

# WS6 Workstation

## EXCELLENT CONTAINMENT, EASY INSTALLATION

The WS6 is a bench-mounted compact downflow workstation.



It offers the same standard of protection as the larger Labcaire Downflow Benches but will sit on top of a standard worktop. As a result, it is ideally suited to a wide range of laboratory, industrial and forensic science applications.

As fume containment and therefore operator protection is achieved by the downflow of air, the WS6 does not require a front screen. This offers unhindered access to the working area making it ideal where close visibility is required.

As detailed in the Airflow Illustration, air is drawn down through the worksurface grille (1) and into the rear plenum chamber (2). From here, it is drawn through the pre-filter (3) followed by the main carbon filter (4) in the head unit. Clean air then exits the top of the cabinet via the quiet integral centrifugal fan (5). The pre-filters can be easily changed without disturbing the main 9kg Carbon filter which itself can be changed through the front panel.



The large area rolled front worksurface is removable to facilitate retrieval of any foreign objects that may pass through the working grille. In addition to this, underneath the grille is a spillage tray to ensure that any accidents are contained.

To the rear of the working area, there is a non-perforated section to allow for the storage of chemicals.

The compact, adaptable design of the WS6 makes a variety of installation formats possible according to individual needs. For example several WS6 units can be positioned together to provide a continuous run of workspace.

### SPECIFICATIONS

Dimensions (mm):	700 wide x 600 deep x 820 high
Work area size (mm):	640 wide x 470 deep
Airflow:	220m <sup>3</sup> /hr
Downflow Velocity:	>0.35m/sec
Fan:	Centrifugal sparkless to IP44
Worksurface:	Perforated 316 grade Stainless Steel
Spillage Tray:	316 Grade Stainless Steel
Main Body:	Epoxy Powder Coated Zintec Mild Steel
Filters:	9kg Activated Carbon Pre-filter - 95% efficient @ 0.5µm
Alarms:	Low Air flow Alarm
Power Supply:	240v 50Hz (200 watts)
Noise Level:	<58 db(A)
Weight:	55kg
Overhead Lighting:	1 x 18w fluorescent



Airflow Illustration



# Downflow Systems

## Downflow Benches Downflow Workstations

# Containment at the Worksurface

The Labcaire range of floor standing Downflow Benches offer an unrivalled level of operator protection and ease of installation.

Utilising the latest technology in carbon filtration, the Downflow Benches can be used for an enormous and ever increasing range of applications.

The benches meet all the latest Health & Safety standards ensuring your Laboratory complies fully with COSHH regulations.

All units are constructed from Zintec epoxy powder coated mild steel bases with 316 grade stainless steel worksurfaces. The ventilation grilles are fully removable to allow access to the spillage tray beneath, facilitating easy cleaning.



DFB10 Downflow Bench



DFB15 Downflow Bench with sink

The units are available in four standard sizes, however as each laboratory may have slightly different requirements our experienced design team can plan and manufacture a style of bench with unique features to suit your exact needs.

The four standard units are:

- DFB10 – 1000mm wide Bench with Ventilated Work Area
- DFB12 – 1250mm wide Bench with Ventilated Work Area and Sink
- DFB15 – 1500mm wide Bench with Ventilated Work Area and Sink
- DFB20 – 2000mm wide Bench with Twin Ventilated Work Areas and centrally positioned Sink

Where fitted, the sink areas also offer full ventilation. This will ensure that anything being rinsed or emptied into the sink will not be a cause of fume exposure back into the room. Wrist-action mixer taps are fitted to the sink to ensure ease of use.



All Labcaire Downflow workstations are simple to operate with all controls and warnings on an easily accessible single panel.

In addition to the special designs of benching available, each standard bench has various options. These include:

Trigger operated 'Shower-head' attachment on retractable hose for easy wash down of working areas.

**Macerator** fitted to waste in sink unit for easy disposal of specimens.

**Filter Saturation Alarm** to indicate when carbon filters need replacing.

System entirely constructed in **Stainless Steel**.

**Formalin Dispensing System** to ensure safe handling of formalin within the Laboratory environment.



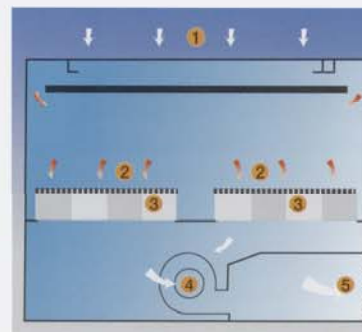
Optional Wash Down Facility



Wrist Action Taps fitted to sink units



Removable perforated worksurface



Airflow Illustration

## AIRFLOW CONTAINMENT

Containment is provided by the utilisation of large capacity activated carbon filters. A filtration monitor is available to alert operators when filters need changing.

Air is drawn through the perforated worksurface (1) and from the edges of a ventilated sink into the large plenum chamber underneath the surface. The air will then be pulled through the pre-filter (2) for particulate removal before passing through the carbon filters (3). After passing through the ultra-quiet centrifugal fan (4) the clean air is then expelled through the ventilation grille (5) on the right hand side.

Specifications	DFB10	DFB12	DFB15	DFB20
Overall Dimensions mm (W x D x H)	1000 x 750 x 900	1250 x 750 x 900	1500 x 750 x 900	2000 x 750 x 900
Ventilated Area Size mm (W x D)	800 x 450	550 x 450	800 x 450	Twin 600 x 450
Ventilated Sink Size mm (W x D x H)	-	400 x 350 x 250 on LHS	400 x 350 x 250 on LHS	400 x 350 x 250 Centrally
Filters	2 x 9kg Carbon 2 x Pre-filter	2 x 9kg Carbon 2 x Pre-filter	2 x 12kg Carbon 2 x Pre-filter	3 x 12kg Carbon 3 x Pre-filter
Airflow	520m <sup>3</sup> /hr	450m <sup>3</sup> /hr	600m <sup>3</sup> /hr	850m <sup>3</sup> /hr
Downflow Velocity	>0.35m/sec	>0.35m/sec	>0.35m/sec	>0.35m/sec
Alarms	Low Airflow Alarm Standard – Filter Saturation Alarm OPTIONAL			
Worksurface Construction	316 grade perforated Stainless Steel			
Spillage Tray Construction	316 grade Stainless Steel			
Main Body Construction	Epoxy Powder Coated Zintec Mild Steel			
Fan	Centrifugal Sparkless to IP 44			
Noise Level	<58 db(A)	<58 db(A)	<58 db(A)	<58 db(A)
Power	240v 50Hz 700 watts	240v 50Hz 800 watts	240v 50Hz 800 watts	240v 50Hz 1100 watts
Weight	90kg	110kg	130kg	180kg