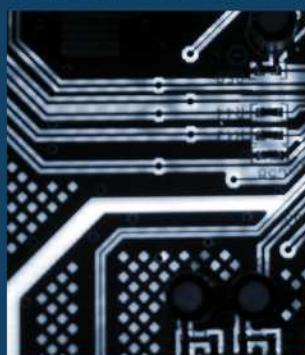




We aim to stand ourselves up as a global Glovebox manufacture by developing our own state-of-the-art technology.

Glovebox System



Enclosure System

About KOREA KIYON

KOREA KIYON has an over 22 years of proven record in design and manufacturing one of most advanced gloveboxes for research and mass production customers worldwide. To do this, KOREA KIYON is making its constant and relentless efforts to develop the best quality glovebox system components like purification system, solvent trap, sensors, and vacuum chambers.

KOREA KIYON is supplying its own branded gloveboxes to global customers. It is not only supply its gloveboxes R&D centers, universities and mass production customers like Samsung, LGE but also has very strong customer bases in overseas including many renowned Japanese' universities and OLED, Solar and Chemical R&D centers, and industrial manufacturing companies. We are differentiating ourselves by manufacturing customized gloveboxes for various applications like Chemical, Display, Battery, Lightening devices, Medical, Optics, Nuclear and many more.

KOREA KIYON sets rigorous quality standards to facilitate customers' various usages and is doing the best to provide each customer the most customized gloveboxes.



KK-011AS

- 1 Person (2 Glove ports) Glovebox
- Less than 1PPM of Oxygen and Moisture concentration level inside
- The box module
- 1,200(W) X 760(D) x 890(H)mm
- Stainless steel design with polycarbonate window
- Modular box design
- Large antechamber (380 diag. x 500mm) with sliding tray / Mini-Antechamber (150 diag. x 290mm)
- Embedded inert gas purification system
- Vacuum pump
- High efficiency box filters
- Casters and leveling feet



Model	KK - 011 AS (2 Port)
<i>Size</i>	1,200(W) X 760(D) X 890(H) mm
<i>Material</i>	SUS 304
<i>Windows</i>	Poly-Carbonate PC or Safety Glass
<i>Glove</i>	Butyl Rubber 1 Pair
<i>External Light</i>	1
<i>Service Port</i>	KF(NW40): 2ea
<i>Leak Test</i>	0.05 vol%/hr According to ISO 10648-2
Ante-Chamber	
<i>Size</i>	380 X 500mm
<i>Vacuum Capacity</i>	1×10^{-3} torr
<i>Tray</i>	200 x 500mm
Mini-Chamber	
<i>Size</i>	150 x 290 mm
Purifier System	
<i>Purifier Level</i>	Less than 1 ppm O ₂ and H ₂ O
<i>Catalyst</i>	Oxygen Catalyst and Molecular Sieve
<i>PLC</i>	Automatic PLC control
<i>Control Panel</i>	7" Full Color Touch Screen
<i>Purifier Regeneration</i>	Auto Regeneration Programmed on PLC
<i>Blower Speed Control</i>	Max.63 CFM (1.78m ³ /min)
<i>Vacuum Pump</i>	200L/min
Stand	
<i>Size</i>	1,200(W) X 760 (D) X 930(H) mm

KK-011AS-EXTRA

- 1.5 Person (3 Glove ports) Glovebox:
- Less than 1PPM of Oxygen and Moisture concentration level inside
- The box module
- 1,800(W) X 760(D) x 890(H)mm
- Stainless steel design with polycarbonate window
- Modular box design
- Large antechamber (380 diag. x 500mm) with sliding tray
Mini- antechamber (150 diag. x 290mm)
- Embedded inert gas purification system
- Vacuum pump
- High efficiency box filters
- Casters and leveling feet



Model	KK - 011AS - Extra (3 Port)
<i>Size</i>	1,800(W) x 760(D) x 890(H)mm
<i>Material</i>	SUS 304
<i>Windows</i>	Poly-Carbonate PC or Safety Glass
<i>Glove</i>	Butyl Rubber 1.5 Pair
<i>External Light</i>	1
<i>Service Port</i>	KF(NW40): 2ea
<i>Leak Test</i>	0.05 vol%/hr According to ISO 10648-2
Ante-Chamber	
<i>Size</i>	380 X 500mm
<i>Vacuum Capacity</i>	1×10^{-3} torr
<i>Tray</i>	200 x 500mm
Mini-Chamber	
<i>Size</i>	150 x 290 mm
Purifier System	
<i>Purifier Level</i>	Less than 1 ppm O ₂ and H ₂ O
<i>Catalyst</i>	Oxygen Catalyst and Molecular Sieve
<i>PLC</i>	Automatic PLC control
<i>Control Panel</i>	7" Full Color Touch Screen
<i>Purifier Regeneration</i>	Auto Regeneration Programmed on PLC
<i>Blower Speed Control</i>	Max.63 CFM (1.78m ³ /min)
<i>Vacuum Pump</i>	200L/min
Stand	
<i>Size</i>	1,800(W) x 760(D) x 930(H)mm

KK-021AS

- 2 Person (4 Glove ports) Glovebox:
- Less than 1PPM of Oxygen and Moisture concentration level inside
- The box module
- 2,200(W) X 760(D) x 890(H)mm
- Stainless steel design with polycarbonate window
- Modular box design
- Large antechamber (380 diag. x 500mm) with sliding tray
Mini-antechamber (150 diag. x 290mm)
- Embedded inert gas purification system
- Vacuum pump
- High efficiency box filters
- Casters and leveling feet



Model	KK - 021AS (4 Port)
<i>Size</i>	2,200(W) x 760(D) x 890(H)mm
<i>Material</i>	SUS 304
<i>Windows</i>	Poly-Carbonate PC or Safety Glass
<i>Glove</i>	Butyl Rubber 2 Pair
<i>External Light</i>	2
<i>Service Port</i>	KF(NW40): 2ea
<i>Leak Test</i>	0.05 vol%/hr According to ISO 10648-2
Ante-Chamber	
<i>Size</i>	380 X 500mm
<i>Vacuum Capacity</i>	1×10^{-3} torr
<i>Tray</i>	200 x 500mm
Mini-Chamber	
<i>Size</i>	150 x 290 mm
Purifier System	
<i>Purifier Level</i>	Less than 1 ppm O ₂ and H ₂ O
<i>Catalyst</i>	Oxygen Catalyst and Molecular Sieve
<i>PLC</i>	Automatic PLC control
<i>Control Panel</i>	7" Full Color Touch Screen
<i>Purifier Regeneration</i>	Auto Regeneration Programmed on PLC
<i>Blower Speed Control</i>	Max.63 CFM (1.78m ³ /min)
<i>Vacuum Pump</i>	200L/min
Stand	
<i>Size</i>	2,200(W) x 760(D) x 930(H)mm

KK-011AD

- 2 Person (4 Glove ports) Glovebox
- Less than 1PPM of Oxygen and Moisture concentration level inside
- The box module
- 1,200(W) * 1,100(D) * 890(H) mm
- Stainless steel design with polycarbonate window
- Modular box design
- Embedded inert gas purification system
- Vacuum pump
- High efficiency box filters
- Casters and leveling feet



Model	KK-011AD (4 Port)
<i>Size</i>	1,200(W) x 1,100(D) x 890(H)mm
<i>Material</i>	SUS 304
<i>Windows</i>	Poly-Carbonate PC or Safety Glass
<i>Glove</i>	Butyl Rubber 2 Pair
<i>External Light</i>	2
<i>Service Port</i>	KF(NW40): 2ea
<i>Leak Test</i>	0.05 vol%/hr According to ISO 10648-2
Ante-Chamber	
<i>Size</i>	380 X 500mm
<i>Vacuum Capacity</i>	1×10^{-3} torr
<i>Tray</i>	200 x 500mm
Mini-Chamber	
<i>Size</i>	150 x 290 mm
Purifier System	
<i>Purifier Level</i>	Less than 1 ppm O ₂ and H ₂ O
<i>Catalyst</i>	Oxygen Catalyst and Molecular Sieve
<i>PLC</i>	Automatic PLC control
<i>Control Panel</i>	7" Full Color Touch Screen
<i>Purifier Regeneration</i>	Auto Regeneration Programmed on PLC
<i>Blower Speed Control</i>	Max.63 CFM (1.78m ³ /min)
<i>Vacuum Pump</i>	200L/min
Stand	
<i>Size</i>	1,200(W) x 1,100(D) x 930(H)mm

KK-ISO

ISOLATOR SYSTEM



Model	KK-ISO (4Port)
Size	2,000(W) x 720(D) x 840(H)mm
Material	SUS 316L
Windows	Safety Glass
Glove	Hypalon glove 2 Pairs
External Light	2
Leak Test	<0.1 Vol%/hr

Pass box

Size	500 X 300 X 430(H)mm
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Feature

ULPA Filters with a typical efficiency of >99.999@at ISO class 5

10.2" Full Color Touch Screen

Stand

Size	2,000(W) x 725(D) x 900(H)mm
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Optional Parts for KOREA KIYON Glovebox System

- Moisture Sensor



- Accuracy : +/- 2 °C
- Measurement range : 0 ~ 1,000ppm
- Out Put : 4-20mA DC Active
- Sensor : Thin-film capacitive polymer sensor
- Response time 63% [90%] at a gas temperature of +20 °C and pressure of 1 bar
- Complies with EMC standard EN61326-1, Electrical equipment for measurement control and laboratory use

- Oxygen Sensor



- Measurement system: Zirconia Oxygen concentration cell
- Measurement range: 0.001ppm – 100%
- Display range: 0-1,000ppm
- Repeatability: ±0.5%FS or less 0-1% range or more
±1.0%FS or ±0.1ppm whichever is bigger or less than 0-1% range
- Compliant standard: CE marking and RoHS

- Solvent Scrubber / Trap



- For solvent removal from inert gas atmosphere.
- Specially designed plumbing & Chemical filter
- Pneumatic isolation valves and bypass valve

- Freezer



- To -35 °C . Mounted to Glove Box on either side panel
- Separate condensing unit installed on a stand.

- Vacuum Oven



- Mounting inside the antechamber
- Operational temperature: up to 200 °C
- Inner diameter: 300mm
- Available sample size: 150(D) x 180(H) x 450(L)mm

- Laminar Flow system



- Exhaust Gas Filtration System with HEPA Filter
- Class 10 or better
- Down flow Gas control
- If necessary, Temperature control.

- New Automatic Pressure Controller

- Safe and Eco friendly Pressure release System
- For more details, please contact KOREA KIYON

- N2 Safety Interlock and N2 Hazard System

- Safety system to prevent people from inert gas leakage of Glove Box and to protect Glove Box from its upper limit of +12.5mbar inside a box.
- For more details, please contact KOREA KIYON

- ECO Mode

- Energy Saving and Noise control System
- For more details, please contact KOREA KIYON

- Cold Well

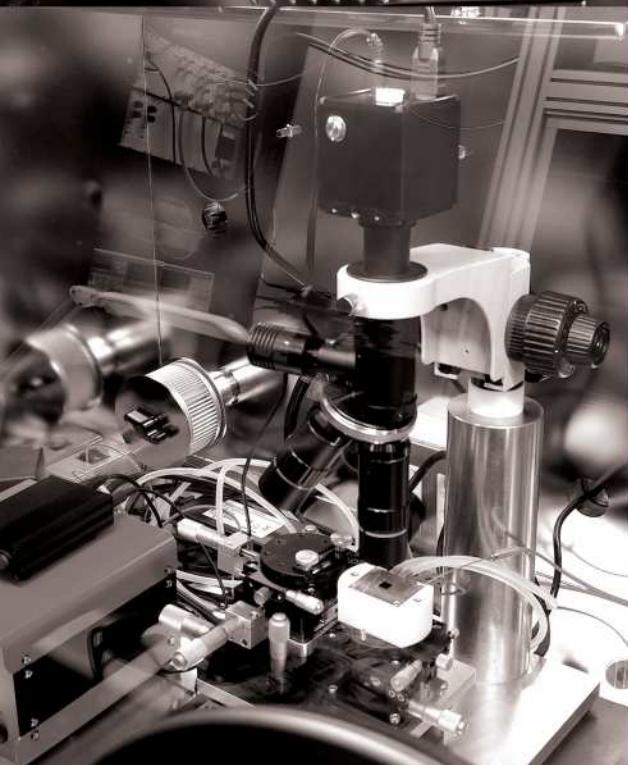
- Customized size stainless steel low temperature well

- Feedthroughs

- Various types of feedthroughs on request.



Glovebox Models for various Applications



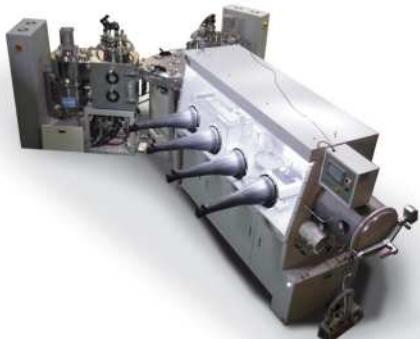
Glove Box for Nuclear



Glove Box for Solar and Perovskite Study



**Battery Development /
Coating System**



Glove Box for OLED

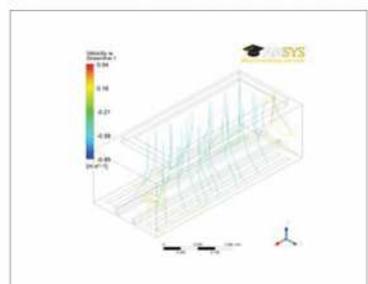
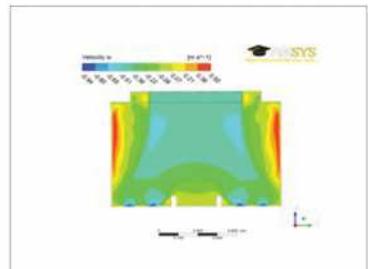
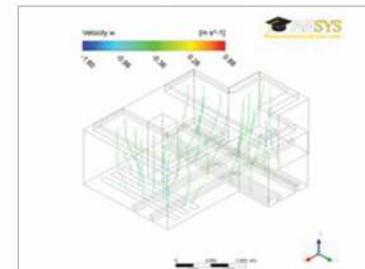
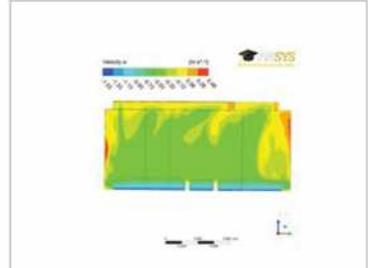
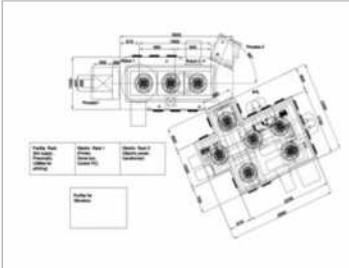
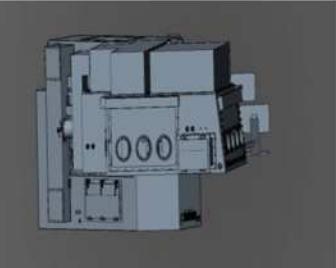


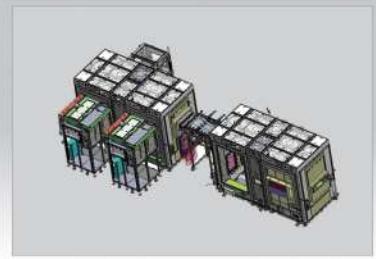
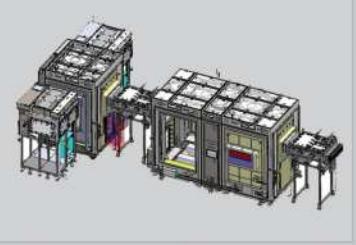
Glove Box for Film Production



KOREA KIYON Enclosure System

KOREA KIYON has proven records to supply its Enclosure System with separate Purification Systems to leading OLED Glass manufacturers.





KOREA KIYON Purification System



Purification System

- Oxygen/Moisture Removal to less than 1 ppm
- Control: PLC Type (Heat, Vacuum, Purge, Refill)
- 1 set of vacuum pump and Circulation Blower
- PLC controlled Purification Automatic Regeneration Process
- Data logging and integrated operation with Enclosures



OLED Lighting Development

KOREA KIYON Solvent Purification System

● KK-SPS-3



✓ FEATURES

- The best alternative to thermal distillation method
- Removes moisture in organic solvents.
- KIYON-SPS's allows for quick and easy delivery of high purity anhydrous solvents.
- Color coded quick connector valves and solvent valve
- Stainless steel gas, vacuum and dispense manifold using Swagelok type valves and component
- All stainless steel braided flex lines and tubing
- Replace used column with new one readily.

✓ Specification

Dimension	770mm(W) x 680mm(D) x 1980mm(H) (Standard)
Column Type	Dual column per solvent (1set)
Column Size	3.25L
Capacity per Set	Up to 800 liter(ACS grade or better solvent @ 200-ppm)
Reservoir	10L or 18L, Stainless steel, Pressure release valve, Fill port (Optional)
Receiving Flask	250ml, 2 or 3way, 24/40 universal inlet adapter
Vacuum Pump	High chemical resistant, -750mmhg(max)

● KK-SPS-COMPACT



✓ FEATURES

- Compact modular design
- Easily fit on a bench top
- Easily to operate
- Expandable from 1 to 8 solvents
- Stainless steel gas, vacuum and dispense manifold using Swagelok type valves and component
- Replace used column with new one readily.
- 300 liters drying capacity (ACS or better grade)

✓ Specification

Dimension	270mm(W) x 300mm(D) x 600mm(H) (Standard)
Column Type	Dual column per solvent (1set)
Column Size	1.65L
Capacity per Set	Up to 300 liter(ACS grade or better solvent @ 200-ppm)
Reservoir	Not included
Receiving Flask	250ml, 2 or 3way, 24/40 universal inlet adapter
Vacuum Pump	High chemical resistant, -750mmhg(max)



KOREA KIYON

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