during the preparation of sample tubes, and the negative pressure filter seals eliminate the possibility of leaks.

The compact design (the unit measures only 630mm wide x 550mm deep) ensures that the PCR6 takes up no more bench space than that normally used for

PCR work, whilst the sloping front gives unhindered access for sample preparation. The interlocked attachable and lightweight panel prevents UV light spillage during operation.



Technical Illustration PCR6

The stainless steel worksurface is removable to allow for easy cleaning but is also illuminated with overhead lighting to ensure maximum visibility when working at the cabinet.

With the modern laboratory in mind, Labcaire engineers have developed a new fan design, which reduces sound levels to just 53db (A).

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