

**Thermo Scientific**  
**Heracell VIOS 250i**  
**Heracell VIOS 250i LK**  
**Heracell Vios 250i CR**  
**Forma Steri-Cycle i250**  
**Forma Steri-Cycle i250 LK**  
**Forma Steri-Cycle i250 CR**

*CO<sub>2</sub> Incubators*

Supplement to Operating Instructions 50144132, 50162744, 50163129,  
50144829, 50162762 and 50163206

For Cell Factory Container Shelf Accessory

50165599

December 2021

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## Preface

### General Notes

### Instruction of the Operating Personnel

These operating instructions describe the shelf kit for the CO<sub>2</sub> incubators *Heracell Vios 250i*, *Heracell Vios 250i LK*, *Heracell Vios 250i CR*, *Forma Steri-Cycle i250* and *Forma Steri-Cycle i250 CR*. The shelf kit has been manufactured in keeping with the latest technological developments and is operationally safe. However, the device may present potential hazards, particularly if the device is operated by inadequately trained personnel or if it is not used in accordance with the intended purpose. Therefore, the following must be observed to prevent accidents:

- The CO<sub>2</sub> incubator must be operated only by trained and authorized personnel.
- For any operation of this device, the operator must prepare clear and concise written instructions in the language of the operating and cleaning personnel based on these operating instructions, applicable safety data sheets, plant hygiene guidelines, and technical regulations, in particular:
  - which disinfection measures are to be applied for the device and accessories,
  - which protective measures apply when specific agents are used,
  - the measures to be taken in case of accidents,
  - which precautions and rules of conduct are necessary when entering and working in a clean room.
- Repairs to the device must be carried out only by trained and authorized expert personnel.

### Applicability of the Instructions

#### Original Document for Translation

- The contents of the supplement instructions are subject to change without further notice.
- In case of conflicting translations into foreign languages the German-language version of these supplement instructions shall be binding.

#### Instructions to be used

- Keep these supplement instructions and the related operating instructions close to the device so that safety instructions and important information are always accessible.

Should you encounter problems that are not detailed adequately in these supplement instructions and the related operating instructions, please contact Thermo Scientific immediately for your own safety.

# Explanation of Safety Information and Symbols

## Safety Information and Symbols used in the Operating Instructions



**WARNING** Indicates a hazardous situation which, if not avoided, could result in death or serious injuries.



**CAUTION** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injuries.



**CAUTION** Indicates a situation which, if not avoided, could result in property damage.

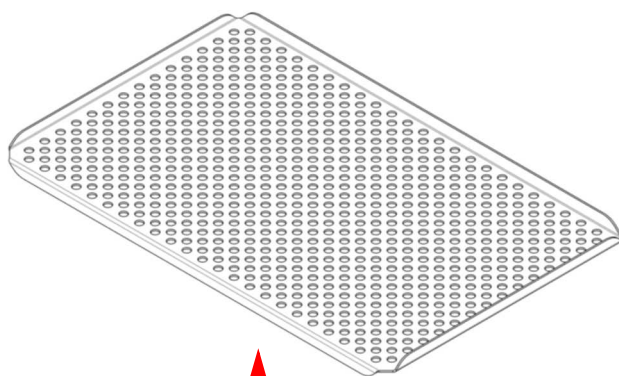
**Note** Is used for application hints and useful information.

## Design of the equipment

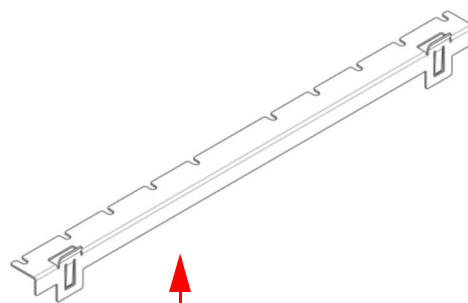
The shelves kit is designed for Cell Factory 4 and Cell Factory 10 container.

## Scope of Delivery

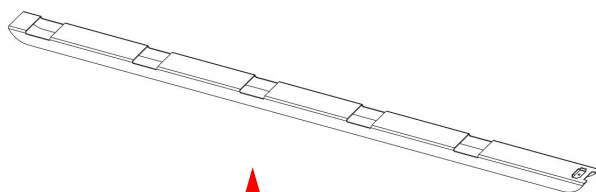
**VIOS + CF 4**



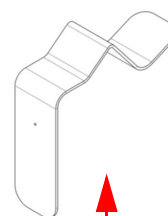
5 x 50166354 Shelf



10 x 50166352 Guiding rail

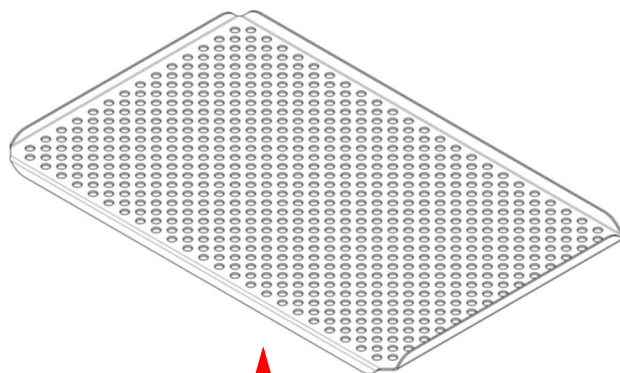


4 x 50166353 Pilaster

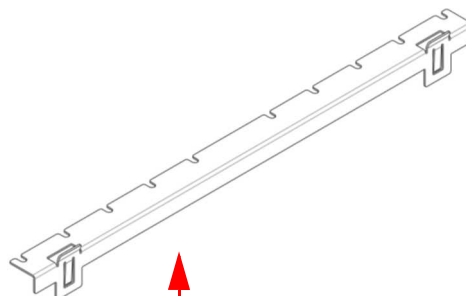


4 x 50050922 Pilaster spring

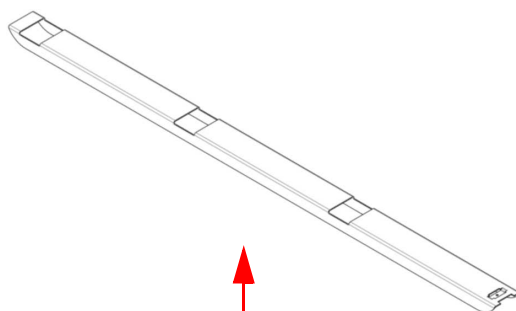
## VIOS + CF 10



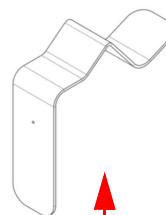
3 x 50166354 Shelf



6 x 50166352 Guiding rail



4 x 50166355 Pilaster



4 x 50050922 Pilaster spring

## Installation

**Note**

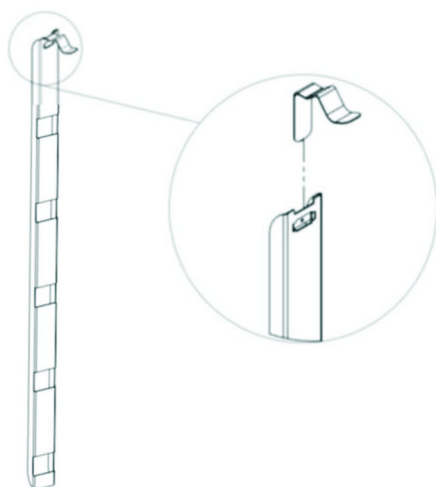
The parts are delivered with a protective foil. To remove the protective foil more easily warm-up the parts slightly.

**Preparing the pilasters**

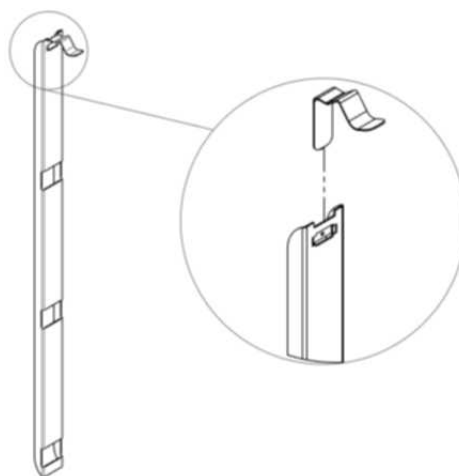
The complete pilaster consist of the base pilaster and the pilaster spring.

- Insert the pilaster spring into the upper opening of the base pilaster, so it snaps in.

CF 4



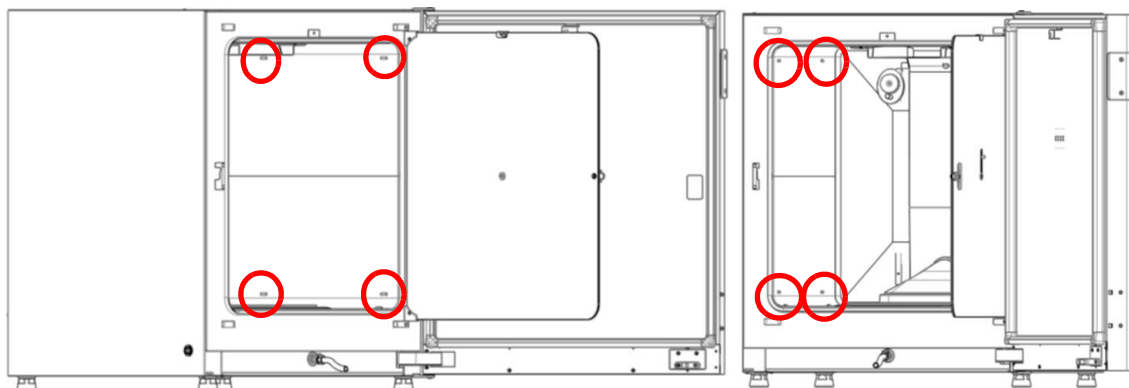
CF 10



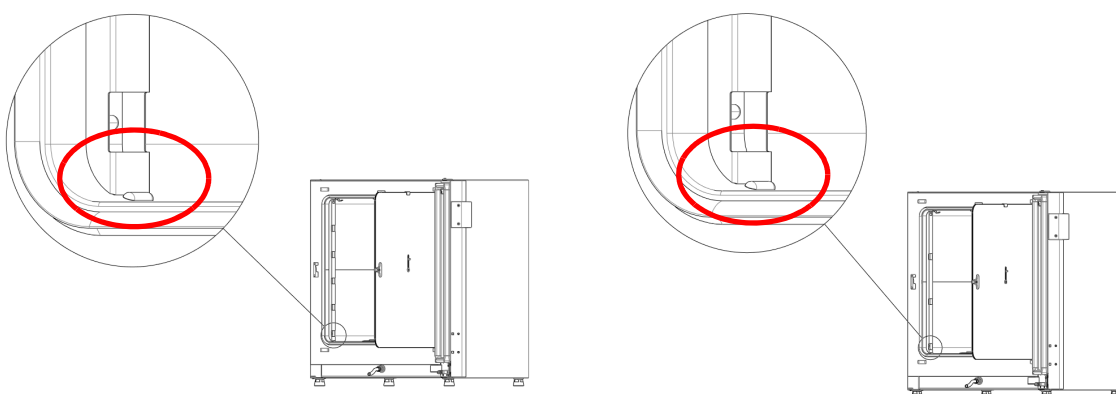


### Insert the pilasters

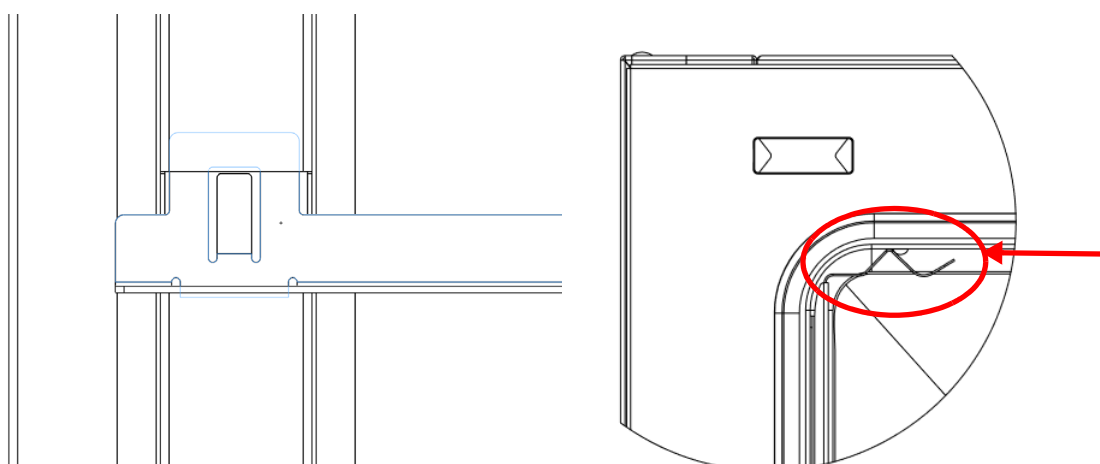
- In the inner chamber there are embossings for 4 pilaster.



- Place the pilaster in the lower embossing.

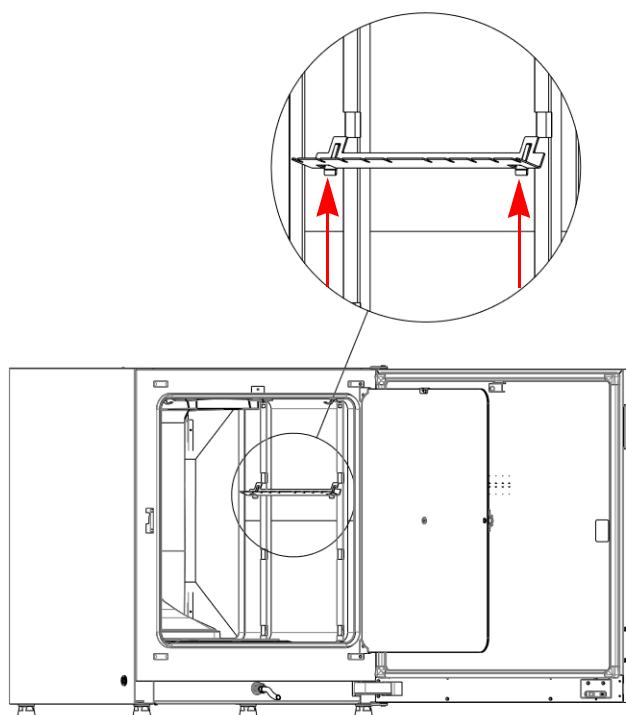


- Snap in or push in the pilaster in the upper embossing.

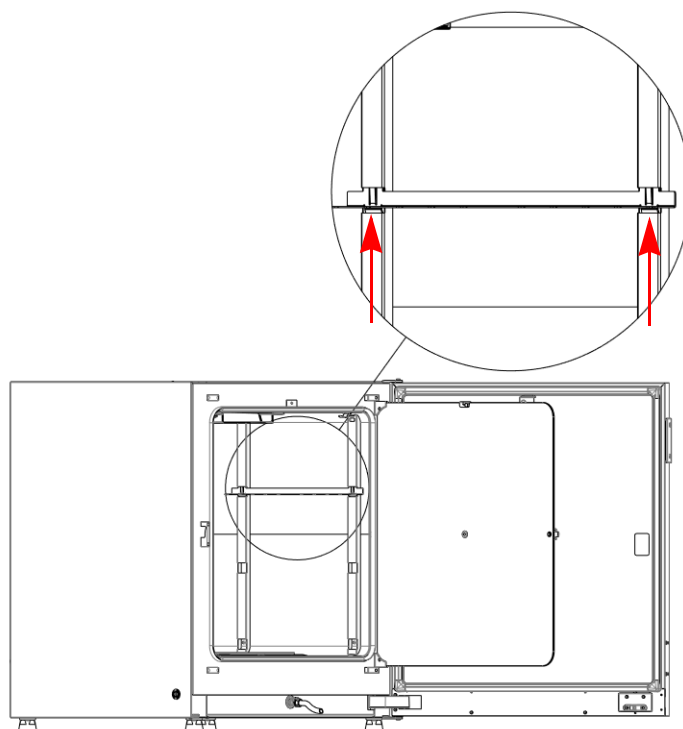


**Insert the guiding rails**

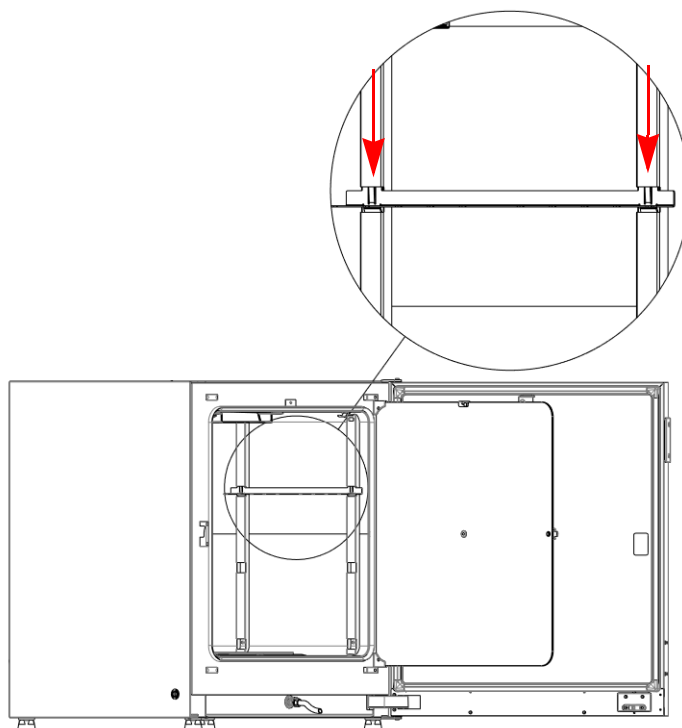
- The positioning of the 4 guiding rails are important. There are 2 left and 2 right side guiding rails. The longer end of the guiding rail should show to the rear side of the chamber.
- Fit in the guiding rail in an angle, in the picture below a right side guiding rail is shown as an example.



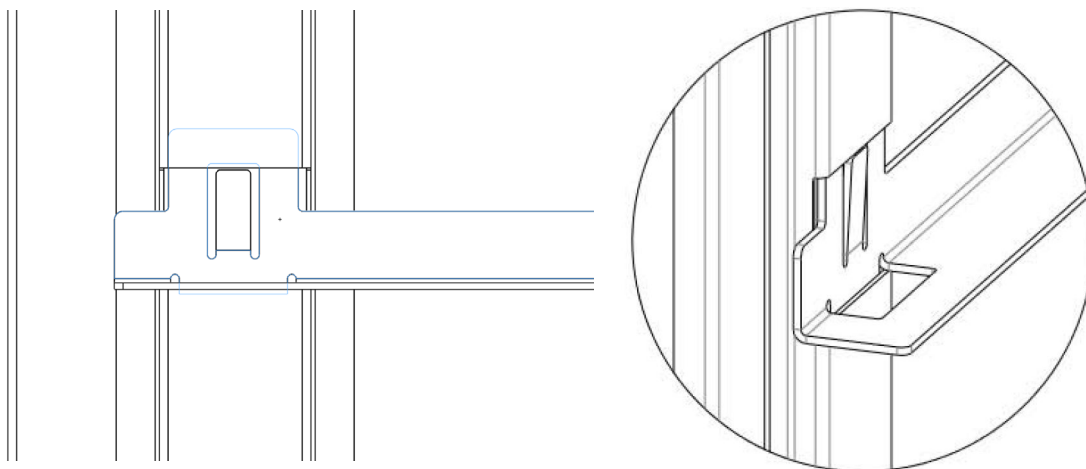
- Lift it upwards.



- Press it downwards.



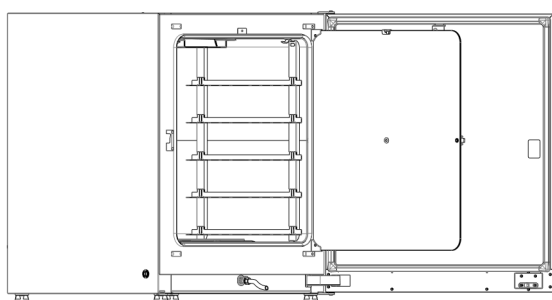
- The tongue/latch must snap in.



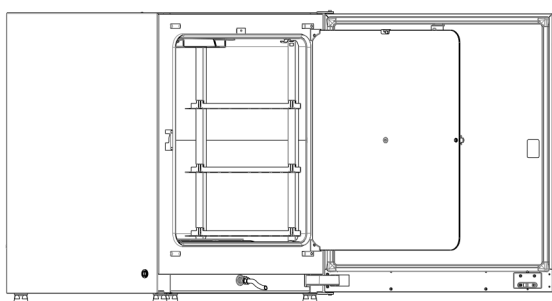
- Repeat the above step for the other guiding rails.

The inner chamber with installed guiding rails.

CF 4

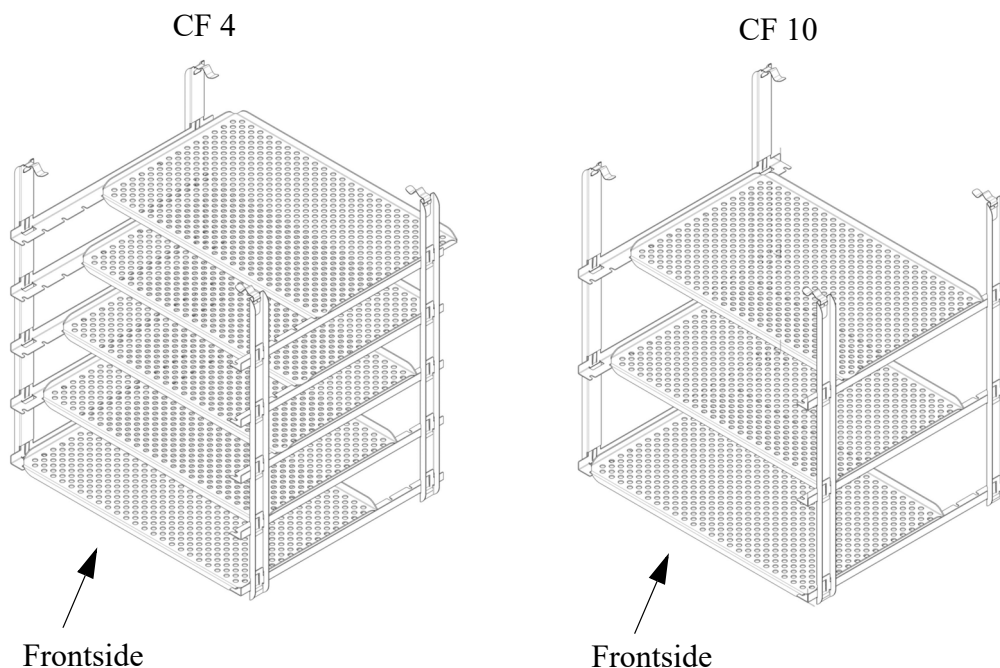


CF 10



### Inserting the shelves

- Use one shelf for the lowest shelf position
- Then 4 shelves for upper shelf positions CF 4 and 2 shelves for CF 10.
- Insert the shelves staggered in reversed order, so the shelves fit in the slots of the guiding rails.

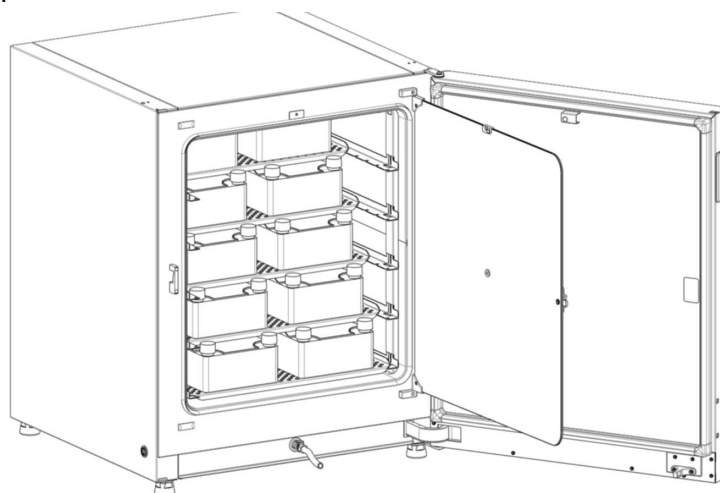


The fully installed shelves.

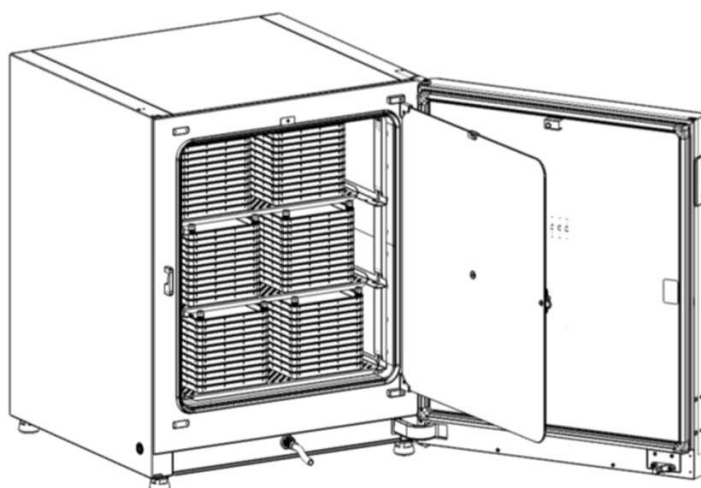
### Loading the Cell Factory Container

- At each of the shelves 2 container can be loaded.
- The filling openings must be set to the front.

CF 4



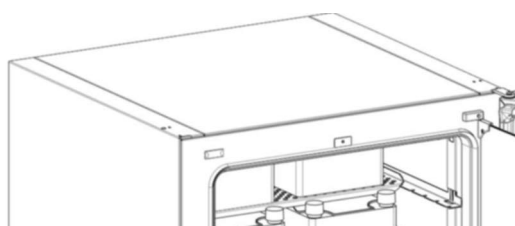
CF 10



The fully loaded incubator.

### Loading the Cell Factory Container 4

If CF 4 container are used in the top layer, the containers can be arranged also in another way. The containers can be placed one horizontal and one vertical



#### Note

Due to the limited space, the loading of the unit with containers need to be done properly according the arrangement shown in the pictures. Even if you load according to the picture, it might be needed to fine-tune the arrangement to close the glass door. The containers should not touch the glass door. Please close the glass door in the first step very carefully to check if the arrangement fits and the glass door can be closed and secured by the glass door lock.

## Operation

**Note**

Shelves are not designed to be pulled out.

Containers must be taken out individually.

## Performance Hints

**Note**

Use only pre-heated containers with media to avoid long process stabilization time.

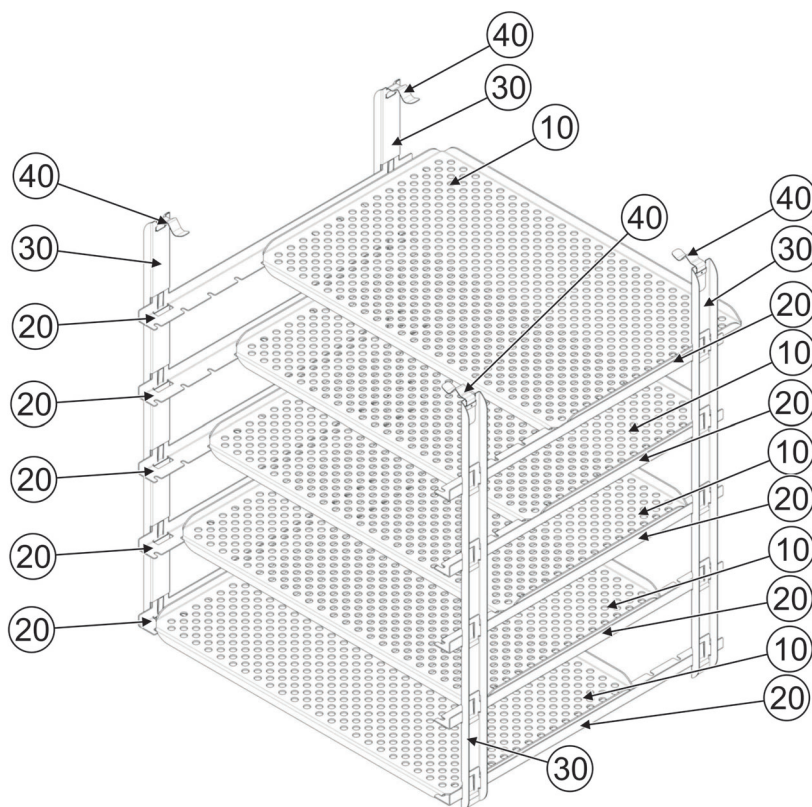
The temperature of the preheated container with medium must not be above the set incubator temperature, otherwise the usable space temperature may overshoot and a temperature alarm may occur.

The customer must verify his application process himself.



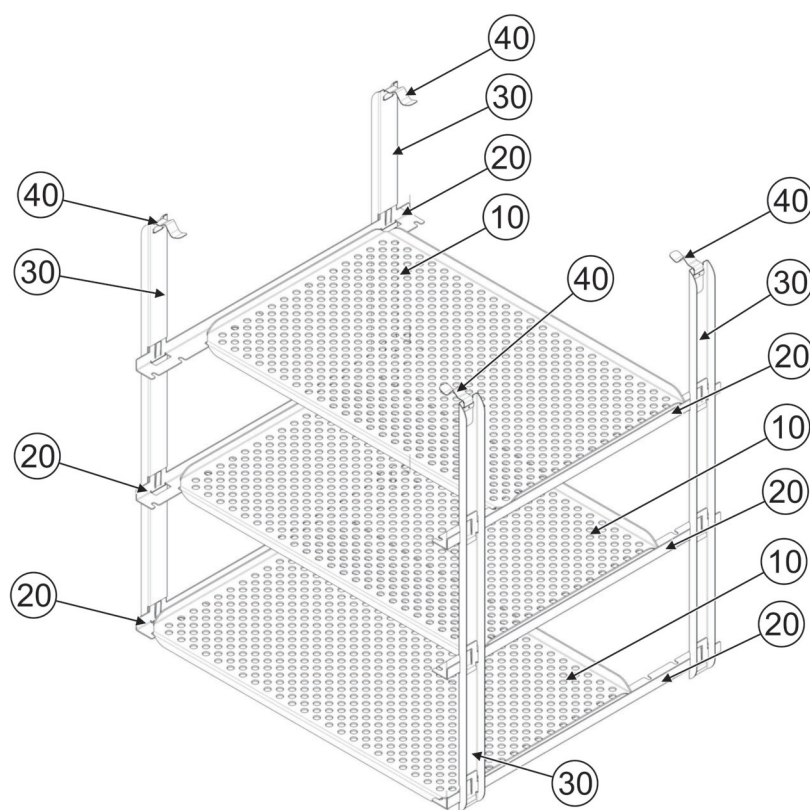
## Parts overview

CF 4



Pos.	Part-No.	Description	Qty
10	50166354	Shelf CF4/CF10 VIOS 250	5
20	50166352	Guiding rail CF4/CF10 VIOS	10
30	50166353	Pilaster CF4 VIOS	4
40	50050922	Pilaster spring	4

CF 10



Pos.	Part-No.	Description	Qty
10	50166354	Shelf CF4/CF10 VIOS 250	3
20	50166352	Guiding rail CF4/CF10 VIOS	6
30	50166355	Pilaster CF10 VIOS	4
40	50050922	Pilaster spring	4

## Technical Data

<b>Shelf kit CF 4 / CF 10 VIOS</b>	<b>Unit</b>	<b>Value</b>
Maximum load capacity shelf CF 4 VIOS, equal distribution on the shelf	kg / lbs	4,5 / 9.9
Maximum load capacity shelf CF 10 VIOS, equal distribution on the shelf	kg / lbs	10,4 / 22.9
Maximum overall device loading capacity CF 4 VIOS, equal distribution on the shelves	kg / lbs	22,5 / 49.5
Maximum overall device loading capacity CF 10 VIOS, equal distribution on the shelves	kg / lbs	31,2 / 68.7

Find out more at [thermofisher.com](https://www.thermofisher.com)

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