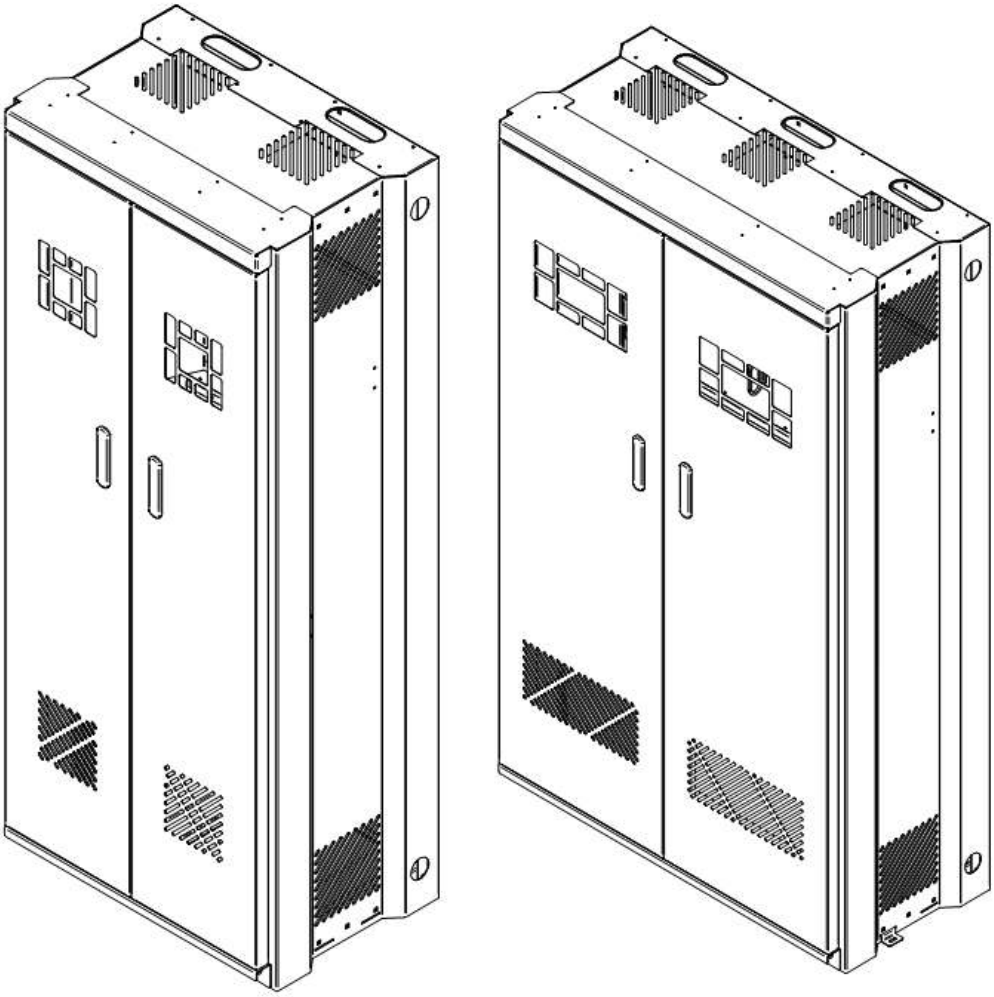
Lab Companion



# Operation Manual

# DUCO-SLIDE Cabinet

Model: DS-GC SERIES

Manual No.: F1070L002 Version:0.0

JEIO TECH

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**⚠WARNING**

Before using this product, read this entire Operator's Manual carefully. Users should follow all of the Operational Guidelines contained in this Manual and take all necessary safety precautions while using this product. Failure to follow these guidelines could result in potentially irreparable bodily harm and/or property damage

## Thank you for purchasing Jeio Tech's products.

Jeio Tech Co., Ltd. is committed to customer service both during and after the sale. If you have questions concerning the operation of your unit or the information in this manual, contact our Sales Department. If your unit fails to operate properly, or if you have questions concerning spare parts or Service Contracts, contact our Service Department.
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## Quality Management System

Jeio Tech Co, Ltd. is dedicated to providing world-best product quality and customer satisfaction. To ensure we maintain this commitment we have developed and implemented a total quality program, which conforms to the requirements according to DIN EN ISO 9001:2000 for the design, development, production, sales and servicing of biotechnology, environmental chemical engineering related products, and reliable measuring equipment for electric and electronics (ovens, incubators, constant temperature humidity chambers, constant temperature baths, refrigerating bath circulators, heat exchangers and shakers).

**Visit our Web site at http://www.jeiotech.com/eng/support/certificates.html to view a copy of our certificate.**

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# 1.0 Safety

## 1.1 How to use the Manual

Each individual must take responsibility for observing the prescribed safety rules as outlined. All caution, warning and danger labels must be observed and obeyed. All actual or potential danger areas must be reported to your immediate supervisor.

This manual describes the important subjects to maintain the product's functions and to use it safely.
Please keep this operating manual close to the cabinet to use it after reading through it once.
Please place it where the new user can find it easily for the safety use when you hand over or lend the cabinet to others.

## 1.2 Symbols used in this Manual

(1) This operating instruction uses the warning Signal Word for safe operation to prevent the users from accidents or damage beforehand.
(2) It defines warning marks according to the level of importance and danger in order to use the product safely and correctly.
(3) Be fully aware of the warning contents during use

| | |
|---|---|
| ⚠ DANGER | Indicates a hazardous situation which, if not avoided, will result in death or serious injury. |
| ⚠ WARNING | Indicates a hazardous situation which, if not avoided, could result in injury. |
| ⚠ CAUTION | Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury. |
| NOTICE | Indicates a property damage message. |



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## 1.3 Disclaimer

(1) In no event will Jeio Tech industries be liable for any incidental or consequential damages for breach of any implied warranty relating to the product.

(2) Any special indirect or consequential property or commercial damage of any nature whatsoever. Some cases do not allow the exclusion of incidental or consequential damages, so the above limitation may apply to you.

## 1.4 Warning statements

| ⚠WARNING |
| --- |
| Indicates a hazardous situation which, if not avoided, could result in death or serious injury. |

Observe all warning labels.

DO NOT remove warning labels.

DO NOT put explosive and flammable chemicals (Alcohol, Benzene, and etc) into the unit.

DO NOT expose the cabinets to direct sunlight.

DO NOT expose the cabinets to direct heat sources.

DO NOT use the cabinets in places where moisture is high and flooding can occur.

DO NOT install the cabinets near machinery generating high frequency noise.

DO NOT use the cabinets when there is strange sound, smell and smoke coming from the unit.

DO NOT disassemble, fix or change the cabinets other than for those items described in this operating manual

## 1.5 Caution statements

| ⚠ CAUTION |
| --- |
| Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury. |

DO NOT use doors, handles or knobs to lift or stabilize the unit.

DO NOT place heavy objects on the power cord.

DO NOT pour water or put liquid on the cabinets when cleaning the unit.

DO NOT make the cabinet wet while cleaning

DO NOT sprinkle insecticide or flammable spray on the cabinets.

DO NOT clean the cabinets with a strong cleanser (e.g., solvent type) and use a soft cloth.



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# 2.0 Functional Description

## 2.1 Introduction

This product is constructed progressively strong, and for storage of Gas Cylinders.

- In schools, researchers, hospital pharmaceutical, food, textile, chemical, cosmetic companies everywhere, you can use the product to keep high pressure gas cylinders.
- Plastic chains prevents gas cylinders from fall.
- Locking mechanism for protection.

## 2.2 Feature

| | Feature | |
|---|---|---|
| SAFETY | | Epoxy powder coated surface for high protection against corrosion and chemicals. |
| SAFETY | | Locking mechanism for protection. |
| SAFETY | | Spark proof plastic chains convenient for securing gas cylinders in place, prevents gas cylinders from getting scratched. |
| SAFETY | | This product is constructed with epoxy powder steel and polyethylene powder. So, a breakdown of all the components is easy. It is recyclable and the environmentally friendly. |



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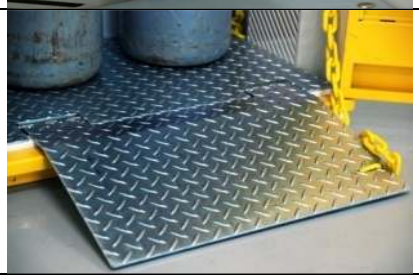
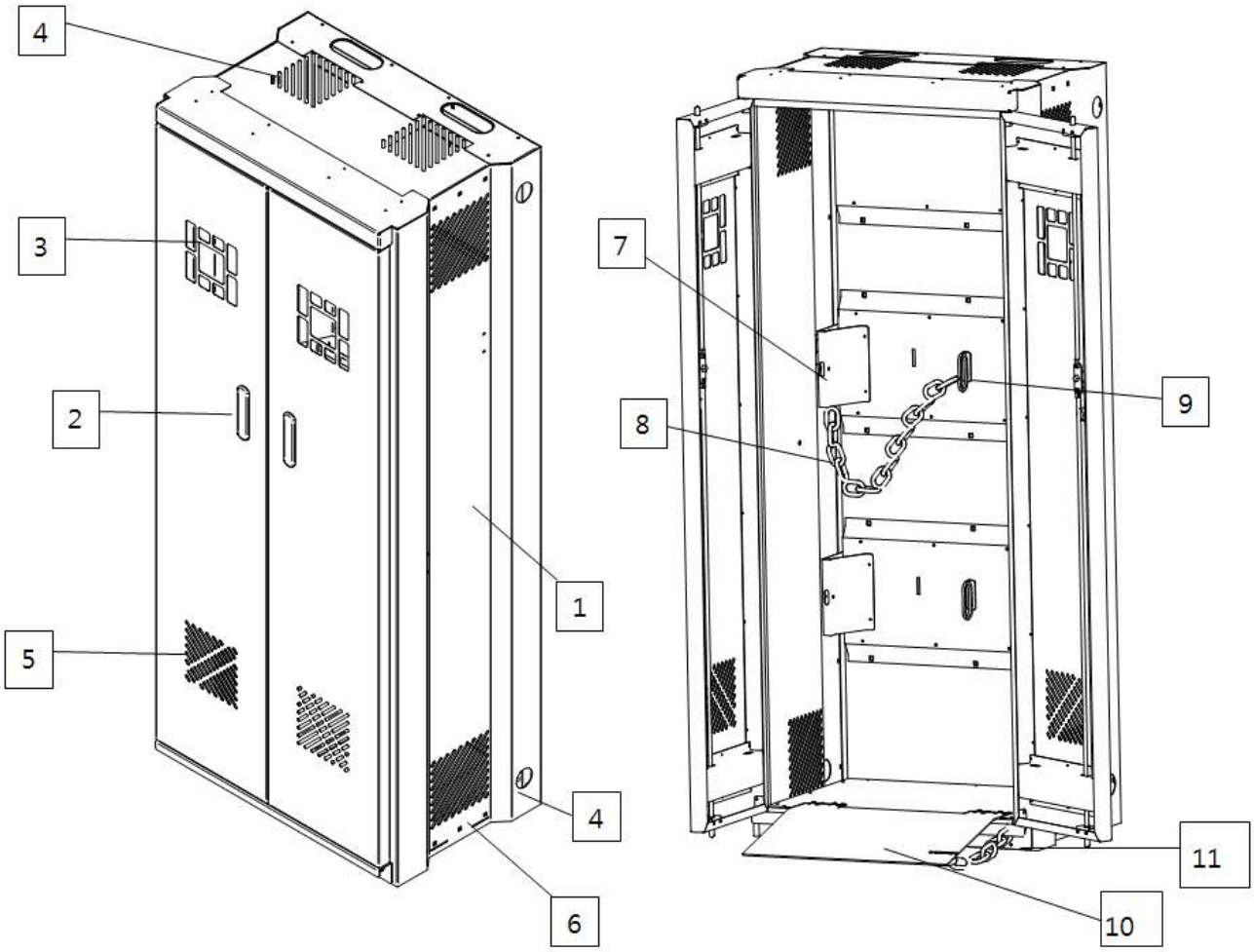
| | Feature | |
|---|---|---|
| SAFETY | | All tall cabinets include anchoring kits to fix the cabinet to the floor to prevent the cabinet from tipping over |
| SAFETY | | Fixing hoop for trap to protect a user. |
| EASE | | By viewing window, a user can check the inside regulator without door open. |
| EASE | | A removable handle can be adjusted depending on the size of them by the removable handle that is ergonomically designed. |
| EASE | | There is window which a user can put gas pipe and tube in. |
| EASE |  | Wide fold down ramp, safe and easy to maneuver gas cylinders in and out of the cabinet, easy to install gas fittings and pipes. |

## 2.3 Structure




(1) Body
(2) Door Handle & Key Lock
(3) Viewing window
(4) Pipe hole
(5) Vents
(6) Anchor Insertion
(7) Gas cylinder positioning guide
(8) Tumble prevention safety chain for gas cylinder
(9) Gas cylinder positioning handle
(10) Folding Ramp
(11) Safety chain for folding ramp



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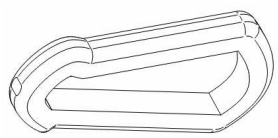
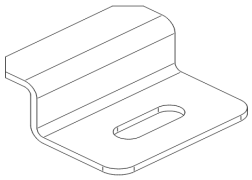
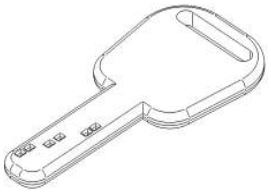
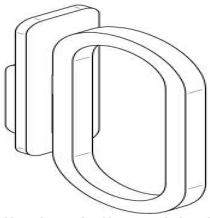
# 3.0 Installation

## 3.1 Unpacking and damage inspection

(1) Check to see that the unit is not damaged before unpacking.
(2) Unpack the unit carefully.
(3) After unpacking, please check the contents to ensure you have received all of the following components.
(4) Inspect to see that the unit is not damaged during transportations.
(5) If noticeable damage or an omission is found, immediately notify the shipper and contact your local Jeio Tech dealer's Service Department.

| COMPONENT & QUANTITY | | |
|---|---|---|
| COMPONENT | DS-GC-18407-N2 | DS-GC-18107-N2 |
|  biner | 2EA | 4EA |
| Chain | 5EA | 7EA |
|  Anchor | 4EA | 4EA |
|  Key | 4EA | 4EA |
|  Gas Cylinder Adjustable handle | 2EA | 4EA |



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## 3.2 Preparing before installation

### 3.2.1 Environmental setting

This cabinet series operate properly under the following environmental conditions.

.

No direct sunlight on cabinets.

Ambient temperature: 50 ℃to 40 ℃ (41 ℉to 104 ℉)

Relative humidity not to exceed 80%.

Altitude not to exceed 2000m (6,562 feet)

### 3.2.2 Product installation.

When you set up the unit, fix unit using anchor on the floor more strong install and earthquake situation.

(1) Do not expose the cabinet to direct heat sources.
(2) Do not install near engine room, steam, hot water, and pipes.
(3) Do not install where electrically conductive place.
(4) Do not install near switchboard and the place of the risk of electric spark.
(5) Do not install emergency gate or frequent walk place.

**⚠WARNING**

Do not install around heat source.
Initialized horizontality place

### 3.2.3 Leveling the unit

The floor should be level, and of solid construction without any vibration, or Shock.

## 3.3 Initial Start-up

### 3.3.1 Pre start-up checks

(1) Make sure that cabinet maintain level.
(2) Make sure that cabinet is fix on the floor, strongly.
(3) Make sure there are no flammable or explosive materials on the Cabinets and around.



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# 4.0 Operation

## 4.1 Notice

(1) Our Gas cabinet should be used for the other purpose except general compressed gas cylinder storage.

(2) Do not keep oxidative material & hazardous gas in the cabinet.

(3) Do not keep flammable gas in the cabinet; put it in excusive safety cabinet.

(4) High pressure gas should be in safety storage to preventing from damage of cylinder of valve, hose and connection parts in case of leaving it alone indoor.

(5) Do not put it close to source of ignition which can be happened by evaporation, adiabatic compression, high temperature surface, shock, friction and electrical spark around cylinder.

(6) Do not leave flammable material alone around gas cylinder.

(7) Any parts of gas cylinder should not over 51℃.

(8) Do vandalize regularly to reduce dangerous explosion due to staying gas if there is no separate exhaust system.

(9) Be careful your feet when you pull folding ramp down.
(If you hang the safety chain, it can be prevented from falling down suddenly.)

**⚠ DANGER**

Specialist has to check the installation in case of using gas.
Leakage of gas has to be checked regularly.
Explosion or fire can be happened on leakage of flammable gas.



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# 5.0 Maintenance

## 5.1 Periodic Time of Cleaning.

Product must be cleaned periodically to maintain it in the best condition. In addition, it can be used more efficiently and may extend the life of the product. Please follow the procedure to clean up.

## 5.2 Cleaning

### 5.2.1 Cleaning product

☞ General Condition

Please clean it with soft cloth,. Do not use materials such as metal brush which could harm to the products.

☞ Contaminated Condition.

In case of the product is contaminated with toxic chemicals or toxic gas, please clean up as following procedure.

Step 1: Please wear chemical resistant gloves and mask.
Step 2: Clean the surface of product slowly with soft cloth.



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# 6.0 Appendix

## 6.1 Technical Specifications

| Model No | | DS-GC-18074-N2 | DS-GC-18107-N2 |
|---|---|---|---|
| Dimension(mm) (W x D x H) | | 740 x 550 x 1800 | 1070 x 550 x 1800 |
| Net Weight(kg) | | 107 | 140 |
| Number of Gas Cylinder | | 2 | 3 |
| Material | Body | Steel(Epoxy powder coating), White | |
| | Door | Steel(Epoxy powder coating), Yellow | |
| | Handle | Zinc Allloys (Velours Plating), Black | |
| | Safety Chain | Polyethylene, Yellow | |
| | Folding Ramp | Steel (Chromium plating) | |

## 6.2 Disposing of Cabinets

Before disposing of cabinets or any of its components:

(1) The equipment should be cleaned and decontaminated to protect workers servicing the equipment, the environment or the public purchasing surplus equipment because cabinets can potentially be contaminated with biological material, chemicals or radioisotopes. Check with your institution or laboratory for individual policies and procedures for disposal of laboratory equipment.

(2) Please contact your local governing body for regulations regarding disposal of electrical, electronic, metal (brass, aluminum, steel and stainless steel), refrigeration and rubber components. Jeio Tech recommends the user find a local scavenger or laboratory equipment recycler to properly dispose of the unit and its components.



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## 6.3 Warranty

### 6.3.1 Terms of Warranty Service

Customer can get free warranty service for 2 years limited warranty from the date of purchase when the machine is broken while operating.

### 6.3.2 Warranty Exceptions

Customer can't get free warranty service in case of as below.

(1) If the cabinet is broken due to the Act's of God.
(2) If the cabinet is broken due to overuse of voltage.
(3) If there is some shock to the cabinet.
(4) If the outer part is damaged by solvent.
(5) If the cabinet is broken without taking care of the "Notice" alerted on the manual.
(6) If persons who are not under the authority of service of Jeio tech fixed or changed parts of the cabinet.
(7) If the broken cabinet is due to customer's fault.

### 6.3.3 How to Request Services

If you face troubles during operating a product, please fill a service application as below and contact headquarters or authorized agents for the fast and accurate repair.

(1) Purchase date
(2) Customer name / Address / Telephone NO. / E-mail Address
(3) Serial Number (Serial number on Identification plate.)
(4) Defect and trouble

### 6.3.4 Product Return Procedures

If you want to return the product due to transportation-related corruption and other reasons, please receive a return authorization number from the authorized agent which you purchased the product. When you return a product, please fill the return service application as below and send it to headquarters or authorized agents.

(1) Purchase date
(2) Customer name / Address / Telephone NO. / E-mail Address
(3) Serial Number (Serial number on Identification plate.)
(4) Forwarder's information
(5) Return Authorization Number
(6) Reason of Return

## 6.4 Service contact

**International Sales Head Office (Korea)**

#1005, Byucksan Digital Valley 6-Cha, 481-4 Gasan-Dong, Geumcheon-Gu, Seoul 153-704, Korea
Tel: +82 2 2627 3816
FAX: +82 2 3143 1824
E-mail: overseas@jeiotech.com

**The Americas (U.S.A. Branch)**

1-A Gill St. Woburn, MA 01801, U.S.A.
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FAX: +1 781 376 0704
E-mail: info@jeiotech.com

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FAX: +44 1865 400736
E-mail: labcompanion@medlinescientific.com

**China (Shanghai Branch)**

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FAX:+86 21 3251 1083
E-mail: longjuncao@jeiotech.com

**South East Asia (Malaysia Branch)**

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FAX: +60 3 6028 5822
E-mail: labcomp@streamyx.com

The contents of the operation manual could be changed without notice for product.



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