



BENCHTOP GLOVE BOX

for control environment with close system.

Benchtop Glove box for control environment with close system. Laboratory testing provide low-humidity, temp control, oxygen or nitrogen with inert gas purging control.

MODEL

SUS80-31

Stainless steel SUS304 glove box with pass box



- 304 Stainless steel thickness 2.0 mm. Tilt-up front window clear Acrylic thickness 12 mm with large opening. Safety with shock-up
- can be cleaning inside system with the inert gas port.
- Pass box allow convenient parts transfer.
- Size for glove box 80x70x70 cm.
- Two glove port diameter 200 mm.



Application

- Close system testing for Laboratories of Biological, Chemical, Electronic, Battery , Solar cell.
- Weighing samples of moisture sensitive drug powders.
- Experiments that require low-humidity conditions.
- Operation of various instruments requiring environmental control.
- **Anaerobic Test Glove Box free O₂.**
- **Negative or positive pressure glove box.**
- **Vacuum Glove box.**
- **Benchtop Glove Box for control Environment Equipment Enclosure.**
- **Gas control system nitrogen purge for low –humidity.**
- **Temperature and Humidity control with PLC Controller.**
- **Basic Research Glove Box.**

3A INSTRUMENT CO., LTD.

200/61 Moo.5 Tambon Bangruknoi,
Amphur Muang Nonthaburi, Nonthaburi 11000, Thailand.

Tel. +66 2046 0691-2, +66 2046 2608
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WWW.3AINSTRUMENT.COM





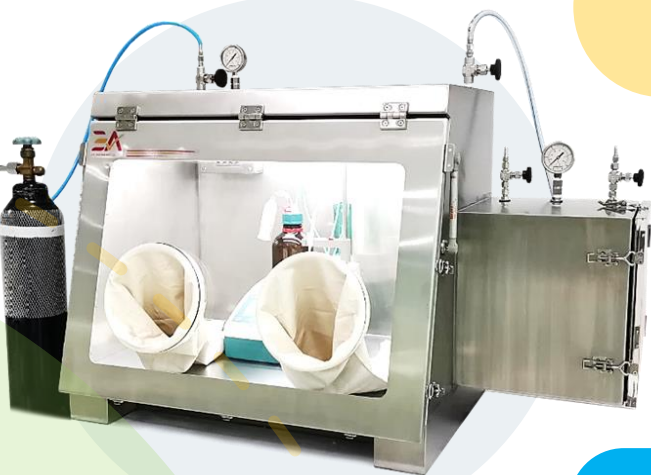
BENCHTOP GLOVE BOX

for control environment with close system.

MODEL

SUS80-xx

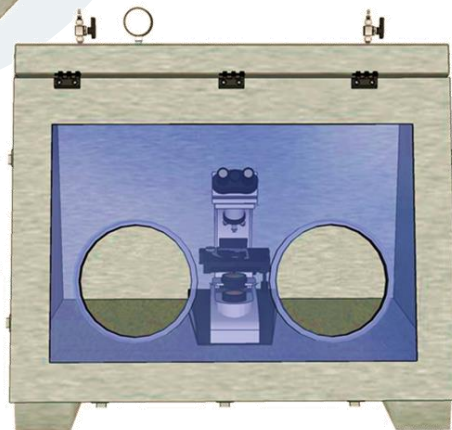
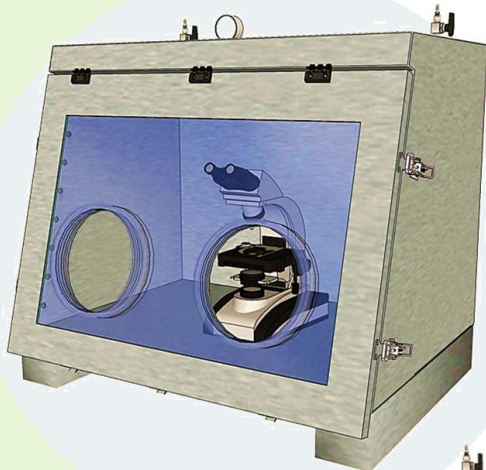
Stainless steel SUS304 glove box



- 304 Stainless steel thickness 2.0 mm.
 - Tilt-up front window clear Acrylic thickness 12 mm.
 - with large opening. Safety with shock-up
- Size for glove box 80x70x70 cm.
Two glove port diameter 200 mm.

Application

- Anaerobic Test Glove Box.
- Protein Analysis
- Glove box for Microscope.
- Biosafety Glove Box.
- Glove Box for control Environment Equipment Enclosure.
- Gas control with nitrogen purge for low-humidity.
- Temperature and Humidity control.
- Basic Research Glove Box.



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BENCHTOP GLOVE BOX

for control environment with close system.

MODEL

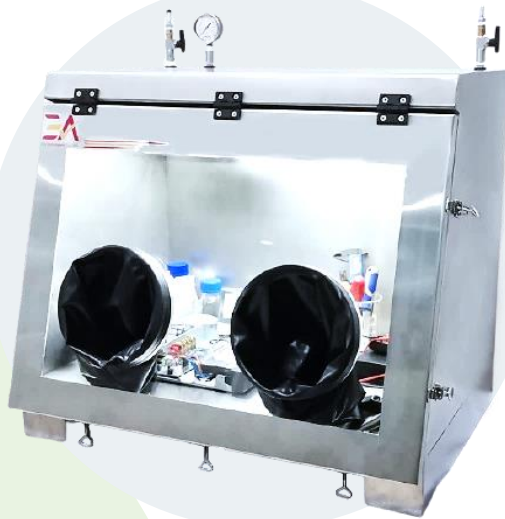
SUS80-30

Stainless steel SUS304 glove box

- 304 Stainless steel thickness 2.0 mm.
- Tilt-up front window clear Acrylic thickness 12 mm with large opening. Safety with shock-up
- Size for glove box 80x70x70 cm.
- Two glove port diameter 200 mm.

Application

- Close system testing for Laboratories of Electronic, Semiconductor, Battery, Solar cell.
- Weighing samples of moisture sensitive powders.
- Experiments that require low-humidity conditions.
- **Benchtop Glove Box for control Environment Equipment Enclosure.**
- **Vacuum Glove box.**



MODEL

G45C-30

Acrylic glove box chamber front door open.

- Material clear acrylic thickness 12 mm.
- Size for glove box W450 x D550 x H700 mm.
- Two glove port diameter 150 mm.
- **Needle Valve for inert gas port 4 set.**

Application

- Gas control system nitrogen purge for low –humidity.
- Negative or positive pressure glove box.
- Vacuum Glove box.
- **Benchtop Glove Box for control Environment Equipment Enclosure.**
- **Basic Research Glove Box.**





BENCHTOP GLOVE BOX

for control environment with close system.

MODEL

G80B-0027

Acrylic Glove Box
Temperature and Humidity Control



- Acrylic materials thickness 10 mm.
- Size for glove box 80x60x60 cm.
- Two glove port diameter 200 mm.
- **Large Tilt-up front door for transfer the instrument for laboratory.**
- **Pass box allow convenient parts transfer. With Temperature and Humidity Control And Dehumidity for low –humidity**

Application

- **Experiments that require low-humidity conditions.**
- Anaerobic Test Glove Box.
- Control Temperature range for glove box chamber.
- **Benchtop Glove Box for control Environment Equipment Enclosure.**
- **Gas control system nitrogen purge for low –humidity.**
- Temperature and Dehumidity control with Controller.
- Basic Research Glove Box.
- **Experiments that require low-humidity conditions. For Plastic, Packaging, Food Powder**

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BENCHTOP GLOVE BOX

for control environment with close system.

MODEL

G100B-11

Acrylic glove box chamber Tilt-up front door with Pass box

- Acrylic materials thickness 10 mm.
- Size for glove box 100x70x80 cm.
- Two glove port diameter 200 mm.
- **Large Tilt-up front door for transfer the instrument for laboratory.**
- **Pass box allow convenient parts transfer.**

Application

- Close system testing for Laboratories of Biological, Chemical, Electronic, Battery , Solar cell.
- Weighing samples of moisture sensitive powders.
- Experiments that require low-humidity conditions.
- Operation of various instruments requiring environmental control, **such as Volumetric and Culometric Karl Fischer Titration.**
- **Benchtop Glove Box for control Environment Equipment Enclosure.**

MODEL

G115B-00 / G115B-10

Acrylic glove box chamber

- Acrylic materials thickness 10 mm.
- Size for glove box 100x70x80 cm.
- Two glove port diameter 200 mm.
- Tilt-up front door open. (Model G115B-10)

Application

- **Experiment Close system for spin coating** is a method of producing uniform thin films using centrifugal force as the method of deposition.
- **Benchtop Glove Box for control Environment Equipment Enclosure.**
- Close system testing for Laboratories of Biological, Chemical, Electronic, Battery, Solar cell.
- Experiments that require low-humidity conditions.



G115B-00



G115B-10

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BENCHTOP GLOVE BOX

for control environment with close system.



MODEL

Cabinet-B64

Acrylic glove box for laboratory testing

- Acrylic materials thickness 10 mm.
- Size for chamber 64x58x65 cm.
- stainless steel 304 Work area size 64x58 cm.
- Two glove port diameter 150 mm.
- Lighting lamp 15W

Application

- Close system testing for Laboratories of Biological, Chemical, Electronic, Battery , Solar cell.
- Weighing samples powders.
- **Benchtop Glove Box for control Environment Equipment Enclosure.**



MODEL

G80B-00

Acrylic glove box chamber

- Acrylic materials thickness 10 mm.
- Size for glove box 100x70x80 cm.
- Two glove port diameter 200 mm.

Application

- Close system testing for Laboratories of Biological, Chemical, Electronic, Battery , Solar cell.
- Weighing samples of moisture sensitive drug powders

DRY GLOVES

for the Semiconductor and Electronic manufacturing.



PIERCAN Glove is high quality product form France. The range of gloves that PIERCAN offers is very wide, comprising dry box gloves, sleeve, and isolator glove.



CSM (Y)

Chlorosulfonated Polyethylene glove (CSM).

- Resistance to ozone, UV and Sterilizing agents (VHP*).
- Excellent mechanical properties.
- Resistance to ionizing radiation and sterilizing process (Gamma and Beta Radiation).

VHP* (Vaporous hydrogen peroxide)



Black EPDM (Eb)

Ethylene Propylene Diene Monomer glove.

- Antistatic
- Excellent Flexibility and dexterity.
- Excellent chemical properties, good mechanical properties.
- Composition in accordance with the FDA positive list (CFR 21 § 177. 2600).
- Resistance to AUTOCLAVE, GAMMA & VHP Sterilization 75 cycles of 30 minutes at 121 °C.



Natural Rubber (H)

Natural rubber glove (polyisoprene)

- Excellent flexibility and dexterity
- Good resistance to alcohols, reducing acids and diluted bases.



Neoprene (C)

Polychloroprene glove

- Good mechanical properties.
- Good general resistance to chemical products.
- Very good resistance to sterilisation agents (hydrogen peroxide) and radiation sterilisation (Gamma and Beta rays).
- Good technical and cost-effective compromise
- Self- extinguishing.

DRY GLOVES

for the Semiconductor and Electronic manufacturing.



POLYURETHANE (PUR)

Polyurethane glove

- Excellent mechanical properties (punctures, tears, abrasion)
- Highly resistant to ozone and UV rays



POLYURETHANE / CSM (PUR/Y)

Two layer polyurethane and chlorosulfonated polyethylene glove.

- A glove that combines mechanical properties (polyurethane) with chemical resistance (CSM)
- Good resistance to chemical sterilising agents (CSM side)
- High resistance to ozone and UV. Good resistance to ionising radiation.
- Excellent resistance to disinfectants.



High Butyl Properties (BHP)

Polyisoprene isobutylene glove.

- Electrostatic dissipative glove in accordance with EN 16350.
- Highly impermeable to liquids and gases
- Good ability to withstand chemical products
- Highly resistant to ozone and UV rays
- Good flexibility and dexterity
- Antistatic (compliant with European standard EN 16350-2014)



Neoprene Gloves



CSM Gloves



Natural Rubber Gloves

Instrument Testing

for the Semiconductor and Electronic manufacturing.

ผลิตภัณฑ์

PRODUCTS

Hanna



Benchtop Meters

Benchtop Meters

Benchtop meter is an electronic instrument used to measure the acidity and alkalinity of liquid or semi-solid samples across many industries with applications in water, drinking water, food and beverage testing.

ผลิตภัณฑ์รายละเอียด



Portable Meters

Portable Meters

Portable multiparameter meters, pH, DO, ORP, TDS, Temp, Conduct, Turbidity meter boast an excellent value due to their comprehensive range of features and affordability.

ผลิตภัณฑ์รายละเอียด



Photometers

Photometers

Photometer for use in the environmental lab or in the field. The meter is one of the most advanced photometers available with a innovative optical design.

ผลิตภัณฑ์รายละเอียด



Colorimeters

Colorimeters

Colorimetry is simply the measurement of color. *colorimetry* is the determination of the concentration of a substance by measurement of the relative absorption of light with respect to a known concentration of the substance

ผลิตภัณฑ์รายละเอียด

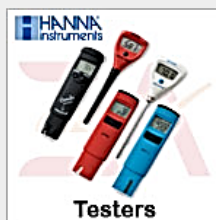


Digital Refractometer

Digital Refractometer

Digital refractometer utilizes the measurement of refractive index to determine the percent volume and freezing points of based solution.

ผลิตภัณฑ์รายละเอียด



Testers

Testers

pH and conductivity testers that fit in your pocket. Take accurate and reliable measurements with our portable testers that go where you go.

ผลิตภัณฑ์รายละเอียด



Test Kit

Test Kit

Hanna test kits are a simple way to perform an accurate chemical analysis. The wide variety of single parameter test kits presents in this section includes colorimetric, Chesker disc, titration and turbidimetric methods.

ผลิตภัณฑ์รายละเอียด



Magnetic Mini-Stirrers

Magnetic Mini-Stirrers

Common *stirrers* are manufactured with steel and aluminum components. These units are often too large and heavy to fit in the limited space of a laboratory. Hanna HI180 and HI181 series are compact, light weight and inexpensive.

ผลิตภัณฑ์รายละเอียด

Test Kit



HI3810 Dissolved Oxygen Chemical Test Kit

range 0.0 to 10.0 mg/L O₂

resolution 0.1 mg/L

Method modified Winkler



HI3811 Alkalinity Chemical Test Kit

range 0 to 100 mg/L CaCO₃

resolution 1 mg/L

Method acid titration



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Instrument Testing

for the Semiconductor and Electronic manufacturing.

เครื่องมือวิเคราะห์



Autotitrator

The 916 Ti-Touch is the new compact titrator for potentiometric titration. The instrument supports the following titration modes: DET (dynamic equivalence point titration),

คลิกดูรายละเอียด



Karl Fischer

Everything you need for Routine Volumetric Karl Fischer Titration from 100 ppm up to 100% water is included. Measure sample after sample with the standard method or one of five user methods.

คลิกดูรายละเอียด



Kjeldahl (TKN)

VELP digestion/mineralization systems are developed for different applications, from the determination of nitrogen and protein according to the Kjeldahl method (TKN) ...

คลิกดูรายละเอียด



Colorimeter

The lightweight AQUAfast II colorimeters have an easy to use three button interface that ensures error free measurements. Designed for single parameter methods in the field or the lab.

คลิกดูรายละเอียด



Conductometer

Conductivity Benchtop Meters combine simplicity with accuracy. A large LCD displays conductivity or TDS readings along with temperature.

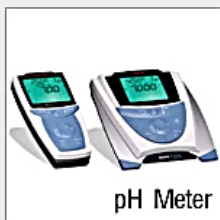
คลิกดูรายละเอียด



Karl Fischer

Everything you need for Routine Volumetric Karl Fischer Titration from 100 ppm up to 100% water is included. Measure sample after sample with the standard method or one of five user methods.

คลิกดูรายละเอียด



pH Meter

pH, mV and temperature measurements in a waterproof hand-held or splashproof benchtop meter

คลิกดูรายละเอียด



Polarimeter

The ADP410 is a dual scale, fully automatic polarimeter designed for use in many applications that require measurement of optical rotation.

คลิกดูรายละเอียด



Refractometer

RFM300+ refractometers encompass attributes of their predecessors and also offer a wider refractive index range and Peltier temperature control.

คลิกดูรายละเอียด



Balance

Our Super Hybrid Sensor (SHS)*, which combines the best of magnetic force restoration and single point parallelogram load sensing technologies, offers you the ultimate in response speed...

คลิกดูรายละเอียด



HI-5421 Research Grade DO/BOD Bench Meter

range	0.00 to 90.00 ppm; 0.0 to 600.0% saturation -20.0 to 120 °C
resolution	0.01 ppm; 0.1% saturation 0.1 °C
Accuracy	±1.5% of reading

คลิกดูรายละเอียด



HI-5521 Research Grade pH/ORP/EC/TDS/Resistivity/Salinity Bench Meter

range	-2.0 to 20.0 pH; -2.000 to 20.000 pH ±2000 mV
resolution	0.1 pH / 0.001 pH 0.1 mV
Accuracy	±0.1 pH / ±0.002 pH

คลิกดูรายละเอียด

Equipment and Glass Ware

for the Semiconductor and Electronic manufacturing.

อุปกรณ์พื้นฐานห้องปฏิบัติการ



Amber Glass Bottle

Amber bottles prevent from UV lights to penetrate inside the bottle. Inscriptions are in white enamel which is specially designed for glass.

คลิกดูรายละเอียด



Wide-Mouth Bottles

HDPE Large Wide-Mouth Bottles are specifically designed for applications where large volumes require autoclaving – large cap makes it easy to access contents

คลิกดูรายละเอียด

ขวดสีชาพร้อมฝาเกลียว
(Amber Bottle with Caps)



VIALS & CAPS & SEPTAS

Manufactured from high quality polypropylene to exact manufacturing tolerances and lined in a controlled manufacturing environment, tested by head space GC .

คลิกดูรายละเอียด



Nalgene Lab Quality Narrow-Mouth Bottles

Nalgene™ Lab Quality Bottles are specifically designed for demanding lab use. high-density polyethylene, polypropylene screw closure

คลิกดูรายละเอียด



Amber Glass Wide-Mouth Bottle

Amber bottles prevent from UV lights to penetrate inside the bottle. Inscriptions are in white enamel which is specially designed for glass.

คลิกดูรายละเอียด



Nalgene Lab Quality Narrow-Mouth Bottles

Nalgene™ Lab Quality Bottles are specifically designed for demanding lab use. polypropylene screw closure

คลิกดูรายละเอียด

ขวดใสสำหรับหลอดติก
(Laboratory Bottle, PP)



DIGITAL BURETTES "digitrate"

Combines high precision with consistent delivery. Reliable measuring results with bubble-free dispensing.

คลิกดูรายละเอียด

เครื่องดูดจ่ายสารละลายอัตโนมัติ
(Digital Burette)



DISPENSER "repetitive"

Repetitive dispenser is an ergonomic hand dispenser for quick and simple repetitive dispensing of liquids.

คลิกดูรายละเอียด

เครื่องดูดจ่ายสารละลาย
(Repetitive Dispenser)



BURETTE "digital" "motor driven"

The most advanced digital burette featured with motor controlled piston movement. Conforms ISO 8655. Dispensing can be performed by a touch at the screen and stops immediately when the touch is removed.

คลิกดูรายละเอียด

เครื่องดูดจ่ายสารละลายอัตโนมัติ
(Digital Burette)



DISPENSER "repetitive"

Repetitive dispenser is an ergonomic hand dispenser for quick and simple repetitive dispensing of liquids.

คลิกดูรายละเอียด

ทิปส์ สำหรับเครื่องดูดจ่ายสารละลาย
(Tips for Repetitive Dispenser)



DIGITAL BURETTES "digitrate"

Brand Combines high precision with consistent delivery. Reliable measuring results with bubble-free dispensing.

คลิกดูรายละเอียด



MICROPIPETTES "adjustable volume"

ISOLAB -9 models cover volume range from 0,25 µl to 10 ml and combines all the requirements of a modern pipette.

คลิกดูรายละเอียด

ไมโครปิเปตต์
(Micropipettes)

Equipment and Glass Ware

for the Semiconductor and Electronic manufacturing.



LABORATORY BRUSH/แปรงล้างหลอดทดลอง

Brush handle is manufactured from polypropylene and offers extreme easy handling and use of the brush.

คลิกดูรายละเอียด



PIPETTE FILLER

Very easy to use: Before attaching the pipette first squeeze the bulb and release the air inside. Then attach the pipette.

คลิกดูรายละเอียด



Syringe filters Wathman

Syringe filters are specially designed for HPLC sample operations. High flow rate and filtration in both directions, so the liquid can not go over the filter membrane.

คลิกดูรายละเอียด



PIPETTE FILLER

Very easy to use: Before attaching the pipette first squeeze the bulb and release the air inside. Then attach the pipette.

คลิกดูรายละเอียด



Syringe filters

Syringe filters are specially designed for HPLC sample operations. High flow rate and filtration in both directions, so the liquid can not go over the filter membrane.

คลิกดูรายละเอียด



Tubings /ท่อซิลิโคน,ท่อสายยาง,ท่อ PTFE,ท่อ PVC

Rubber with durometer 45 A with temperature stability -25°C to +70°C. Silicone with durometer 60A with temperature stability -60°C to +170°C., PTFE with excellent chemical resistivity with temperature stability -200°C to +260°C.



FUNNELS / Separating Funnel

Manufactured from borosilicate glass 3.3. Graduations are in white enamel. Supplied with P.P stoppers.

คลิกดูรายละเอียด



Test Tube Racks / หลอดทดลอง

CENTRIFUGE TUBES - "glass" manufactured from neutral tubes with a wall thickness between 1,0 - 1,1 mm.

คลิกดูรายละเอียด



Condensers

Manufactured from borosilicate glass 3.3 which is resistant to heat and almost all chemicals.

คลิกดูรายละเอียด



TRIPOD "fix height"

The circular ring has a fixed diameter of 125 mm that can hold wire gauzes and ceramic triangles of all common dimensions.

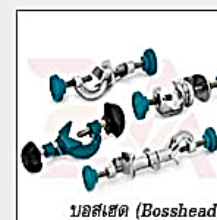
คลิกดูรายละเอียด



Vacuum Filtratin Unit / ชุดกรองสุญญากาศ

Filtration unit consists of: filter funnel of 300 ml capacity, support base with sintered disc, vacuum connection and metal clip, vacuum flask of 1000 ml.

คลิกดูรายละเอียด



Clamps / Bossheads

Two separately adjustable clamps enables perfect control of holding pressure and precise positioning of the objects.

คลิกดูรายละเอียด