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Experts in Thermostatics

ICO HCP



ASSEMBLY INSTRUCTIONS FOR STACKING

ICO150 AND ICO240
HCP150 AND HCP240

100% ATMOSAFE. MADE IN GERMANY.

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Please contact our customer service department before sending appliances for repair or before returning equipment, or the shipment may be refused.

About this manual

Purpose and target audience

This manual provides instructions on stacking two identical ICO (ICOMed) CO₂ incubators or two identical HCP humidity chambers. It is intended for use by trained personnel of the operating company.

If you have been assigned with the installation of the appliance, you should read this manual carefully before starting work. Familiarise yourself with the safety regulations. Only perform work that is described in this manual. If there is something you do not understand, or certain information is missing, ask your manager or contact the manufacturer. Do not do anything without authorisation.

1. General information

Two ICO (ICOMed) incubators or two HCP humidity chambers of the same size can be stacked on top of each other.

For secure stacking, stacking corners must be inserted in all four corners on the underside of the upper appliance. The upper appliance is fastened to the lower appliance using the weight of the appliance itself.

1.1 Tilt protection

Due to the increased risk of overturning, size 150 and 240 appliances are also secured using a connecting plate and two adjustable wall brackets on the rear panel.

1.2 Stacking process

- ▶ Size 150 appliances can be manually stacked by four people.
- ▶ Due to their height and weight, size 240 appliances must be stacked using an electric manual pallet jack. For mounting purposes, the lower appliance must stand on a sub-frame.

1.3 Stacking element

Due to their weight, size 240 appliances must be mounted using elevated stacking corners, which facilitate stacking using an electric manual pallet jack.

1.4 Mobile sub-frame (optional)

The “mobile sub-frame” option enables the stacked appliances to be moved slightly for servicing purposes.

1.5 Installation requirements

Ensure that the floor of the installation site is pressure-resistant, stable and level and that it is capable of reliably bearing the weight of two loaded appliances, as well as that there is sufficient headroom. The wall structure should have a sufficiently static load-bearing capability for mounting the wall bracket.

1.6 Required tools and materials

- ▶ Drill
- ▶ Torx screwdriver size 15
- ▶ Drill for wall plugs
- ▶ Allen key size 2.5
- ▶ Wall plugs or similar for fastening the appliance to the wall (not included in the scope of delivery)
- ▶ Electric manual pallet jack (for size 240 appliances)

2. Safety regulations

⚠ WARNING



Because of the heavy weight of the appliance, you could injure yourself if you try to lift it. At least two people are needed to carry size 50 appliances, and four people are required for size 105 and 150 appliances. Appliances larger than that may not be carried, but must be transported using a manual pallet jack or forklift truck.

50	105	150	240

⚠ WARNING



The stacked appliances could fall over and cause serious injury if they are not secured against falling over. The appliances should never be installed as a free-standing unit, but should always be fixed to a wall.

⚠ CAUTION



You may get your hands or feet squashed when transporting and installing the appliance. Wear protective gloves and safety boots. Only grasp the appliance at the sides of the base:



3. ICO/IComed/HCP stacking

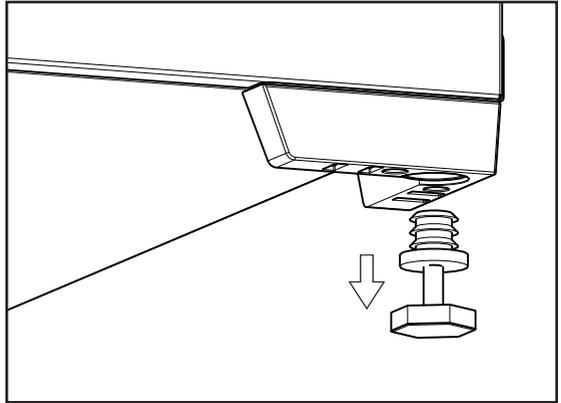
3.1 Preparations for mounting using a sub-frame

3.1.1 Remove the pre-assembled appliance feet.

NOTICE

- ▶ **If the lower appliance is mounted on a sub-frame, the pre-assembled adjustable feet must be removed.**

1. Lift the lower appliance onto the electric manual pallet jack.
2. Lift the appliance.
3. Remove the pre-assembled appliance feet from the lower appliance.



3.1.2 Adjust the sub-frame.

NOTICE

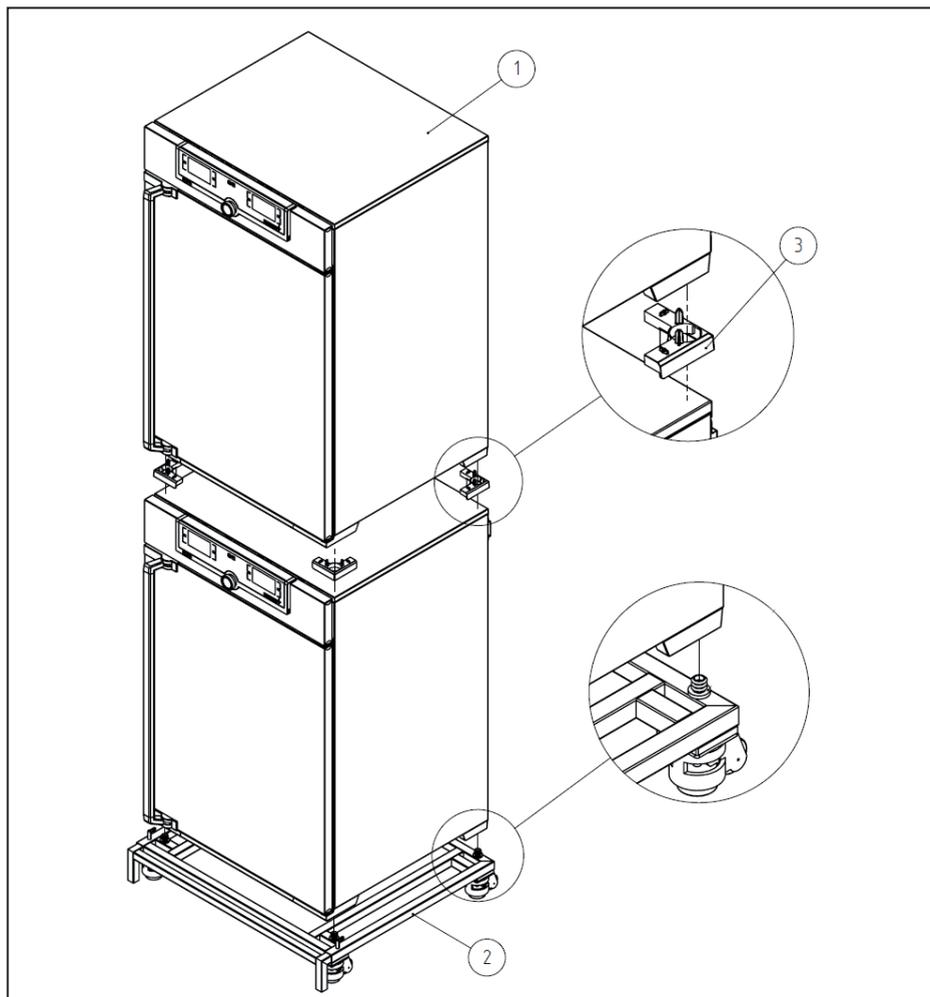
- ▶ **The sub-frame must stand firm on the floor in a level position. Ensure that the ground underneath it is suitable. (see page 4)**

1. When you reach the installation site, pull out the adjustable feet on the sub-frame.

3.2 Stacking process

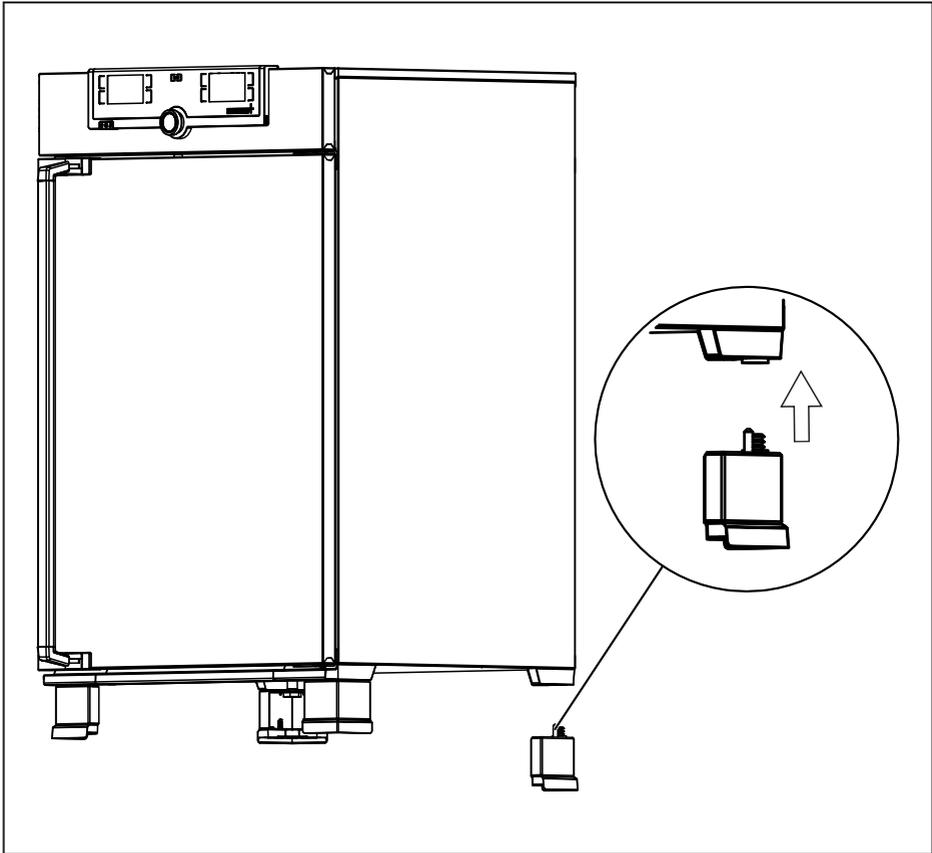
3.2.1 Stacking process for size 150 appliances using a sub-frame

1. Lift the lower appliance onto the sub-frame.
 - ▶ The appliance feet must engage with the plastic leg plugs ② on the sub-frame.
2. Lift the upper appliance.
3. Push in the four stacking corners ③ on the upper appliance ①.
4. Slowly release the appliance.
 - ▶ The stacking corners must align with the top of the lower appliance.
5. Check that the appliance is supported on all corners.



3.2.2 Stacking process for size 240 appliances using a sub-frame

1. Lift the lower appliance onto the sub-frame.
▶ The appliance feet must engage with the plastic leg plugs on the sub-frame.
2. Lift the upper appliance using an electric manual pallet jack.
3. Push in the elevated stacking corners on the upper appliance.

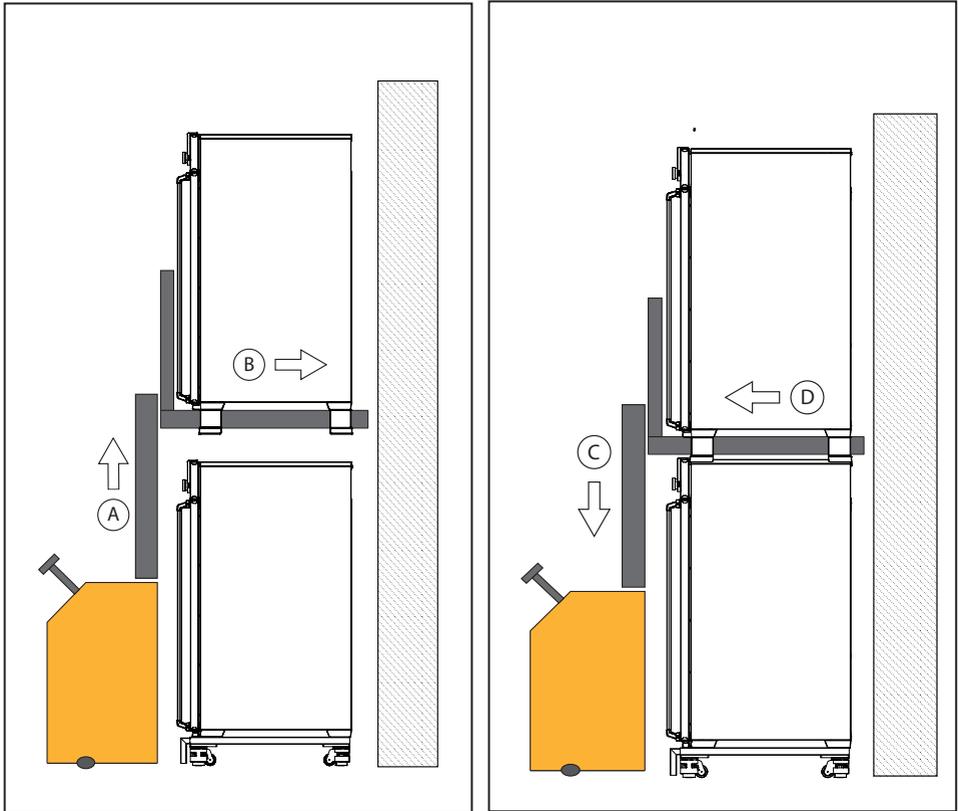


4. Slowly and carefully move it over the lower appliance (A) (B).

NOTICE

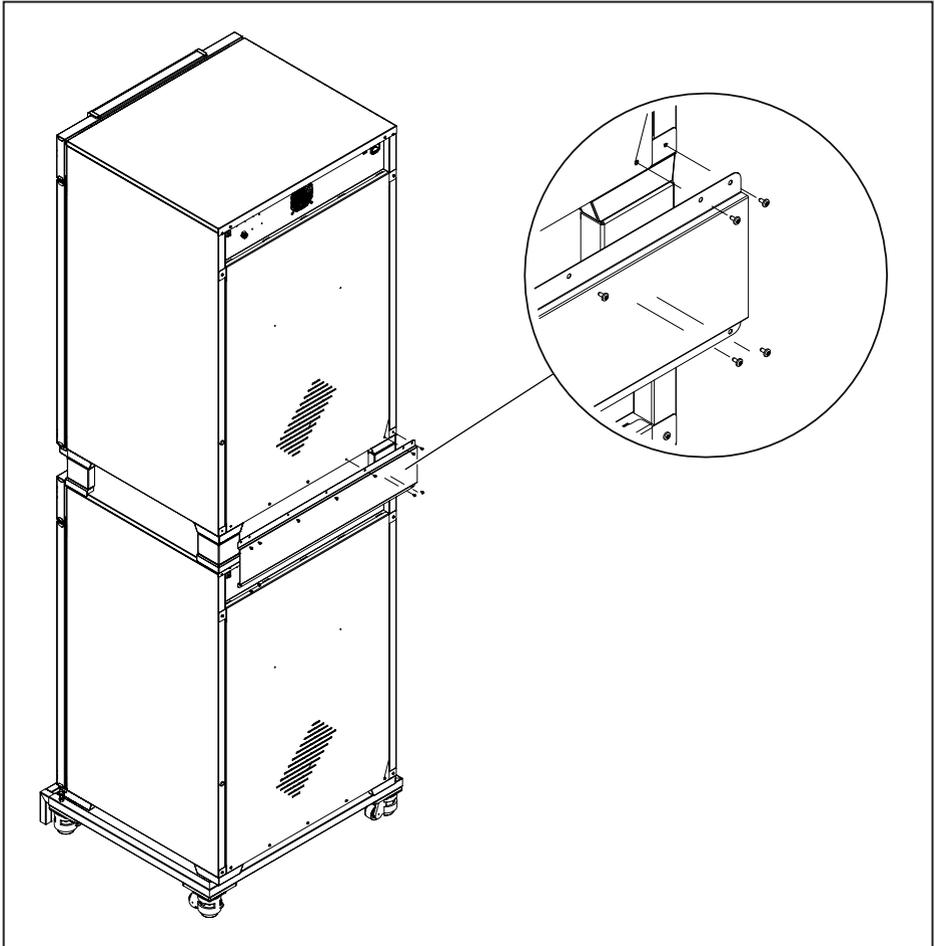
- The stacking corners must align with the top of the lower appliance.

5. Slowly release the appliance (C).
6. Check that the appliance is supported on all corners.
7. Slowly slide the manual pallet jack away (D).



3.3 Fitting the connecting plate

1. Loosen the screwed-in M3x6 Torx screws on the appliance's reverse panel.
2. Mount the connecting plate using M3x6 Torx screws (TX15).



3.4 Fitting wall brackets

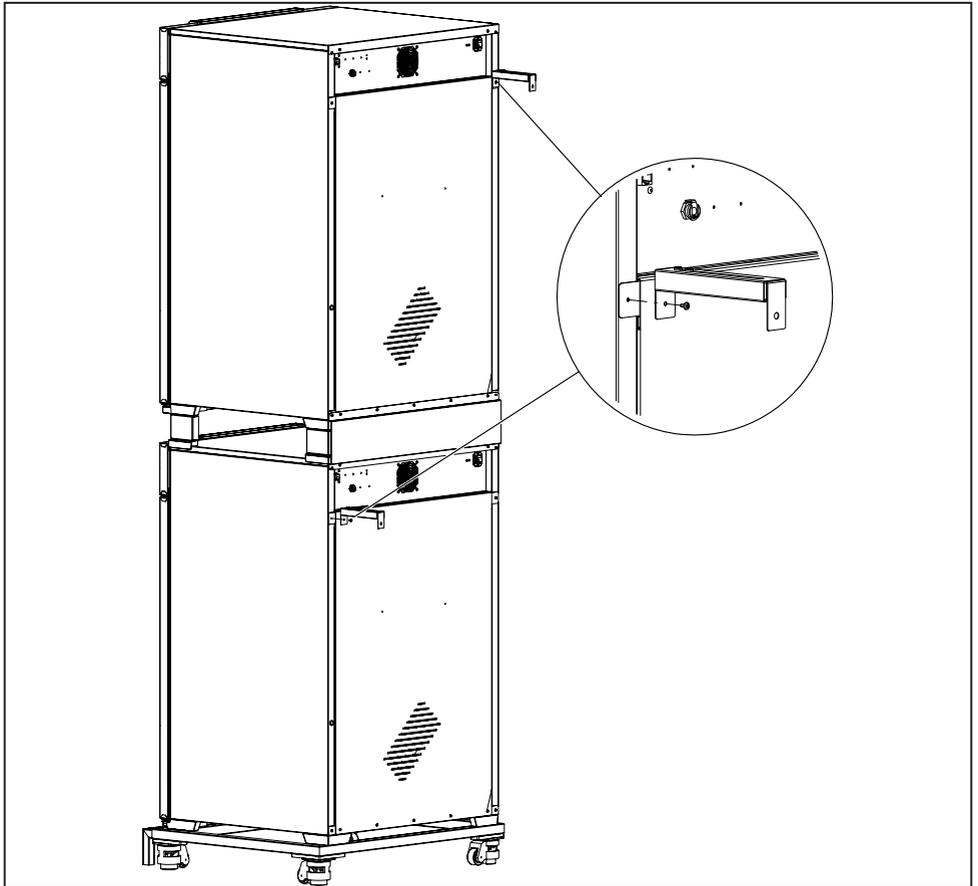
NOTICE

The adjustable wall brackets from the stacking set must be used for size 150 and 240 appliances.

1. Remove one M3x6 Torx screw from each of the appliances on the left or right side of the frame.
 2. Fit the wall brackets to the rear frame.
 3. Drill holes, insert dowels and screw the tilt protection brackets into a suitable wall.
- ▶ Since the conditions (wall structure) at the installation site are unknown, no dowels or similar materials for wall mounting are included in the scope of delivery.

The installation is now completed.

The distance from the wall can be adjusted by unscrewing the Allen screws and pulling the bracket out.



4. Moving stacked appliances

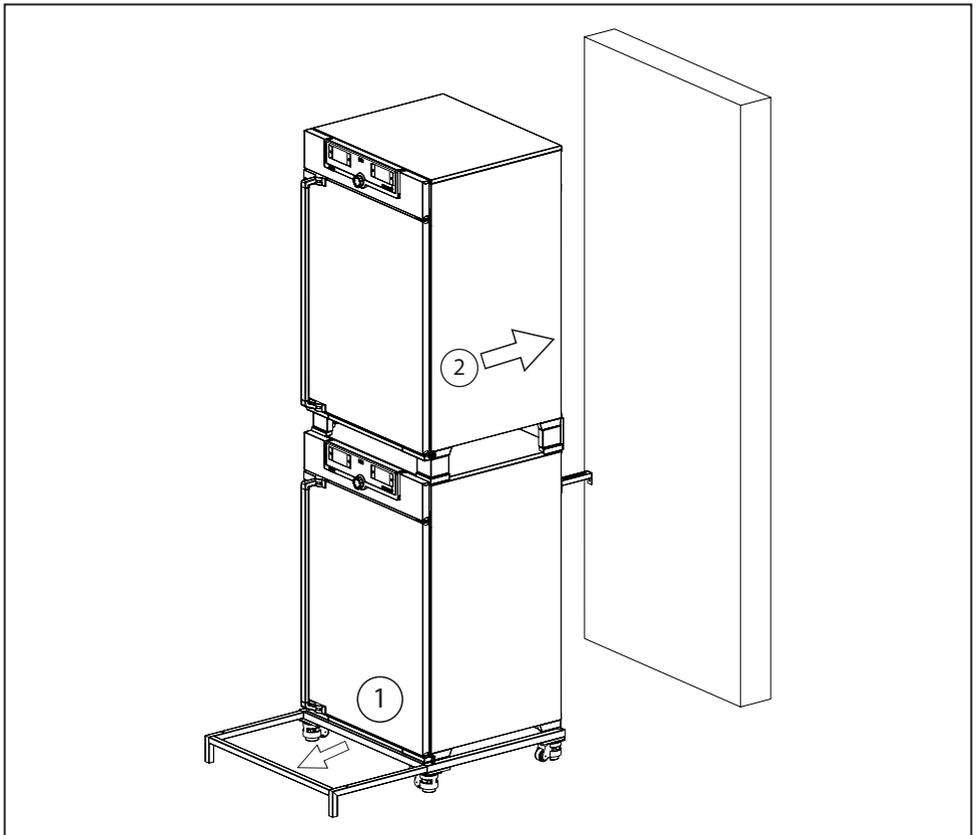
⚠ WARNING



The stacked appliances could fall over and cause serious injury if they are moved. After being fitted to the wall, appliances may only be moved slightly for servicing purposes.

To do so, proceed as follows:

1. Open the locking pin on the sub-frame.
2. Pull the anti-tilt bracket out until the locking pin engages.
3. Remove the wall brackets from the wall.
4. Carefully pull the appliances away from the wall. Carry out the servicing and then carefully push the appliances back towards the wall.
5. Insert the anti-tilt bracket again.
6. Attach the appliance to the wall again.





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ICO/IComed/HCP assembly instructions

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English

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