

DownFlow

Product *protection*



 Baker







Professionals in laminar flow and microbiological safety workbenches

Baker designs and produces high-quality microbiological safety workbenches and laminar flow systems for numerous markets and segments.

Our workbenches are mainly used in the pharmaceutical industry, (academic) hospitals, research laboratories, plant breeding and the food industry, but also in various technical applications.

Our goal; let you as a customer benefit from the joint years of knowledge of Baker and CleanAir, by creating a range of extremely safe, high-quality biological safety workbenches and laminar flow systems – flexibly adaptable to your wishes.

Product types

You can find us wherever the protection/safety of people, products and the environment against micro-organisms, viruses and dust particles is necessary. All our products are created in close collaboration with you.

PERSONAL PROTECTION

In some laboratories work lab technician must be protected against the substances in the cabinet.

PRODUCT PROTECTION

In certain laboratories, the product or research must be performed or processed in a sterile environment.

PERSONAL & PRODUCT PROTECTION

There are various activities that are performed in a cabinet where both the person and the product must be protected.

SPECIALS & PROJECTS

If a standard cabinet does not meet your wishes & requirements; we have all disciplines in-house to adjust the cabinet to your needs

Basic Principles

DownFlow Series

HEPA filtered vertical laminar airflow (downflow) creates an ISO 14644-1 (Class 5) / GMP Annex 1 (Class A) work area and prevents ambient air entering the work area, ensuring product protection.

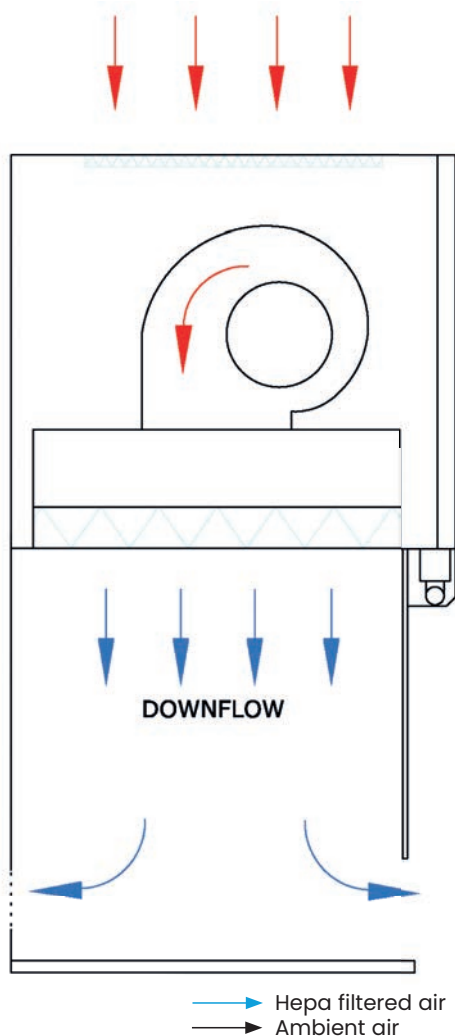


INTERNATIONAL SAFETY STANDARDS

DownFlow series is designed and manufactured in order to achieve a working area that exceeds the ISO 14644-1 (Class 5), GMP Annex 1 (Class A), PIC's and equivalent standards.

APPLICATIONS

The Downflow series is suitable for work that must be performed under ISO 14644-1 (Class 5), GMP Annex 1 (Class A), PICs and similar standards. Used in the pharmaceutical, food and beverage industries, biotechnology, pharmacies, and other industrial applications where sterile conditions are required. For example, in hospitals, academic laboratories, tissue culture and PCR work, cleanrooms, and high-tech industries.



SPECIAL APPLICATION

DownFlow PCR Series is designed to perform PCR (polymerase chain reactions) processes in a clean working environment.

AVAILABLE SIZES

DownFlow Series is standard available in sizes 3, 4, 5 and 6 ft width (90, 120, 150 and 180 cm).



Features & benefits

GENERAL FEATURES



- Microprocessor flow control
- Control panel with alarms and parameters
- HEPA filter H14 (efficiency of 99,995% MPPS)
- Pre-filter Coarsefilter (efficiency of 90% Am)
- Stainless Steel interior (1,5 – 2 mm)
- Stainless Steel worktop
- Sliding window (safety glass)
- Energy saving EC fans

ADDITIONAL FEATURES



DownFlow PCR Series is standard equipped with:

- Stainless Steel interior
- UV light
- Aperture cover

UV light denaturates nucleic acids contaminants.

Adaptable for many applications

The available options and accessories make this cabinet adaptable to many applications. Together with the flexibility and expertise of our engineering department, this cabinet is suitable to customise to customer specific requirements





ADVANCED SAFETY FEATURES



- HEPA filter surface covers complete work area. No dead corners and a laminar flow in the entire working area
- Smooth interior for efficient and easy cleaning
- Automatic compensation of air velocity because of HEPA-filter clogging
- Two redundant microprocessors (fail-safe synchronization)
- Optional UV light safety control: LED light will be switched off when UV light is switched on
- Optional gas valve safety control: Gas can only be switched on when the cabinet indicates safe work mode. If the cabinet is switched off or shows an alarm, the gas will automatically be switched off

OPTIONS & ACCESSORIES



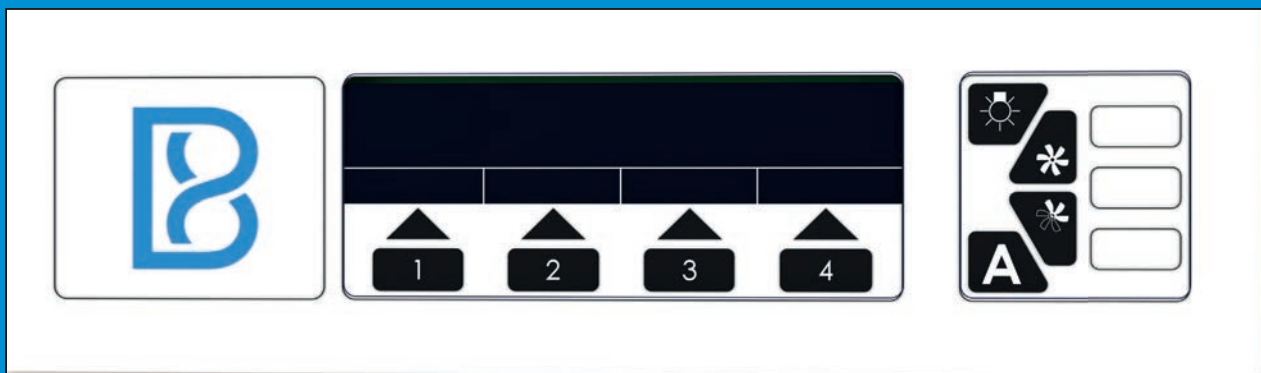
- Support frame (fixed or electrical adjustable)
- Taps (natural gas, vacuum, O₂, N₂, etc)
- Electrical sockets(s)
- Stainless Steel bar with (6 or 8) hooks
- FAT / SAT / IQ / OQ
- UV light*
- Aperture cover (nightdoor)*

*Standard for PCR

USER-FRIENDLY CONTROL PANEL FOR INTUITIVELY OPERATING



- Green light indicates safe work mode
- Red light indicates alarm (visual and audible) for Airflow (high/low)
- Switch for work mode (on/off)**
- Switch for stand-by mode (on/off)
- Switch for UV light (on/off)**
- Switch for LED light (on/off)
- Switch for power socket (on/off)**
- Switch for gas valve (on/off)
- English, Spanish, French, German and Dutch language
- Real-time clock
- Total running hours for fan, LED, UV
- Pin code to prevent unauthorised usage
- RS 232 and RS 485 connection
- Volt free contact for forwarding alarms to building management systems
- Volt free contact(s) which can be used to switch on/off an external system
- Prepared for control of disinfection options







HIGH QUALITY



DownFlow series is a high quality downflow cabinet range for handling non-hazardous materials that require a clean working environment.

- High quality
- Reliable performance
- Ergonomic design
- Low noise level
- Easy to clean
- User-friendly control panel
- Advanced safety features
- Low energy level

ADAPTABLE FOR MANY APPLICATIONS



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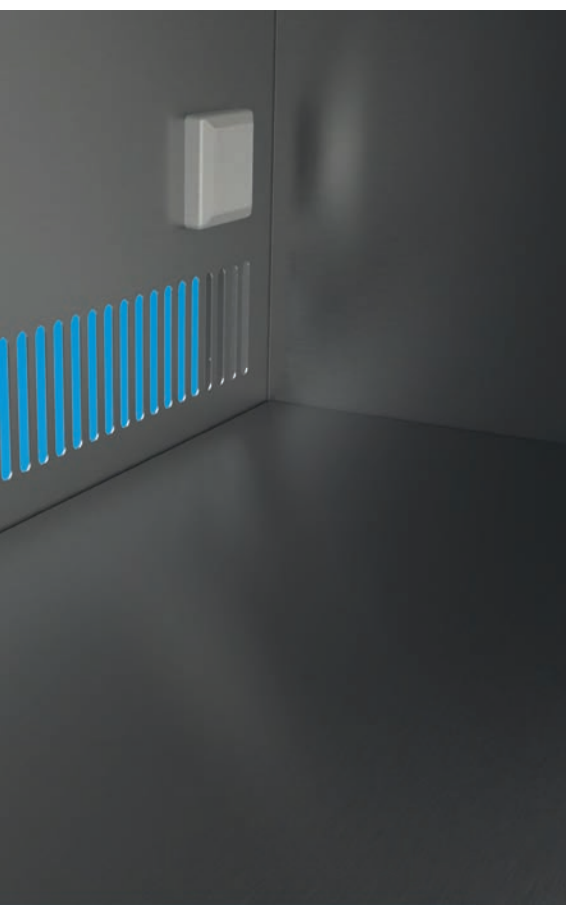
Technical Specifications

Model Number	DLF 360	DLF 460	DLF 560	DLF 660
Type dimensions (MM)				
Exterior dimensions (wxdxh)	985 x 740 x 1360	1290 x 740 x 1360	1595 x 740 x 1360	1900 x 740 x 1360
Interior dimensions (wxdxh)	885 x 600 x 685	1190 x 600 x 685	1495 x 600 x 685	1800 x 600 x 685
Height with support frame [1]	2140 / 2240	2140 / 2240	2140 / 2240	2140 / 2240
Working aperture (h) [2]	170 / 375	170 / 375	170 / 375	170 / 375
Weight (kg)	140	170	200	230
Performances				
Downflow velocity (m/s)	0,36 +/- 0,05	0,36 +/- 0,05	0,36 +/- 0,05	0,36 +/- 0,05
Light intensity (lux)	> 800	> 800	> 800	> 800
Electrics				
Electrical connection (V)/ (Hz)	230 / 50	230 / 50	230 / 50	230 / 50
Power consumption (w) [3]	65 / 100	85 / 160	110 / 215	130 / 270
Filters				
Pre-filter (ISO 16890)	Coarsefilter	Coarsefilter	Coarsefilter	Coarsefilter
Downflow HEPA filter (EN 1822)	H14	H14	H14	H14

[1] Support frame with working height 800 mm / 900 mm

[2] Work mode / maximum

[3] Powersave mode / Working mode



LEARN MORE ABOUT THE DOWNFLOW

The DownFlow cabinet is an energy efficient vertical laminar flow clean bench, providing optimal product protection for work with non-hazardous materials.





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