13. Life Sciences, Biotechnology

Gel documentation-Laminar flows/Personal Protection

Gel documentation system Doc-Print VX2

- Compact, PC-independent gel documentation system - Robust and durable
- Easy handling, even with wet gloves
- Large TFT display, excellently readable
- Context-sensitive task buttons, quick-shot button
- Highly-sensitive scientific camera for high imaging quality

All models with the following standard components:

- Sensitive CCD camera, zoom, UV spectral filter, hood
- Control unit with integrated display and USB ports
- Free PC analysis software



| Туре | Description | PK | Cat. No. |
|---------------|----------------------------------------------------------------|----|-----------|
| | | | |
| DP VX2 | With standard components | 1 | 7.930 022 |
| DP VX2-P | With standard components and thermal printer | 1 | 7.930 023 |
| DP VX2-20.M | With standard components and transilluminator BECXF-20.M | 1 | 9.971 928 |
| DP VX2-P-20.M | With standard components, thermal printer and transilluminator | 1 | 9.971 929 |

Gel documentation system DP-1100

- PC-independent gel documentation system with compact, high-quality darkroom made of metal
- Robust and durable
- Easiest handling, even with wet gloves
- Large TFT display, excellently readable
- Context-sensitive task buttons, quick-shot button
- Highly-sensitive scientific camera for high imaging quality

All models with the following standard components:

- Sensitive CCD camera, zoom, UV spectral filter
- Darkroom with filter wheel, integrated, completely extendable transilluminator BECXF-20.M with automated UV security switch
- Control unit with integrated display and USB ports
- Free PC analysis software



| Туре | Description | PK | Cat. No. |
|-----------|----------------------------------------------|----|-----------|
| DP-1100 | With standard components | 1 | 9.971 930 |
| DP-1100-P | With standard components and thermal printer | 1 | 7.930 095 |

Microbiological Safety Cabinets, Class II, Type Infinity®

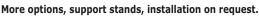
The Industrys Premier Biological Safety Solution from Esco. Class II according to DIN EN 12469.

- Ergonomically angled and motorized front sash for one hand operation
- Esco triple-wall design with negative pressure prevents the possibility of contamination from leaks.
- A large easy-to-read digital display and ergonomically sized touchpad.
- Dual fan design for guaranteed safety
- The interior sides and back wall are formed from a single piece of stainless steal.
- Multi-piece work surface removal simplifies cleaning
- Esco ISOCIDE™ antimicrobial coating on all painted surfaces minimizes contamination.
- Accuflow-speed controller maintains steady blower speed
- Certified according to EN 12469 by TÜV-Nord, Germany
- HPV-compliant and approved for safe decontamination

Standard equipment:

- 2 electrical outlets









| Туре | Size | External dimensions (W x D x H) | PK | Cat. No. |
|-------------------|------|---------------------------------------|----|-----------|
| | | mm | | |
| Infinity® FC2-4A1 | 1.2m | 1420 x 805 x 1535 | 1 | 9.536 715 |
| Infinity® FC2-5A1 | 1.5m | 1725 x 805 x 1535 | 1 | 9.536 716 |
| Infinity® FC2-6A1 | 1.8m | 2030 x 805 x 1535 | 1 | 9.536 717 |

13. Life Sciences, Biotechnology

Laminar flows/Personal Protection



Microbiological Safety Cabinet, class II Type Airstream®

The Industrys Most Energy Efficient Class II Cabinet. Class II according to DIN 12469.

Esco

- Ergonomically angled and frameless front sash
- A large easy-to-read digital display and ergonomically sized touchpad.
- Tempered glass side walls
- Esco triple-wall design with negative pressure prevents the possibility of contamination from leaks.
- $\ensuremath{\mathsf{ISOCIDE}^{\text{\tiny{IM}}}}$ antimicrobial coating on all painted surfaces minimises contamination.
- Sentinel-Microprocessor maintains steady blower speed
- INNOVA™ energy saving fan technology reduces cabinet power consumption.
- HPV-compliant and approved for safe decontamination

Other varieties:

- Airstream G with Dual-Exhaust Filters (2 x HEPA), better protection
- Airstream G with Dual-Exhaust Filters (1 x HEPA, 1 x Activated carbon), for additional chemical protection

Standard equipment:

- 2 Electrical outlets
- UV Lamp with timer

More options and support stands on request.

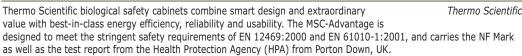
| Туре | Size | External | PK | Cat. No. |
|----------------------|-------|---------------------------|----|-----------|
| | | dimensions (W x D x H) | | |
| | | mm | | |
| Airstream E AC2-2E1 | 0.6 m | 730 x 800 x 1400 | 1 | 9.536 710 |
| Airstream E AC2-3E1 | 0.9 m | 1035 x 800 x 1400 | 1 | 9.536 711 |
| Airstream E AC2-4E1 | 1.2 m | 1340 x 800 x 1400 | 1 | 9.536 712 |
| Airstream E AC2-5E1 | 1.5 m | 1645 x 800 x 1400 | 1 | 9.536 713 |
| Airstream E AC2-6E1 | 1.8 m | 1950 x 800 x 1400 | 1 | 9.536 714 |
| Airstream G AC2-4G1* | 1.2 m | 1340 x 800 x 1470 | 1 | 7.939 057 |
| Airstream G AC2-6G1* | 1.8 m | 1950 x 800 x 1470 | 1 | 7.939 058 |

*with additional charcoal filter



MSC-Advantage™ Class II Biosafety Cabinets





- 60% less energy consumption than competing AC motor-driven cabinets
- 60% less heat emission than competing AC motor-driven cabinets
- Extremely low noise level (54 or 59 dB(A)) for a more comfortable work environment
- Largest work surface area of any cabinet (more workspace for your research)
- Cleaning position of window (patented feature that allows user to clean the entire window)
- Sloped front window for improved ergonomics (more comfortable working position)
- Motor operates at reduced speed when front window is closed (keeps interior cleaner for faster set up each day and eliminates noise into the lab when not in use)
- Low overall height to fit into labs with shorter ceilings
- Supply/exhaust air filter: HEPA H 14 EN 1822, 99.999% at 0.3 μm particle size
- Additional exhaust filter option (AEF): HEPA H 14 EN 1822, 99.999% at 0.3 μm particle size
- Voltage: 230 V, 50/60 Hz



| Description | External dimensions (W x D x H) | Internal dimensions (W x D x H) | Weight | PK | Cat. No. |
|-------------------|---------------------------------------|---------------------------------------|--------|----|-----------|
| | mm | mm | kg | | |
| MSC Advantage 0.9 | 1000 x 800 x 1522 | 900 x 630 x 780 | 170 | 1 | 4.010 047 |
| MSC Advantage 1.2 | 1300 x 798 x 1550 | 1200 x 495 x 780 | 240 | 1 | 6.235 767 |
| MSC Advantage 1.5 | 1600 x 800 x 1522 | 1500 x 630 x 780 | 230 | 1 | 4.010 048 |
| MSC Advantage 1.8 | 1900 x 798 x 1550 | 1800 x 495 x 780 | 340 | 1 | 4.010 033 |

1242 E & OE.

Laminar flows/Personal Protection

Accessories for MSC-Advantage Microbiological Safety Cabinets Class II



Thermo Scientific

| Description | PK | Cat. No. |
|---------------------------------------------------------------------------|----|-----------|
| | | |
| Standard floor stand, 750mm height for 1.8m cabinet | 1 | 4.009 986 |
| Manual Adjustable stand, 1.2m cabinet, 750-950mm in 50mm increments | 1 | 4.009 987 |
| Manual Adjustable stand, 1.8m cabinet, 750-950mm in 50mm increments | 1 | 4.009 988 |
| Electric Adjustable stand, 750-950mm height for 1.2m cabinet | 1 | 4.009 989 |
| Electric Adjustable stand, 750-950mm height for 1.8m cabinet | 1 | 4.009 990 |
| Vacuum tap 3/8 connection | 1 | 4.009 992 |
| UV Light Option, Field Installed | 1 | 4.010 001 |
| UV Light Option, Factory Installed | 1 | 4.010 098 |
| Standard floor stand, 750mm height for 1.2m cabinet | 1 | 6.241 502 |
| Solenoid valve for combustable gas tap | 1 | 9.536 550 |
| Water tap H2O 3/8 connection | 1 | 9.536 551 |
| Non-combustible gas 3/8 tap with long neck for installation in side walls | 1 | 9.536 552 |
| Tap for flammable gas cylinders 3/8 connection | 1 | 9.536 553 |

Microbiological Safety Cabinet BSC-700II



This miniature Class 2 safety workbench offers security on a minimum of space.

The protection of the user as well as the safety of the samples is ensured by the two HEPA filters with an efficiency of 99.995% at 0.3 microns. An air-flow gauge (velometer) monitors the speed of air at the front and will activate an alarm (audiovisual), if the fan malfunctions. The unit may be placed on a desk without any problems, optional with mobile base frame available.

Standard features:

- Electrical sliding window
- UV light, to be positioned freely
- 2 sockets, can be disconnected from outside
- Electronically controlled air stream
- Automatic readjustment of fan
- Stainless-steel working surface
- Quiet fan drive with low vibration
- Digital air flow indication
- Main switch as key-operated switch
- Option: Stainless steel base frame with 4 castors (2 castors are lockable)



Specifications

Safety standard:

External dimensions (WxDxH): 700 x 650 x 1230mm
Working area dimensions (WxDxH): 600 x 500 x 540mm
Material front sash: Multi-layer toughend glass
Material working area: SUS 304 stainless steel
Clean level: Class 10
Noise level: 65dB

Vibration: ≤5µm

Power requirements: AC 230/V 50Hz

Power consumption: 800W

Light: >680lux

 Type
 PK
 Cat. No.

 BSC-700II
 1
 9.536 800

EN 12469



Esco

13. Life Sciences, Biotechnology

Laminar flows/Product Containment





Laminar Flow Clean Benches, Horizontal and Vertical Type Airstream®

Esco laminar flow clean benches are the premium selection for the discerning researcher, offering a combination of value, high quality construction, low operating noise levels, and a wide product range to suit all budgets, from the industry leader.

- Sentinel-Microprocessor maintains steady blower speed
- Airflow alarms
- Tempered glass side walls
- H14 HEPA filters providing superior product protection
- Pre-filter EU3
- Average Airflow Velocity (adjustable): 0.45m/s
- The air cleanliness within the work zone is better than ISO Class 5
- ISOCIDE™ antimicrobial coating on all painted surfaces minimizes contamination.

Standard equipment:

- 2 Electrical outlets
- UV Lamp with timer

More options and support stands on request.

| Туре | Size | External dimensions (W x D x H) mm | Description | PK | Cat. No. |
|--------------------|------|---------------------------------------------|-------------|----|-----------|
| Airstream® AHC-2D1 | 0.6m | 730 x 797 x 1105 | horizontal | 1 | 9.536 700 |
| Airstream® AHC-3D1 | 0.9m | 1035 x 797 x 1105 | horizontal | 1 | 9.536 701 |
| Airstream® AHC-4D1 | 1.2m | 1340 x 797 x 1105 | horizontal | 1 | 9.536 702 |
| Airstream® AHC-5D1 | 1.5m | 1645 x 797 x 1105 | horizontal | 1 | 9.536 703 |
| Airstream® AHC-6D1 | 1.8m | 1950 x 804 x 1175 | horizontal | 1 | 9.536 704 |
| Airstream® AVC-2D1 | 0.6m | 730 x 770 x 1250 | vertical | 1 | 9.536 705 |
| Airstream® AVC-3D1 | 0.9m | 1035 x 770 x 1250 | vertical | 1 | 9.536 706 |
| Airstream® AVC-4D1 | 1.2m | 1340 x 770 x 1250 | vertical | 1 | 9.536 707 |
| Airstream® AVC-5D1 | 1.5m | 1645 x 770 x 1250 | vertical | 1 | 9.536 708 |
| Airstream® AVC-6D1 | 1.8m | 1950 x 770 x 1250 | vertical | 1 | 9.536 709 |

PCR Cabinets Type Airstream® SCR/PCR



Active PCR Cabinet with built-in UV Decontamination and true vertical laminar airflow.

Esc

- Average Airflow Velocity (adjustable): 0.3m/s
- HEPA filter with Prefilter
- The air cleanliness within the work zone is better than ISO Class 5
- Sentinel-Microprocessor maintains steady blower speed (only 0.9m and 1.2m models)
- Hinged polycarbonate front window
- Tempered glass side panel
- ISOCIDE™ antimicrobial coating on all painted surfaces minimizes contamination.
- Fluorescent lighting provides superior illumination of the work zone
- Build-in UV lamp with timer
- Pass-through ports in the back wall

More options and support stands on request.

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| | | | |
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| V | _ | - | |

| Туре | Size | External dimensions (W x D x H) | PK | Cat. No. |
|--------------------|-------|---------------------------------|----|-----------|
| | | mm | | |
| Airstream® SCR-2A1 | 0.6 m | 730 x 617 x 950 | 1 | 7.939 129 |
| Airstream® PCR-3A1 | 0.9 m | 1035 x 617 x 950 | 1 | 7.939 127 |
| Airstream® PCR-4A1 | 1.2 m | 1340 x 617 x 950 | 1 | 7.939 128 |

1244 E & OE.

13. Life Sciences, Biotechnology

Laminar flows/Product Containment

UV sterilisation cabinets



Cleaver Scientific

These UV Sterilisation Cabinets provide a convenient area for setting up PCR reactions in a nucleic acid free environment thus limiting PCR reaction contamination. Acting

effectively as a low cost alternative to a clean room, the powerful UV lights on the cabinets denature nucleic acids in 5 to 30 minutes making them unsuitable for amplification. The cabinet incorporates safety features to prevent user exposure to UV lights. The UV lights themselves are timer controlled and there are safety switches on the cabinets doors which turn off the UV lights when opened.

SpecificationsMaxi/MiniUV Lights:4 x 15WWhite Lights:15

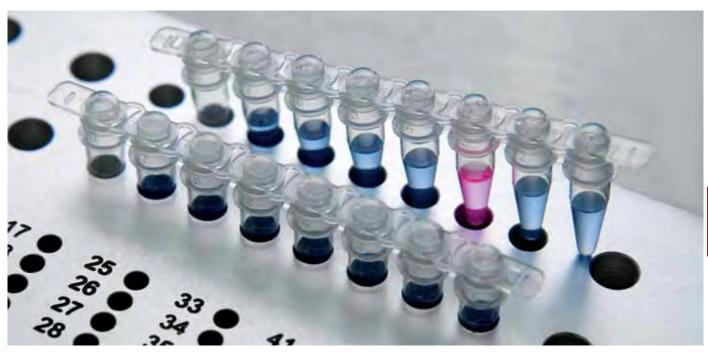
Dimensions (H x W x D): 770 x 560 x 420mm/510 x 560 x 350mm

Weight: 19kg/12kg

| Туре | Description | PK | Cat. No. |
|---------------|--------------------------------------------|----|-----------|
| CSL-UVCAB | UV sterilisation cabinets Maxi, with timer | 1 | 9.584 774 |
| CSL-UVCABMINI | UV sterilisation cabinets Mini, with timer | 1 | 9.584 775 |







14. Chromatography Contents

| Vials | 1247 |
|-----------------------------------------------------------------------------------------------------------------------------|------|
| Ampoules, Septa 1247 Syringes | 1276 |
| Microlitre Syringes 1276 | |
| Sample preparation SPE 1284 | 1284 |
| Chromatography columns HPLC 1300 + Flash columns 1324 + Solvent storage/handling 1326 + GC columns 1337 + GC Reagents 1352 | 1300 |
| Thin-layer chromatography | 1355 |

Plates 1355 + Detection 1362 + General Accessories 1363