# SERVICE TECHNICAL BULLETIN

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|---|---|---|---|
| **Document No:** | **STB-2019-CO2-037** | **Revision:** | **A** |
| **Date:** | **09-April-2019** | **ECN Reference (if any)** | **ECN-CO2-19-002** |
| **Subject** | Implementation of CO2 Incubator basic operation guide label | | |
| **Models Affected** | All CCL-50/170/240 and CLM-170/240 models | | |

## Purpose of Bulletin

- ☐ Product Enhancement
- ☐ Regulatory Agency Requirement
- ☐ Replacement of Obsolete Component
- ☒ Others: **Brief information for end users on the proper usage of Esco CO2 Incubators**

## Description

Detailed information on the proper usage of Esco CO2 Incubator has been provided in the user manual; however, it has come to our attention that many end users still fail to follow the instructions from this document resulting to issues that could have been avoided if the unit is used as recommended. As an additional guide, Esco now affixed a basic operation guide label on the unit so that all users can conveniently refer to it when using the incubator. After installation of Esco CO2 incubator, Service Engineers should make use of the labels to train the user on proper usage.

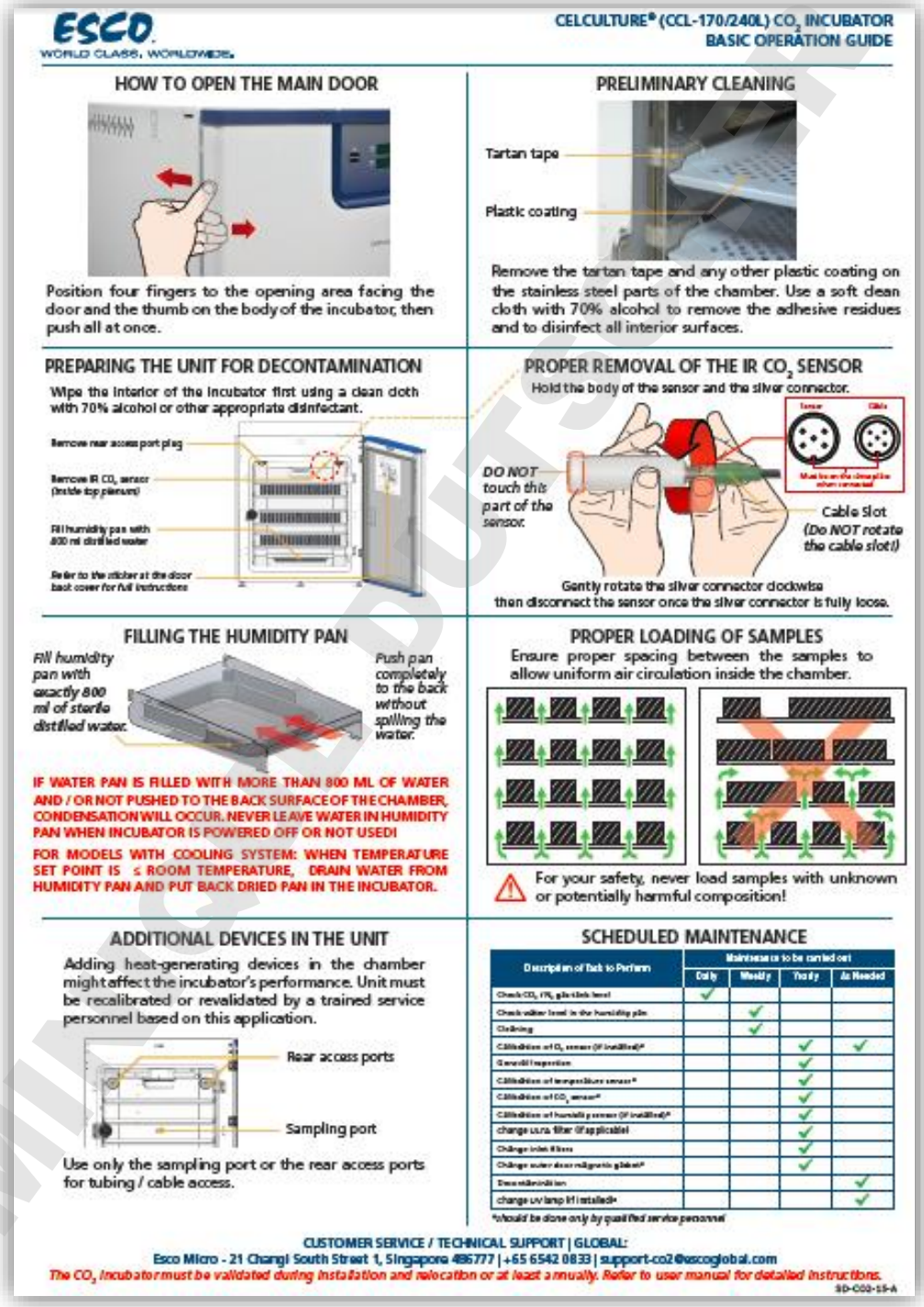
The label is pasted on front of the CO2 incubator door for easy reference.




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There are 3 different types of the $CO_2$ Incubator basic operation guide label based on the model and size, as shown below:

1. CelCulture® (CCL-170/240L) $CO_2$ Incubator Basic Operation Guide




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# 2. CelMate® (CLM-170/240L) $CO_2$ Incubator Basic Operation Guide

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**CELMATE® (CLM-170/240L) $CO_2$ INCUBATOR BASIC OPERATION GUIDE**

## HOW TO OPEN THE MAIN DOOR



Position four fingers to the opening area facing the door and the thumb on the body of the incubator, then push all at once.

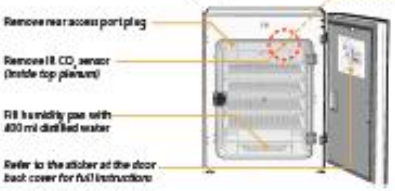
## PRELIMINARY CLEANING




Remove the tartan tape and any other plastic coating on the stainless steel parts of the chamber. Use a soft clean cloth with 70% alcohol to remove the adhesive residues and to disinfect all interior surfaces.

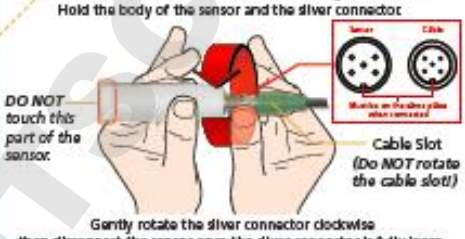
## PREPARING THE UNIT FOR DECONTAMINATION

Wipe the interior of the incubator first using a clean cloth with 70% alcohol or other appropriate disinfectant.



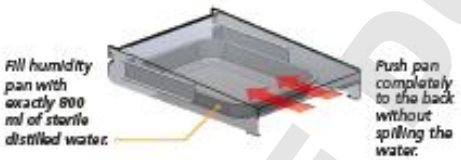

## PROPER REMOVAL OF THE IR $CO_2$ SENSOR

Hold the body of the sensor and the silver connector




Gently rotate the silver connector clockwise then disconnect the sensor once the silver connector is fully loose.

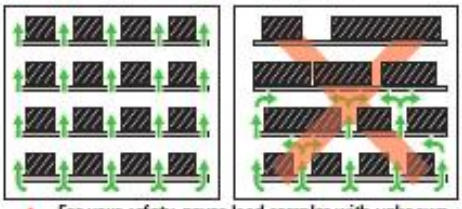
## FILLING THE HUMIDITY PAN




**IF WATER PAN IS FILLED WITH MORE THAN 800 ML OF WATER AND / OR NOT PUSHED TO THE BACK SURFACE OF THE CHAMBER, CONDENSATION WILL OCCUR. NEVER LEAVE WATER IN HUMIDITY PAN WHEN INCUBATOR IS POWERED OFF OR NOT USED!**

## PROPER LOADING OF SAMPLES

Ensure proper spacing between the samples to allow uniform air circulation inside the chamber.



⚠ For your safety, never load samples with unknown or potentially harmful composition!

## ADDITIONAL DEVICES IN THE UNIT

Adding heat-generating devices in the chamber might affect the incubator's performance. Unit must be recalibrated or revalidated by a trained service personnel based on this application.




Use only the sampling port or the rear access ports for tubing / cable access.

## SCHEDULED MAINTENANCE

| Description of Task to Perform | Maintenance to be carried out | | | |
|---|---|---|---|---|
| | Daily | Weekly | Yearly | As Needed |
| Check $CO_2$ / $H_2O_2$ gas tank level | ✓ | | | |
| Check water level in the humidity pan | | ✓ | | |
| Cleaning | | ✓ | | |
| Calibration of $O_2$ sensor (if installed)* | | | ✓ | ✓ |
| Overall inspection | | | ✓ | |
| Calibration of temperature sensor* | | | ✓ | |
| Calibration of $CO_2$ sensor* | | | ✓ | |
| Calibration of humidity sensor (if installed)* | | | ✓ | |
| change uv-c filter (if applicable) | | | ✓ | |
| Change inlet filters | | | ✓ | |
| Change water door magnetic gasket* | | | ✓ | |
| Decontamination | | | | ✓ |
| change uv lamp (if installed)* | | | | ✓ |

*should be done only by qualified service personnel

CUSTOMER SERVICE / TECHNICAL SUPPORT | GLOBAL:
Esco Micro - 21 Changi South Street 1, Singapore 486777 | +65 6542 0833 | support-co2@escoglobal.com

*The $CO_2$ incubator must be validated during installation and relocation or at least annually. Refer to user manual for detailed instructions.*

SD-CO2-16-A

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# 3. CelCulture® (CCL-50L) $CO_2$ Incubator Basic Operation Guide

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**CELCULTURE® (CCL-050) $CO_2$ INCUBATOR BASIC OPERATION GUIDE**

## HOW TO OPEN THE MAIN DOOR



Position four fingers to the opening area facing the door and the thumb on the body of the incubator, then push all at once.

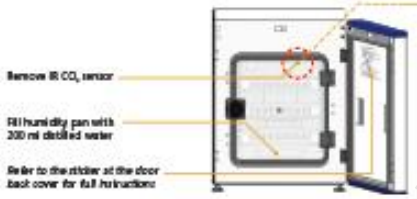
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## PREPARING THE UNIT FOR DECONTAMINATION

Wipe the interior of the incubator first using a clean cloth with 70% alcohol or other appropriate disinfectant.




## PROPER REMOVAL OF THE IR $CO_2$ SENSOR

Hold the body of the sensor and the silver connector.




Gently rotate the silver connector clockwise then disconnect the sensor once the silver connector is fully loose.

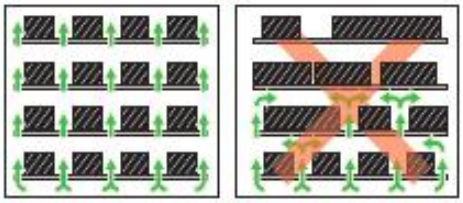
## FILLING THE HUMIDITY PAN




**IF WATER PAN IS FILLED WITH MORE THAN 400 ML OF WATER AND / OR NOT PUSHED TO THE BACK SURFACE OF THE CHAMBER, CONDENSATION WILL OCCUR. NEVER LEAVE WATER IN HUMIDITY PAN WHEN INCUBATOR IS POWERED OFF OR NOT USED!**

## PROPER LOADING OF SAMPLES

Ensure proper spacing between the samples to allow uniform air circulation inside the chamber.



⚠ For your safety, never load samples with unknown or potentially harmful composition!

## ADDITIONAL DEVICES IN THE UNIT

Adding heat-generating devices in the chamber might affect the incubator's performance. Unit must be recalibrated or revalidated by a trained service personnel based on this application.




Use only the sampling port or the rear access port for tubing / cable access.

## SCHEDULED MAINTENANCE

| Description of Task to Perform | Maintenance to be carried out | | | |
|---|---|---|---|---|
| | Daily | Weekly | Yearly | As Needed |
| check $CO_2$ / $N_2$ gas tank level | ✓ | | | |
| check water level in the humidity pan | | ✓ | | |
| cleaning | | ✓ | | |
| calibration of $O_2$ sensor (if installed)* | | | ✓ | ✓ |
| general inspection | | | ✓ | |
| calibration of temperature sensor* | | | ✓ | |
| calibration of $CO_2$ sensor* | | | ✓ | |
| calibration of humidity sensor (if installed)* | | | ✓ | |
| change u.v.c. filter (if applicable) | | | ✓ | |
| change inlet filters | | | ✓ | |
| change outer door magnetic gasket* | | | ✓ | |
| decontamination | | | | ✓ |

*should be done only by qualified service personnel

**CUSTOMER SERVICE / TECHNICAL SUPPORT | GLOBAL:**
Esco Micro - 21 Changi South Street 1, Singapore 486777 | +65 6542 0833 | support-co2@escoglobal.com
*The $CO_2$ incubator must be validated during installation and relocation or at least annually. Refer to user manual for detailed instructions.*
SD-CO2-14-A

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**Implementation Date:**
**16-March-2019**

**Serial Number of First Unit upon Implementation:**
**CCL-240B-8 Serial No.2019-137930**

## Questions

| | |
|---|---|
| Q1 | How do I get the sticker? |
| Ans. | Please order the stickers using the following item codes:<br>1010369 - Basic Operation Guide Label CCL-050L<br>1010370 - Basic Operation Guide Label CCL-170/240L<br>1010371 - Basic Operation Guide Label CLM-170/240L |
| Q2 | How do I stick the label on the unit? |
| Ans. | Firstly clean the surface of the main door with alcohol then carefully paste it onto the cleaned and dried surface. |
| Q3 | What solution can be used to clean the label? |
| Ans. | It is recommended to use 70% alcohol |

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