



**enviroflo.**

**Moving Contamination In The Right Direction**

# ABOUT US



- enviroflo Product Line First Introduced In 2002
- Manufacture Custom Containment & Safety Enclosures For Critical Applications
- Servicing Pharmaceutical, Biotech, Medical Device, Electronics & Aerospace Industries
- Personnel With Over 40 Years Combined Cleanroom Industry / Design Experience
- USA Distributor For SST, SAFESCIENCE TECHNOLOGIES Ltd Line Of Tox-Safe Balance Enclosures

# HEADQUARTERS & MANUFACTURING OPERATIONS

- Headquarters In San Jose, CA
- Manufacturing Facility Centrally Located In Dallas, TX



# ENCLOSURE APPLICATIONS



- Liquid Handling Robotics
- Powder Containment / Handling
- Clinical Scale Filling
- Analytical Balances
- HPLC Equipment
- Personnel Or Product Protection
- Electronics Manufacturing, Assembly & Testing

# ENCLOSURE DESIGN



- Application Specific Designs
- Static, Re-circulated And Single-pass HEPA Filtered Air
- Heavy Duty Construction



# ENCLOSURE DESIGN



- 6063-T6 Anodized Aluminum Extrusion Framework
  - Optional Stainless Steel
- 4-sided Fascia HEPA Enclosure
- Polycarbonate, Acrylic Or Glass Glazing Materials
- Variety Of Viewing & Access Openings



# ENCLOSURE DESIGN

- 4-sided Access Designed To Your Requirements
  - Front Access
  - Rear Access
  - Side Access



# ENCLOSURE DESIGN



- Dished Base Floors For Secondary Containment
  - Stainless Steel
  - Phenolic Resin
  - Polypropylene





# ENCLOSURE DESIGN



- Positive Or Negative Pressure
- Product Or Personnel Protection
- Table-top Or Full-frame Models





# ENCLOSURE DESIGN OPTION



- BSC 2 Style Airflow Design
  - Product & Personnel Protection
  - Counter-balanced Sash
  - Gas Hinged Windows
  - Custom Operator Access Panels
  - Open Face Air Velocity Maintained At Minimum 100FPM



# ENCLOSURE FEATURES

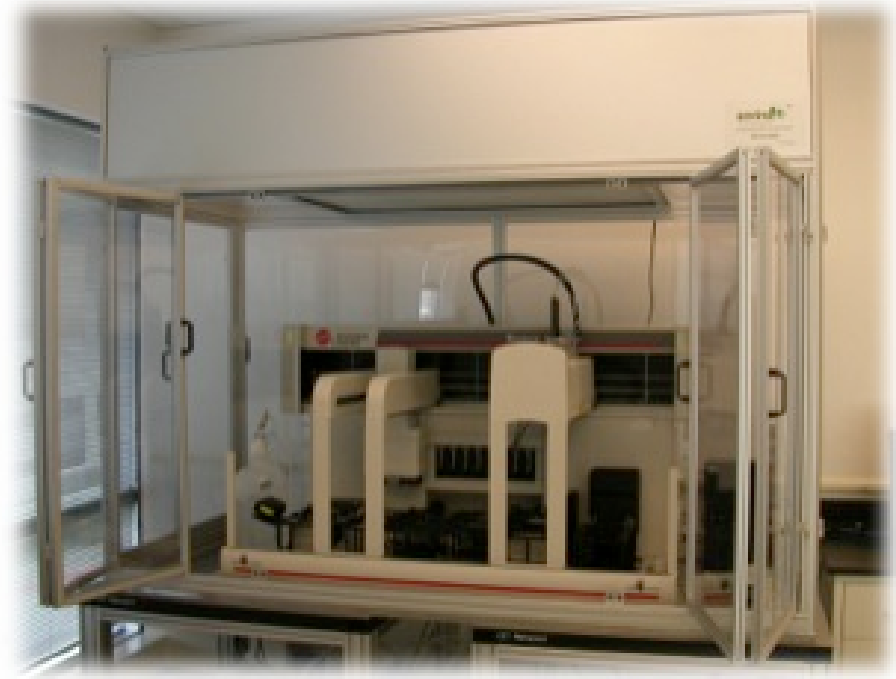
- HEPA Filtered Air – Supply And / Or Exhaust
- Vertical Or Horizontal Airflow
- Rear Plenum Exhaust Option



# ENCLOSURE FEATURES



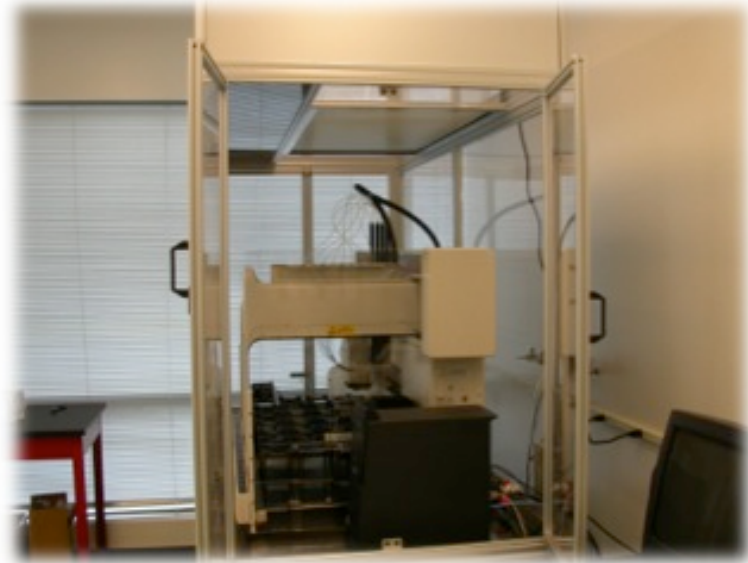
- Full Access Doors For Equipment Installation & Maintenance
- Standard & Custom Sizes



# ENCLOSURE FEATURES



- End Panel Access
- Removable Doors
- Hinged, Bi-fold, Sliding, Flip-Up / Flip-Down Doors, Or Finished Openings



# ENCLOSURE FEATURES



- Integration With Other Manufacturer's Equipment
- HEPA Filtered Side Inlet Air
- HEPA Filtered Exhaust Air (To Laboratory Or House Exhaust)



# ENCLOSURE FEATURES



- Integrated Rear Facilities Panel
  - Bulkhead Fittings
  - Electrical D Connectors
  - Valves, Gauges & Regulator Connections
  - Tubing Pass-thru Fittings





# ENCLOSURE OPTIONS

- Bag-in / Bag-out HEPA Filtration
- Environmental Monitoring Controls
- 3<sup>rd</sup> Party Airflow Certification
- Lower Frame Storage



# ENCLOSURE OPTIONS



- Environmental Monitoring
  - Temperature / Humidity Control
  - HEPA Filtration
  - Particle Monitoring
  - Airflow Monitoring
  - Data Logging



# ENCLOSURE OPTIONS



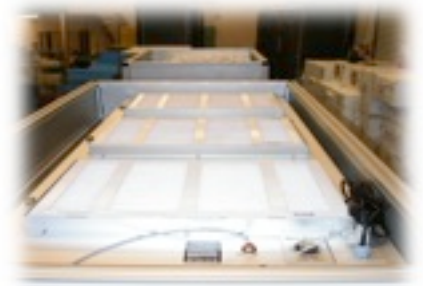
- Available Portable Motorized HEPA Filter Modules



# SOFTWALL ENCLOSURES



- C-Frame, H-Frame Or 4-Post Frame Design
- Locking Casters / Seismic Zone Bracing
- Softwall Curtains



# ELECTRONICS INDUSTRY WORKSTATIONS

- ESD Panels And Surfaces
- Airborne Particle Monitoring
- Dual HEPA Filtered Workstations
- N2 / CDA Connections



# SST SAFESCIENCE TECHNOLOGIES



## Features

- enviroflo, Inc. Offers The Complete Line Of Acrylic Enclosures from SAFESCIENCE TECHNOLOGIES Ltd.
- Tox-Safe Balance Enclosure
- Dual HEPA Filtered Workstations
- N2 / CDA Connections



# SST SAFESCIENCE TECHNOLOGIES



## Features

- Turbulence Free Environment Provides Unrivalled Balance Stability
- New Safe-Change HEPA Filtration Reduces Maintenance Costs





## Features

- A Multitude Of Configurations Available For All Laboratory Containment Requirements.
- Validated IQ/OQ Documentation Available.
- Standard Sizes Range From 900mm-1800mm





# SST SAFESCIENCE TECHNOLOGIES



## Features And Benefits

- 6mm Cast Acrylic Design And Built. All Components Produced From The Same Material Helping To Reduce Cost To Customer.
- TOPLAB 20mm High Density Chemically Resistant Matt Black Base Gives Routed To Assure No Spillages And Giving Balance Stability.





## Features And Benefits

- All Fixings And Fittings Can Be Maintained From Outside The Enclosure. No Requirement To Maintain Internally.
- Higher Front Aperture Giving Better Ergonomics And Higher Containment Performance.





## Internal Baffle Design

- Clear Baffle Exposes All Potential Contamination. No Hidden Area's For Lab Dust To Collect Assuring A Safer Environment.
- Baffle Design Allows For Greater Internal Working Area Without Compromising Containment Performance.





## Internal Baffle Design

- Fixings For Baffles Allow For Easy Removal For Cleaning And De-contaminating.
- Flat Back System Gives Easier Placement In Any Laboratory.
- Airfoils Fitted To Keep Airflow Laminar.





## Alarm System

- Digital Hot Wire Anemometer Alarm System
- User Password Protected For Set Up And Calibration.
- User Setting Available On High And Low Alarms.





## Alarm System

- Full Data Logging
- Traceable Sensor Readings
- Pinpointing Alarms

- Touch Screen Calibration To 0.01m/S Giving More Accurate Calibration.

- Easily Adaptable For Any Instrument





## **Stainless Steel Potent Powder Enclosure**

- Larger And Elevated Face Opening Give Greater Accessibility.
- Stainless Steel Base And Removable Plenum Assures A GMP Compliant Enclosure For CIP.
- Turbulence Free Environment Provides Unrivalled Balance Stability



# SST SAFESCIENCE TECHNOLOGIES



## **Stainless Steel Potent Powder Enclosure**

- Controlled Containment Environment To Nano-particle Levels With A Range Of Filtration Options.
- A Multitude Of Configurations Available For All Laboratory Containment Requirements.
- Validated IQ/OQ Documentation Available.





# SST SAFESCIENCE TECHNOLOGIES



## Customized Solutions

- SST Has Over 15 Years Experience In Designing, Building And Qualifying Customized Solutions For High Potency Applications
- Incorporating A Highly Technical Team To Assure The Instrument Provides The Optimum Application Solution.





## Customized Solutions

- Full FAT And Occupational Hygiene Qualifications Available To Guarantee High Potency Containment.
- Project Capabilities Range From PPE To High Potency Manufacturing Suites.
- Available In Stainless Steel.



# FACTORY SUPPORT & DOCUMENTATION

- User Requirement Specifications (URS)
- Design Qualification (DQ)
- Installation Qualification (IQ)
- Operational Qualification (OQ)
- Factory Acceptance Test Protocol (FAT)
- Site Acceptance Test Protocol (SAT)



# FACTORY INSTALLATION

- Complete Factory Installation Or Supervision Available
- On-site Assembly Around Existing Equipment When Needed





[www.enviroflo.com](http://www.enviroflo.com)