

- HIGH QUALITY • RELIABLE PERFORMANCE • ADVANCED SAFETY FEATURES
- USER-FRIENDLY CONTROL PANEL • ERGONOMIC DESIGN • EASY TO CLEAN
- LOW NOISE LEVEL

CLEANAIR

by **BAKER**

DLF series



DOWNFLOW CABINET
PRODUCT PROTECTION



High quality

DLF 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

International safety standards

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

Applications

It's applications are in the field of pharmaceutical industry, biotechnology, pharmacies, hospitals, university laboratories, tissue culture and electronic laboratories.

Available sizes

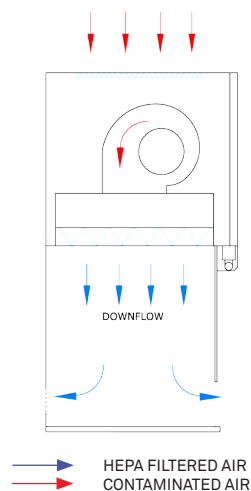
DLF Series is standard available in sizes 3, 4, 5 and 6 ft width (90, 120, 150 and 180 cm).

Basic principle

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, ensures product protection.



DLF 460



Special application

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

Additional features

DLF PCR Series is standard equipped with:

- Stainless Steel interior
- UV light
- Aperture cover

UV light denaturates nucleic acids contaminants.



DLF PCR

Features & Benefits

General features

- Microprocessor flow control
- Control panel with alarms and parameters
- HEPA filter H14 (efficiency of 99,995% MPPS)
- Pre-filter G3 (efficiency of 90% Am)
- Epoxy coated steel in- and exterior (1,5 - 2 mm)
- Stainless Steel worktop
- Sliding window (safety glass)

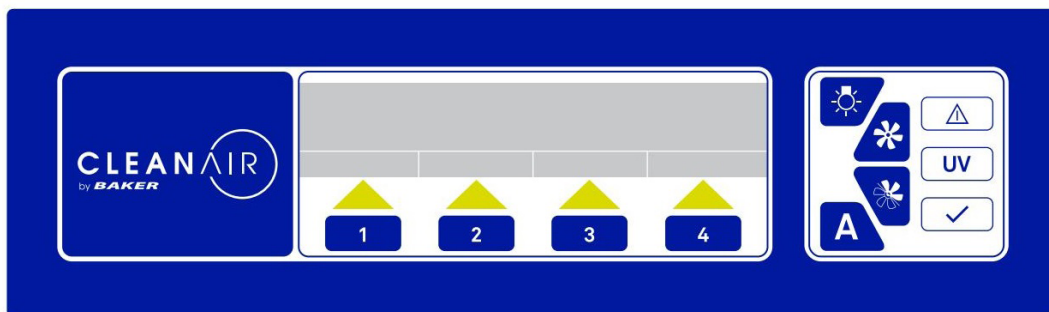
Advanced Safety features

- 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: FL 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.

Adaptable to 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.

Control panel with alarms and parameters



- 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 FL 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, FL, 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

** Also controllable by programmable clock (on/off) or timer

Technical Specifications

TYPE	DLF 360	DLF 460	DLF 560	DLF 660
Part numbers	NP0027360	NP0027460	NP0027560	NP0027660
TYPE	DLF/PCR 360	DLF/PCR 460	DLF/PCR 560	DLF/PCR 660
Part numbers	NP0024360	NP0024460	NP0024560	NP0024660
DIMENSIONS (MM)				
Exterior dimensions (wxdxh)	985 x 740 x 1360	1290 x 740 x 1360	1595 x 740 x 1350	1900 x 740 x 1360
Interior dimensions (wxdxh)	1190 x 580 x 730	1495 x 580 x 730	1805 x 580 x 730	1800 x 600 x 685
Height with support frame ^[1]	2140 / 2240	2140 / 2240	2140 / 2240	2140 / 2240
Aperture H ^[2]	165/375	165/375	165/375	165/375
Weight (kg)	140	170	200	230
PERFORMANCES				
Downflow velocity (m/s)	0,35	0,35	0,35	0,35
Sound level (dBA)	< 58	< 58	< 58	< 58
Power consumption (w) ^[3]	236 / 382	258 / 428	276 / 474	297 / 518
Light intensity (lux)	> 800	> 800	> 800	> 800
ELECTRICS				
Electrical connection (V)/(Hz)	230 / 50	230 / 50	230 / 50	230 / 50
FILTERS				
Pre-filter (EN 779)	G4	G4	G4	G4
Horizontal HEPA filter (EN 1822)	H14	H14	H14	H14

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

[2] Work mode / maximum

[3] Stand-by mode and light off / work mode and light on

Standards

The cabinets are build according to the following standards: ISO Class 5, GMP Class A, 2006/42/EC, 2004/108/EC, 2006/95/EC, EN 61010-01.

Options & Accessoires

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

* Standard included in DLF-PCR Series