Construction

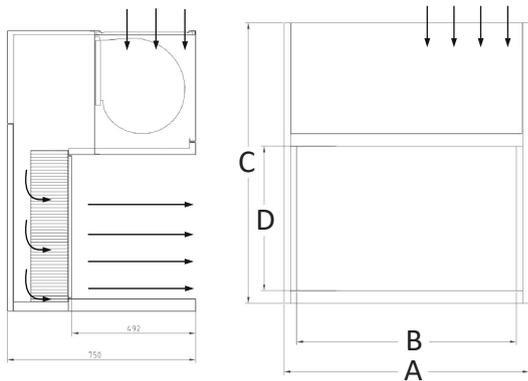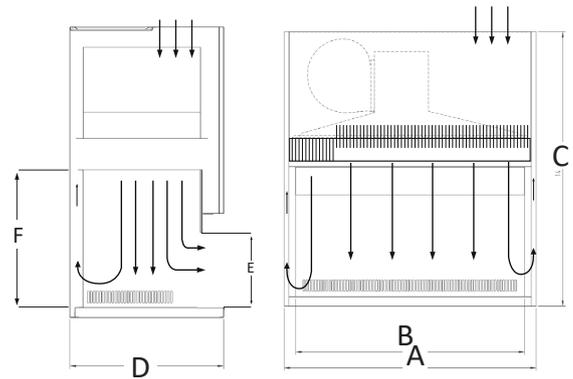|	
CABINET	The housing is constructed of locally sourced steel and consists of a high-quality powdercoated finish to provide a suitably solvent, alkali and acid resistant laboratory grade coating. The work area is fully constructed from stainless steel, with inward folds to avoid sharp edges. A removable, washable metal screen protects the HEPA filter from mechanical damage.
FANS	A direct-drive fan is regulated by a speed controller to enable airflow to be maintained through filter life. Fans and filter plenums are designed to provide quiet operation and low vibration level.
HEPA FILTERS	Clyde-Apac® Microseal™ HEPA filters, are certified for compliance to AS 4260. Each filter is individually certified to be leak-free in accordance with AS 1807.6. A manfufacturer endorsed test label fitted with an extract of the test report is affixed to each filter. A prefilter extends the life of the exhaust HEPA filter and protects it from the mechanical damage during cleaning of the work zone.
PRE-FILTERS	An easily-accessed, washable pre-filter arrests not less than 90% of particles 5 micron and larger, thus prolonging HEPA filter life. A warning light in the control panel signals the need for pre-filter service.
ELECTRICAL	A low voltage touch control panel is located on the front of the cabinet. Glare-free lamps provide a minimum lighting intensity of min 650 lux at the work floor.

HWS Cabinet

PHYSICAL DATA (MM)

MODEL	A	B	C	D	KG
HWS 90	980	880	1130	580	120
HWS 120	1280	1180	1130	580	150
HWS 120/75	1280	1180	1280	730	180
HWS180	1890	1790	1130	580	200
HWS180/75	1890	1790	1280	730	230

Standard Features

- Stainless steel work zone
- Low voltage touch controls
- Pre-filter service
- Glare-free fluorescent lighting
- Comprehensive operation manual
- Power outlet

Options

- Hourmeter
- Manometer
- Service taps for air, gas and vacuum
- Extra quiet operation
- Floor stand (fixed height)
- Floor stand (electric height - adjustable)
- Germicidal UV lamp
- UV shield/ work zone cover

VWS Cabinet

PHYSICAL DATA (MM)

MODEL	A	B	C	D	E	F	KG
VWS 90	1000	880	1420	712	550	690	150
VWS 120	1340	1180	1420	712	550	690	200
VWS 180	1962	1800	1420	712	550	690	270

Standard Features

- Stainless steel work zone
- Pre-filter service
- Partial airflow recirculation
- Comprehensive operation manual
- Low-voltage touch controls
- Glare-free fluorescent lighting
- Quiet, low-vibration operation

Options

- IV hanging rail
- Hourmeter
- Manometer
- Service taps for air, gas and vacuum
- Extra quiet operation
- Floor stand (fixed height)
- Floor stand (electric height - adjustable)
- Double-sided operation
- Recirculating avaliable
- IVF avaliable
- Germicidal UV lamp
- UV shield/ work zone cover

On-Site Testing

HWS & VWS Series cabinets are factory tested and certified by a NATA-Accredited laboratory. Additional testing and certification is recommended as follows:

- On site prior to use
- After maintenance
- After filter replacement
- After re-location
- At least annually
- In special circumstances, e.g. if faulty operation is suspected.

Other Products

- UltraSafe™ Cabinet Series
- CSV™ Cabinet Series
- CG2000™ Cytotoxic Drug Safety Cabinets

bsi. ISO 9001 Quality Management

AES Environmental maintains an ISO 9001:2008 quality management system to ensure process and product conformance.

Performance Specification

Cleanliness: ISO class 5 (class 100)

Air velocity: ≥0.3m/s (adjustable)

Illuminance: >650 lux

Power Supply: 220-240V, 1ph, 50Hz

Filter: Pre filter & HEPA filter

UV: 2 pcs

Personnel Protection

HWS & VWS cabinets provide protection for products or experiments, but do not protect personnel from aerosols of hazardous materials that may be handled in the cabinet. For applications where personnel and environmental protection is required, Clyde-Apac Class I or Class II biological safety cabinets, or cytotoxic drug safety cabinets (as applicable) should be considered.

THE COMPANY

AES Environmental is an Australian owned manufacturing business producing products under Clyde-Apac, Email Air Handling and Vokes brand names for industries that are as varied as industrial plants, commercial buildings, power stations, food processing, healthcare, science and electronics. AES Environmental considers the Australian Standards as a core component of its product mix and has developed an export market in 25 countries, promoting Australian Standards, engineering and manufacturing solutions. AES Environmental, a trusted manufacturer capable of delivering reliable product solutions to highly-critical applications, where the control of hazardous airborne contamination is often critical to process and personnel.

AES ENVIRONMENTAL

CLYDE-APAC   EMAIL AIRHANDLING   VOKES Filtration Technology

NATA ACCREDITED FOR TECHNICAL COMPETENCE

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