



# Application Glove Box

## for Food and Soft Drink

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. Gas port needle valve 2 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, Foods and Soft Drink.
- Weighing samples of moisture sensitive powders.
- Experiments that require low-humidity conditions.
- Operation of various instruments requiring environmental control, such as Automatic titration, Volumetric Karl Fischer Titration, Culometric Karl Fischer Titration.
- Anaerobic Test Glove Box.
- Negative or positive pressure glove box.
- Vacuum Glove box.
- Biosafety Glove Box.
- Benchtop Glove Box for control Environment Equipment Enclosure.
- Gas control system nitrogen purge for low-humidity.
- Temperature and Dehumidity 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  
Fax. +66 2045 2608,

Email: Contact@3ainstrument.com, Sales@3ainstrument.com,  
WWW.3AINSTRUMENT.COM



# BENCHTOP GLOVE BOX

for control environment with close system.

MODEL

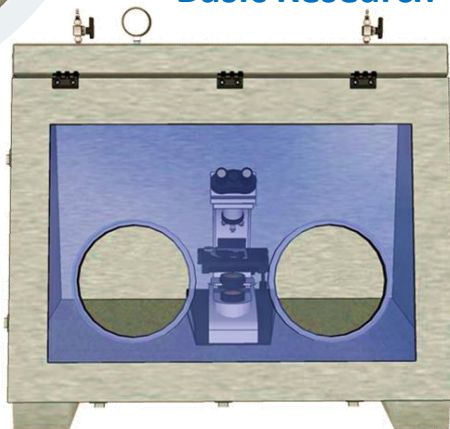
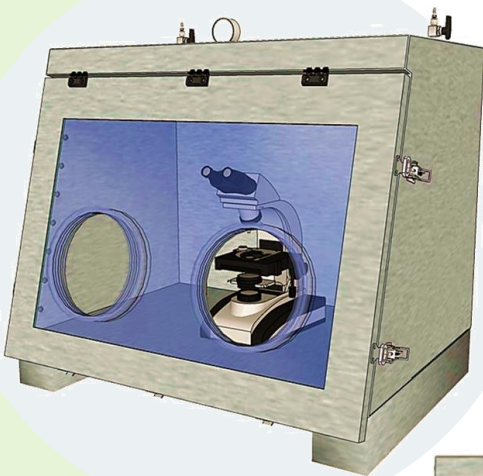
## SUS80-xx

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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[WWW.3AINSTRUMENT.COM](http://WWW.3AINSTRUMENT.COM)





# 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

- Anaerobic Test Glove Box.
- Negative or positive pressure glove box.
- Vacuum Glove box.
- Biosafety Glove Box.
- Benchtop Glove Box for control Environment Equipment Enclosure.
- Gas control system nitrogen purge for low –humidity.
- Temperature and Dehumidity control with PLC Controller.
- Basic Research Glove Box.



MODEL

## BIO TESTING

Biopharma tability testing closed system chamber.

- Material polycarbonate thickness 6 mm. and clear acrylic thickness 10 mm.
- Size for glove box W550 x H650 mm.
- Two glove port diameter 200 mm.
- Carbon filter / Hepa filter and blower (OPTION)

### Application

- Close system testing for Laboratories of Biological, Chemical, Foods and Soft Drink.
- Weighing samples of moisture sensitive powders.
- Experiments that require low-humidity conditions.



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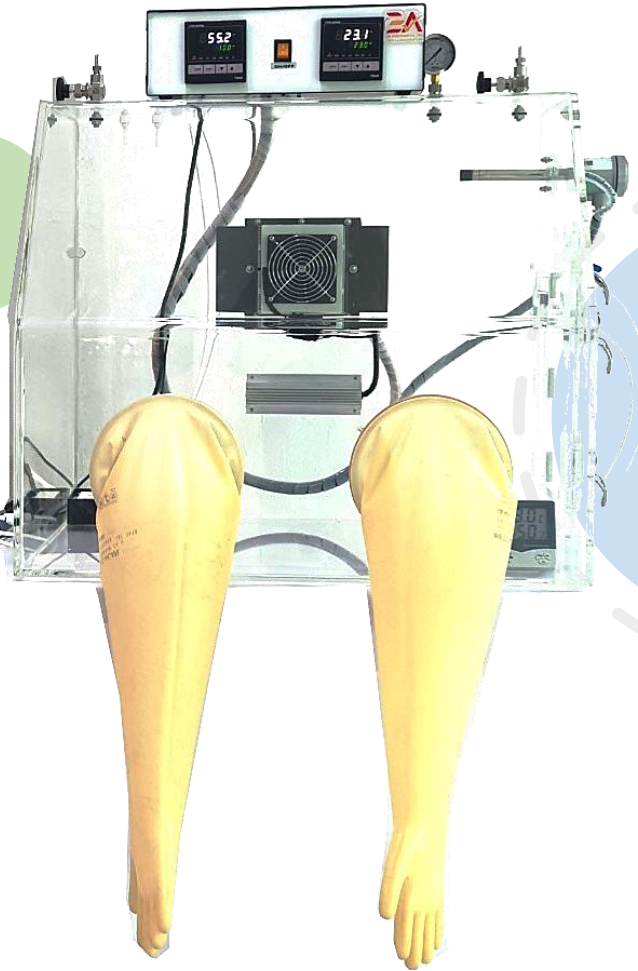
# BENCHTOP GLOVE BOX

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

## G80B-00

Acrylic glove box chamber Tilt-up front door

- Acrylic materials thickness 10 mm.
- Size for glove box 80x70x65 cm.
- Two glove port diameter 200 mm.

### Application

- Close system testing for Laboratories of Biological, Chemical, Foods and Soft Drink.
- Weighing samples of moisture sensitive powders.
- Experiments that require low-humidity conditions.
- Operation of various instruments requiring environmental control, **such as Automatic titration, Volumetric Karl Fischer Titration, Culometric Karl Fischer Titration.**



MODEL

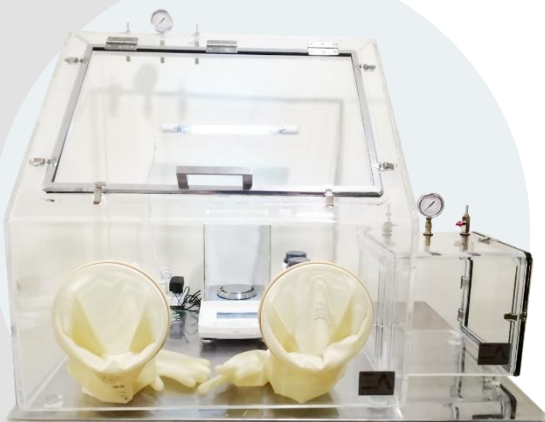
## G100B-11

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

- Weighing samples of moisture sensitive powders.
- **Experiments that require low-humidity conditions.**
- Anaerobic Test Glove Box.
- Negative or positive pressure glove box.
- Vacuum Glove box. - Biosafety Glove Box.
- **Benchtop Glove Box for control Environment Equipment Enclosure.**
- **Gas control system nitrogen purge for low -humidity.**
- Temperature and Dehumidity control with PLC Controller.
- Basic Research Glove Box.



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# BENCHTOP GLOVE BOX

for control environment with close system.

MODEL

## Cabinet-B60

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, Foods and Soft Drink.
- Weighing samples of moisture sensitive powders.
- Experiments that require low-humidity conditions.
- Operation of various instruments requiring environmental control, such as **Automatic titration, Volumetric Karl Fischer Titration, Culometric Karl Fischer Titration.**

MODEL

## PCR Cabinet

PCR cabinet work station.

- Acrylic materials thickness 10 mm.
- Size for chamber 64x58x65 cm.
- stainless steel 304 Work area size 64x58 cm.
- Lighting lamp 15W or UV lamp 15W
- **Tilt-up front door 2 Stapes.**

### Application

- Close system testing for Laboratories of Biological, Chemical, Foods and Soft Drink.
- Weighing samples of moisture sensitive powders.
- Experiments that require low-humidity conditions.
- **Benchtop Glove Box for control Environment Equipment Enclosure.**





# BENCHTOP GLOVE BOX

for control environment with close system.

MODEL

## Mini Glove Box

Mini Glove box for **Easy sample preparation.**

- **Light weight**
- Material **white Plastic PE (Polyethylene)**
- Size dimension W340 x D440 x H310 mm.
- Door open: Clear Acrylic, Thickness 8 mm.
- port Inner Ø ID. 100 mm.

### Application

- Prevents the spread of powder.
- **Easy sample Chemical preparation.**

MODEL

## PVC Isolators

PVC cabinet work station.

They are available with or without structures and accessories.

**1. Flexible Isolators:** it is a working enclosure with flexible and transparent walls, which offers a panoramic view of the working area. Ideal when protection against materials, sensitizers or chemical compounds is required, it provides respiratory and skin protection.

**2. Intervention Glove box:** it is a multifunctional flexible wall insulator made of high quality engineered plastic films. Assembled in a few minutes, it can be used anywhere. Transportable and lightweight, it can meet many needs in the laboratory or on site, in the nuclear or medical fields.



**1. Flexible Isolators**



**2. Intervention Glove box.**

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# DRY BOX GLOVES

for the Foods and Soft drink 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 BOX GLOVES

for the Foods and Soft drink 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 Foods and Soft drink manufacturing.

## ผลิตภัณฑ์

PRODUCTS

Hanna



### 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.

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### 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.

คลิกดูรายละเอียด



### 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.

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### 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

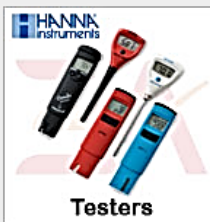
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### Digital Refractometer

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

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### Testers

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

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### 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, checker disc, titration and turbidimetric methods.

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### 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.

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## Test Kit



### HI3810 Dissolved Oxygen Chemical Test Kit

range 0.0 to 10.0 mg/L O<sub>2</sub>

resolution 0.1 mg/L

Method modified Winkler



### HI3811 Alkalinity Chemical Test Kit

range 0 to 100 mg/L CaCO<sub>3</sub>

resolution 1 mg/L

Method acid titration



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# Instrument Testing

for the Foods and Soft drink 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),

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### 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.

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### Kjeldahl (TKN)

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

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### 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.

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### Conductometer

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

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### 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.

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### pH Meter

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

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### Polarimeter

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

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### Refractometer

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

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### 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...

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### 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

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### 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

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# Equipment and Glass Ware

for the Foods and Soft drink 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.

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### 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



### DISPENSER "repetitive"

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

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



### DISPENSER "repetitive"

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

ทิวป์ สำหรับเครื่องดูดจ่ายสารละลาย  
(Tips for Repetitive Dispenser)

คลิกดูรายละเอียด



### 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.

ไมโครปิเปตต์  
(Micropipettes)

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# Equipment and Glass Ware

for the Foods and Soft drink 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.

สายยางเทฟลอน (Turings, PTFE)



## FUNNELS / Separating Funnel

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

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## Test Tube Racks / หลอดทดลอง

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

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## Condensers

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

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## 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.

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## 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.

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## Clamps / Bossheads

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

คลิกดูรายละเอียด