

ProLine Drying Cabinet TS 63 E

Installation and operation manual



Warning! Use safety glasses
when building this equipment.



Do not use this appliance until you
have read these instructions!

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Dear Customer

We are pleased that you have chosen our drying cabinet.

Your new drying cabinet is the result of many years of development work. The highest quality requirements, both in development and manufacture.

Its design meets all the demands of modern laundry care and offers you a varied and individual choice of programs.

Sparing use of energy and short drying times help to ensure that you can use your drying cabinet as economically as possible.

Please read these instructions carefully to enable you to use all the possibilities and advantages of your new drying cabinet. Please note in particular the safety informations.

We hope you will be very happy with your new drying cabinet.

IMPORTANT!

FOR YOUR SAFETY, the information in this manual must be followed to prevent property damage and personal injury.

NOTE: The paragraphs marked "WARNING" and "CAUTION" appearing in this manual are not meant to cover all possible conditions and situations that may occur. It is very important that water and electricity are handled with great care and respect, by both installation technicians and end users.

Safety regulations

Throughout this manual you will find text warnings in text boxes: "WARNING" and "CAUTION". In these boxes you'll find the safety measurements you'll have to take; end user, service staff or installation staff.

CAUTION

Indicates hazardous situation that, if not avoided, could cause minor personal injury or property damage.

WARNING

Indicates hazardous situation that, if not avoided, could cause severe personal injury.

You will also find precautions marked: IMPORTANT and NOTE. These are followed by information of what should be considered.

IMPORTANT: to inform the reader of special steps that must be taken in order to prevent injuries on the cabinet.

NOTE: to inform what is important to know, but it cannot cause personal injuries or injury on the cabinet.

Important safety instructions

WARNING

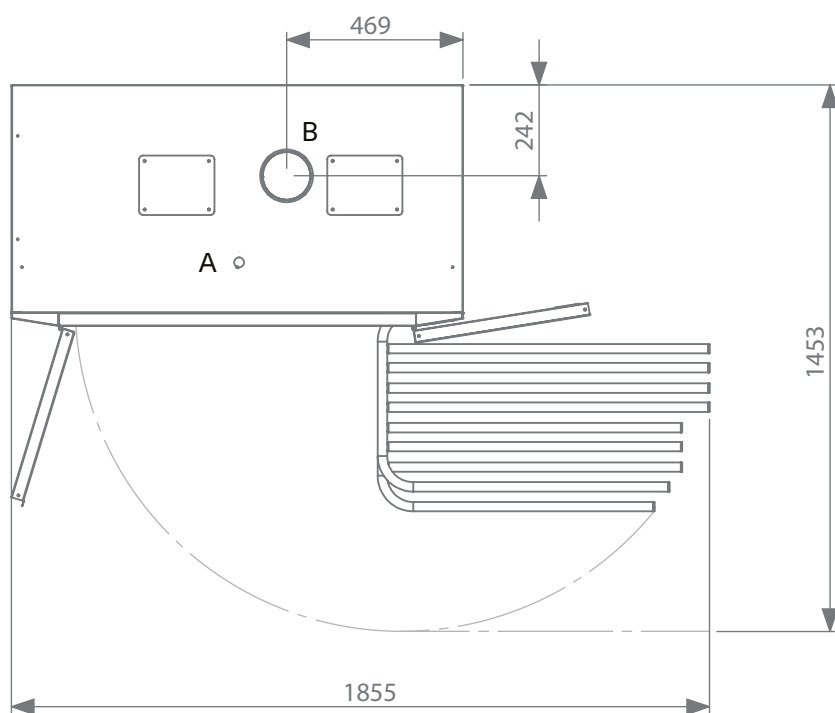
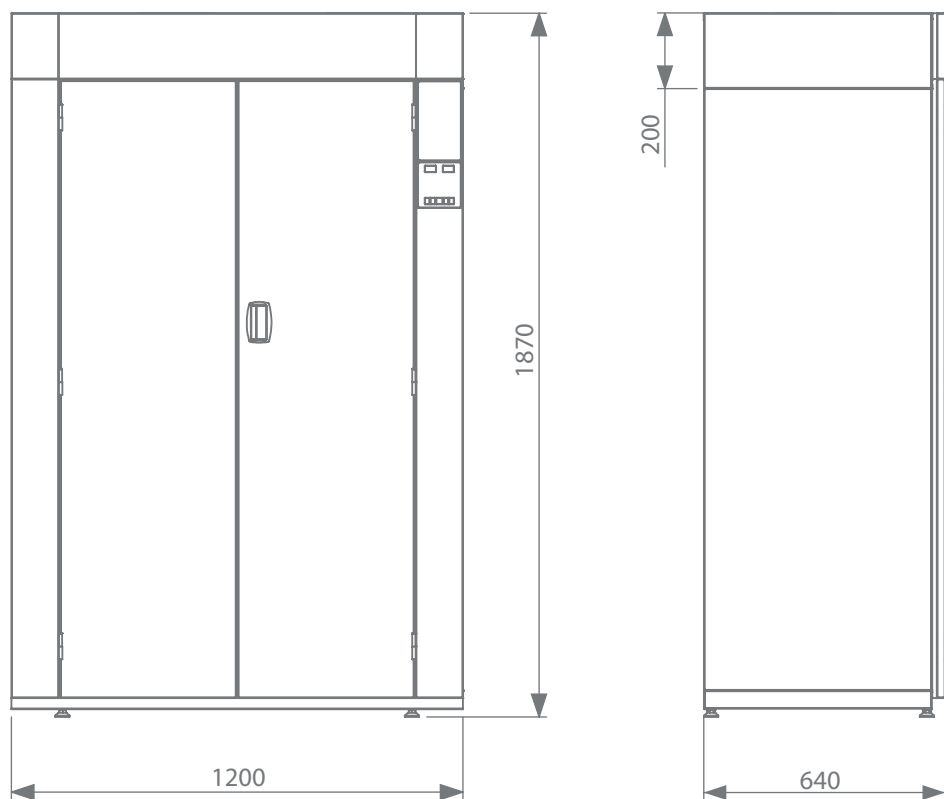
To minimize the risk of fire, electrical shock, personal injuries or death when the cabinet is in use the following precautions must be followed:

1. Read the instruction before using the drying cabinet.
2. Follow the installation instructions for proper grounding.
3. Never dry textiles that have been washed, dipped or exposed to fire dangerous substances or fluids.
4. Never add fire dangerous or explosives substances to the cabinet.
5. The cabinet is not a toy. Look after children who are around the cabinet.
6. Never connect the cabinet with an extension cable.
7. Only use the cabinet for what it is designed for: drying clothes.
8. Always turn off the main switch before performing any service on the cabinet. Only authorized service technicians should perform service.
9. Always follow the installation manual. The electrical connections must be installed by authorized personnel.
10. Keep after the cabinet. If it is exposed to violence there is a risk that certain security functions will stop working. Please contact your nearest service partner if you are unsure of the cabinet's status.
11. If the electrical cable is damaged, it must immediately be changed by a person with electrical authorization.
12. The doors shall always be shut when the cabinet is in use. Do not try to manipulate the lock of the doors. It can lead to personal injuries. If the cabinet does not stop when the doors are opened during the drying phase, call for service. The cabinet shall not be used if the drying program is active when the doors are open!
13. Look after the area around the evacuating pipe so it is clean from dust and dirt.
14. To get the best drying result, follow the garments washing and drying advice.
15. Never use the cabinet if any panel is broken or removed.
16. Never use the cabinet if any parts are broken or if the inside is broken.
17. Never try to manipulate or connect past any safety functions.
18. If the cabinet is not assembled after the manufacturer's instructions, there is a risk that the cabinet can cause personal injuries or injuries on property.

Specification

Dimensions

Measurements shown in millimeter (mm).



A = Electrical connection

B= Exhaust

Technical Information

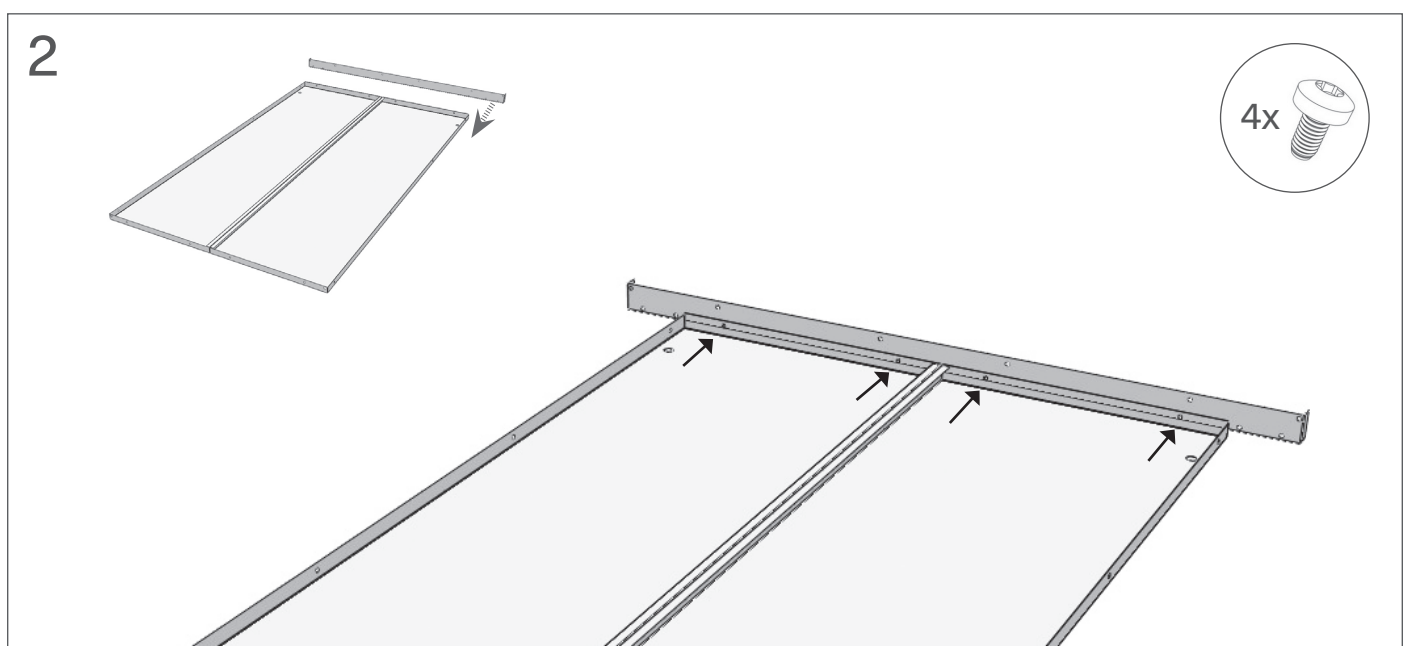
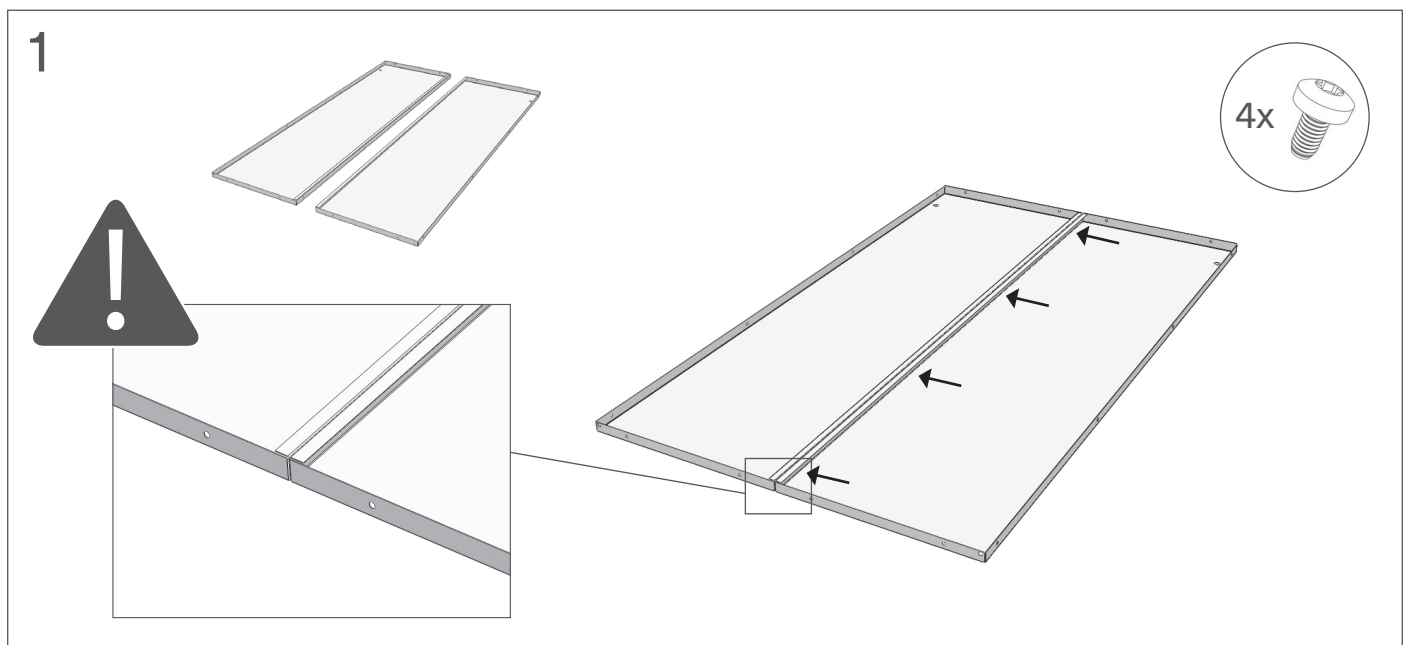
Machine type		Drying cabinet	
Product No.		234002	
Warranty		3 years limited	
Color		Grey	
Mail data			
Type		Air vented	
Hanging length (swinging hanging rail)	ft/m	52.5/16	
Capacity (dry weight)	lb/kg	22/10	
Interior capacity	cu ft/L	34.7/983	
Drying capacity	oz/min	2.2	
Drying capacity	g/min	62	
Energy consumption	kWh	3.0	
Noise emission	dB(A)	62	
Prepared for payment system		Standard	
Reversible swinging hanging rail system		Standard	
Electrical connection			
Supply voltage	V	240 V, 1P, 60Hz	
Electric heating	W	4500	
Electric fan	W	350	
Total effect	W	4850	
Protection	A	30	
Dimensions			
Outer: width x depth x height	in/mm	47 x 25.2 x 74/1200 x 640 x 1870	
Shipping outer: width x depth x height	in/mm	49 x 28 x 81/1250 x 700 x 2050	
Weight			
Weight	lb/kg	≈320/145	
Shipping weight	lb/kg	≈351/159	
Ventilation			
Outlet exhaust	Ø in/mm	6/152	
Outlet airflow	cfm/m³/h	135/230	
Pressure drop, max	psf/Pa	1.46/70	
Maximum airflow (at 0% pressure)	cfm/m³/h	200/340	

Assembly instructions

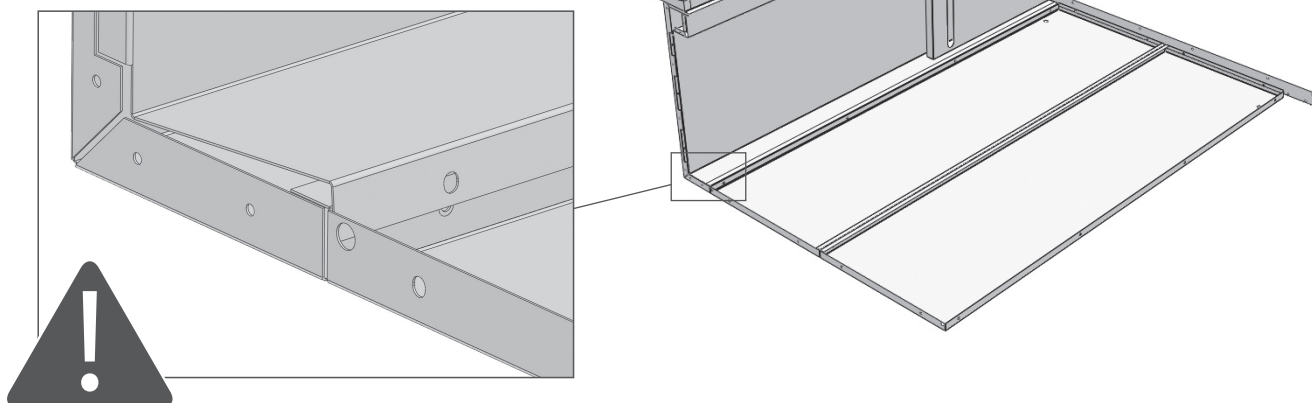
Tools

You need the following tools to easily install the drying cabinet, :

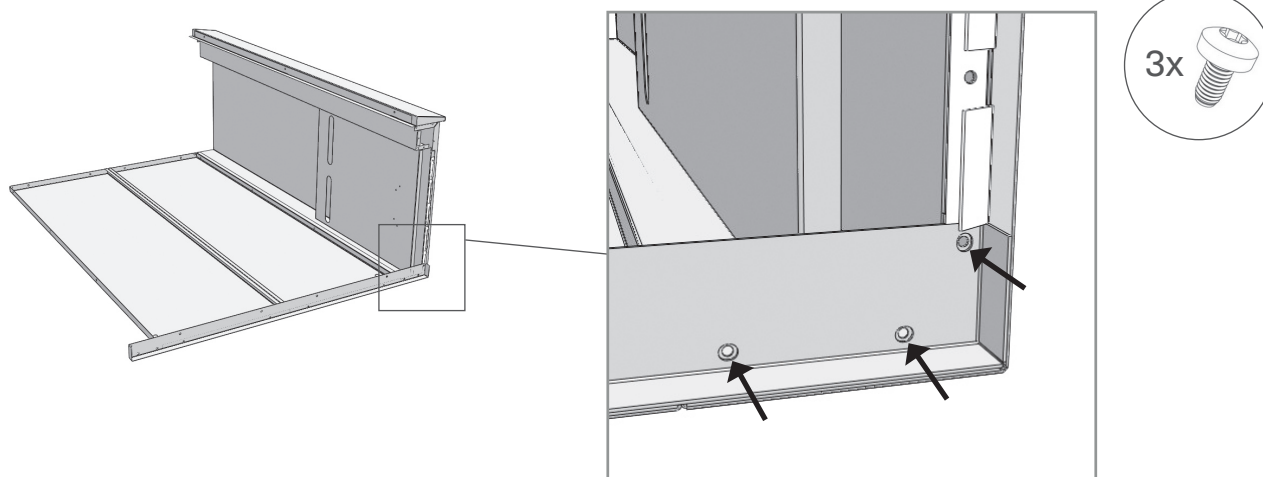
- Cordless screwdriver
- Wrench
- Hex key 3 and 5 mm
- Level
- Torx screwdriver bit no. 25



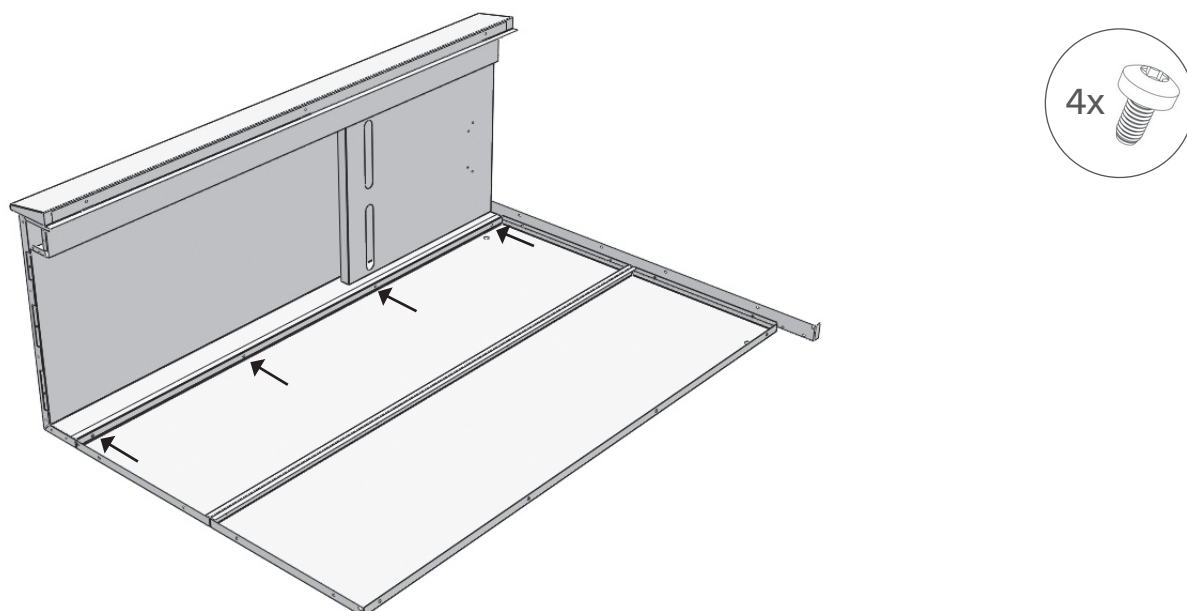
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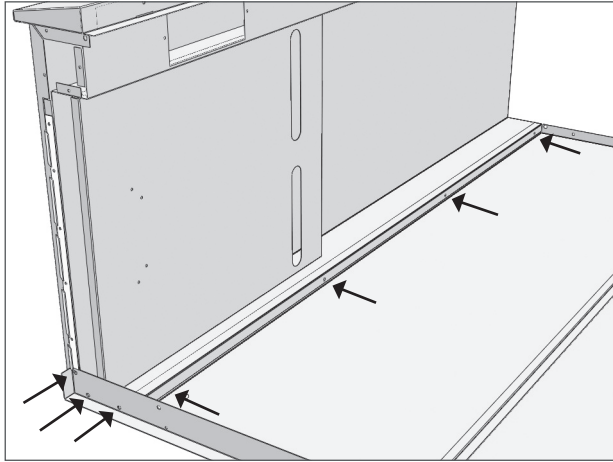
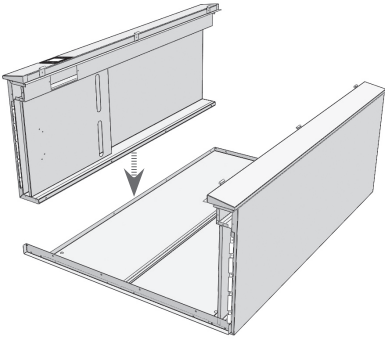
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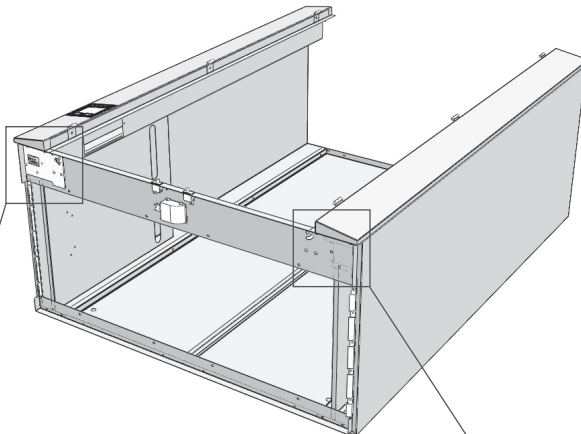
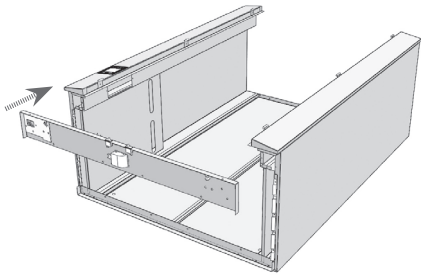
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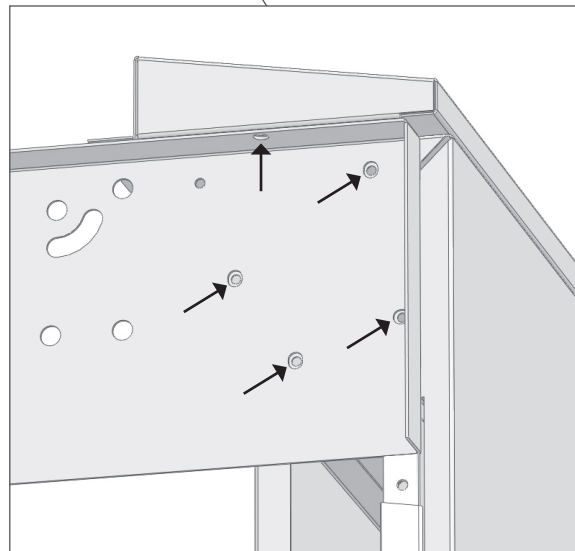
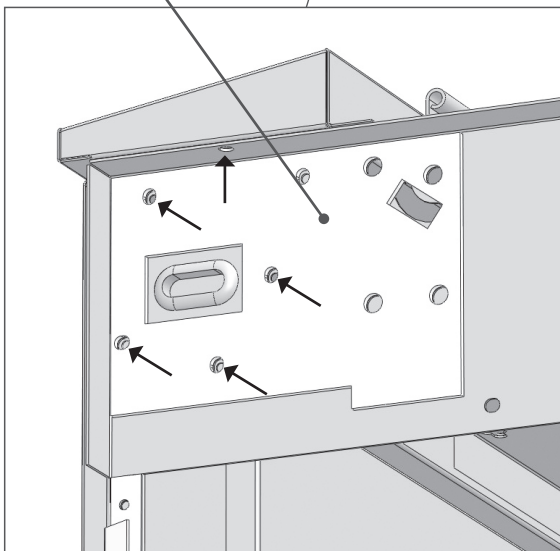


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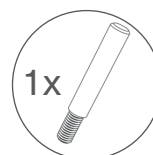
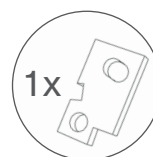
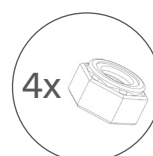
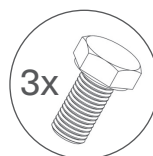
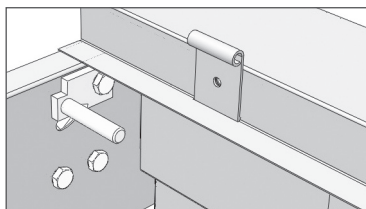
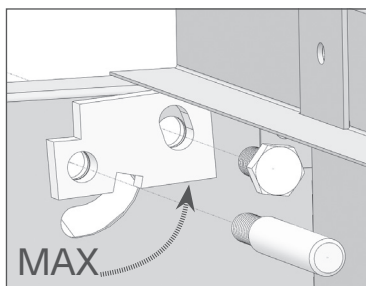
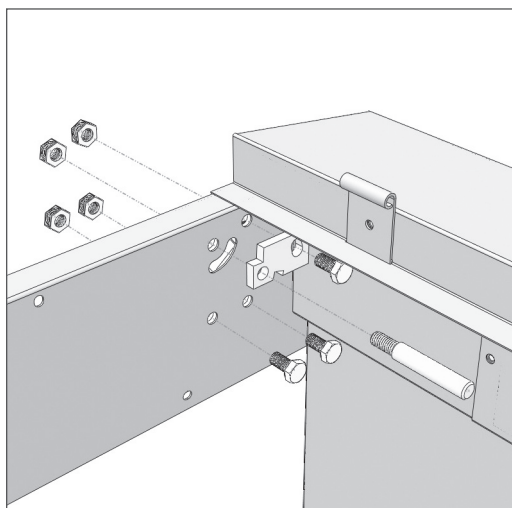


Note!

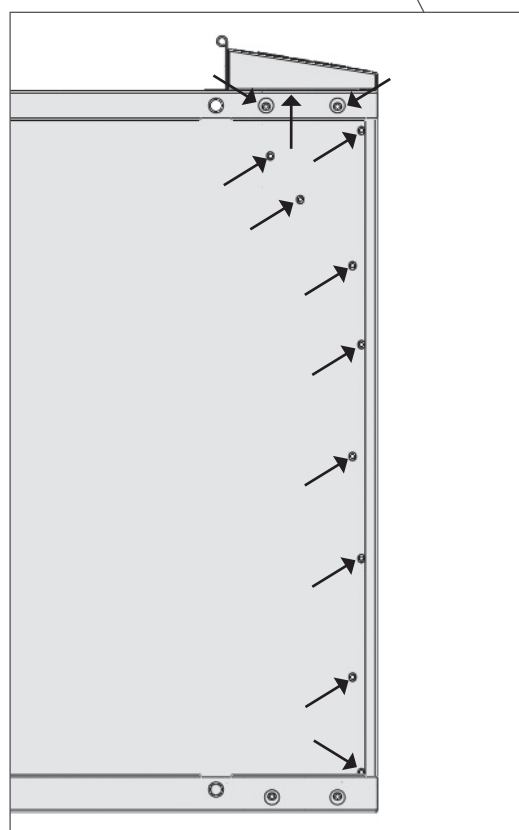
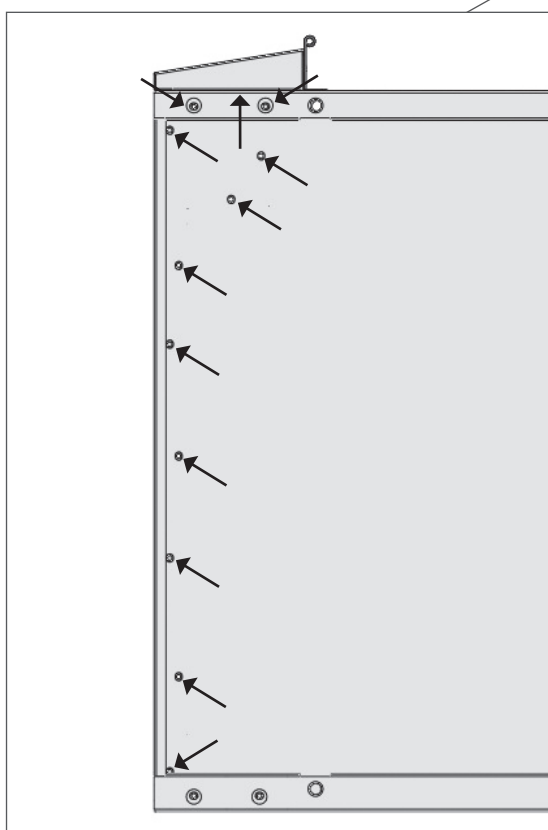
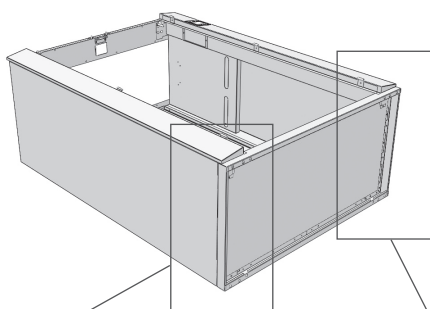
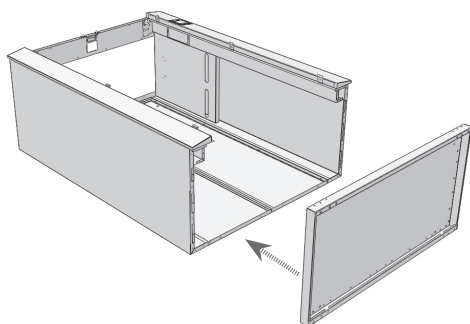
Only for cabinets with hang-
ing frame.



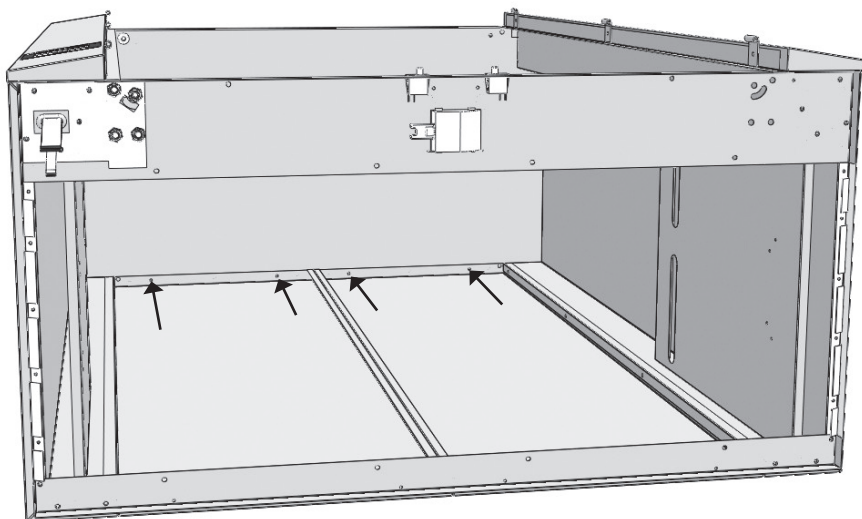
8 Note! Only for cabinets with hanging frame



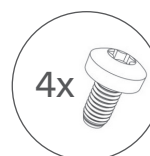
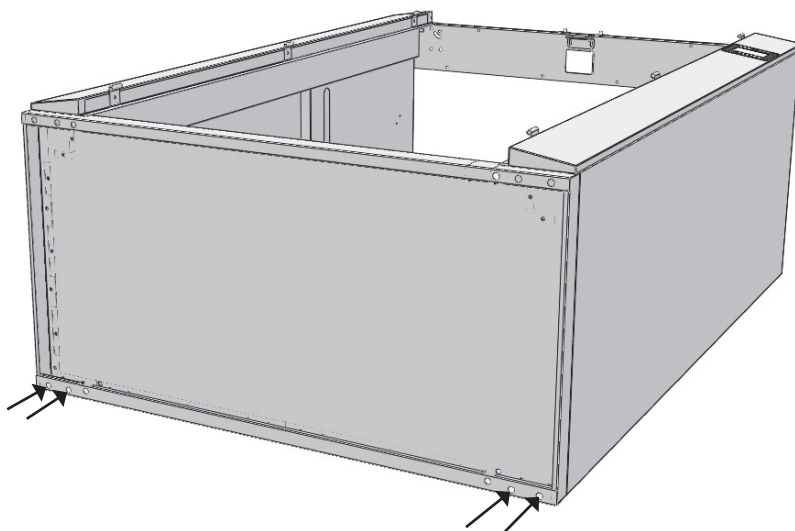
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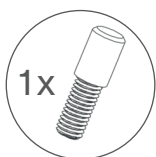
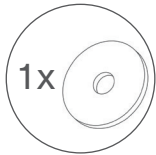
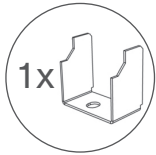
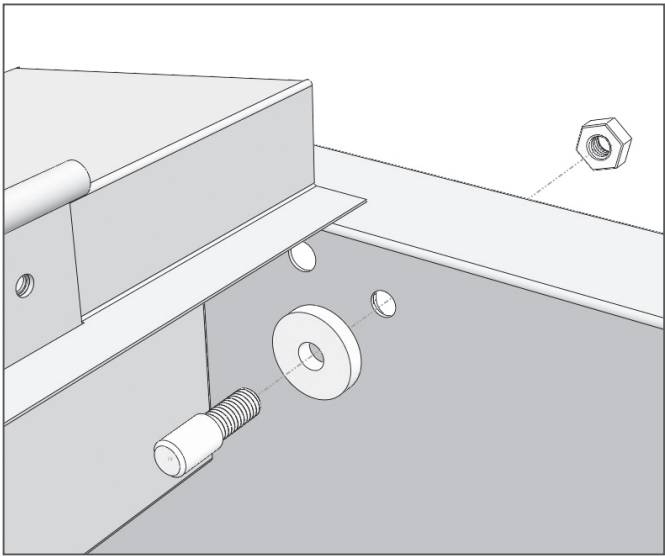
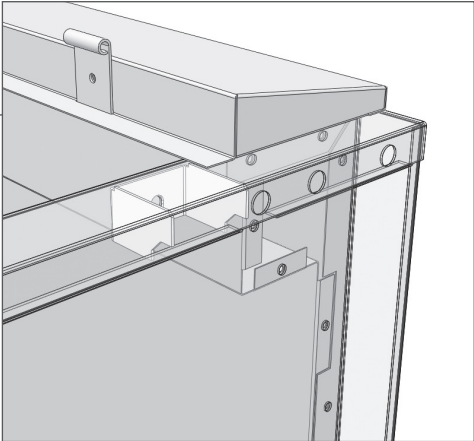
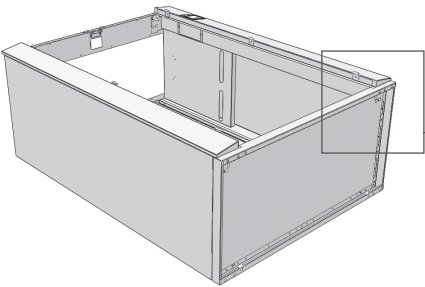
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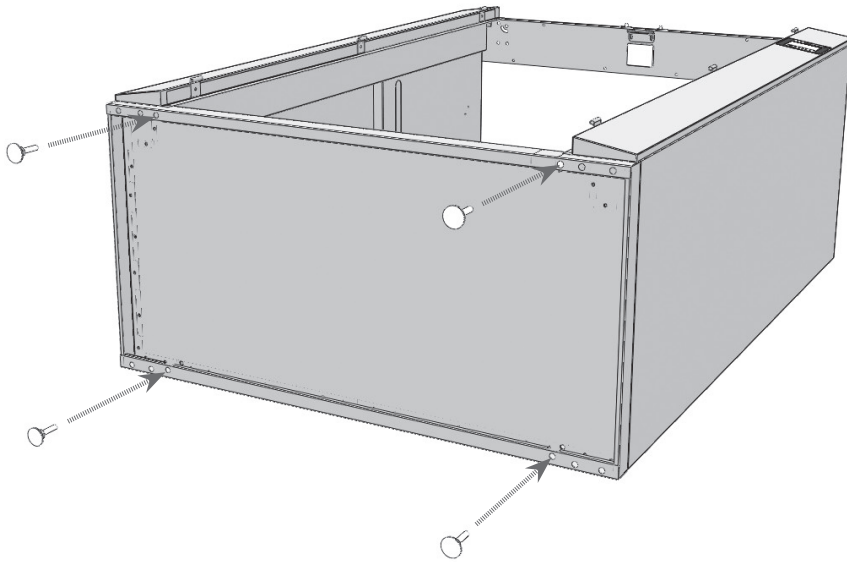
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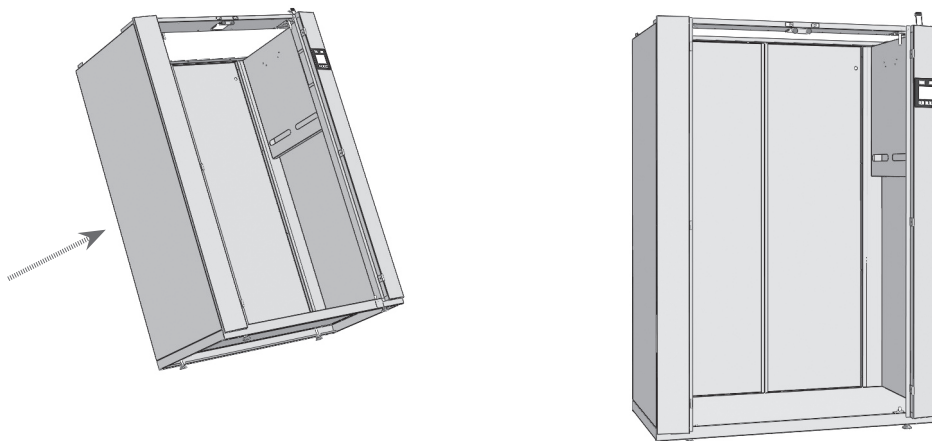
12 Note! Only for cabinets with hanging frame/swinging hanging rail



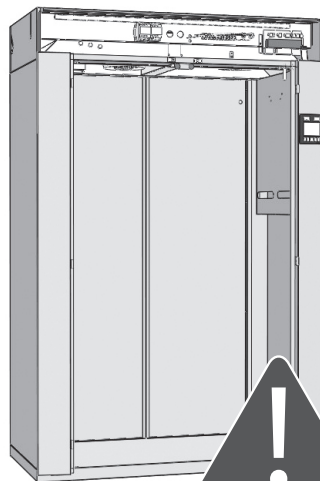
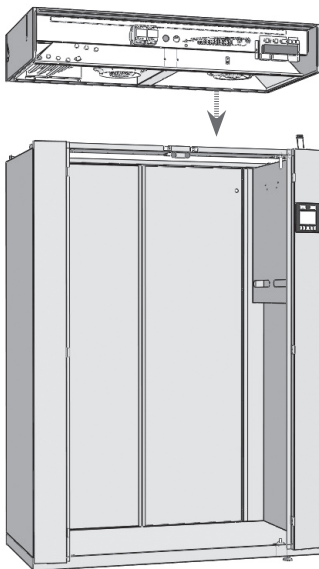
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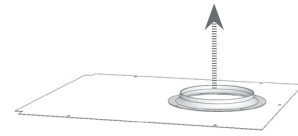
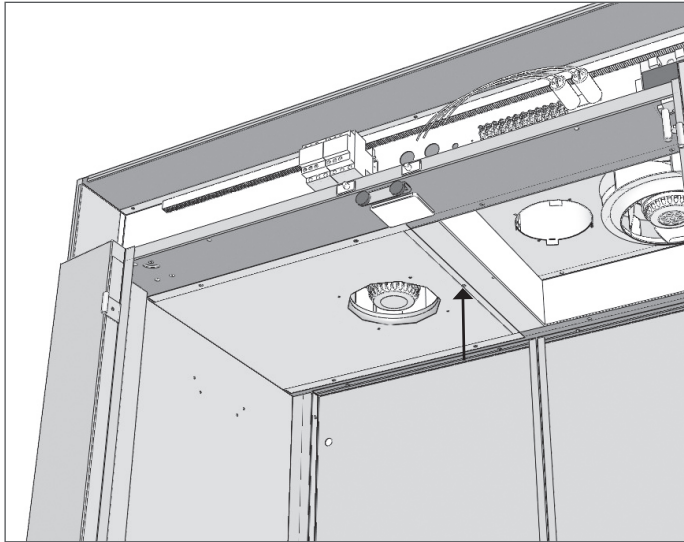
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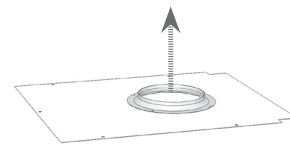
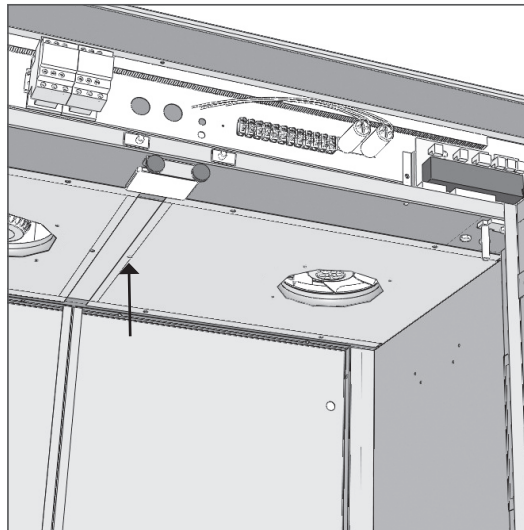
WARNING

When positioning the top, make sure no cables get caught between the top and the frame.

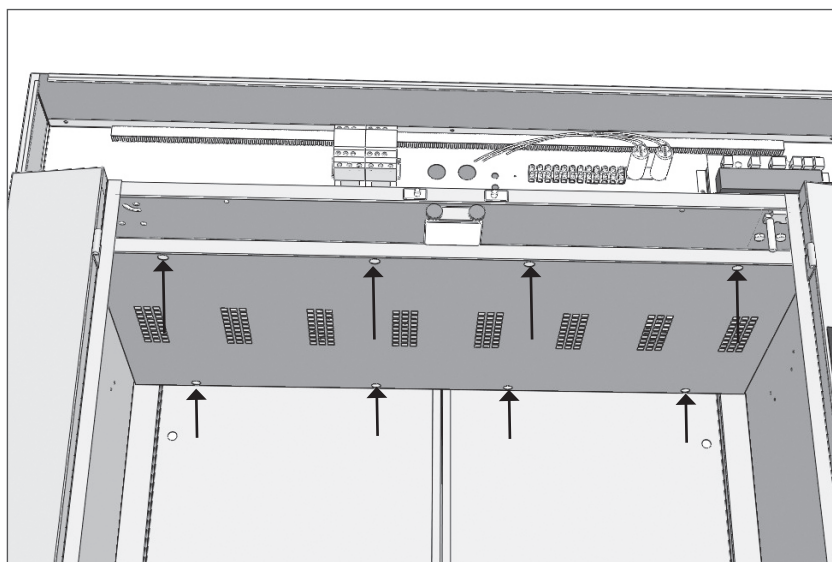
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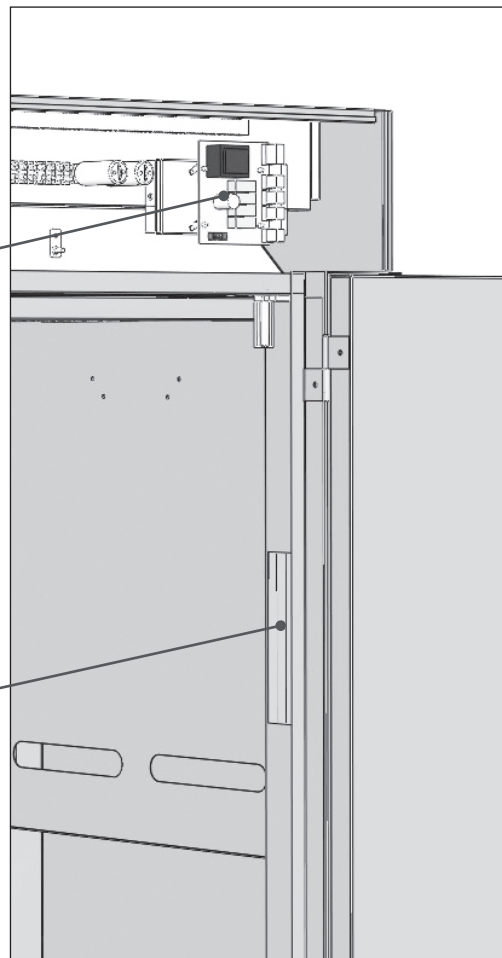
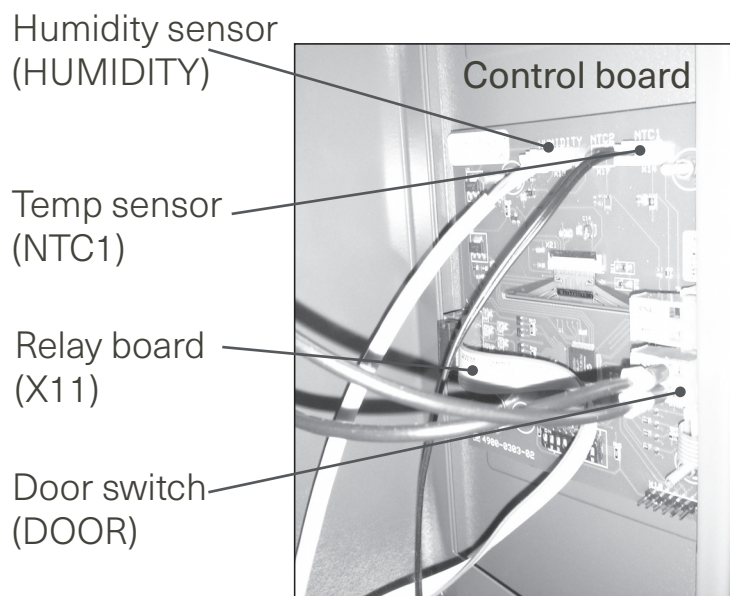
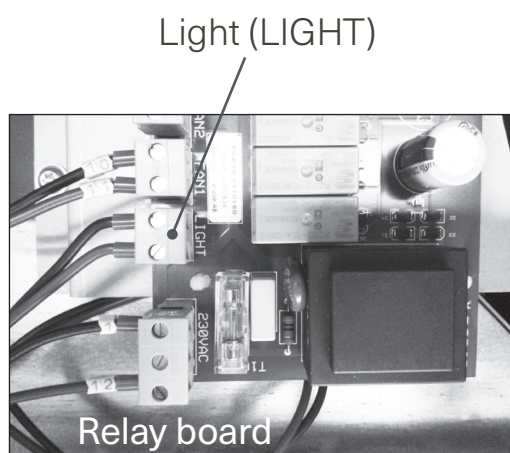
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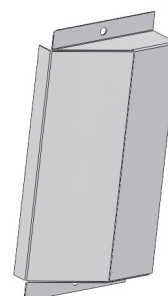
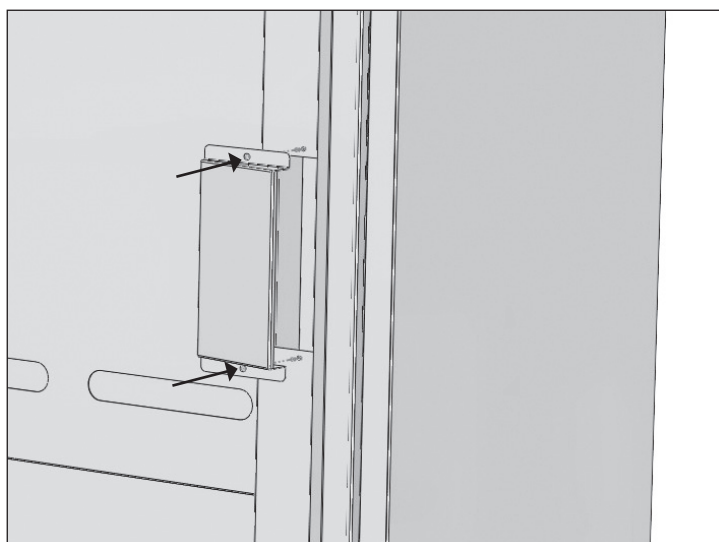
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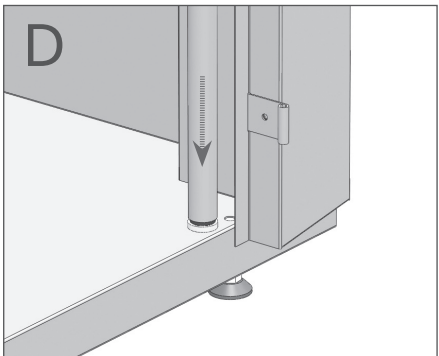
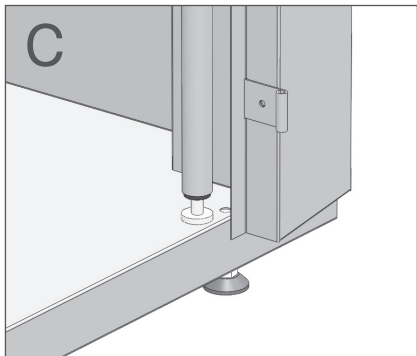
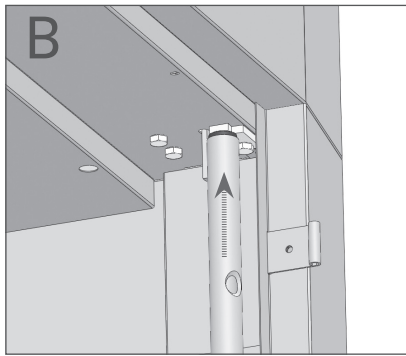
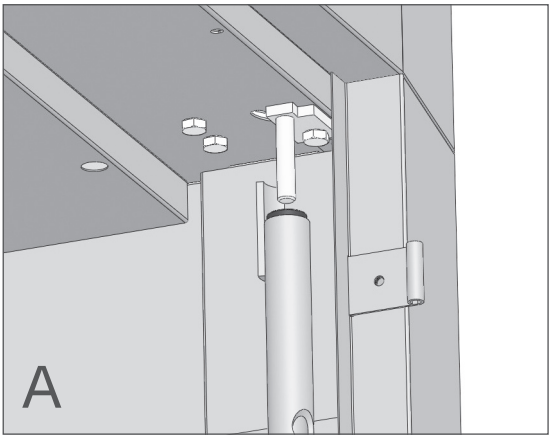
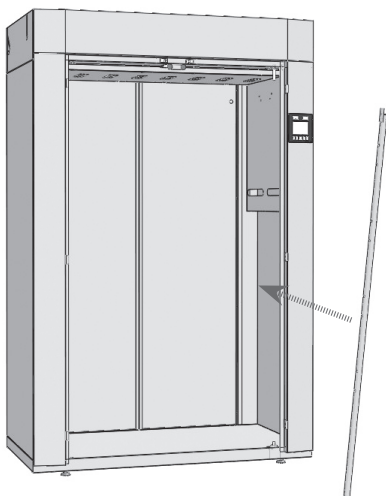
19 Connect the cables



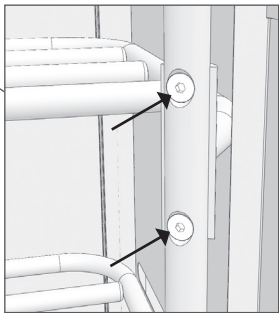
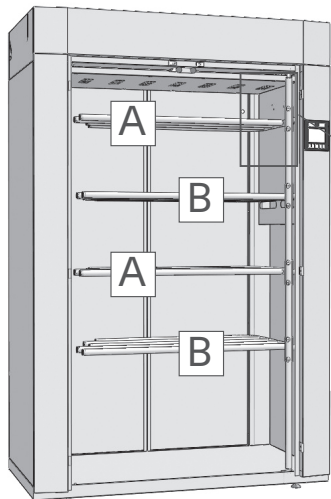
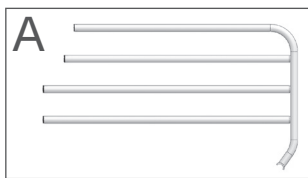
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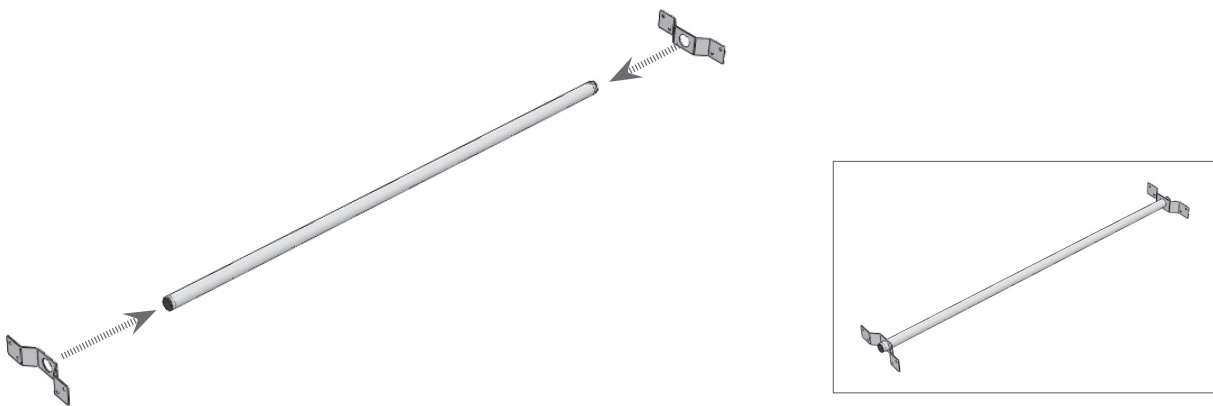
21 Note! Only for cabinets with hanging frame/swinging hanging rail



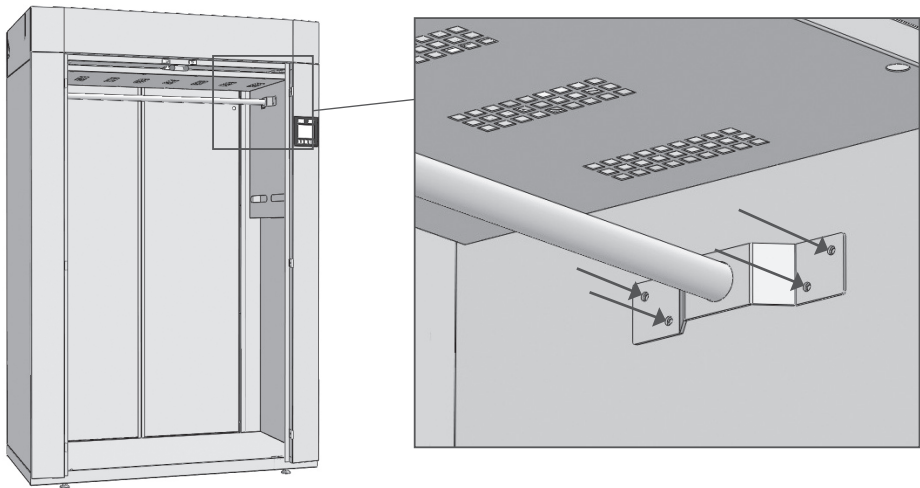
22 Note! Only for cabinets with hanging frame/swinging hanging rail



23 Note! Only for cabinets with single rack bar

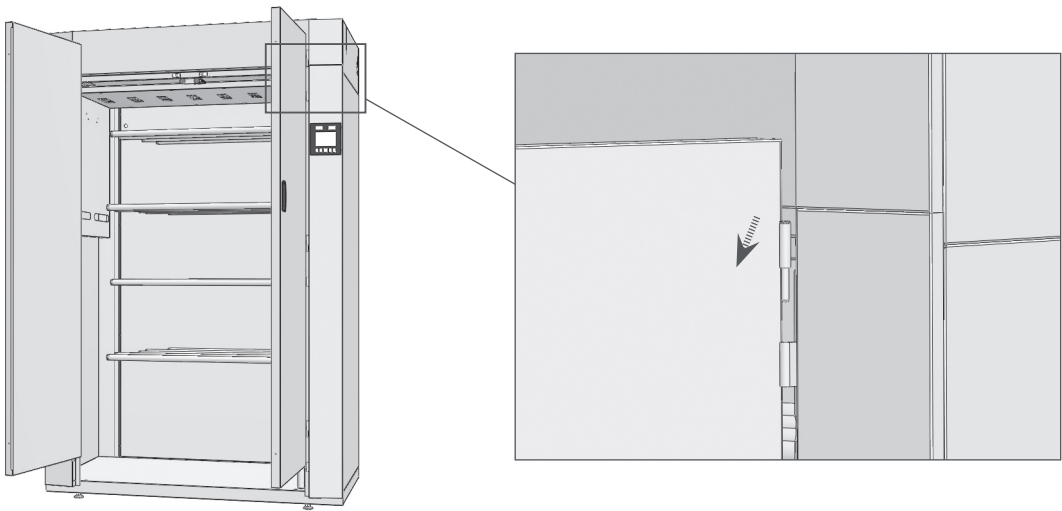


24 Note! Only for cabinets with single rack bar

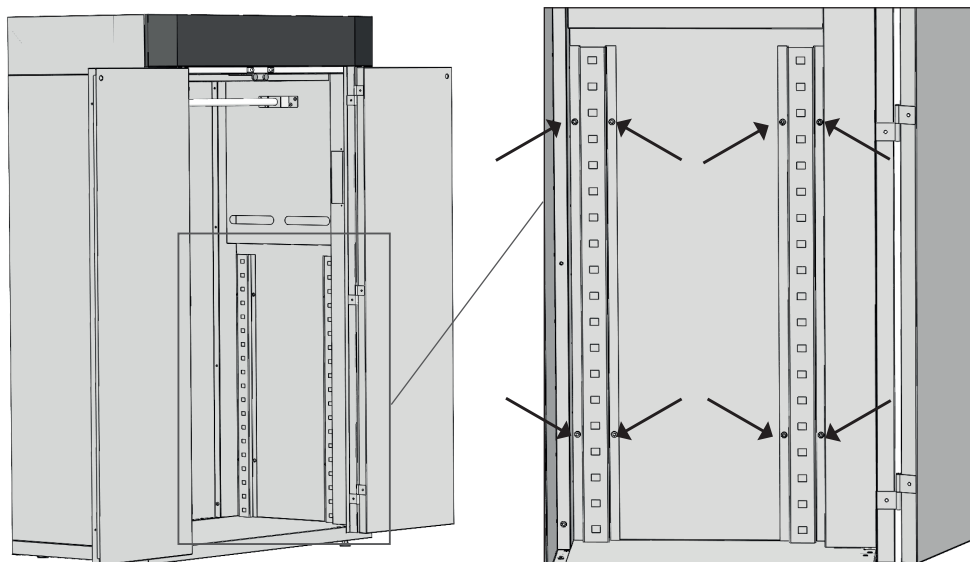


Repeat on left side

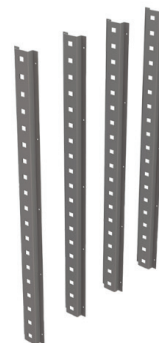
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26 Note! If shelf rails are not already pre-installed

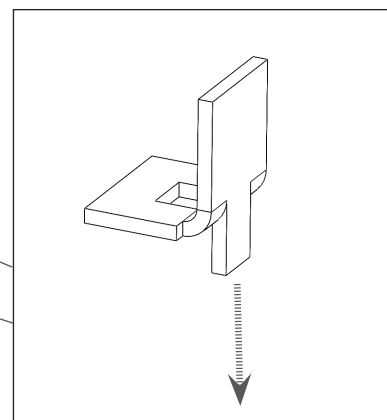
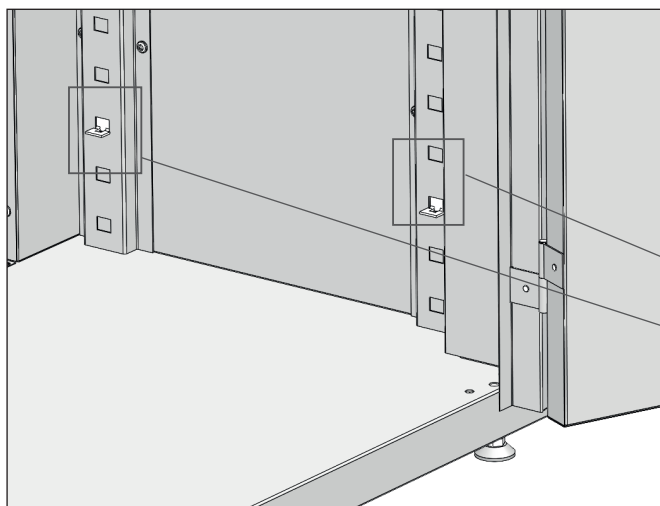


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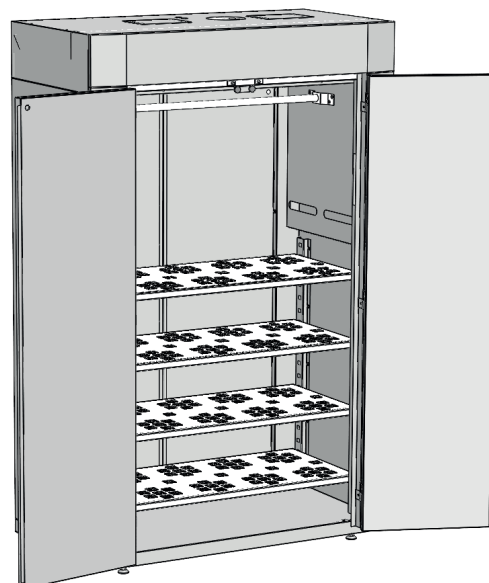
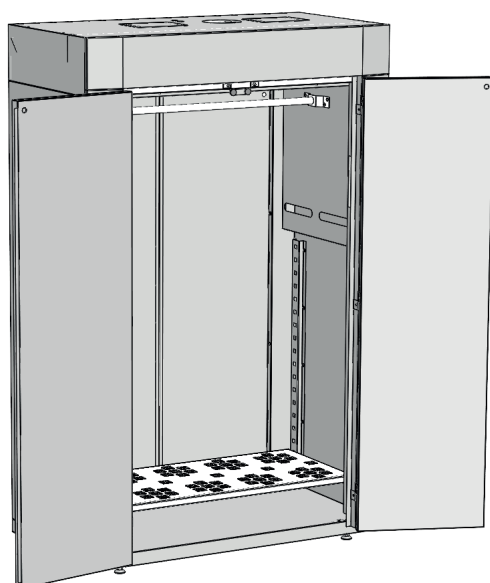


Repeat on left side

27 Shelves with holders are sold separately



28



Installation of the cabinet

Step 1: Put the cabinet in place

Place the cabinet with enough space in front of the cabinet and on the sides to be able to open the doors.

The feet of the cabinet can be adjusted from the inside with the help of a Hex key. The feet must stand free on the floor and have an even weight distribution. Use a leveler and control that the cabinet is leveled; horizontally and vertically.

NOTE: We recommend that the cabinet is installed on a firm and leveled floor.

Please observe that the front panel (on the top) must have at least 6.8 in / 175 mm free space above, in order to take off the top to perform service.

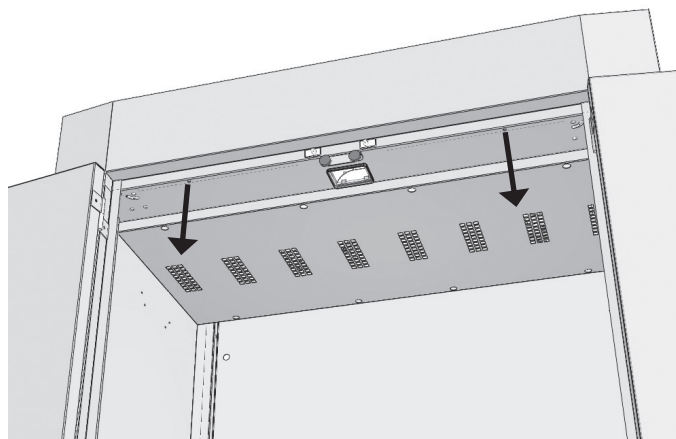
Narrow spaces

If the cabinet must be transported through narrow spaces, we recommend that you take off the doors first. It will simplify the handling and reduces the risk for damages on the doors.

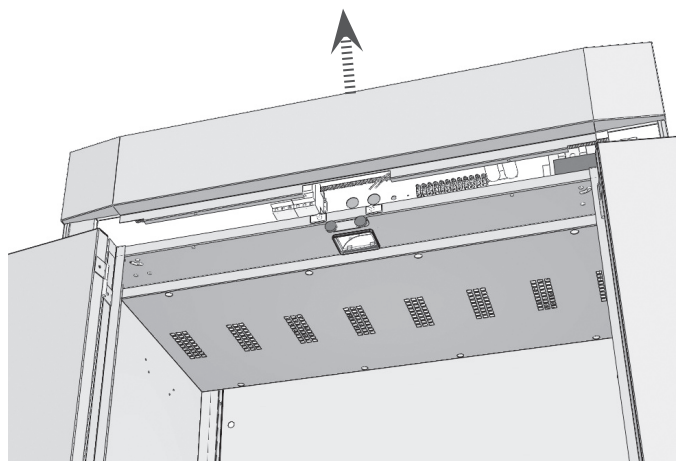
Demounting of the top

To simplify the transport of the cabinet, the top can be demounted, see the instructions below.

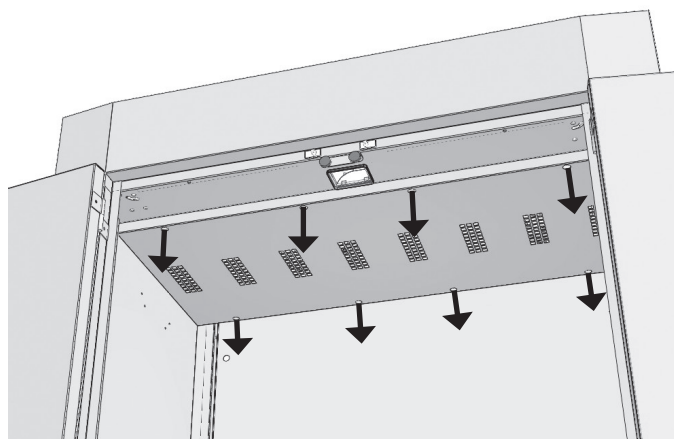
1. Loosen the two screws which hold the front panel of the top.



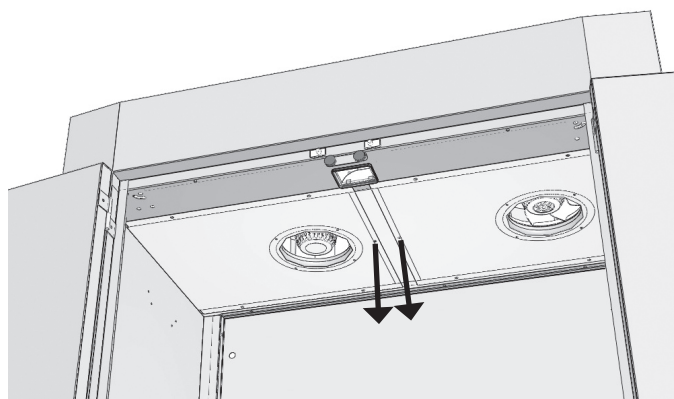
2. Push the panel upwards.



3. Disconnect the bulb's connection plinth marked "LIGHT" and the flat cable connected to "X11" from the relay board.
4. Open the service hatch to access the program board (side frame of the cabinet). Disconnect the temperature and humidity sensor cables and the door switch cables. Pull up the cables through the rubber grommet.
5. From the inside of the cabinet, loosen the protection plate (8 screws).
6. Loosen both service hatches which cover the fans. 1 screw on each service hatch.



7. Lift the top off.

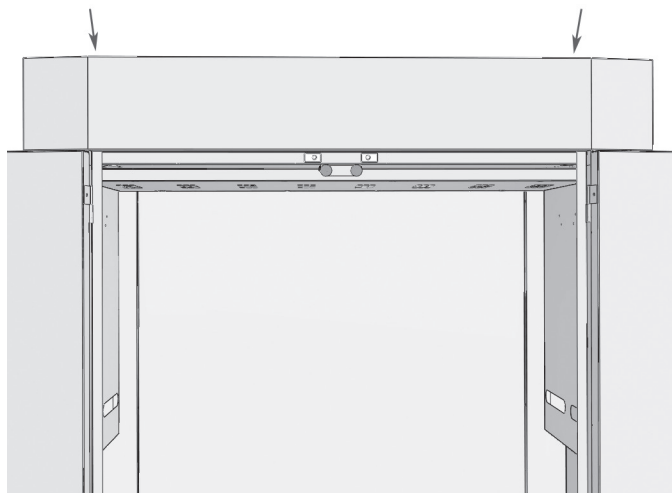


CAUTION

There must be two persons to lift the top in a safe way. Don't try to do it on your own, the weight is 66 lbs / 30 kg!

Step 2: Fasten the cabinet to the wall

Use the angle irons to secure the cabinet to the wall. The mounting holes are placed at the top of the cabinet. The angle irons can be adjusted to fit the distance to the wall.



NOTE: Please control that the cabinet is leveled and cannot be tilted.

WARNING

Cabinet needs to be fastened to the wall for safety.

ATTENTION

Never place the cabinet in direct contact with wooden material. Always use the stoppers to prevent the cabinet from direct contact to a wooden wall. Leave a security distance of at least 1.2 in / 30 mm.

Step 3: Connect the cabinet to the ventilation channel

For further instructions, see page 27; Requirements for ventilation.

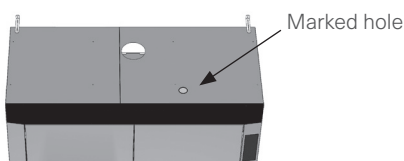
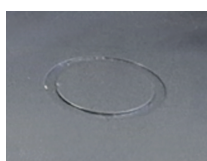
- Do not use ventilation channels made of plastic or foil.
- Place the cabinet so that the ventilation channel is as short as possible.
- Make sure that the ventilation channel is cleaned when a new cabinet is installed.
- Use a 6 in / 152 mm rigid or flexible metal duct to the evacuation connection.
- If you use rigid ducts, it is important that the male connector of the ventilation tube on each section follows the air direction.
- The construction shall be as straight as possible.
- Always isolate ducts that go through non-isolated areas. The condensation makes dust and dirt get stuck in the channel.

NOTE: If the cabinet is not connected according to these recommendations, the warranty is no longer valid.

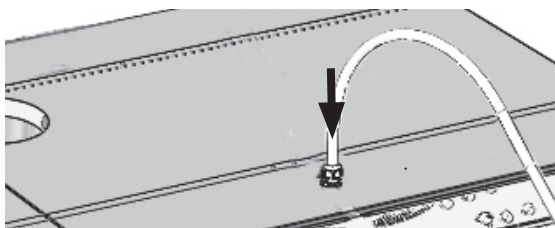
Step 4: Connect the drying cabinet to the main switch

To prevent that fire and electric shock appear, the cabinet **MUST** be connected according to the color codes on the cables. Only an authorized electrician is allowed to install the electrical connection. The cabinet is prepared for 240 V, 1P, 60 Hz electrical connection. You can also see which electrical connection your cabinet is prepared for by looking at the technical sticker inside your cabinet or by contacting the support number.

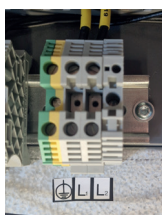
- Make sure the front panel is removed before connecting the power cable. If not removed, detach the front panel by loosening two screws underneath (refer to the picture to the right). Gently lift the panel upward to reveal the electrical connections.
- Find the designated marked hole situated at the front end of the top panel.



- Punch out the appropriately sized hole that corresponds to the chosen power cable.
- Mount the strain relief within the punched-out hole.
- Insert power cable.

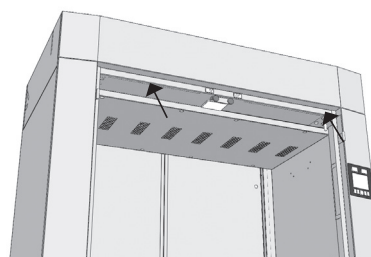
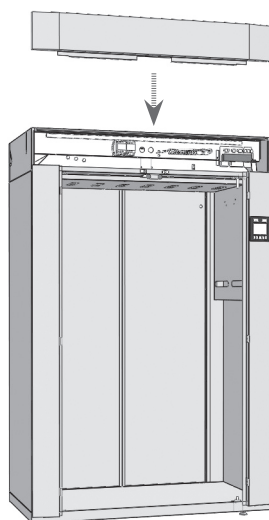


- Connect hot wires and ground to the connection point (see picture below)



240 V, 1P, 60Hz, 30A
 ⊥ - ground
 L1 - Hot wire 1
 L2 - Hot wire 2

- Tighten strain relief.
- Reattach the front panel



- The cabinet is now prepared to be connected to the main switch/breaker.

WARNING

When front panel, make sure no cables get caught between the top and the frame.

WARNING

It is always the buyer that has the responsibility to check that an authorized electrician makes the electrical connections of the cabinet.

WARNING

To prevent personal injuries, the cabinet shall always be connected permanently through an all pole main switch. Always ground the cabinet.

Also check that the connecting cable has a strain relief bushing. If not, there is a risk that the cabinet will be live.

Step 5: Control that the heating relay is working

Shut the doors and start the cabinet, after about 3 seconds you can hear when the heat relays hit. Wait a couple of minutes and control that the outgoing air channel becomes warm.

If the outgoing air channel does not get warm, go back to step 4 and control that the electrical connection is installed correctly.

WARNING

The manufacturer disclaims all liability if the electrical connection has not been carried out in the way described in this use and care manual.

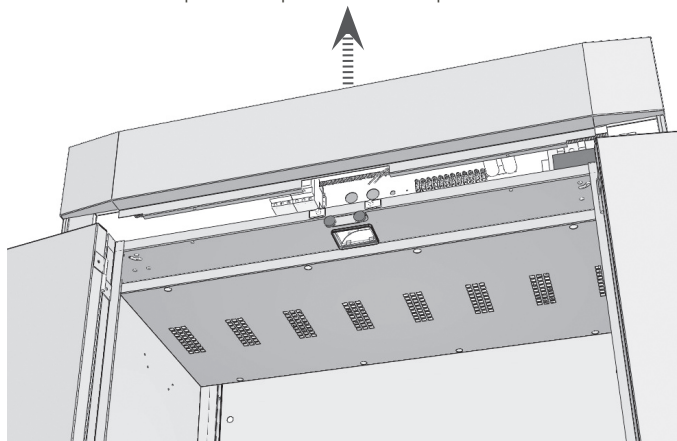
WARNING

If the power cord is damaged for any reason, it must be replaced.

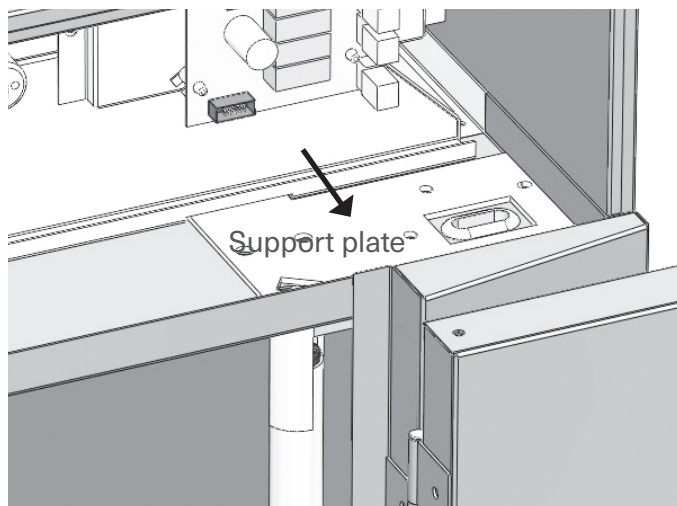
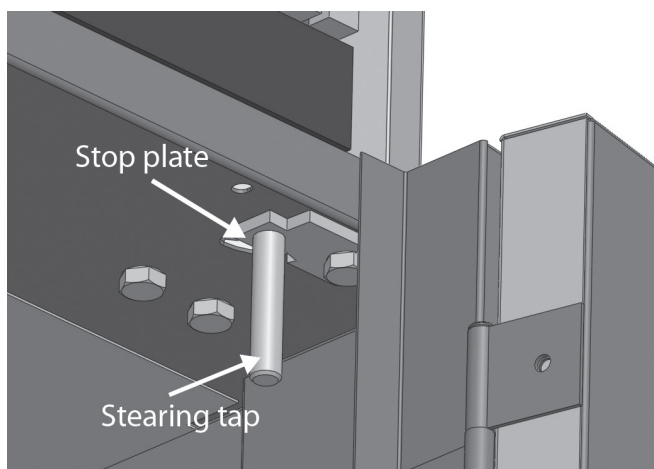
Turn the hanging frame/swinging hanging rail

The hanging frame can be turned. The cabinet is delivered with a right-hung stand as standard. If a left-hung position is desired, follow the instructions below. The same principle naturally applies if the stand needs to be turned from the left to the right side. Follow the steps below.

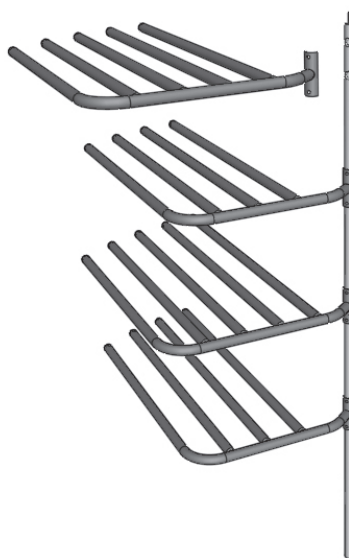
1. Lift up the hanging frame and hook it off the tap below. Put aside.
2. Loosen and push the panel on the top.



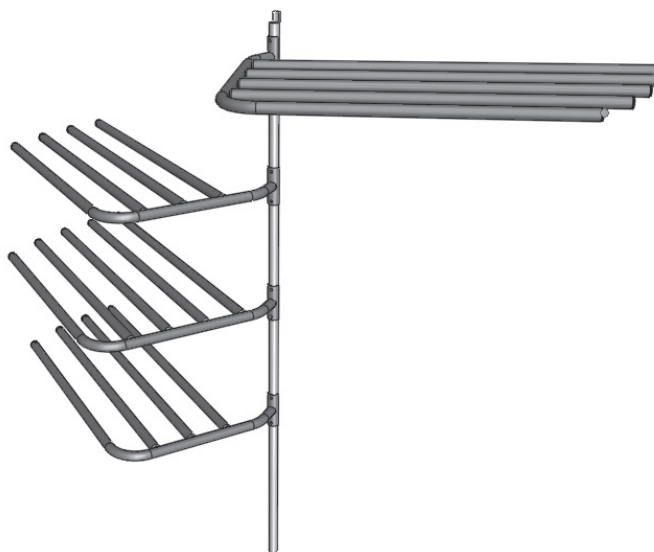
3. Loosen the three bolts, the upper steering tap and nut and the five torx screws which hold the plate and which support the stop plate. The drawings below shows where these parts are.



4. Disconnect the cables which are passing through the rubber grommet on the support plate, from the keypad and LCD to the main control board. Open the service hatch next to the program board to access the cable connections.
5. Lift up the plate and remove the cables. Connect the cables to the board again.
6. Before the support plate is assembled on the other side of the cabinet; loosen the five torx screws on the left hand side.
7. Put the support plate on the side to which the hanging frame will be moved.
8. Re-assemble the torx screws. Thereafter, fasten the bolts, upper steering tap and the stop plate.
9. Put the front panel back on again.
10. Loosen and move also the lower tap to the opposite side.
11. To get the arms on the frame on the same level, each hanging level must be turned "upside down". Loosen the upper hanging level from the frame.



12. Rotate the hanging level 180° and fasten it again.



13. Repeat the same procedure with the three remaining hanging levels.
14. Put the hanging frame back in and put the pole on the upper tap. Lower the pole so that it fits to the lower steering tap.
15. Control that the frame can be turned and that the stop function works properly also in the outer positions.

Adjust the rotary inertia of the hanging frame

At the top of the hanging frame pole there is a bolt for adjusting the rotary inertia. If the hanging frame rotates with insufficient resistance the bolt can be tightened.



Requirements for ventilation

WARNING

A drying cabinet produces inflammable dust. To minimize the risk for fire, the evacuation of the cabinet must be connected to a ventilation channel that evacuates the air.

Never let the evacuated air into a room or a surrounding where there is a risk for ignition.

Do not use ventilation channels in plastic or fire dangerous material.

Ventilation channel – choice of material

Ventilation channel, ducts, connections etc are not included.

The ventilation channels shall be at least 6 in / 152 mm in diameter and should not have channels or similar on the inside.

We recommend that the ventilation system is built with rigid metal ducts for best result. Flexible evacuating ducts for drying cabinets can also be used.

NOTE: Never use flexible ducts through walls or other covered areas.

NOTE: Do not screw or nit the ventilation channel, so that the screws will come through the inside of the pipe. This construction will gather dust and impair the cabinet's performance.

The channel shall always be separated from the other ventilation in the house.

Requirements for incoming air

In order to make the cabinet work properly, it is very important that there is enough incoming air in the room. If the cabinet is installed according to this manual the air flow from the exhaust will be about 135 cfm / 230 m³/h. Incoming air must be at least equal to the outgoing flow. We recommend the incoming air flow to the room to be greater than the evacuated amount.

If the cabinet is placed in a room where the incoming air is not enough, we recommend that you install an air exchanger.

Ventilation channel – design

IMPORTANT: Always make the channels as short as possible.

NOTE: If a drying cabinet is installed in an old ventilation channel, please clean the channel properly.

In order to make the cabinet work properly, the incoming airflow must be enough. The amount of evacuated air per hour is depending on how high the pressure fall in the ventilation channel is.

Material, the design and the length of the channel have a large impact on the air flow. In order to get the best possible performance, the pressure fall shall be as low as possible.

When the air is transported through the channel, it is exposed to different kind of resistance. Factors that give a low pressure fall:

- Smooth inner walls on the pipe
- Large diameter on the pipe
- Short length on the pipe
- Few curves
- Few angles (90 degrees)

Evacuated amount of air and pressure fall

In order to get the cabinet to work properly, the ventilation channel shall be designed to get an out coming air flow from the cabinet of about 135 cfm / 230 m³/h. When the cabinet is installed to an existing channel system, the cabinet can be calibrated to optimize the air flow.

In order to gain this air flow, the pressure fall must not exceed 70 Pa. By an airflow of 135 cfm / 230 m³/h and a diameter of the pipe of 6 in / 152 mm, this corresponds to a straight, smooth ventilation channel of 25 yd / 23 m.

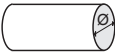
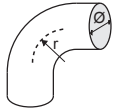
Pressure fall estimation

The counter pressure in the ventilation channel can be measured with a pressure meter. The measuring point shall be placed by the cabinets evacuating outlet.

In order to estimate the pressure fall without meter equipment we recommend the following:

- Identify the ventilation channel's incoming components in the air flow direction.
- Check the part pressure fall for each component in the table.
- Calculate the total amount of pressure fall by adding each parts pressure fall.

The table shows the most common components in a ventilation system. The information shall be considered as approximate data. For more information, contact the manufacturer of the parts of the system. Please note that the data in the table is for an air flow of 135 cfm / 230 m³/h.

Component		Pressure fall	
Circular channel	ø, in / mm	Pa/m	
	6 / 152	1,0	
Pipe bends 90°	ø, in / mm	r, in / mm	Pa/bend
	6 / 152	6 / 152	2,5

Example: 10 m / 10.9 yd long 152 mm / 6 in channel with 3 pipe curves which gives an estimated pressure fall of $(10 \times 1) + (3 \times 2,5) = 17,5$ Pa.

NOTE: If the highest allowed level of air pressure is exceeded an external fan could be needed. Otherwise the drying result is effected negatively. This cabinet is prepared for an external fan. Contact your local dealer for more information.

Decrease the outgoing air flow

The cabinets function and automatic programmes are optimized for the recommended air flow of 135 cfm / 230 m³/h. If the design of the ventilation is made so that evacuated air flow exceeds 135 cfm / 230 m³/h, the evacuation can be throttled with help of a damper. Contact a ventilation expert in order to find a proper solution for your ventilation.

User manual

Fill the cabinet

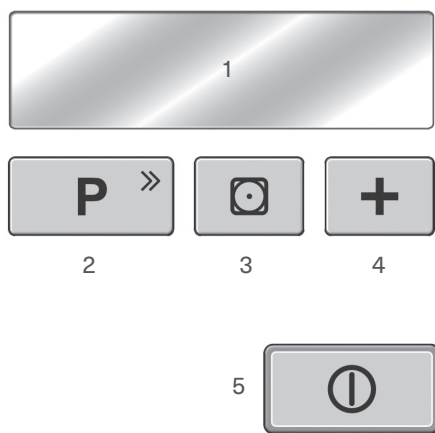
To get the best drying result: dry the same type of material at the same time. Never fill the cabinet with more than 18 lbs / 8 kg laundry (dry weight).

Close the doors

The cabinet will not start until the door is completely closed.

Keypad

1. Display
2. Program select*
3. Gentle drying ON/OFF
4. Increase time
5. Start/stop



* Program fast forward during drying.

Select program

Change program by pushing program select (button 2). The symbol of the chosen program gets highlighted and the program name is showed on the screen. Read more about the different programs below.

Start program

Push start/stop button (button 5) in order to start the drying cabinet.

Pause program

To pause a working programme, open the doors. Close the doors and push the start button to continue drying.

Cancel program

To cancel a working program push the start-/stop button.

CAUTION

If a program is interrupted before the cool down has finished, the inside of the drum could be very hot.

Cool down

All programs have a cool down phase of 10 minutes. This cool down time is included in the chosen time for the timed drying program. During cool down the clothes are reconditioned and the drying cabinet is cooled down. A running program can be fast forward to cool down using the P-button.

Standby

If no button has been pushed and the door hasn't been opened or closed within 4 minutes, the display is turned off. The diode and the lamp in the cabin is also turned off if the door is open.

Automatic programs

The drying cabinet is equipped with the function HTS – Humidity Tracking System. This function is activated in the automatic program mode. The drying time adjusts to the laundry in the cabinet and is controlled by the humidity sensor.

To choose automatic program mode

Choose automatic program by pushing button 2 (P-button). The cabinet has four different programs:



IRON DRY

For laundry to be ironed.



SLIGHTLY DRY

For laundry that will not be ironed or only lightly ironed.



CABINET DRY

For laundry that will not be ironed.



EXTRA DRY

For particularly thick fabrics.

Select drying time manually



TIMED DRYING

The cabinet has a timed drying program for the user who prefers to set the time manually.

Set the time

The default drying time when entering Timed drying program is 0:15h. Increase the drying time with the plus button. The drying time can be increased to a maximum of 3:00h.

Gentle drying

For delicate fabrics and synthetics gentle drying should be used. The temperature is reduced. Activate gentle drying mode by pushing button 3 during program select.

Maintenance

Take good care of the cabinet

Only use a damp cloth with a mild detergent when cleaning the cabinet.

Never use solvent to clean the display.

Ventilation system

Loosen the ventilation pipe on the cabinet every year and clean if necessary around the evacuating channel.

IMPORTANT: Always switch off the electricity before starting to work with the cabinet.

Inspect with set intervals the complete ventilation channel; don't forget the outer wall. There can easily be leaves and other rubbish that chokes.

We recommend that you once a year, take down the service doors and vacuum clean around the fans and elements.

Keep your cabinet efficient and economical

- The ventilation channels shall be as short as possible.
- If possible, dry the same type of textiles at the same time.

WARNING

The front panel should only be opened by an authorized electrician.

CAUTION: DISCONNECT FROM THE SUPPLY BEFORE OPENING THIS COVER

Warranty

Customer care

If you have encountered a problem that you cannot resolve, please contact your dealer.

www.podab.com
+1 (800) 683-4873
support.na@podab.com

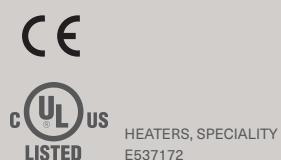
When making contact, provide the details on the serial number plate. Include the product number (1) and the serial number (2).

Service after expiration of limited warranty

For information about obtaining parts and labor after expiration of this Limited Warranty or arising outside the scope of this Limited Warranty, please contact your dealer.

Access our full limited warranty details and register your product on our website here:





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