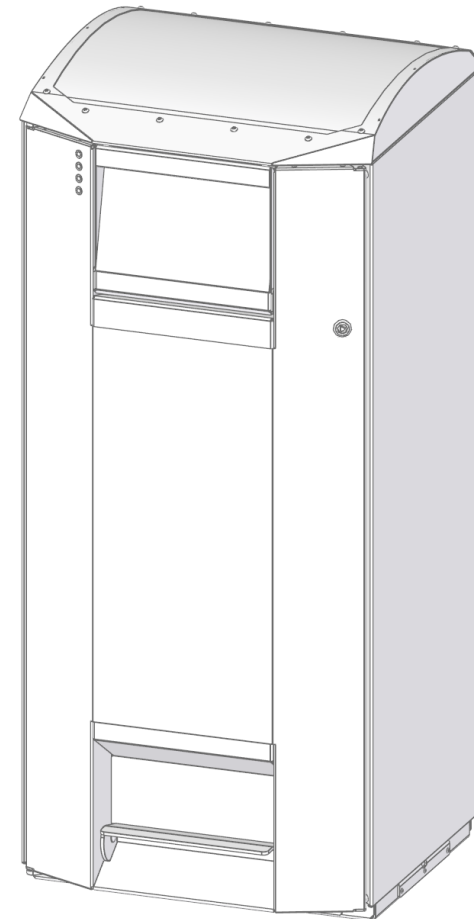







CITYSOLAR 120

Manual

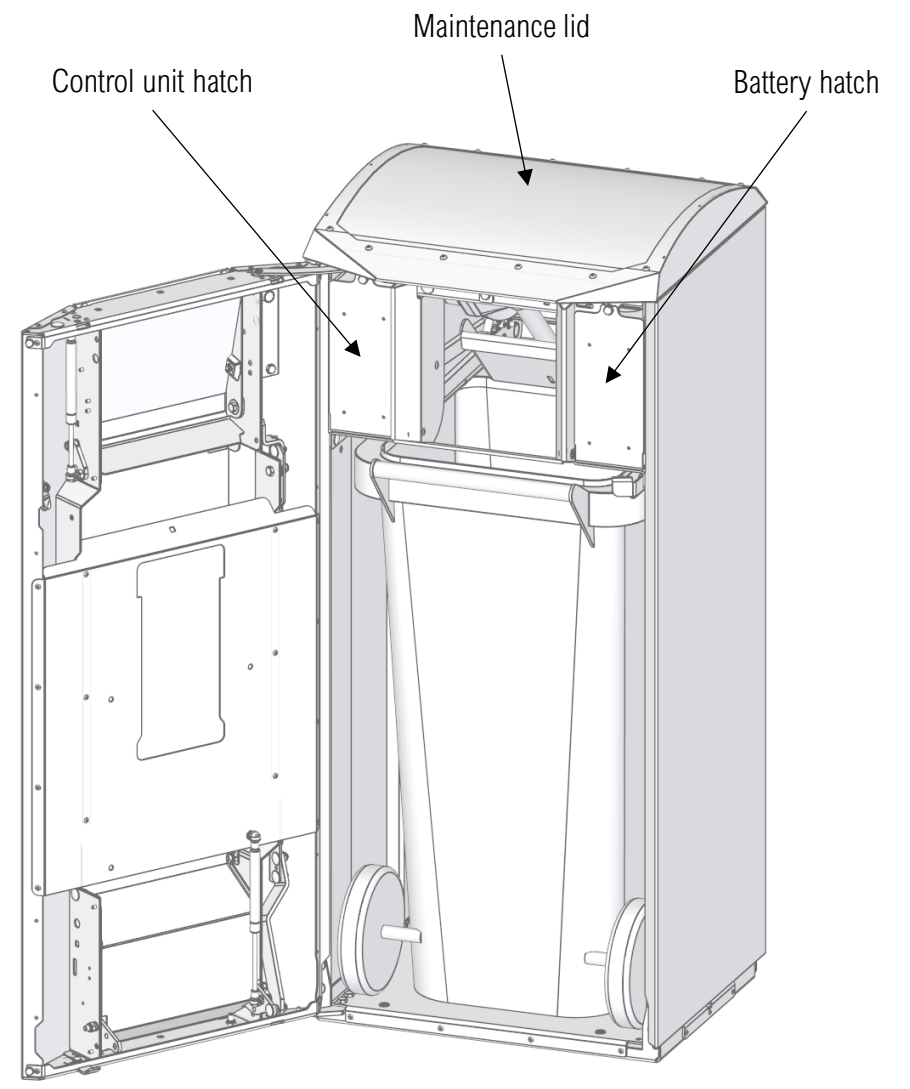
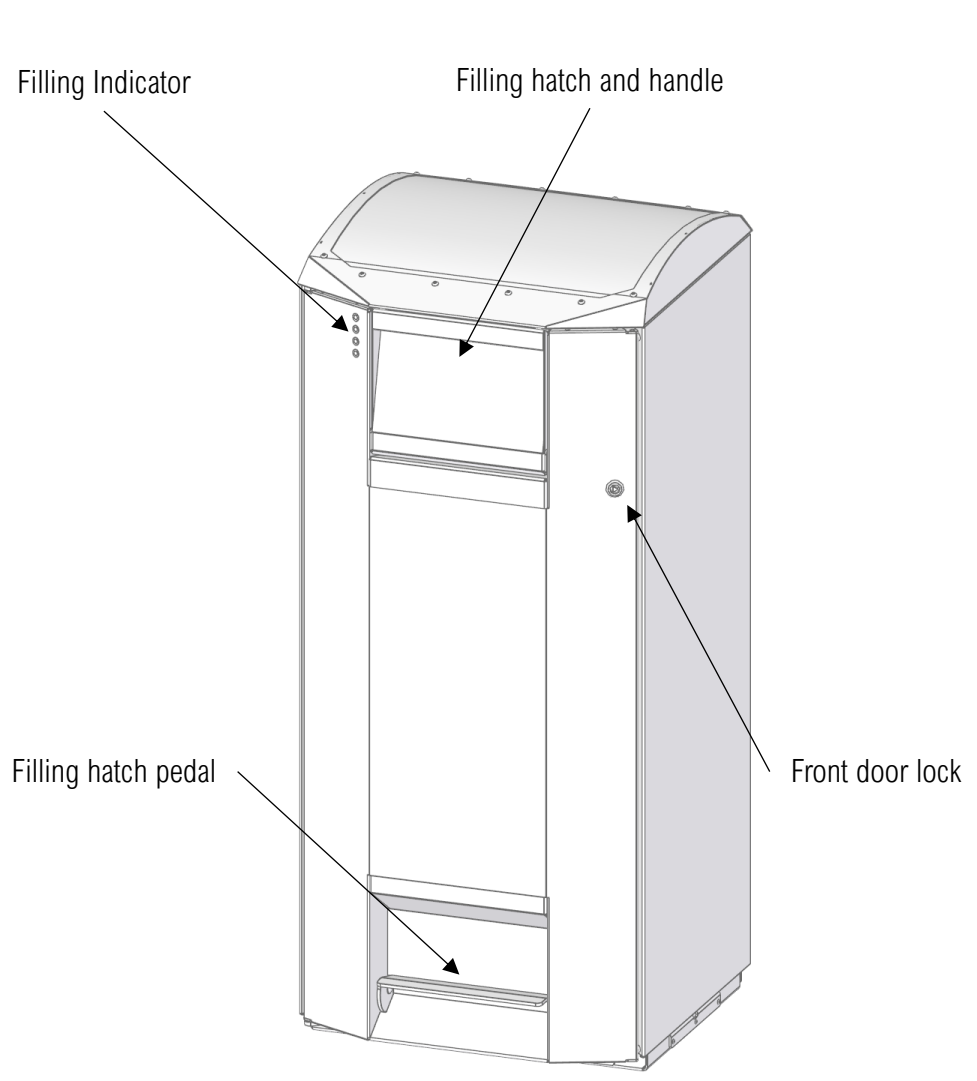
FINBIN®
est.1945
LEHTOJUORI



CONTENTS

-  BASIC INFO
-  SETUP
-  USAGE
-  MAINTENANCE
-  TECHNICAL DATA

BASIC INFORMATION



PLUG-IN MODEL

The Plug-In model of CitySolar, the solar panel and solar charger are replaced by 12V Smart battery charger.

Input: 220-240Vac / 50-60Hz mains power.
Output(to battery): 12V, max 4A

The Plug-in model comes with standard EU plug, that is inside at the back of the device.

The CitySolar Plug In model is delivered with power cord coiled up and hanging freely inside the device.

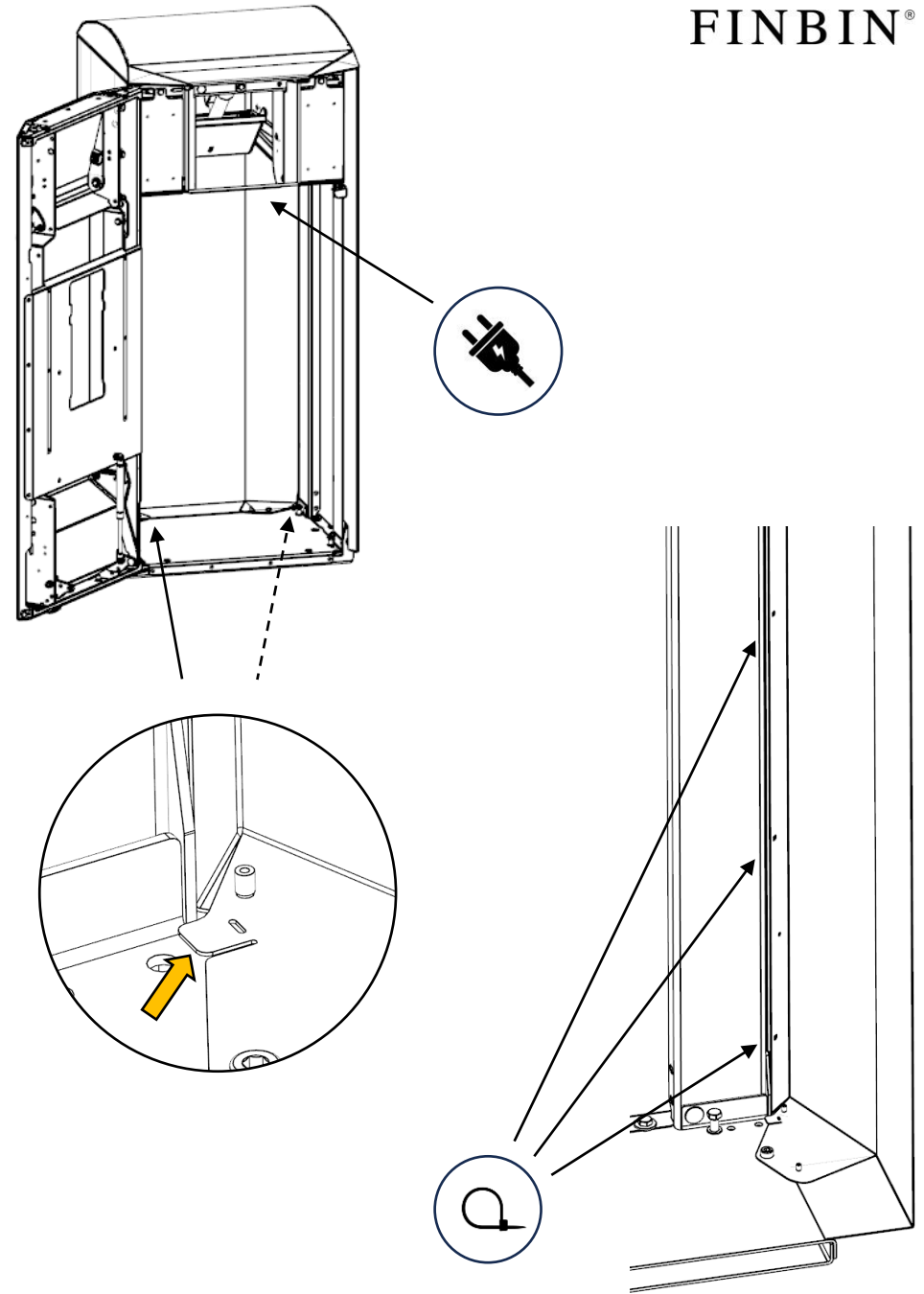
There are two ready made cable-passages at the base of the back panel, one on each side.

Passing the cable through the Back panel.

1. Remove the Maintenance lid and Back panel.
2. Bend up the flap covering the cable-passage.
3. Bring the cable out of the device and install the back panel so that the cable aligns with the cable-pass.
4. Secure the remaining cable inside the bin with cable ties.

Customer must ensure that cable is properly mounted in desired location and does not come to contact with the inner plastic bin.

When connecting the charger to grid customer must use good practises and obey the laws and standards of the country.



INSTALLATION

Save this manual and key for further use.

Check the packaging for any transport damage.

Choosing a location

Make sure that the sunlight reaches the location of the device.

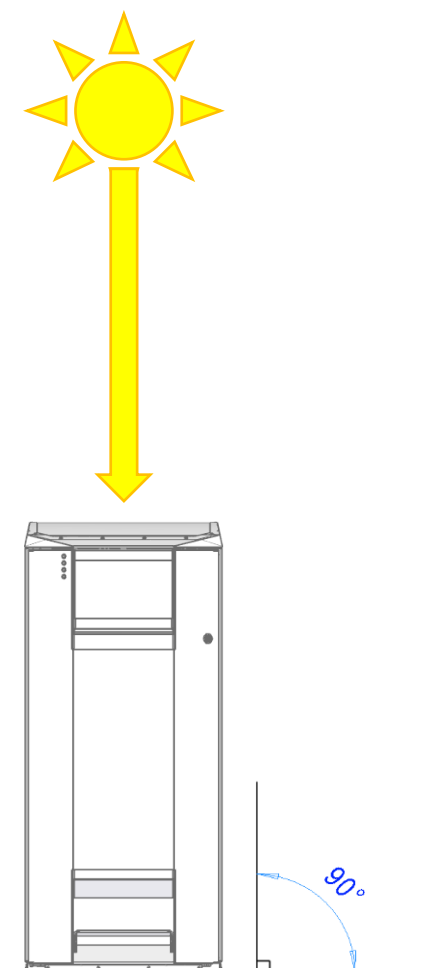
We recommend placing the CitySolar under clear sky and avoid placing the device under a roof or tree to ensure proper charging.

The device should be installed on a flat and even surface.

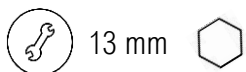
For device fastening and adjustment feet, see *Setup – Fastening CitySolar to surface*.

The GPS positioning of the device doesn't work indoors.

The setup and locating procedure should be repeated, if the device is relocated.



LIFTING



13 mm

Move the device on pallet close to the chosen installation location.

Remove the cardboard packaging by lifting it over the device.

Open the front door with the key and remove the wood screws that secure the device to the pallet. Door should be closed and locked before moving the device.

Moving the device by hand

Note that the product is top heavy and centre of gravity is high.

It is recommended to have at least three people when moving the device by hand. The device should be slid from the pallet to the ground. Avoid resting the device on the corners of outer panels or door.

Lifting the device from lifting points

Remove the maintenance lid, see *Maintenance – Maintenance Lid*.

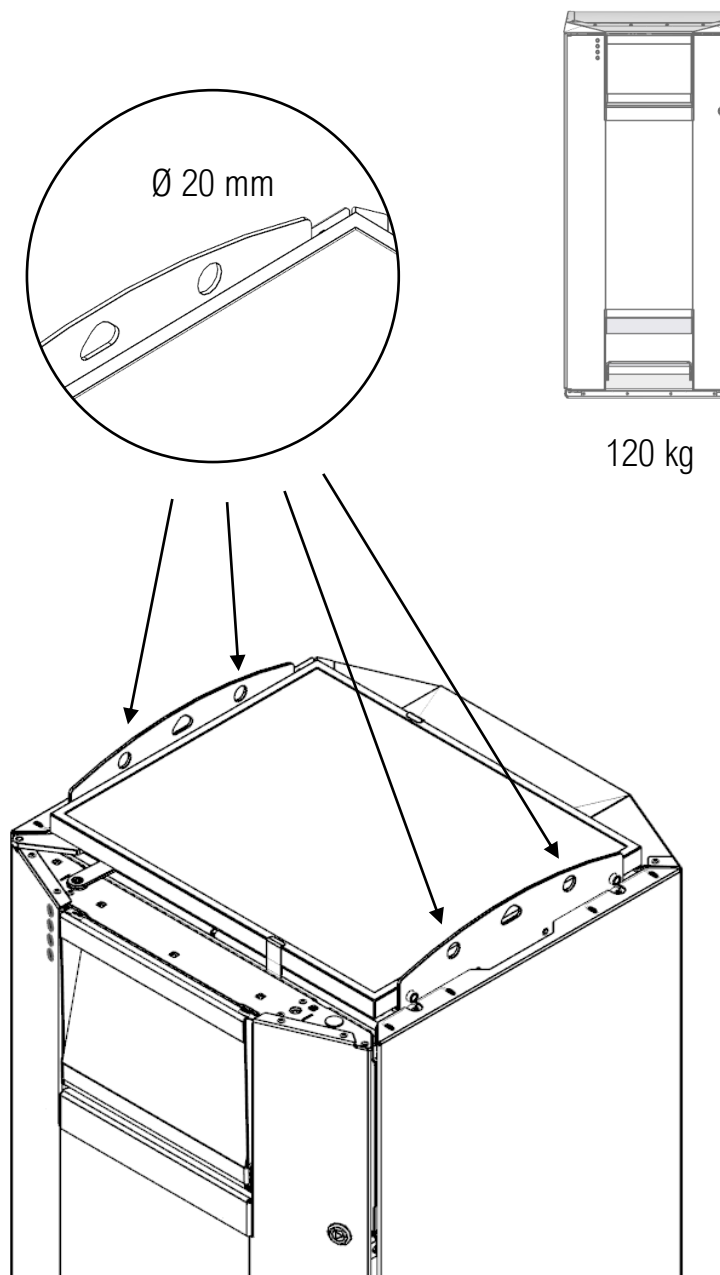
The device has four lifting holes. Lift the device from all four points, by using a proven lifting method. For example, BOW or D Shackle.

Avoid damaging the solar panel with lifting device, add protection if necessary.

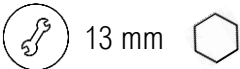
Never go under the lifted load. Establish a safe perimeter around the load and lifting device.

Lift, move and lower the device carefully. Avoid sudden moves that could cause swinging motion.

Once the device is in desired place, remove the lifting device and re-attach the maintenance lid.



FASTENING CITYSOLAR TO SURFACE



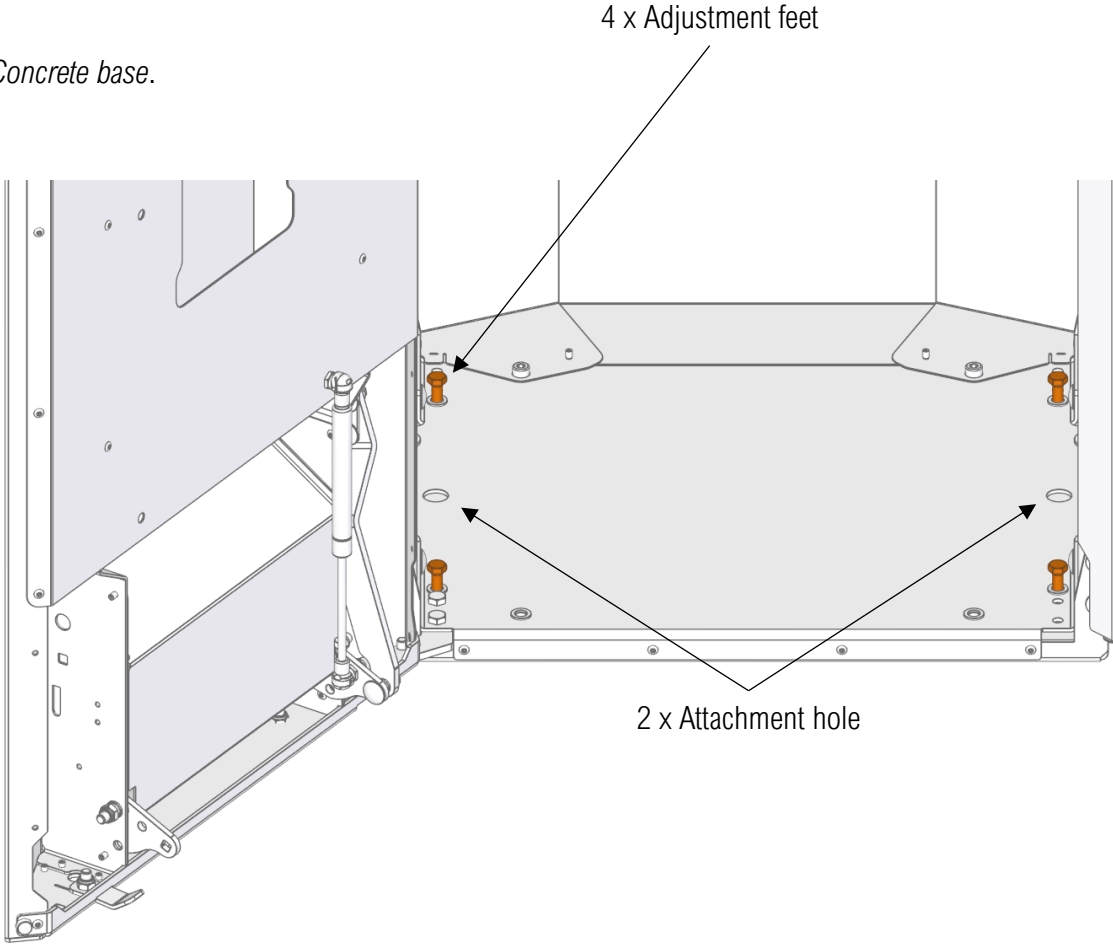
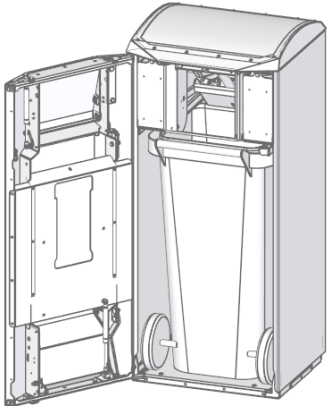
13 mm

Fasten the device on a firm and stable surface. Install the device as straight as possible to ensure proper operation of the device.

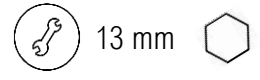
There are four 20 mm adjustment feet at the bottom of the device (adjustment with a 13 mm key).

There are two 20 mm diameter holes at the center of the device for attaching to surface. (fixing with e.g. 11mm concrete screws and washers)

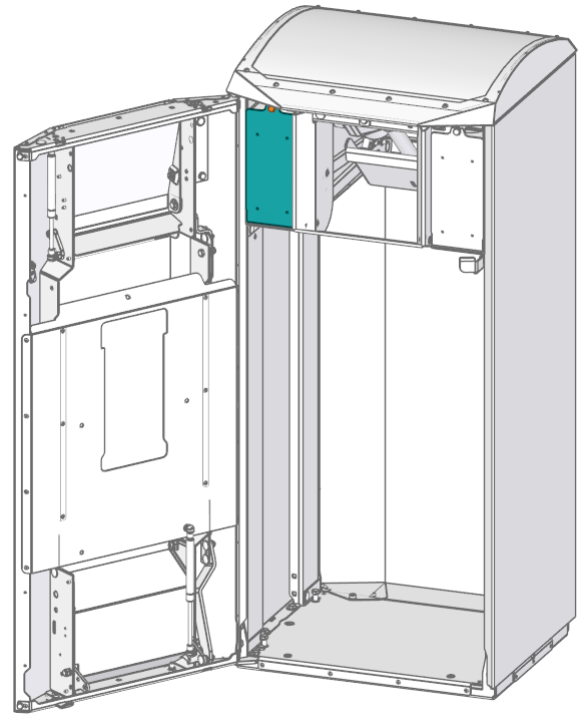
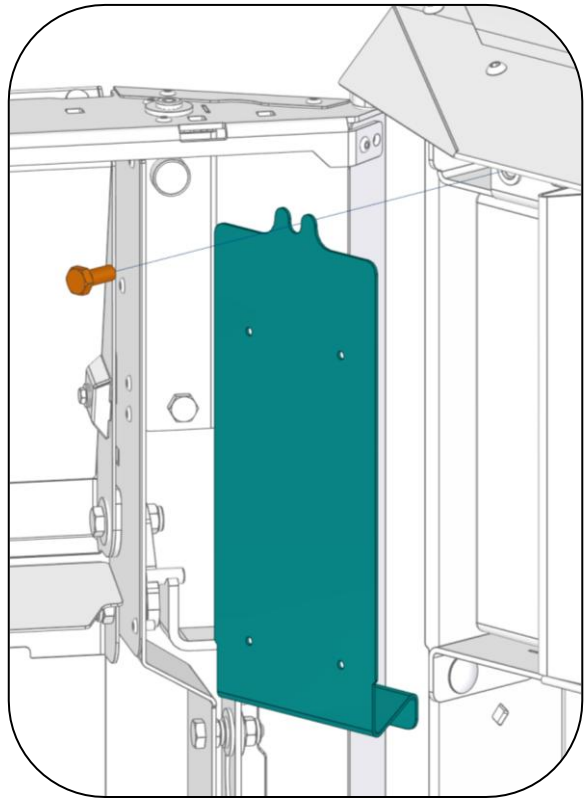
If concrete base is used, see *Accessories – Concrete base*.



HOW TO START USING CITYSOLAR?



1. Open the front door.
2. Open the control box hatch.
3. Turn ON the device from the main switch.
4. Wait 3 seconds.
5. Locate the device by pushing and holding the UP/DOWN buttons for 3 seconds.
6. Close the control box hatch.
7. Close the front door.
8. The First compaction cycle starts automatically.
9. Device is ready to be used.



MAIN SWITCH



UP
DOWN

EMPTYING

Blue light flashes when

- Door is open
- Hatch is open
- Compacting is not up

Red light flashes when bin is over 75% full

Yellow light flashes when bin is between 50% and 75% full

Green light flashes when bin is less than 50% full

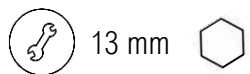
Emptying the inner bin

Compaction is only in progress when the filling hatch and service door are closed. Opening the hatch or service door stops the compaction cycle. The compactor continues to operate and returns to the upper position when the hatch/door is closed.

1. Open the front door
2. If the compactor is down close the front door and wait for compacting cycle to end
3. Remove and empty the plastic waste bin.
4. Place the plastic waste bin back into the device the handle facing outwards.
5. Close the front door.



MANUAL DRIVE

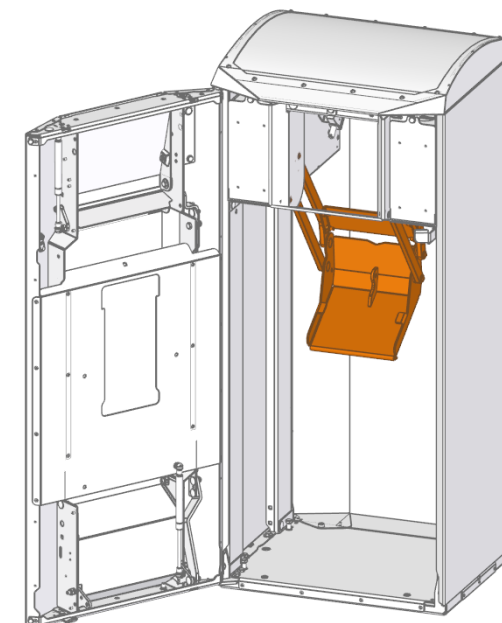
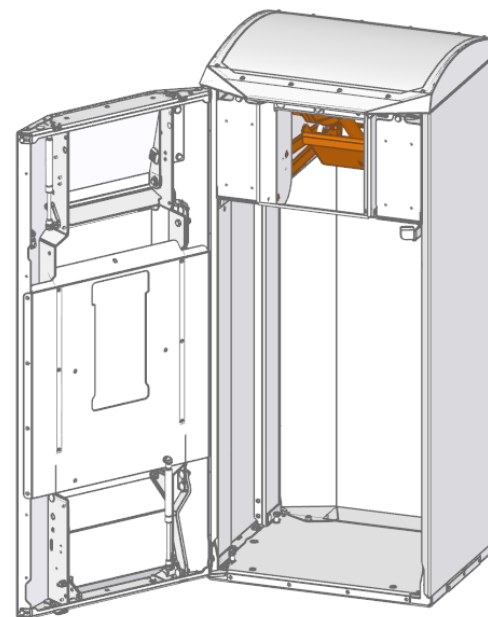
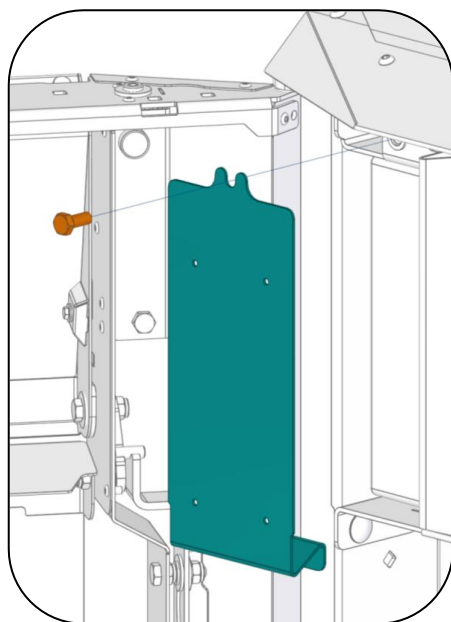


13 mm



When main switch is ON and front door is open, pushing and holding the UP or Down buttons will drive the compactor in corresponding direction.

Releasing the button will halt the movement.



MAIN SWITCH



UP

DOWN

CLEANING

Turn the power OFF before cleaning the inside of the device.

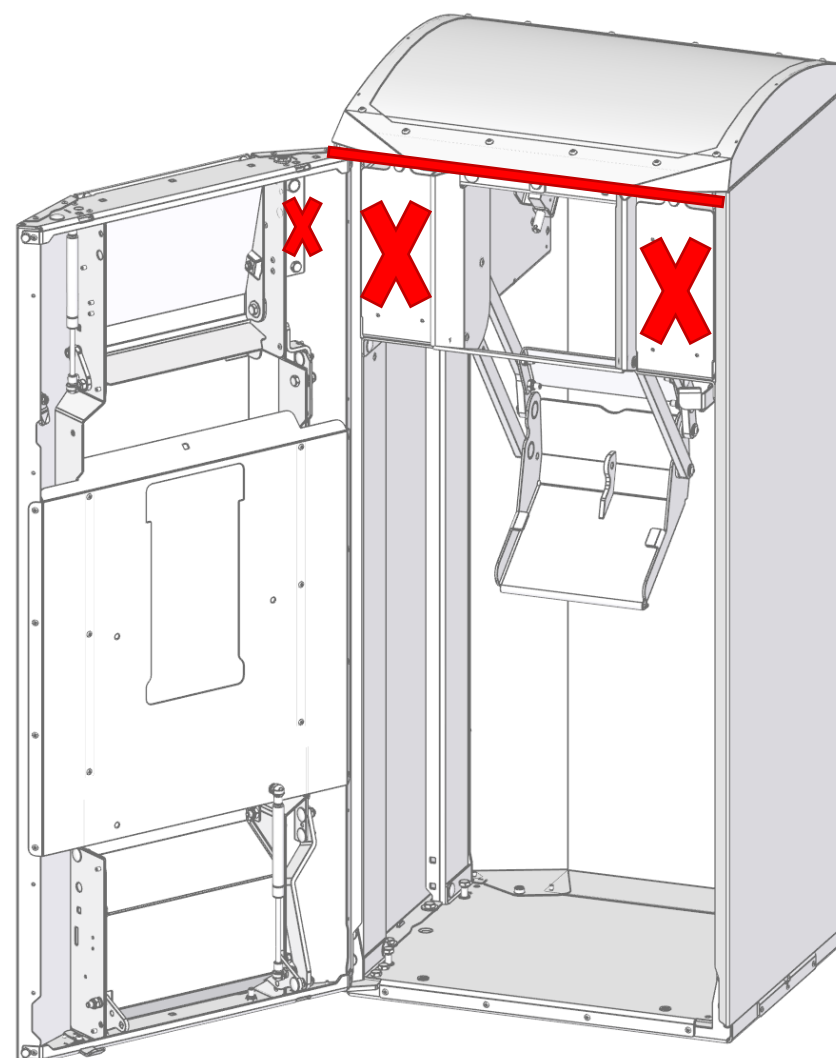
Only use mild and non-abrasive detergents.

Compactor can be driven down for cleaning see *Usage - Manual drive*.
Turn power OFF after moving the compactor.

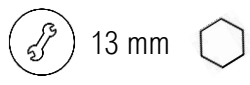
The device can be washed with power washer. Do not spray water on marked areas, under the maintenance lid or upwards inside the bin. Avoid pointing the power washer directly at the sticker edges and the polycarbonate cover seals.

Keeping the polycarbonate cover of the solar panel clean aids in keeping device working properly.

Use mild detergents and non-abrasive materials when cleaning the polycarbonate cover.

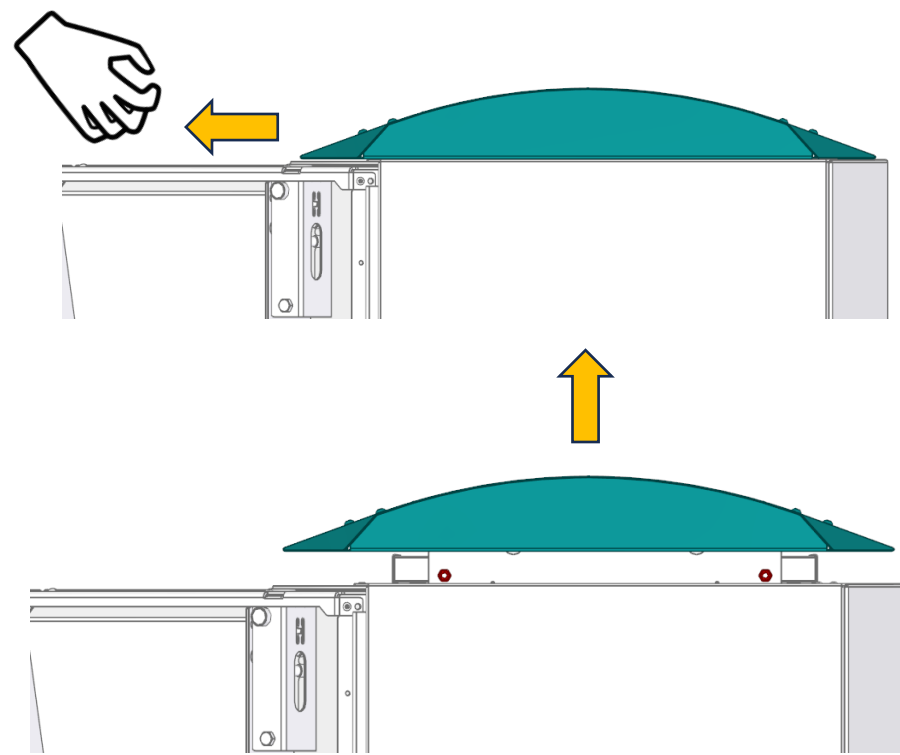
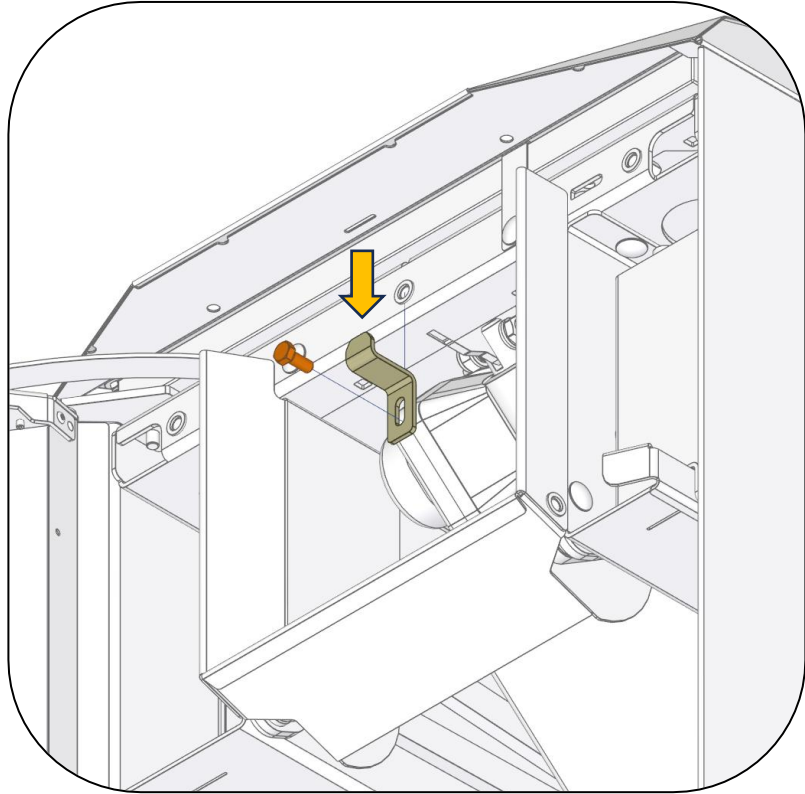
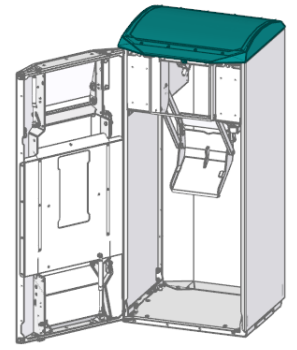


MAINTENANCE LID





13 mm

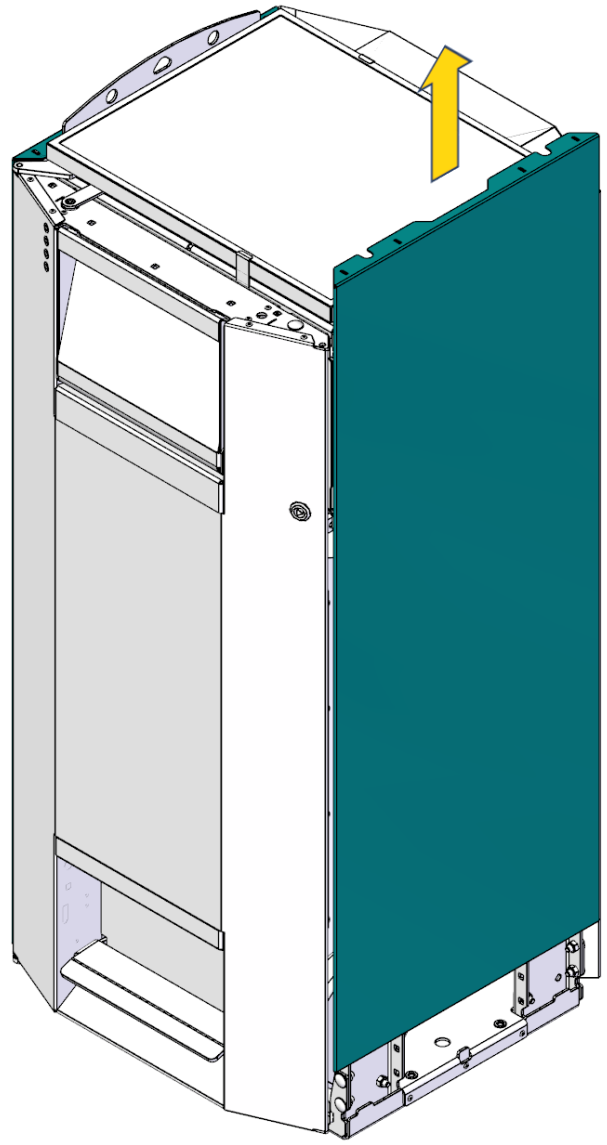
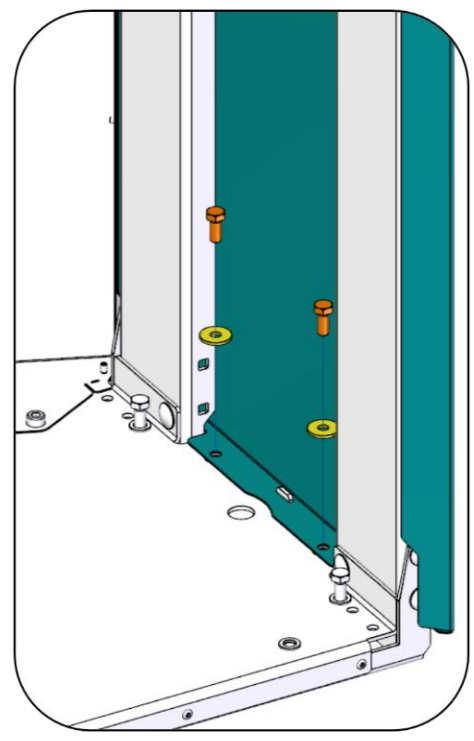
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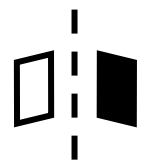
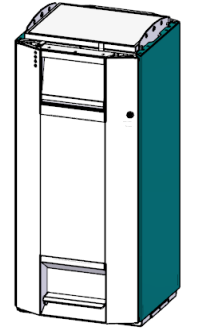
1 x 
M8x20 HDG


SIDE PANEL

 13 mm 



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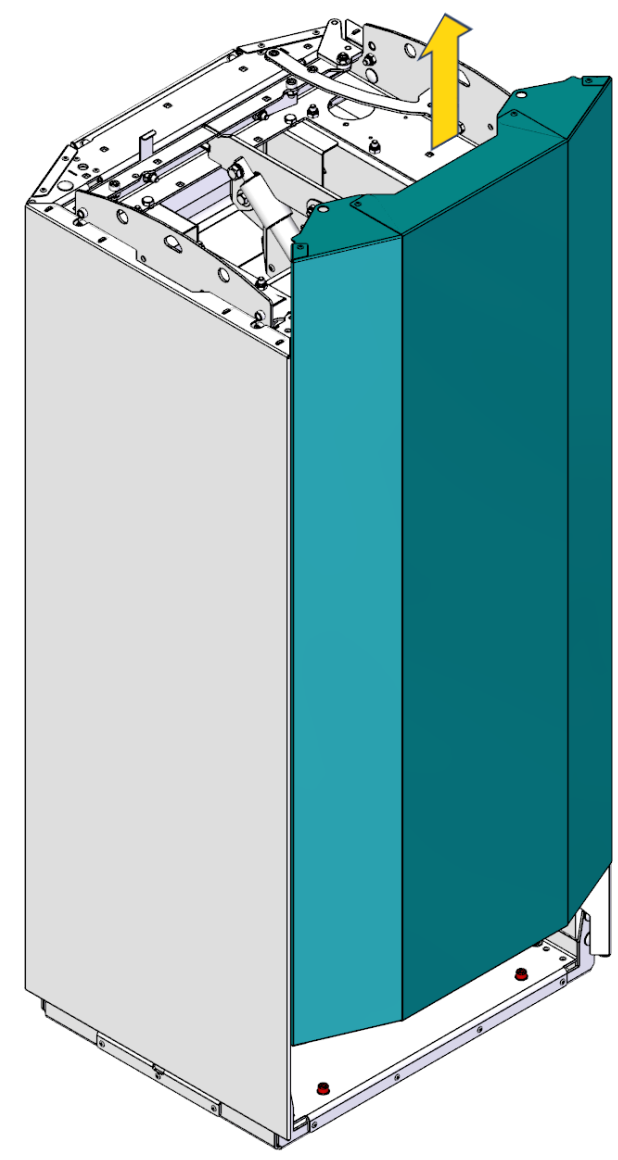
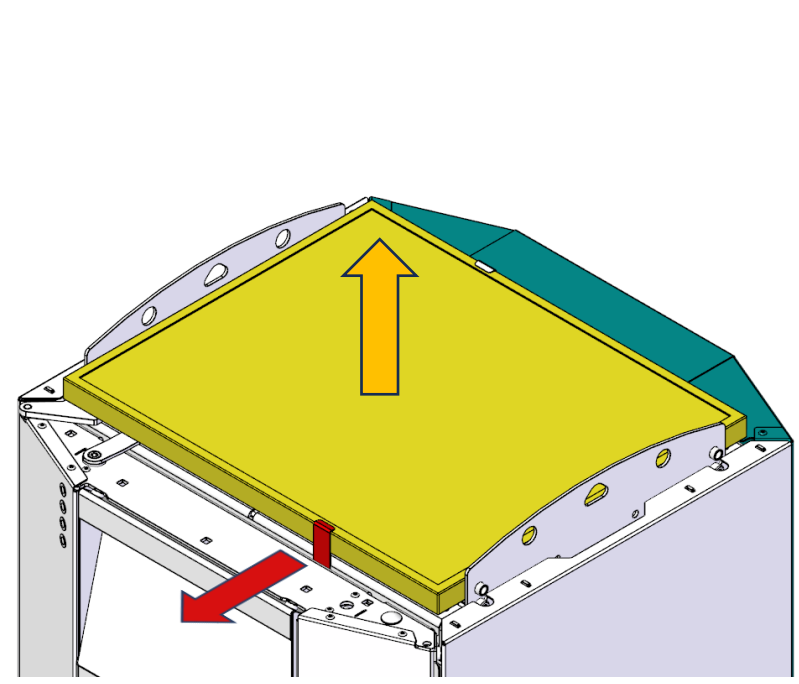
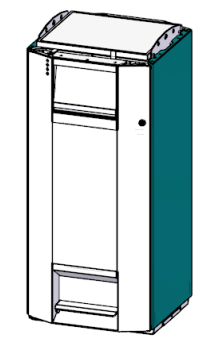


2 x 
M8 Wide

2 x 
M8x20 HDG

BACK PANEL

FINBIN®



YEARLY MAINTENANCE

Check the compaction cycle by opening and closing the emptying door.

Check the battery voltage with multimeter. The voltage should be above 11,8 V.
See *Spare parts – Battery*.

Check battery leads for corrosion.

Drive the compactor down (*Manual drive*). Turn power OFF and remove any debris from the compactor. Apply light oil to compactor bearings. Drive the Compactor back up.

Apply light oil to hatch and pedal bearings.

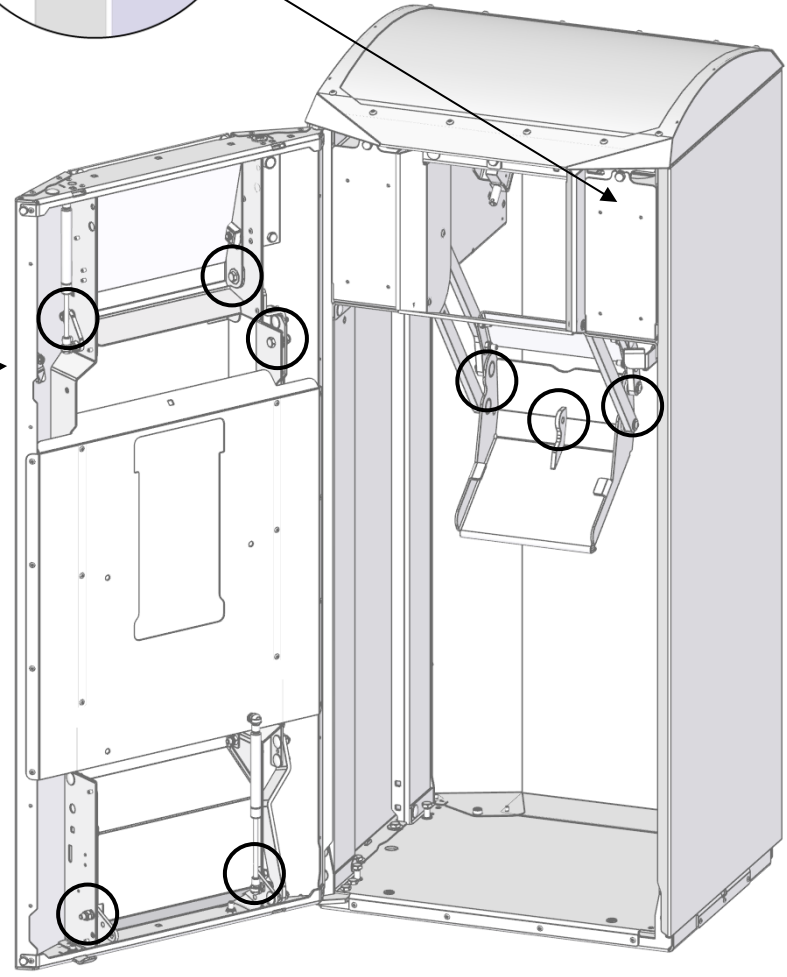
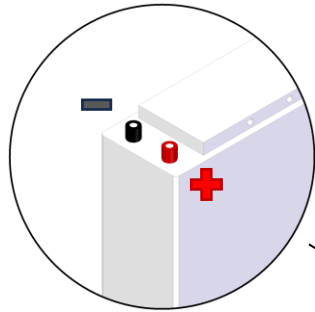
Check the tightness and function of the door lock.

Remove any debris from inside the bin.

Check that the bin is still fixed to the surface or base.

Check that the outer shell of the bin is still intact.

Clean the solar panel and underside of polycarbonate cover if necessary.
See *Maintenance – Maintenance Lid*.



STORAGE

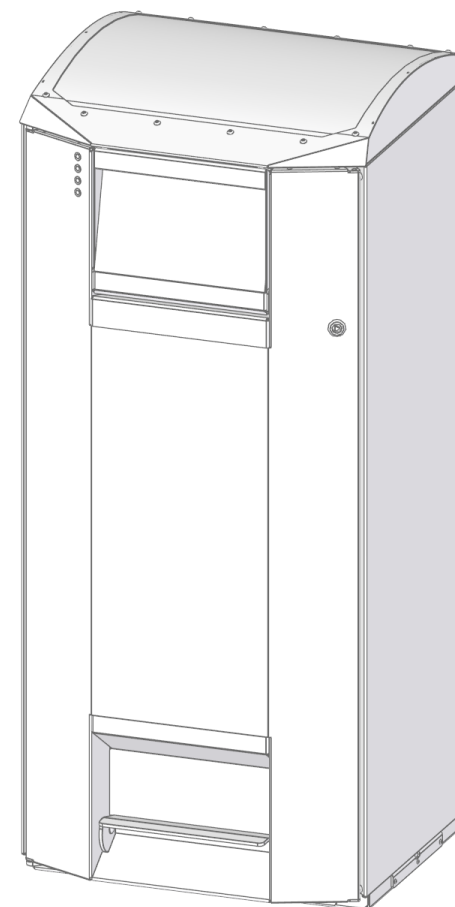
Turn the Main switch OFF before storage. Devices are delivered with main switch OFF.

With temperatures above 0°C, it is preferred to store the device outdoors with access to sunlight.

If storage time exceeds one month, the battery terminals should be disconnected, *see Battery*. Devices are delivered with battery connected. With Plug-In models, unplug the device from mains before disconnecting the terminals.

Unconnected battery should be charged every six months of storage.

Store the bin empty and clean. Hatch and door should be closed during storage.



TROUBLESHOOTING

Return the bin to BASE STATE

Turn power OFF - Wait 5 seconds - Turn power ON - Close door and hatch - Let the device be for 5 minutes - Test the compaction by opening and closing door.

Compactor is not moving or stops at middle of compaction.

- Check that power switch is ON.
- Check that door and hatch are closed properly.
- Check the battery voltage.
- Check the cables for any damage.

Compactor stops at lowest point.

- Check that door and hatch are closed properly.
- Check the battery voltage.
- Faulty home sensor

Hatch stays open.

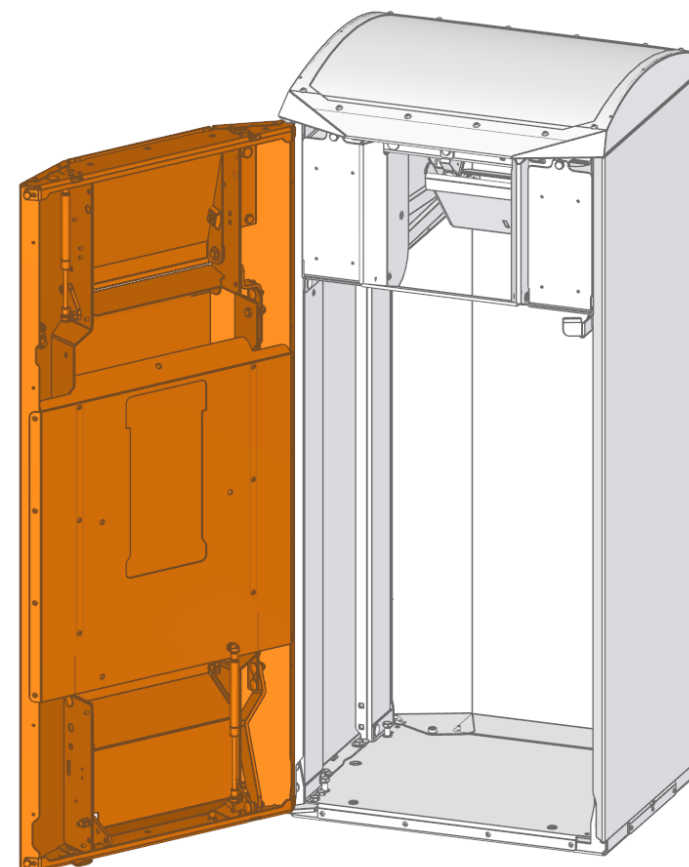
- Check that hatch bearings are clean of debris and sand, oil the bearings.
- Check the condition of the hatch gas spring.
- Make sure the pedal returns to up position freely.

Pedal stays down.

- Check that pedal bearings are clean of trash/sand and oil the bearings.
- Check the condition of the pedal gas spring.
- Oil the bearings on both ends of the pedal lever.

Door opens by itself.

- Tighten the door lock.
- Adjust the lock counter piece.



CUSTOMER SERVICE

Before contacting customer service, perform following steps:

- ! Go over *Troubleshooting* and perform return the bin to BASE STATE
- Check that hatch and door are properly closed.
- Check that there is no debris on the hatch mechanism or on the compactor.
- Check battery voltage with multimeter.

To speed up the process,
please provide the following information when contacting the customer support:

- ? What is the serial number of the Device?
- Is there any noise or movement in the compactor during BASE STATE?
- Can the compactor be moved with manual drive?
- Which light is blinking if any?
- In case of mechanical problem, provide proper pictures of the problem and suspected cause.



Serial number

Customer service | info@finbin.fi

TECHNICAL DATA

Technical data	
Dimensions	Height 1330 mm / Width 580 mm / Depth 600 mm Hatch height from ground 1050 mm Hatch size 300 * 242 mm Weight: 120 kg (includes a 2-wheeled waste vessel) Collection capacity of the 120l waste bin: 120 litres of compacted waste is equivalent to an average of 600 litres of uncompact waste, depending on the composition of the waste.
Materials	Steel frame and galvanized powder coated side panels Polycarbonate cover on the solar panel Inner bin: Standard 120-litre 2-wheel plastic waste bin
Compaction unit	Compaction force: 6500N (650 kg) max Compaction ratio: 5:1 Compaction cycle duration: 26 seconds A LED light indicates the degree of storage (0 - 50% - 75% -100%) GPRS / 4G wireless data connection enables remote monitoring GPS supported positioning service Compatible with the FINBIN CONNECT® cloud service
Safety and durability	Lockable door for emptying The safety feature halts the compaction if the filling or emptying hatch is opened during compaction. Tolerance for the hatch is max 30 mm before halting the compaction. The temperature range of the electronic components is -30 °C to +60 °C. Made steel for good fire safety features.
Electronics	Solar panel 40 watts System voltage 12 V Closed service-free battery (AGM) The unit does not need an external power source. Plug-In version of the unit can be connected to the mains for indoor use or for covered outdoor use.

