

ZEOFILTECH

LABORATORY SAFETY SYSTEM



Eco-friendly company

With trusted products and recognized technology, we will always be impressed with our customers.

On May 3, 2005, Zeofiltech Co.,LTD started business with researchers who had experienced various product developments in the ceramic field for more than 15 years.

We are Eco-friendly company that develop the filters for the removal of harmful gas and odor, and develop the system to maintain and manage the safety and pleasant air quality at industrial sites and laboratories.

Environment company, ZEOFILTECH

Zeofiltech produces the R&D equipment with world-leading technology

2006

- Establish the factory
- Venture Business Certification
- Develop the Welding fume, Dust collector for harmful gas removal
- Develop the harmful material safety device
- Register the clean business company
- Get the credit for the clean business company
- Success the Ministry of Commerce Industry and Energy New Technology Incubator

2012

- Participate the ASSE 2012
- Register the direct manufacturing
- Register the procurement of all products

2007

- Dust collector for dust and oil removal bag filter, A/C tower, fraction removal
- Dust collector for dust removal (Cartridge type)
- Register the patent-pending of harmful material safety device
- Register the patent-pending of harmful gas removal for experiment equipment
- Development of harmful gas safety eliminator

2013

- Participate the ASSE 2013
- Register the patent-pending of fume hood and polluted material removal

2008

- Established the R&D center
- QMS (Quality Management System) Certification
- Participate the ASSE 2008
- Participate the CC Plaza 2008
- Develop the Carbon nanoball

2014

- Participate the ASSE 2014
- Register the patent-pending of CUBE

2009

- Develop the refrigeration type harmful material safety device
- Participate the ASSE 2009
- Participate the CC Plaza 2009

2015

- Participate the ASSE 2015
- Register the patent-pending of smart reagent chamber
- Develop the application for smart phone and tablet (Android)

2010

- CE Certification
- Develop the refrigeration type reagent chamber using the Peltier Module
- Develop the no filter harmful gas removal and register the patent-pending
- Develop the no filter reagent chamber and register the patent-pending

2016

- Participate the ASSE 2016
- Develop the ZEO-SF152

2011

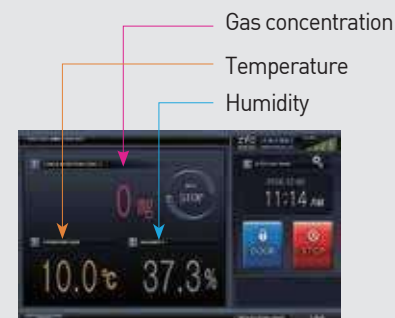
- OEM production contracts with FURSIS company
- Register the patent-pending of Constant temperature reagent chamber

2017

- Develop the equipment of removal for harmful pollutant (Strong acid)
- Develop the equipment of removal for harmful pollutant (Separation type)
- Develop the reagent chamber (Strong acid, Strong base)

Enclosed reagent chamber(ion-cluster)

Patent pending number 10-0961693

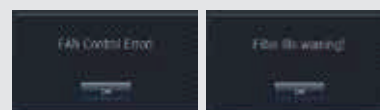


1. Data logger function

Download operating data using USB.
Download to JPG, Excel File



2. ion-cluster check display function (Graph)



3. ion-cluster display function (Warning message)

4. Harmful gas circulation malfunction display function

Color option



Enclosed reagent chamber (ion-cluster)

- It developed using ion clusters to remove harmful gas and odor (No required filter)
- To convenient storage of reagents, slide type adjustable shelves was applied.
- It is enclosed, self-circulated type design to prevent leaking air into the room.

Specifications

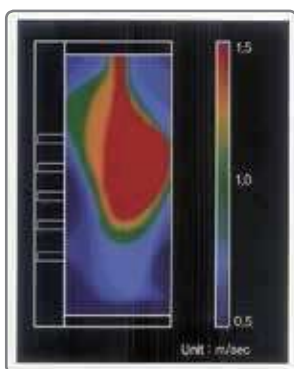
Standard/Model	ZEO-SN100(SN142)	ZEO-SN200(SN143)
External Dimension(W×D×H)(mm)	970 X 550 X 1,800	1,650 X 550 X 1,800
Interior Dimension(W×D×H)(mm)	600 X 450 X 1,590 / 430 L	1,200 X 450 X 1,590 / 860 L
Max. load per shelf 30 kg	30 kg	
Noise Level Below 55 dB	Below 55 dB	
Controller	7inch color touch screen (Display the temperature, humidity, VOCs concentration)	
Shelves	5 slide	10 slide
Unit Weight	165 kg	300 kg
Power Consumption	45 W	75 W
Lock System	Electro magnetic lock	
Power	220 V / 60 Hz	

※ Specification may change without notice to improve performance.

Feature

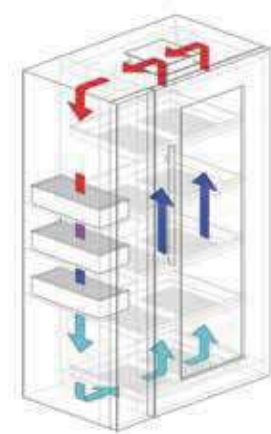
It is enclosed, self-circulated type that no leaking air into the room.

It resolve the supersaturation of filter as polluted air and the causes of pollution in the filter, no loss of heating, cooling energy.



It is designed differential pressure to prevent overflow of air inside the reagent chamber.

- It is designed low pressure of -0.3pha inside the reagent chamber, polluted air is not discharge to the outside.
- Fluid velocity at the foot of reagent chamber is designed 0.53 m/s , no reverse flow of harmful gas or odor.

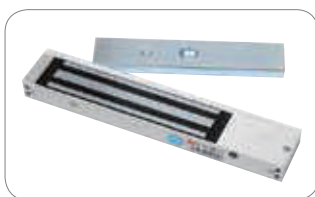


Detail



▶ ion-cluster

It remove the germs, Mold, odor, and disassemble harmful chemicals, no required filter exchange permanently.



▶ Magnetic lock

Electronic magnetic lock operated by touch screen /adsorption intensity: 270kgs

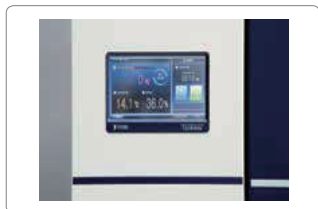


▶ Material

1.2mm CR , acid resistance, alkali resistance paint coating.

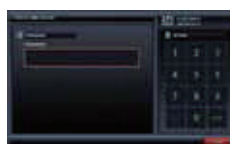
▶ Tempered glass

Tempered glass for viewing reagent storage.

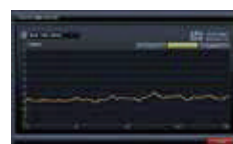


▶ 7 inch color touch screen

Display the temperature, humidity, VOCs concentration, graph, set the password



Password setting



Temperature graph



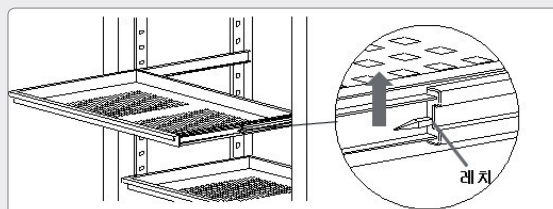
VOCs graph



Humidity graph

▶ Height adjustment and slide shelves.

- Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.
- To ensure the safety of the reagent, select the retch method



Enclosed reagent chamber(ion-cluster dissemination type)

Patent pending number 10-0961693



ZEO-SN143D



ZEO-SN142D

Color option



Basic color



Organic solvent



Acid



Alkali

Enclosed reagent chamber (ion-cluster)

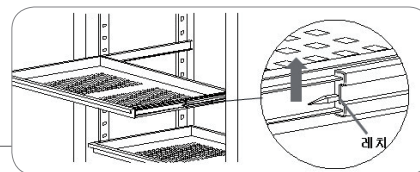
- This reagent chamber developed using ion clusters to remove harmful gas and odor.
- To convenient storage of reagents, slide type adjustable shelves was applied.
- It is enclosed, self-circulated type design to prevent leaking air into the room.

Specifications

Standard/Model	ZEO-SN142D	ZEO-SN143D
External dimension W×D×H(mm)	700 X 600 X 1,800	1,400 X 600 X 1,800
Interior dimension W×D×H(mm)	600 X 450 X 1,590 / 430 L	1,200 X 450 X 1,590 / 860 L
Max. load per self	30 kg	
Noise level	Below 55 dB	
Controller	Touch switch, High-brightness LED (Display power, fan speed)	
Shelves	5 slide	10 slide
Unit Weight	165 kg	300 kg
Power Consumption	30 W	50 W
Lock system	Electro magnetic lock (selector key)	
Power	220 V / 60 Hz	

※ Specification may change without notice to improve performance.

Detail



► Height adjustment and slide shelves.

Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.

► Tempered glass

Tempered glass for viewing reagent storage.

► High-brightness LED

It is operated after power failure by power condition, display the fan speed, fan speed adjustment according to opening and closing of the door, memory function.



► ion-cluster

It remove the germs, Mold, odor, and disassemble harmful chemicals, no required filter exchange permanently.



► Magnetic lock

Electronic magnetic lock operated by touch screen /adsorption intensity: 270kgs



► Material

1.2mm CR, acid resistance, alkali resistance paint coating.



Introduce the ion- cluster

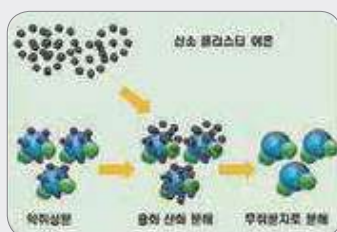
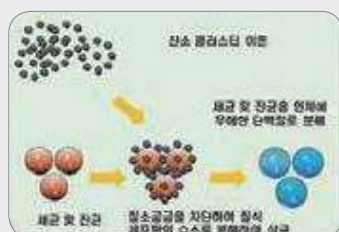
- Ion-cluster type reagent chamber is not required maintenance cost, can be used permanently.
- It remove the germs and odor, harmful gas more than 95 %.
- Ion clusters are aggregates of 10-60 oxygen molecular ions, formed by sun's rays in a waterfall or forest.

Function

- Air cleaning : Remove the harmful substances in the air, such as nitrogen oxides, sulfur oxides and formaldehyde.
- Deodorization : Reduce the odor, harmful gas such as acetaldehyde, ammonia, hydrogen sulfide.
- Sterilization : Remove the germs, viruses, and fungi

Name	Chemical formula	Removal reaction
Toluene	C_7H_8	$C_7H_8 + 9O_2 \rightarrow CO_2 + H_2O$
Benzene	C_6H_6	$2C_6H_6 + 15O_2 \rightarrow 12CO_2 + 6H_2O$
Methane	CH_4	$CH_4 + 2O_2 \rightarrow CO_2 + 4H_2O$
Ammonia	NH_3	$4NH_3 + 3O_2 \rightarrow 2N_2 + 6H_2O$
Acetaldehyde	C_2H_4O	$2C_2H_4O + 5O_2 \rightarrow 4CO_2 + 4H_2O$
Formaldehyde	CH_2O	$CH_2O + O_2 \rightarrow CO_2 + H_2O$
Ethylene	C_2H_4	$C_2H_4 + 3O_2 \rightarrow 2CO_2 + 2H_2O$

The principle of reduce



► Remove the odor and germs

Hydroperoxy radical generated by ion cluster cover the odor molecules, microbes, fungi in the air. Using this principle, enable to create the pleasant air by sterilizing and deodorization.

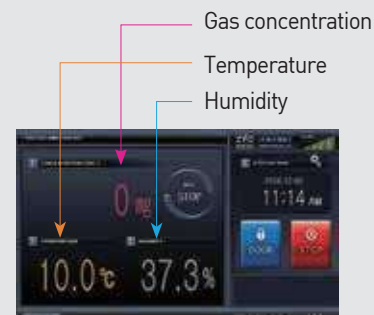
Enclosed reagent chamber(Filter type)

Patent pending number 10-0776563



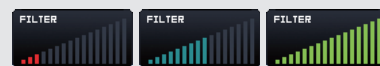
ZEO-SL200(SL143)

ZEO-SL100(SL142)

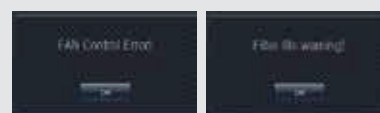


1. Data logger function

Download operating data using USB.
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2. Filter life-time display function (Graph)



3. Filter life-time check display function (Warning message)

4. Harmful gas circulation malfunction display function

Color option



Enclosed reagent chamber (Filter type)

- This reagent chamber enable to store harmful chemicals, reagents and drugs, remove the harmful gas and odor.
- To convenient storage of reagents, slide type adjustable shelves was applied.
- It is enclosed, self-circulated type design to prevent leaking air into the room.

Specifications

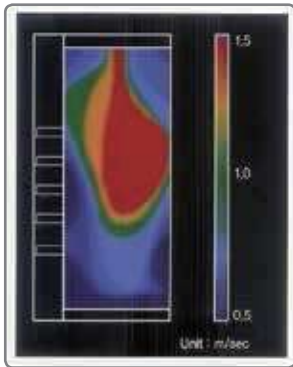
Standard/Model	ZEO-SL100(SL142)	ZEO-SL200(SL143)
External dimension W×D×H(mm)	970 X 550 X 1,800	1,650 X 550 X 1,800
Interior dimension W×D×H(mm)	600 X 450 X 1,590 / 430 L	1,200 X 450 X 1,590 / 860 L
Max. load per self	30 kg	
Noise level	Below 55 dB	
Controller	7inch color touch screen (Display temperature, humidity, VOCs concentraion)	
Shelves	5 slide	10 slide
Unit Weight	165 kg	300 kg
Power Consumption	45 W	75 W
Lock system	Electro magnetic lock	
Power	220 V / 60 Hz	

※ Specification may change without notice to improve performance.

Feature

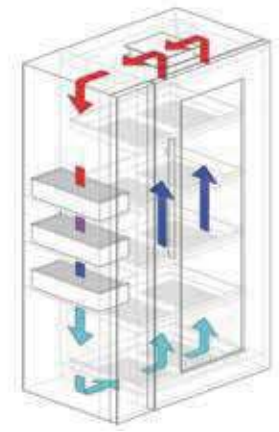
It is enclosed, self-circulated type that no leaking air into the room.

It resolve the supersaturation of filter as polluted air and the causes of pollution in the filter, no loss of heating, cooling energy.



It is designed differential pressure to prevent overflow of air inside the reagent chamber.

- It is designed low pressure of -0.3pha inside the reagent chamber, polluted air is not discharge to the outside.
- Fluid velocity at the foot of reagent chamber is designed 0.53 m/s , no reverse flow of harmful gas or odor.



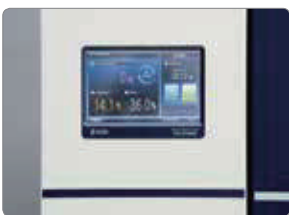
Detail



High-performance catalyst, absorbent, ceramic filter

- physical adhesion optimize by adjusting the size and distribution of Fine Porosity.
- It can be dedicated filter design about various VOCs and odors

Model	Removal object	Feature
ZSA-1000	Acid Gas	Absorb the acid gas quickly.
ZSA-2000	Alkali Gas	Absorb the basic gas quickly.
ZSA-4000	VOCs	Remove the Odor, ozone and volatile organic compounds by catalytic oxidation substitution at room temperature.
ZSA-0510		



► 7inch color touch screen

Display the temperature, humidity, VOCs concentration, graph, set the password harmful chemicals, no required filter exchange permanently.



► Material

1.2mm CR, acid resistance, alkali resistance paint coating.

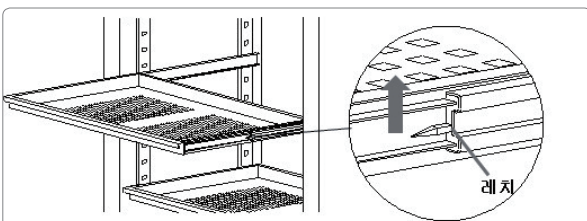
► Tempered glass

Tempered glass for viewing reagent storage.



► Magnetic lock

Electronic magnetic lock operated by touch screen /adsorption intensity: 270kgs



► Height adjustment and slide shelves.

- Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.
- To ensure the safety of the reagent, select the reatch method

Constant temperature reagent chamber(ion-cluster)

Patent pending number 10-0961693

Patent pending number 10-1083260



ZE0-SR152

Color option



Basic color



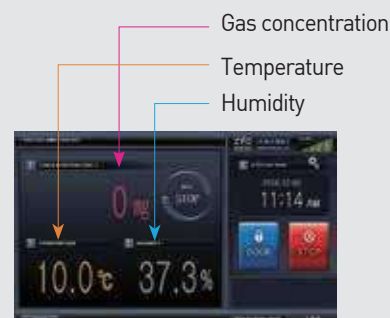
Organic solvent



Acid

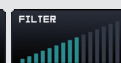


Alkali

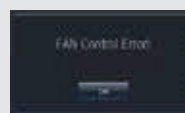


1. Data logger function

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2. ion-cluster check display function (Graph)



3. ion-cluster display function (Warning message)

4. Harmful gas circulation malfunction display function

Constant temperature reagent chamber

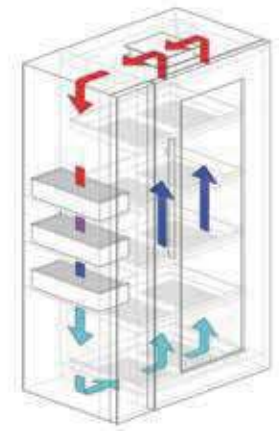
- It is room temperature/refrigeration type reagent chamber enable to remove the harmful gas and odor.
- To convenient storage of reagents, slide type adjustable shelves was applied.
- It is designed sealed, self-circulated type to prevent leaking air into the room.
- Temperature set 2°C~25°C / Temperature variation $\pm 2^\circ\text{C}$ (Based on 25°C, excluding defrost)
- Room temperature control : 9°C~25°C / refrigeration control 2°C~8°C

Specifications

Standard/Model	ZE0-SR152
External dimension W×D×H(mm)	970 X 700 X 1,800
Interior dimension W×D×H(mm)	600 X 450 X 1,590 / 430 L
Max. load per self	30 kg
Noise level	Below 60 dB
Controller	7inch color touch screen (Display the temperature, humidity, VOCs concentration)
Shelves	5 slides
Unit Weight	200 kg
Power Consumption	260 W (1,200 W)
Lock system	Electro magnetic lock
Power	220 V / 60 Hz
Compressor	650 W
Internal Heater	1 kWh

※ Specification may change without notice to improve performance.

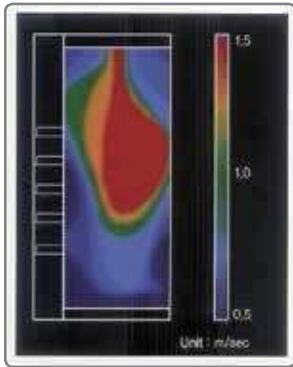
Room temperature / Cold storage



Feature

It is enclosed, self-circulated type that no leaking air into the room.

It resolve the supersaturation of filter as polluted air and the causes of pollution in the filter, no loss of heating, cooling energy.



It is designed differential pressure to prevent overflow of air inside the reagent chamber.

- It is designed low pressure of -0.3pha inside the reagent chamber, polluted air is not discharge to the outside.
- Fluid velocity at the foot of reagent chamber is designed 0.53 m/s , no reverse flow of harmful gas or odor.

Detail



► ion-cluster

It remove the germs, Mold, odor, and disassemble harmful chemicals, no required filter exchange permanently.



► Temperature control

It can be temperature control, save the temperature/humidity data, download the data using USB



► 7inch color touch screen

Display the temperature, humidity, graph VOCs concentration, set the password



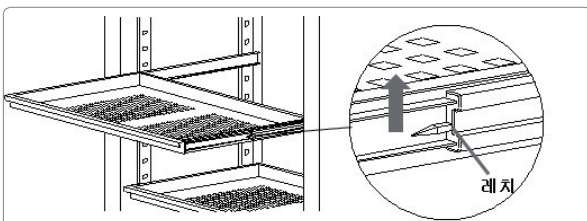
► Motis

Electronic magnetic lock operated by touch screen.



► Material

- External : 1.2mm CR, acid resistance, alkali resistance paint coating.
- Interior : It is SUS material, prevent the oxidation
- Glass : set the double tempered glass, condensation prevention system.



► Height adjustment and slide shelves.

- Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.
- To ensure the safety of the reagent, select the reagent method

Enclosed type
ion-clusterEnclosed type
disseminationEnclosed type
filterEnclosed type constant
temperature/cold

Enclosed type

Discharge type
self-dischargeDischarge type central
HVACAcid/Base separation
type

Acid/Base

Combustible
cabinet

Constant temperature reagent chamber(ion-cluster)

Patent pending number 10-0961693

Patent pending number 10-1083260



ZE0-SF152

Color option



Basic color



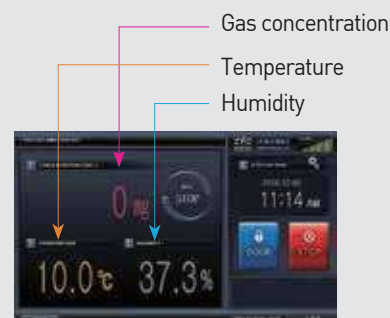
Organic solvent



Acid

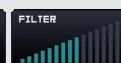


Alkali

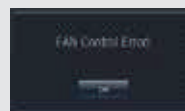


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3. ion-cluster display function (Warning message)

4. Harmful gas circulation malfunction display function

Constant temperature reagent chamber

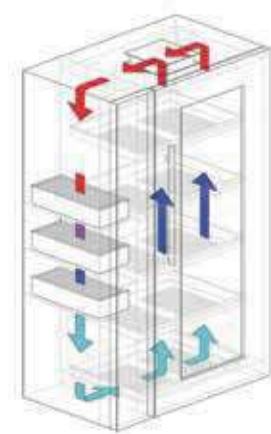
- It is room temperature/refrigeration type reagent chamber enable to remove the harmful gas and odor.
- To convenient storage of reagents, slide type adjustable shelves was applied.
- It is designed sealed, self-circulated type to prevent leaking air into the room.
- Temperature set -15°C~25°C / Temperature variation $\pm 2^{\circ}\text{C}$ (Based on 25°C, excluding defrost)
- Room temperature control : 9°C~25°C / refrigeration control 2°C~8°C / Refrigeration: It can be control -15°C ~ 0°C
- Indirect refrigeration : No frost, adopted the front door first time in Korea.

Specifications

Standard/Model	ZE0-SF152
External dimension W×D×H(mm)	970 X 700 X 1,800
Interior dimension W×D×H(mm)	600 X 450 X 1,590 / 430 L
Max. load per self	30 kg
Noise level	Below 60 dB
Controller	7inch color touch screen (Display the temperature, humidity, VOCs concentration)
Shelves	5 slides
Unit Weight	200 kg
Power Consumption	260 W (1,200 W)
Lock system	Electro magnetic lock
Power	220 V / 60 Hz
Compressor	650 W
Internal Heater	1 kWh

※ Specification may change without notice to improve performance.

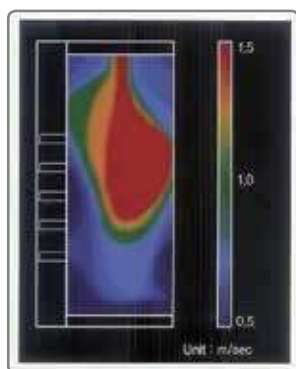
Room temperature / Refrigeration



Feature

It is enclosed, self-circulated type that no leaking air into the room.

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It is designed differential pressure to prevent overflow of air inside the reagent chamber.

- It is designed low pressure of -0.3pha inside the reagent chamber, polluted air is not discharge to the outside.
- Fluid velocity at the foot of reagent chamber is designed 0.53 m/s , no reverse flow of harmful gas or odor.

Detail



► ion-cluster

It remove the germs, Mold, odor, and disassemble harmful chemicals, no required filter exchange permanently.



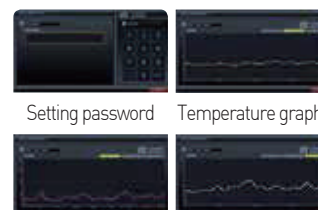
► Temperature control

It can be temperature control, save the temperature/humidity data, download the data using USB



► 7inch color touch screen

Display the temperature, humidity, graph VOCs concentration, set the password



Setting password Temperature graph
VOCs graph Humidity graph



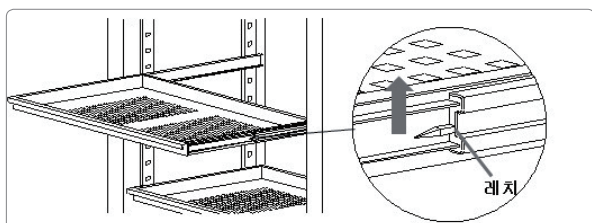
► Motis

Electronic magnetic lock operated by touch screen.



► Material

- External : 1.2mm CR, acid resistance, alkali resistance paint coating.
- Interior : It is SUS material, prevent the oxidation
- Glass : set the double tempered glass, condensation prevention system.



► Height adjustment and slide shelves.

- Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.
- To ensure the safety of the reagent, select the reatch method

Enclosed type
ion-clusterEnclosed type
disseminationEnclosed type
filterEnclosed type constant
temperature/cold

Enclosed type

Discharge type
self-dischargeDischarge type central
HVACAcid/Base separation
type

Acid/Base

Combustible
cabinet

Discharge type reagent chamber(Self-Discharge)

Patent pending number 10-1344776



ZE0-SD143F



ZE0-SD142F



Discharge type reagent chamber (Self-Discharge)

- This system is designed to discharge harmful gas and odor from the air entering the reagent chamber through the suction port

Specifications

Standard/Model	ZE0-SD142	ZE0-SD143
External dimension W×D×H(mm)	700 X 550 X 1,800	1,400 X 550 X 1,800
Interior dimension W×D×H(mm)	600 X 450 X 1,590 / 430 L	1,200 X 450 X 1,590 / 860 L
Air circulation speed		
Noise level		
Controller		
Shelves	5 slides	10 slides
Unit Weight	130 kg	220 kg
Power Consumption	75 W	145 W
Lock system	Camlock	
Power		

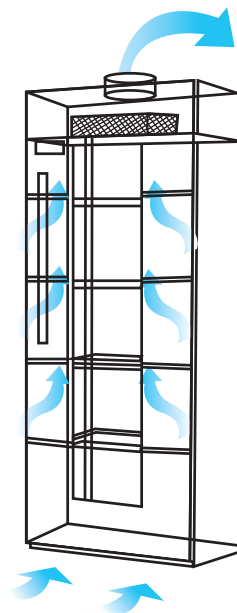
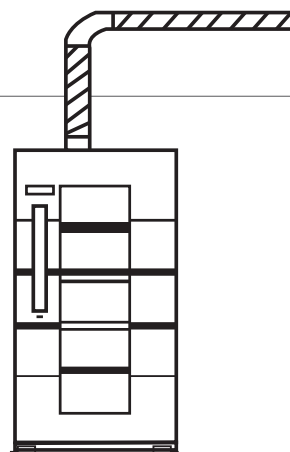
※ Specification may change without notice to improve performance.

Introduce self-discharge

- Discharge the harmful gas using the fan.

* Caution

- Maximum discharge distance is 10m.
- If the discharge distance is far, discharge may not be smoothly.



Duct option



1. Flexible duct hose

- 1) Teflon
- 2) Fiber glass
- 3) Aluminium



2. Spiral duct

- 1) GI
- 2) Stainless
- 3) Galvalume



3. Chemically resistant duct

- 1) PVC
- 2) PE

Detail



► Sirocco FAN

High-efficiency, low noise turbo fan.



► Magnetic lock

Electronic magnetic lock operated by selector key.



► Selector key

Electronic signal type key



► Material

1.2mm CR, acid resistance, alkali resistance paint coating.

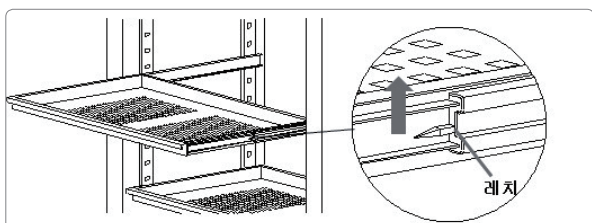
► Tempered glass

Tempered glass for viewing reagent storage.



► High-brightness LED

It is operated automatically after power cut by memory function, power condition, fan speed display, fan speed adjustment according to the opening and closing of the door



► Height adjustment and slide shelves.

- Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.
- To ensure the safety of the reagent, select the ratchet method

Discharge type reagent chamber(Central HVAC)

Patent pending number 10-1344776



ZE0-SD143



ZE0-SD142

Color option



Discharge type reagent chamber (Central HVAC)

- This system is designed to discharge harmful gas and odor from the air entering the reagent chamber through the suction port

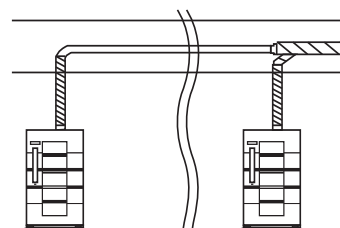
Specifications

Standard/Model	ZE0-SD142	ZE0-SD143
External dimension W×D×H(mm)	700 X 550 X 1,800	1,400 X 550 X 1,800
Interior dimension W×D×H(mm)	600 X 450 X 1,590 / 430 L	1,200 X 450 X 1,590 / 860 L
Air circulation speed		
Noise level		
Controller		
Shelves	5 slides	10 slides
Unit Weight	130 kg	220 kg
Power Consumption		
Lock system	Camlock	
Power		

※ Specification may change without notice to improve performance.

Introduce

- Discharge the harmful gas using the blower installed rooftop or machine room.
- Equipment is economically price and not limited to installation place.



Duct option



1. Flexible duct hose

- 1) Teflon
- 2) Fiber glass
- 3) Aluminium



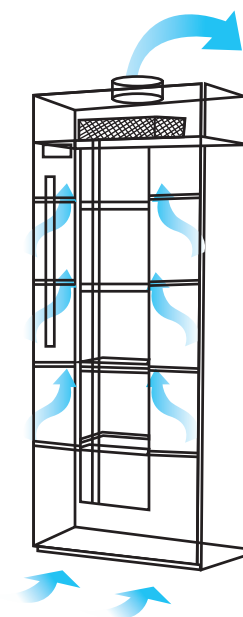
2. Spiral duct

- 1) GI
- 2) Stainless
- 3) Galvalume



3. Chemically resistant duct

- 1) PVC
- 2) PE



Detail



► Material

1.2mm CR, acid resistance, alkali resistance paint coating.

► Tempered glass

Tempered glass for viewing reagent storage.



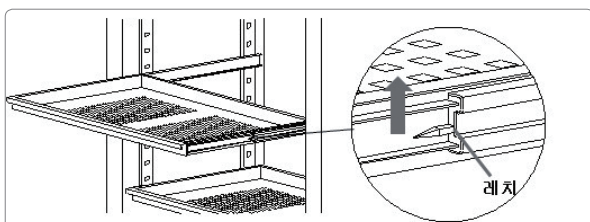
► Auto caster

- Horizontal adjustable auto caster.
- Height adjustable, Lock



► Lock

Camlock

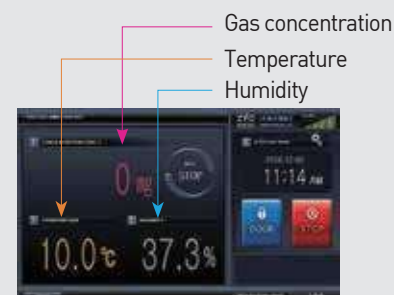


► Height adjustment and slide shelves.

- Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.
- To ensure the safety of the reagent, select the ratchet method

Enclosed reagent chamber(ion-cluster)

Patent pending number 10-0961693

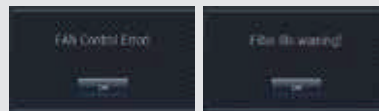


1. Data logger function

Download operating data using USB.
Download to JPG, Excel File



2. ion-cluster check display function (Graph)



3. ion-cluster display function (Warning message)

4. Harmful gas circulation malfunction display function

Color option



Enclosed reagent chamber (ion-cluster) – Acid / Base separation

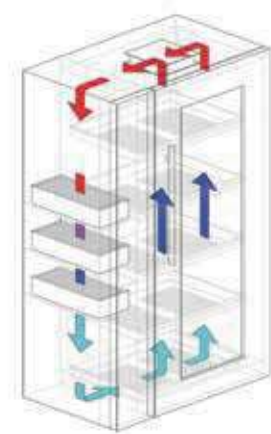
- This reagent chamber developed using ion clusters to remove harmful gas and odor.
- Inside of the reagent chamber is divided, can be stored separately such as acids, bases, and organic solvents.
- To convenient storage of reagents, slide type adjustable shelves was applied.
- It is enclosed, self-circulated type design to prevent leaking air into the room.

Specifications

Standard/Model	ZEO-SNS100(SNS142)	ZEO-SNS200(SNS143)
External dimension W×D×H(mm)	970 X 550 X 1,800	1,650 X 550 X 1,800
Interior dimension W×D×H(mm)	(600 X 450 X 730) X 2 EA / 197 L X 2	(600 X 450 X 730) X 4 EA / 197 L X 4
Max. load per self	30 kg	
Noise level	Below 55 dB	
Controller	7inch color touch screen (Display temperature, humidity, VOCs concentraion)	
Shelves	5 slide	10 slide
Unit Weight	180 kg	320 kg
Power Consumption	47 W	83 W
Lock system	Electro magnetic lock	
Power	220 V / 60 Hz	

※ Specification may change without notice to improve performance.

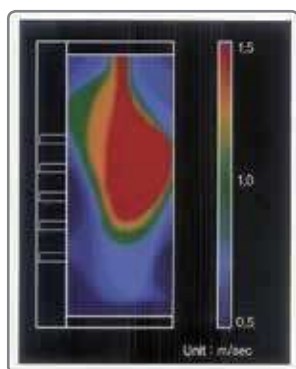
Acid / Base separation



Feature

It is enclosed, self-circulated type that no leaking air into the room.

It resolve the supersaturation of filter as polluted air and the causes of pollution in the filter, no loss of heating, cooling energy.



It is designed differential pressure to prevent overflow of air inside the reagent chamber.

- It is designed low pressure of -0.3pha inside the reagent chamber, polluted air is not discharge to the outside.
- Fluid velocity at the foot of reagent chamber is designed 0.53 m/s , no reverse flow of harmful gas or odor.

Detail



► ion-cluster

It remove the germs, Mold, odor, and disassemble harmful chemicals, no required filter exchange permanently.



► Magnetic lock

Electronic magnetic lock operated by touch screen /adsorption intensity: 270kgs

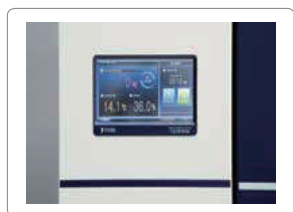


► Material

1.2mm CR, acid resistance, alkali resistance paint coating.

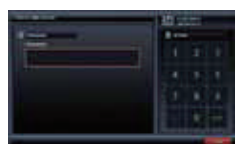
► Tempered glass

Tempered glass for viewing reagent storage.

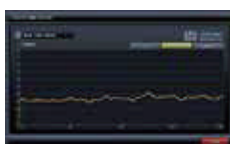


► 7 inch color touch screen

Display the temperature, humidity, VOCs concentration, graph, set the password



Password setting



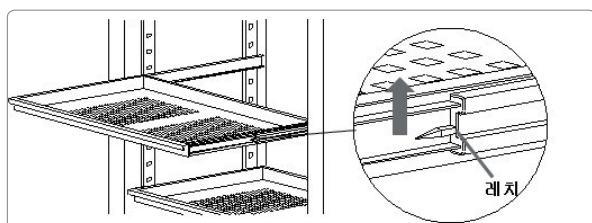
Temperature graph



VOCs graph



Humidity graph



► Height adjustment and slide shelves.

- Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.
- To ensure the safety of the reagent, select the ratchet method

Enclosed reagent chamber(ion-cluster)

Patent pending number 10-0961693



ZEO-SNS143D



ZEO-SNS142D



Enclosed reagent chamber (ion-cluster) – Acid / Base separation

- This reagent chamber developed using ion clusters to remove harmful gas and odor.
- Inside of the reagent chamber is divided, can be stored separately such as acids, bases, and organic solvents.
- To convenient storage of reagents, slide type adjustable shelves was applied.
- It is enclosed, self-circulated type design to prevent leaking air into the room.
- SNPS100(SNPS142) option (Acid/Base separation type filter)

Specifications

Standard/Model	ZEO-SNS142D	ZEO-SNS143D
External dimension W×D×H(mm)	700 X 600 X 1,800	1,400x600x1,800
Interior dimension W×D×H(mm)	(600 X 450 X 730) X 2 EA / 197 L X 2	(600 X 450 X 730) X 4 EA / 197 L X 4
Max. load per self	30 kg	
Noise level	Below 55 dB	
Controller	Touch switch, led (Power, Fan speed display)	
Shelves	4 slides	8 slides
Unit Weight	165 kg	300 kg
Power Consumption	45 W	75 W
Lock system	Electro magnetic lock (selector key)	
Power	220 V / 60 Hz	

※ Specification may change without notice to improve performance.

Acid / Base separation

Detail



▶ ion-cluster

It remove the germs, Mold, odor, and disassemble harmful chemicals, no required filter exchange permanently.



▶ Magnetic lock

Electronic magnetic lock operated by touch screen /adsorption intensity: 270kgs

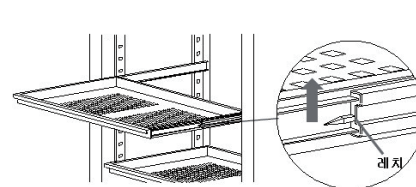


▶ Material

1.2mm CR, acid resistance, alkali resistance paint coating.

▶ Tempered glass

Tempered glass for viewing reagent storage.



▶ Height adjustment and slide shelves.

Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.

▶ High-brightness LED

It is operated automatically after power cut by memory function, power condition, fan speed display, fan speed adjustment according to the opening and closing of the door



Introduce the ion- cluster

- Ion-cluster type reagent chamber is not required maintenance cost, can be used permanently
- It remove the germs and odor, harmful gas more than 95 %.
- Ion clusters are aggregates of 10-60 oxygen molecular ions, formed by sun's rays in a waterfall or forest.

Function

- Air cleaning : Remove the harmful substances in the air, such as nitrogen oxides, sulfur oxides and formaldehyde.
- Deodorization : Reduce the odor, harmful gas such as acetaldehyde, ammonia, hydrogen sulfide.
- Sterilization : Remove the germs, viruses, and fungi

Name	Chemical formula	Removal reaction
Toluene	C_7H_8	$C_7H_8 + 9O_2 \rightarrow CO_2 + H_2O$
Benzene	C_6H_6	$2C_6H_6 + 15O_2 \rightarrow 12CO_2 + 6H_2O$
Methane	CH_4	$CH_4 + 2O_2 \rightarrow CO_2 + 4H_2O$
Ammonia	NH_3	$4NH_3 + 3O_2 \rightarrow 2N_2 + 6H_2O$
Acetaldehyde	C_2H_4O	$2C_2H_4O + 5O_2 \rightarrow 4CO_2 + 4H_2O$
Formaldehyde	CH_2O	$CH_2O + O_2 \rightarrow CO_2 + H_2O$
Ethylene	C_2H_4	$C_2H_4 + 3O_2 \rightarrow 2CO_2 + 2H_2O$

The principle of reduce

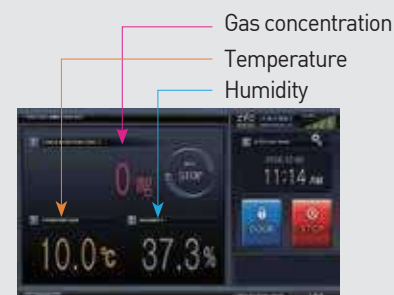


▶ Remove the odor and germs

Hydroperoxy radical generated by ion cluster cover the odor molecules, microbes, fungi in the air. Using this principle, enable to create the pleasant air by sterilizing and deodorization.

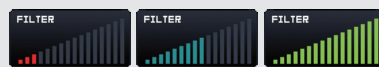
Enclosed reagent chamber(Filter type)

Patent pending number 70-0776563

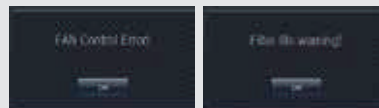


1. Data logger function

Download operating data using USB.
Download to JPG, Excel File

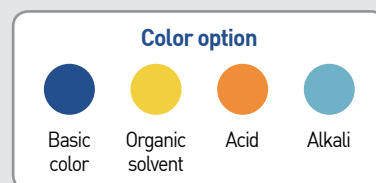


2. ion-cluster check display function (Graph)



3. ion-cluster display function (Warning message)

4. Harmful gas circulation malfunction display function



Enclosed reagent chamber (ion-cluster) – Acid / Base separation

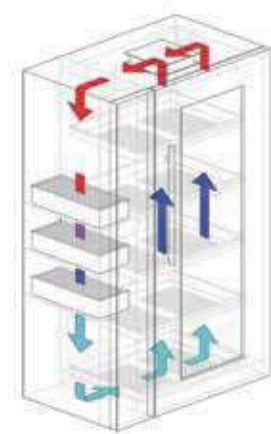
- This reagent chamber enable to store harmful chemicals, reagents and drugs, remove the harmful gas and odor.
- Inside of the reagent chamber is divided, can be stored separately such as acids, bases, and organic solvents.
- To convenient storage of reagents, slide type adjustable shelves was applied.
- It is Sealed, self-circulated type design to prevent leaking air into the room.

Specifications

Standard/Model	ZEO-SLS100(SLS142)	ZEO-SLS200(SLS143)
External dimension W×D×H(mm)	970 X 550 X 1,800	1,650 X 550 X 1,800
Interior dimension W×D×H(mm)	600 X 450 X 1,590 / 430 L	1,200 X 450 X 1,590 / 860 L
Max. load per self	30 kg	
Noise level	Below 55 dB	
Controller	7 inch color touch screen (Display the temperature, humidity, VOCs concentration)	
Shelves	4 slides	8 slides
Unit Weight	165 kg	300 kg
Power Consumption	45 W	75 W
Lock system	Electro magnetic lock	
Power	220 V / 60 Hz	

※ Specification may change without notice to improve performance.

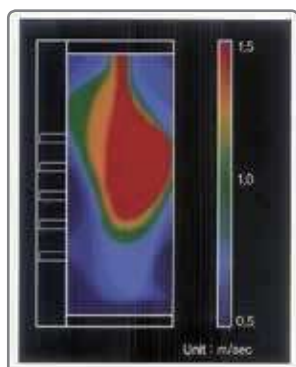
Acid / Base separation



Feature

It is enclosed, self-circulated type that no leaking air into the room.

It resolve the supersaturation of filter as polluted air and the causes of pollution in the filter, no loss of heating, cooling energy.



It is designed differential pressure to prevent overflow of air inside the reagent chamber.

- It is designed low pressure of -0.3pha inside the reagent chamber, polluted air is not discharge to the outside.
- Fluid velocity at the foot of reagent chamber is designed 0.53 m/s , no reverse flow of harmful gas or odor.

Detail



High-performance catalyst, absorbent, ceramic filter

- physical adhesion optimize by adjusting the size and distribution of Fine Porosity.
- It can be dedicated filter design about various VOCs and odors

Model	Removal object	Feature
ZSA-1000	Acid Gas	Absorb the acid gas quickly.
ZSA-2000	Alkali Gas	Absorb the basic gas quickly.
ZSA-4000	VOCs	Remove the Odor, ozone and volatile organic compounds by catalytic oxidation substitution at room temperature.
ZSA-0510		



▶ 7inch color touch screen

Display the temperature, humidity, VOCs concentration, graph, set the password harmful chemicals, no required filter exchange permanently.



▶ Material

1.2mm CR, acid resistance, alkali resistance paint coating.

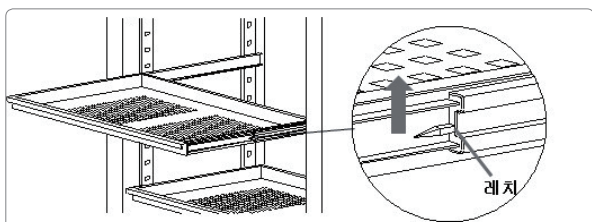
▶ Tempered glass

Tempered glass for viewing reagent storage.



▶ Magnetic lock

Electronic magnetic lock operated by touch screen /adsorption intensity: 270kgs



▶ Height adjustment and slide shelves.

- Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.
- To ensure the safety of the reagent, select the reatch method

Discharge type reagent chamber(Self-discharge)

Patent pending number 10-1344776



ZE0-SDS143F



ZE0-SDS142F



Discharge type reagent chamber (Self-discharge) – Acid / Base separation

- This system is designed to discharge harmful gas and odor from the air entering the reagent chamber through the suction port at the bottom of reagent chamber
- Option (Acid / Base separation filter)

Specifications

Standard/Model	ZE0-SDS142F	ZE0-SDS143F
External dimension W×D×H(mm)	700 X 550 X 1,800	1,400 X 550 X 1,800
Interior dimension W×D×H(mm)	600 X 450 X 1,590 / 430 L	1,200 X 450 X 1,590 / 860 L
Air circulation speed	Around 0.53 m/sec	
Noise level	Below 55dB	
Air flow	6.6	13.2
Controller		
Shelves	5 slides	10 slides
Unit Weight	130 kg	220 kg
Power Consumption	75 W	145 W
Lock system	Electronic lock (selector key)	
Power	220 V / 60 Hz	

※ Specification may change without notice to improve performance.

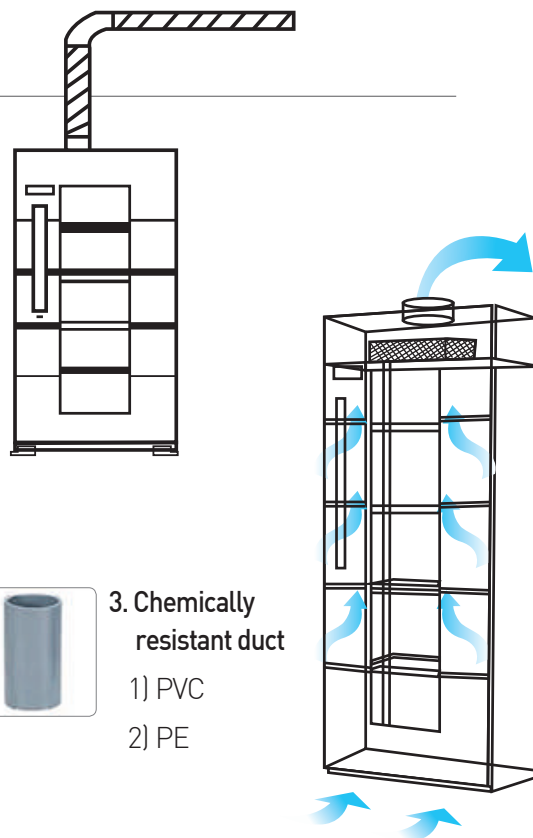
Acid / Base separation

Introduce self-discharge

- Discharge the harmful gas using the fan.

* Caution

- Maximum discharge distance is 10m.
- If the discharge distance is far, discharge may not be smoothly.



Duct option



1. Flexible duct hose

- 1) Teflon
- 2) Fiber glass
- 3) Aluminium



2. Spiral duct

- 1) GI
- 2) Stainless
- 3) Galvalume



3. Chemically resistant duct

- 1) PVC
- 2) PE

Detail



► Sirocco FAN

High-efficiency, low noise turbo fan.



► Magnetic lock

Electronic magnetic lock operated by touch screen /adsorption intensity: 270kgs



► Selector key

Electronic signal type key



► Material

1.2mm CR, acid resistance, alkali resistance paint coating.

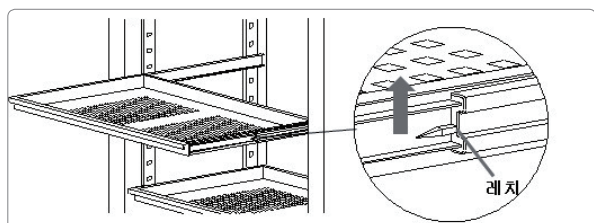
► Tempered glass

Tempered glass for viewing reagent storage.



► High-brightness LED

It is operated automatically after power cut by memory function, power condition, fan speed display, fan speed adjustment according to the opening and closing of the door



► Height adjustment and slide shelves.

- Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.
- To ensure the safety of the reagent, select the ratchet method

Discharge type reagent chamber(Central HVAC)

Patent pending number 10-1344776



ZE0-SDS143



ZE0-SDS142



Discharge type reagent chamber (Central HVAC) – Acid / Base separation

- This system is designed to discharge harmful gas and odor from the air entering the reagent chamber through the suction port
- Option (Acid / Base separation filter)

Specifications

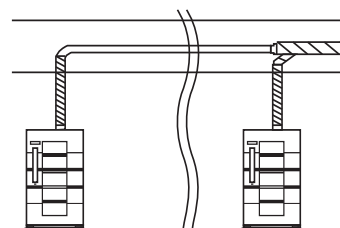
Standard/Model	ZE0-SDS142	ZE0-SDS143
External dimension W×D×H(mm)	700 X 550 X 1,800	1,400 X 550 X 1,800
Interior dimension W×D×H(mm)	(600 X 450 X 730) X 2 EA / 197 L X 2 EA	(600 X 450 X 730) X 4 EA / 197L X 4 EA
Air circulation speed		
Air Flow		
Noise level		
Controller		
Shelves	4 slides	8 slides
Unit Weight	130 kg	220 kg
Power Consumption		
Lock system	Camlock	
Power		

※ Specification may change without notice to improve performance.

Acid / Base separation

Introduce the Central HVAC

- Discharge the harmful gas using the blower installed rooftop or machine room.
- Equipment is economically price and not limited to installation place.



Duct option



1. Flexible duct hose

- 1) Teflon
- 2) Fiber glass
- 3) Aluminium



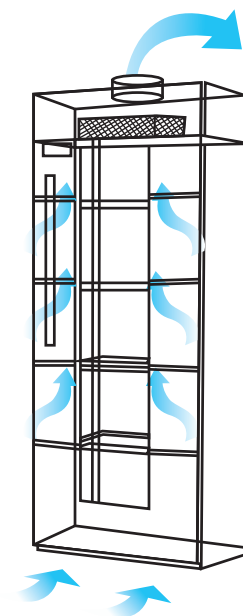
2. Spiral duct

- 1) GI
- 2) Stainless
- 3) Galvalume



3. Chemically resistant duct

- 1) PVC
- 2) PE



Detail



► Material

1.2mm CR, acid resistance, alkali resistance paint coating.



► Auto caster

- Horizontal adjustable auto caster.
- Height adjustable, Lock

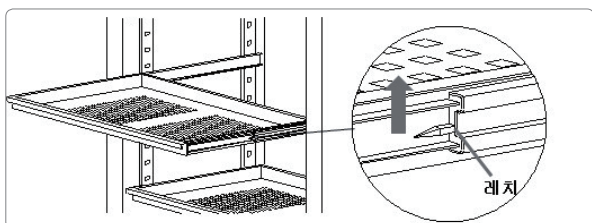


► Lock

Camlock

► Tempered glass

Tempered glass for viewing reagent storage.



► Height adjustment and slide shelves.

- Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.
- To ensure the safety of the reagent, select the retch method

Enclosed reagent chamber(ion-cluster dissemination type)

Patent pending number 10-0961693



ZE0-SNES142D



ZE0-SNE142D



Enclosed reagent chamber (ion-cluster dissemination type)

- This reagent chamber developed using ion clusters to remove harmful gas and odor.
- To convenient storage of reagents, slide type adjustable shelves was applied.
- It is enclosed, self-circulated type design to prevent leaking air into the room.
- Option (Acid / Base separation filter)

Specifications

Standard/Model	ZE0-SNES142D	ZE0-SNES143D
External dimension W×D×H(mm)	700 X 600 X 1,800	1,400x600x1,800
Interior dimension W×D×H(mm)	{600 X 450 X 730} X 2 EA / 197 L X 2	600 X 450 X 1,590 / 430 L
Max. load per self	30 kg	
Noise level	Below 55 dB	
Controller	Touch switch, High-brightness LED (Display power, fan speed)	
Shelves	4 slides	8 slides
Unit Weight	165 kg	165 kg
Power Consumption	44 W	28 W
Lock system	Electro magnetic lock (selector key)	
Power	220 V / 60 Hz	

※ Specification may change without notice to improve performance.

Acid / Base only

Detail



▶ ion-cluster

It remove the germs, Mold, odor, and disassemble harmful chemicals, no required filter exchange permanently.



▶ Magnetic lock

Electronic magnetic lock operated by touch screen /adsorption intensity: 270kgs

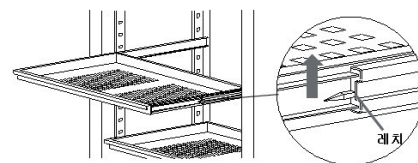


▶ Material

1.2mm CR, acid resistance, alkali resistance paint coating.

▶ Tempered glass

Tempered glass for viewing reagent storage.



▶ Height adjustment and slide shelves.

Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.

▶ High-brightness LED

It is operated automatically after power cut by memory function, power condition, fan speed display, fan speed adjustment according to the opening and closing of the door



Introduce the ion- cluster

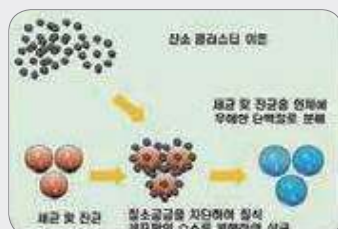
- Ion-cluster type reagent chamber is not required maintenance cost, can be used permanently
- It remove the germs and odor, harmful gas more than 95 %.
- Ion clusters are aggregates of 10-60 oxygen molecular ions, formed by sun's rays in a waterfall or forest.

Function

- Air cleaning : Remove the harmful substances in the air, such as nitrogen oxides, sulfur oxides and formaldehyde.
- Deodorization : Reduce the odor, harmful gas such as acetaldehyde, ammonia, hydrogen sulfide.
- Sterilization : Remove the germs, viruses, and fungi

Name	Chemical formula	Removal reaction
Toluene	C_7H_8	$C_7H_8 + 9O_2 \rightarrow CO_2 + H_2O$
Benzene	C_6H_6	$2C_6H_6 + 15O_2 \rightarrow 12CO_2 + 6H_2O$
Methane	CH_4	$CH_4 + 2O_2 \rightarrow CO_2 + 4H_2O$
Ammonia	NH_3	$4NH_3 + 3O_2 \rightarrow 2N_2 + 6H_2O$
Acetaldehyde	C_2H_4O	$2C_2H_4O + 5O_2 \rightarrow 4CO_2 + 4H_2O$
Formaldehyde	CH_2O	$CH_2O + O_2 \rightarrow CO_2 + H_2O$
Ethylene	C_2H_4	$C_2H_4 + 3O_2 \rightarrow 2CO_2 + 2H_2O$

The principle of reduce



▶ Remove the odor and germs

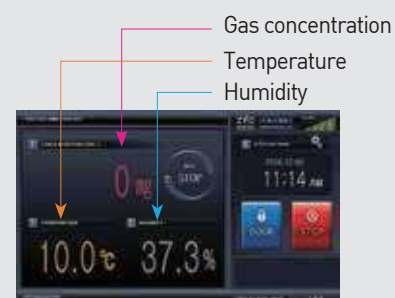
Hydropheroxy radical generated by ion cluster cover the odor molecules, microbes, fungi in the air. Using this principle, enable to create the pleasant air by sterilizing and deodorization.

Enclosed reagent chamber(ion-cluster / Filter type)

Patent pending number 10-0961693



ZEO-SNPS100(SNPS142)

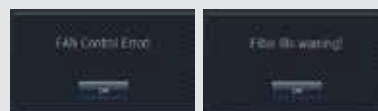


1. Data logger function

Download operating data using USB.
Download to JPG, Excel File



2. ion-cluster check display function (Graph)



3. ion-cluster display function (Warning message)

4. Harmful gas circulation malfunction display function

Enclosed reagent chamber (ion-cluster type) - Acid/ Base only / All poly propylene

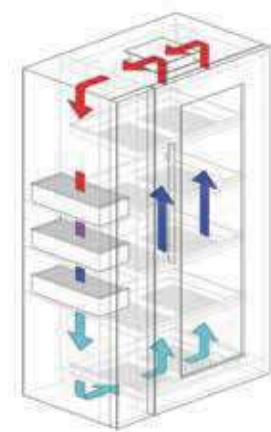
- This reagent chamber developed using ion clusters to remove harmful gas and odor.
- Reagent chamber made by p.p material, It can be used permanently without corrosion caused by acid, base.
- To convenient storage of reagents, slide type adjustable shelves was applied.
- It is enclosed, self-circulated type design to prevent leaking air into the room.
- Option (Acid / Base separation filter)

Specifications

Standard/Model	ZEO-SNPS100 (ion-cluster type) / ZEO-SLPS100 (Filter type)
External dimension W×D×H(mm)	970 X 575 X 1,800
Interior dimension W×D×H(mm)	715 X 490 X 810 / 284 L X 2 EA
Max. load per self	30 kg
Noise level	Below 60 dB
Controller	7inch color touch screen (Display the temperature, humidity, VOCs concentration)
Shelves	4 slide
Unit Weight	140 kg
Power Consumption	47 W
Lock system	Electro magnetic lock
Power	220 V / 60 Hz

※ Specification may change without notice to improve performance.

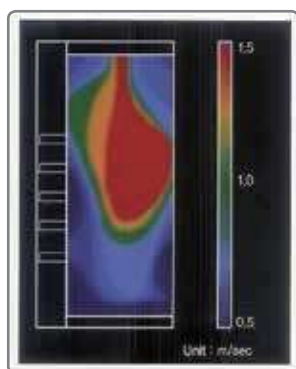
Acid / Base only / All poly propylene



Feature

It is enclosed, self-circulated type that no leaking air into the room.

It resolve the supersaturation of filter as polluted air and the causes of pollution in the filter, no loss of heating, cooling energy.



It is designed differential pressure to prevent overflow of air inside the reagent chamber.

- It is designed low pressure of -0.3pha inside the reagent chamber, polluted air is not discharge to the outside.
- Fluid velocity at the foot of reagent chamber is designed 0.53 m/s , no reverse flow of harmful gas or odor.

Detail



► ion-cluster

It remove the germs, Mold, odor, and disassemble harmful chemicals, no required filter exchange permanently.



► High-performance catalyst, absorbent, ceramic filter

It can be dedicated filter design about various VOCs and odors



► Magnetic lock

Electronic magnetic lock operated by touch screen /adsorption intensity: 270kgs

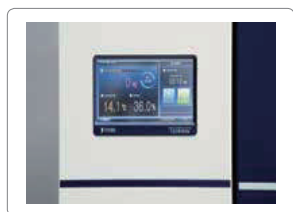


► Material

7mm polypropylene material, acid resistance, alkali resistance

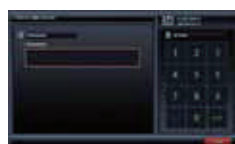
► Front door

Acrylic 6T for viewing reagent storage.

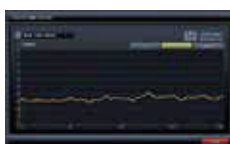


► 7 inch color touch screen

Display the temperature, humidity, VOCs concentration, graph, set the password



Password setting



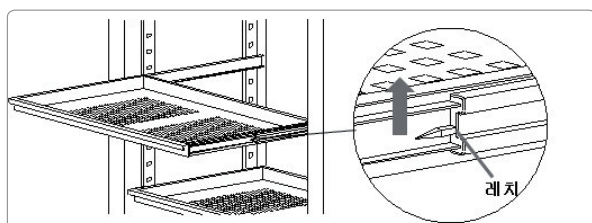
Temperature graph



VOCs graph



Humidity graph



► Height adjustment and slide shelves.

- Shelves can be adjusted according to the size of the reagent bottles, convenient to take out the reagent by adopting a slide type.
- To ensure the safety of the reagent, select the ratch method

Enclosed type
ion-cluster

Enclosed type
dissemination

Enclosed type
filter

Enclosed type constant
temperature/cold

Enclosed type

Discharge type
self-discharge

Discharge type central
HVAC

Acid/Base separation
type

Acid/Base

Combustible
cabinet

Combustible cabinet



894520



894500



893000



Set the self-circulated module

Combustible cabinet

- It maintain temperature of less than 162 degrees in case of fire (More than 10 minutes), completed the American Fire Test.
- It made by steel plate more than 1mm and air buffer structures more than 38 mm / It is suitable for indoor storage of flammable materials.
- Fire cabinet for organic solvents, flammable, flammable materials.
- It tightened safety by automatic door.

Specifications

Type	Combustible cabinet		
Standard/Model	894520	894500	893000
External Dimension WxDxH(mm)	1651 X 1092 X 457	1651 X 1092 X 457	1651 X 1092 X 457
Volume(L)	170 L	170 L	114 L
Unit Weight	137 kg	136 kg	100 kg
Door	Self-close	Manual	Manual
Shelves	2	2	1

※ Specification may change without notice to improve performance.

Possession certification

Enclosed type
ion-cluster

Enclosed type
dissemination

Enclosed type
filter

Enclosed type constant
temperature/cold

Enclosed type

Discharge type
self-discharge

Discharge type central
HVAC

Acid/Base separation
type

Acid/Base

Combustible
cabinet



1 CE certification - 1



2 CE certification - 2

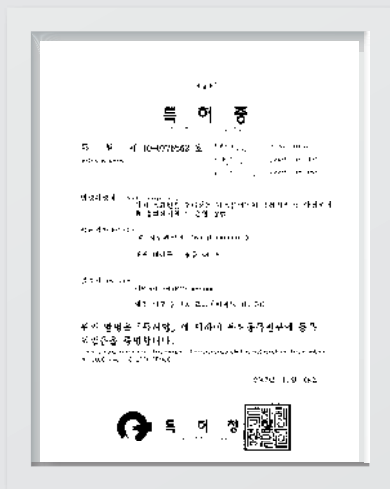


3 ISO9001



4 ISO14001

Possession certification





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