Contained Storage Ventilation CSV Cabinet



0

Applications

Clyde-Apac CSV safe storage cabinets are designed to contain laboratory chemical fumes (including formalin) and other odours given off by specimen jars and bottles during storage.

Description

CSV cabinets are manufactured in a variety of configurations including self contained units fitted with optional HEPA, carbon filters and ducted models that are designed to be connected to building services.

The cabinets are manufactured in Australia and are available with a nominal width of 90cm or 150cm. Each cabinet is factory-tested to ensure compliance with relevant Australian standards.

Operation

Recirculating CSV modules utilise a direct drive fan that draws ambient air into the cabinet from the air intake that is located under the viewing window.

Air passes through the perforated storage shelves and into the exhaust filter system, consisting of two stages of filtration, prior to being recirculated into the room. The first stage prefilter arrests > 90% of particles 5 micron and larger. The final activated carbon filter incorporates carbon granules with a selected chemical impregnation to optimise the arrestance of specific vapours. Specific impregnations are available for the handling of a wide range of contaminants. The contaminants include:

- >> Formaldehyde and glutaraldehyde
- Alkaline odours
- >> Ammonia and amines
- >> Inorganic acids and acidic odours
- >> H2S and mercaptans
- >> HCN

Cabinets operate on single-phase 240V, 50 Hz power via a 10A outlet. A low voltage touch control panel with function status indicated by LEDs is located on the front of the cabinet. An audible alarm indicates low air flow within the cabinet.

Ducted models are designed to work with building services and can be fitted with additional filtration systems.



Construction

Frame	Anodised aluminium frame with safety glass doors and viewing windows, fitted with self levelling feet			
Shelves	Five adjustable, perforated stainless steel			
Drip Tray	Removable stainless steel tray for spill catchment Minimum capacity 10L			
Exhaust Module	Laboratory grade baked enamel coated mild steel			
Fan	Direct drive centrifugal with variable speed control			
Controls	Low-voltage control panel with function indication			
Airflow	> 0.5m/s across opening with doors closed Boost mode activated when doors are opened			
Voltages	220/240V 50Hz single phase			
Current	Maximum 750W			

On-Site Testing

Products produced by AES are factory-tested to ensure compliance and performance targets are met.

Additional testing and certification is recommended as follows:

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

AES Environmental is a NATA registered laboratory that provides comprehensive

on-site maintenance, testing and certification services of safety cabinets, laminar flow work stations, cleanrooms, operating theatres and HEPA filter installations.



How To Specify

Contained Storage Ventilation (CSV) cabinets shall be Clyde-Apac manufacted by AES Environmental. CSV cabinets shall be produced in 304 grade stainless steel and 6mm thick, toughened glass shall be used for the viewing window. Air shall enter the storage cabinet through the base of the door assembly and shelves must be slotted as to create air passage ways through-out storage areas. Recirculating CSV units shall be fitted with an appropriate fan and filter housing so as to provide safe containment to occupants of the laboratory, ducted units shall be fitted with top spigot connections at a minimum of 300mm diameter.

General Specification CSV Storage Cabinets

Model		CSV90	CSV150
Nominal Size (W)		900mm	1500mm
External Dimensions	Width	900mm	1500mm
	Depth	750mm	750mm
	Height	2400mm	2400mm
Internal Work Zone Dimensions (D)		600mm	600mm
Working Opening		Two doors	Two doors
Fans		Optional	Optional
HEPA Filter		Optional	Optional
Carbon Filter		Optional	Optional
Typical Efficiency		99.997%	99.997%
Germicidical UV Lamp		Optional	Optional
Fluroescent Lamp		Optional	Optional
Cabinet Construction		Stainless Steel 304	Stainless Steel 304
Front viewing window		Glass 6mm	Glass 6mm
Spigot Options		Тор	Тор