SERVICE TECHNICAL BULLETIN

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.

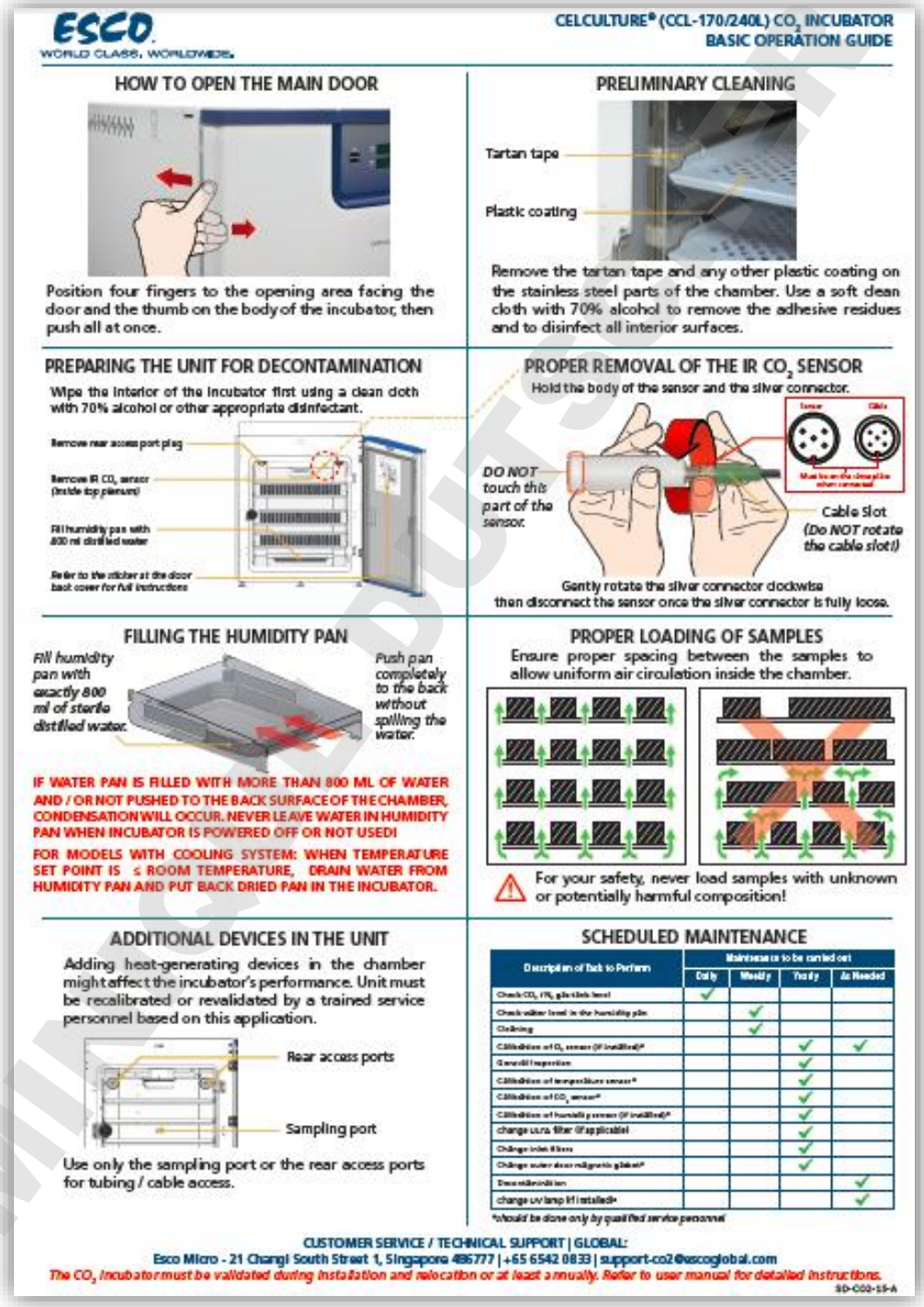
The label is pasted on front of the CO2 incubator door for easy reference.



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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

ESCO
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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.

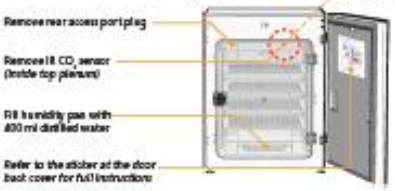
PRELIMINARY CLEANING



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.

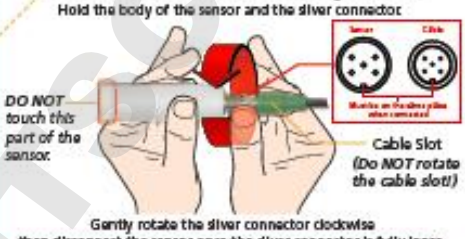
PREPARING THE UNIT FOR DECONTAMINATION

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



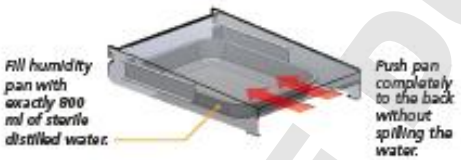
PROPER REMOVAL OF THE IR CO_2 SENSOR

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.

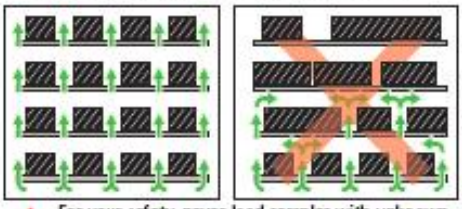
FILLING THE HUMIDITY PAN



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

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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

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

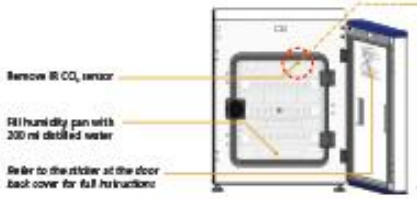
PRELIMINARY CLEANING



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.

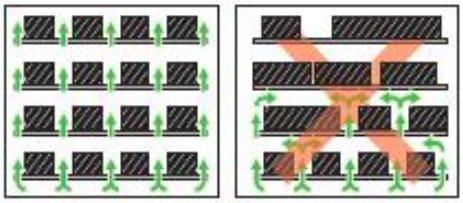
FILLING THE HUMIDITY PAN



IF WATER PAN IS FILLED WITH MORE THAN 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

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ADDITIONAL DEVICES IN THE UNIT

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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

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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: 1010369 - Basic Operation Guide Label CCL-050L 1010370 - Basic Operation Guide Label CCL-170/240L 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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