

Ropox StandardLine Electric

40-14770

User manual and Mounting instructions

This manual should always be in close proximity to the product.




Table of Contents

1.	SYMBOLS USED IN THIS MANUAL	3
2.	GENERAL SAFETY	3
2.1	PRODUCT UNIT LABEL	5
3.	GENERAL REQUIREMENTS	6
3.1	PRODUCT INFORMATION	6
3.2	PRODUCT DESCRIPTION	6
3.3	INTENDED USE	6
3.4	INTENDED OPERATOR	7
3.5	ESSENTIAL PERFORMANCE	7
3.6	NON-CLINICAL FUNCTIONS	7
3.7	CLINICAL FUNCTIONS	7
3.8	PRODUCT DIMENSIONS	7
3.9	OPERATION	8
4.	MOUNTING INSTRUCTION	9
4.1	INSTALLATION INTERFACES	9
4.2	CONNECTION ADAPTERS	11
4.3	LIST OF COMPONENTS	12
4.4	ACCESSORIES	14
4.5	INSTALLATION OF PRODUCT	16
5.	FUNCTIONALITY TESTING	27
6.	SAFETY IN USE	27
7.	CLEANING	28
8.	TROUBLESHOOTING	28
9.	MAINTENANCE	29
9.1	SERVICE SCHEDULE	30
9.2	PLUMBING ACCESS	31
10.	SPARE PARTS	32
11.	ENVIRONMENTAL PROTECTION	32
12.	ELECTROMAGNETIC COMPATIBILITY	33
12.1	SUITABLE ENVIRONMENTS	33
12.2	ADJACENT AND STACKED USE	33
12.3	CABLES	33
12.4	RF PORTABLE EQUIPMENT	33
13.	COMPLAINTS	33




It is important to read this manual prior to mounting and use

1. Symbols used in this manual

Warning Symbol Indication of potentially hazardous situation. If not avoided, it can result in serious injury or death.	
Caution Symbol Indication of potentially hazardous situation which may result in minor or moderate injury. It may also be used to alert against unsafe practices.	
Notification Symbol This symbol is used to notify correct use and handling of the product.	

2. General safety

	<p>This manual must be read and understood before use. Always keep this manual in close proximity of the product.</p> <p>The use, installation and service of this product must be in compliance with this manual to avoid accidents and serious personal injury.</p> <p>Never use or handle this product in other ways specified in this manual as it can result in personal safety hazards and/or cause damage to the product.</p> <p>Persons installing and/or using this product either as operator or user should have the necessary safety information and access to this manual.</p> <p>If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified designated persons in order to avoid a hazard.</p>
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Do not perform repairs, disassembly or assembly operations, add-ons, re-adjustments or modification of the product beyond what is described in this manual. These must be carried out by Ropox or Ropox authorized personnel. Do not perform service while in use.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Do not use the product if it has defects or have become damaged before being repaired or replaced.
If the control box makes unusual noise or smells, switch off the mains voltage immediately.

Take care that the cables are not damaged.

Unplug the mains cable on mobile equipment before it is moved.

The products must only be used in an environment that corresponds to their IP protection.

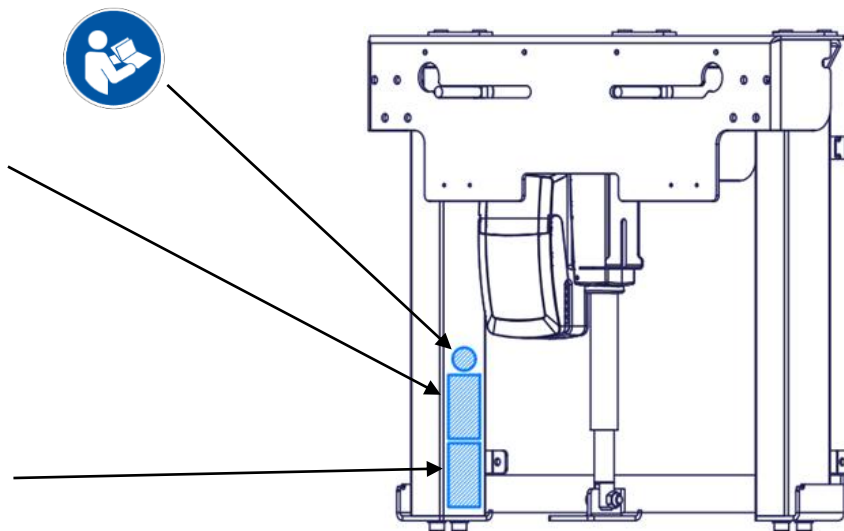
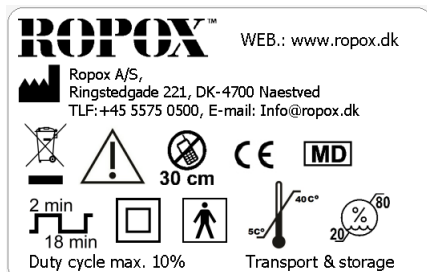
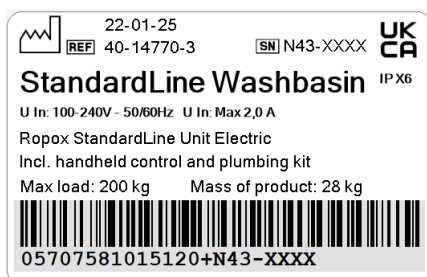


The information in this manual is based on correct installation in accordance with installation instructions for this product.

Ropox cannot be held liable if the product is used in any way that differs from stated in this manual and/or installation instruction.

Ropox reserves the right to amend this manual and reference documents without prior notice.

2.1 Product Unit label



UKCA	This product is UKCA-marked in accordance with: UK SI 2002 No. 618 - <i>The Medical Devices Regulations 2002</i> , and its amendments
CE	This product is CE-marked in accordance with: European Medical Device Regulation (EU)2017/745 Council Directive 2011/65/EU, RoHS
	Manufacturer name and address
	Date of production
REF	Stock number
SN	Serial number
	Operating interval of electrically operated equipment. The use of electrical height adjustable equipment can run at maximum 2 minutes, followed by an 18-minute break.
	Type BF applied part. The product complies with IEC 60601-1 requirements to provide protection against electric shock.
	Consult manual for important safety related information, warnings and safety precautions.
	Class II, double isolated electrical components.
	Do not dispose of as unsorted municipal waste. Product must be returned to a designated recycling station.
	Mobile phones or other portable RF emitting equipment should be no closer to the product than 30cm.
	Operating and storing temperatures may not exceed 5-40°C
	Consult manual before use

3. General requirements

3.1 Product information

Manufacturer	Ropox A/S Ringstedgade 221 DK-4700 Naestved +45 55 75 05 00 Info@ropox.com	UK Responsible Person	Qserve Group UK, Ltd 49 Greek Street, W1D 4EG London United Kingdom +44 740 885 936 3 info@qservegroup.com
Product models	Part number 40-14770	Model StandardLine Electric	Configuration Unit
Expected service life	5 years		
MDR Class 2017/745	Class I		
Applied part classification 60601-1	Type BF applied part		
MEE Class 60601-1	Class II		
Height adjustment	30cm		
Maximum user weight according to DS/EN 17966:2016	40-14770 40-15621 40-15627 40-15623/40-15633 40-15624/40-15634 40-15625/40-15635 40-15626/40-15636	Unit WBR-200 WBR-201 WBR-100 WBR-101 WBR-102 WBR-103	200kg / 440 lbs 165kg / 363 lbs 165kg / 363 lbs 200kg / 440 lbs 200kg / 440 lbs 200kg / 440 lbs 200kg / 440 lbs
Power supply	100 – 240V ~ 50/60 Hz		
I in	Max 2.5A		
Intermittence	2min use / 18min pause		
IP rating	IPX6		
Ambient temperature range	-10 °C to +50 °C Transport and storage +5 °C to +40 °C Operation		
Relative humidity	20% to 80% - non-condensing		
Intended environments	This product is to be used only in: Professional Healthcare Environment Homecare Environment <i>The device is not intended for use in special environments as defined by IEC 60601-1-2</i>		
Materials in contact with patient	Frame Mixer tap	Welded steel tube St. 37, aluminum Chrome	
Accessories	40-14778 40-14779 40-40935 40-44040 40-44039 40-14782 40-14783	Fixed Control, Right Fixed Control, Left Plug with Overflow Oras Saga 3910F Oras Clinica 5611B Installation cover extended, factory mounted Installation cover extended, aftermarket mounted	

3.2 Product description

The StandardLine Washbasin is a good choice for a quality washbasin lifter, which is designed for both private homes, nursing homes, institutions, and hospitals. You can freely choose any bolt mounted washbasin with a distance between bolts of 15-40cm. The lifter has an adjustment range of 30cm. The unit has a simple and sleek design, which hides plumbing and drainage, which makes it more discreet.

3.3 Intended use

The StandardLine Washbasin is a washbasin lifter intended for people with a disability. It's used for bolt mounted washbasins for special needs environments and users. For this reason, it can adjust in height.

3.4 *Intended operator*

Reading and understanding this manual will be sufficient training for an intended operator. Children under the age of 16 or patient are not considered intended operator.

3.5 *Essential performance*

The product does not have essential performance, as the patient and user do not experience any risk in case of loss of product function/performance.

3.6 *Non-clinical functions*

Height adjusting offers better ergonomics to the user.

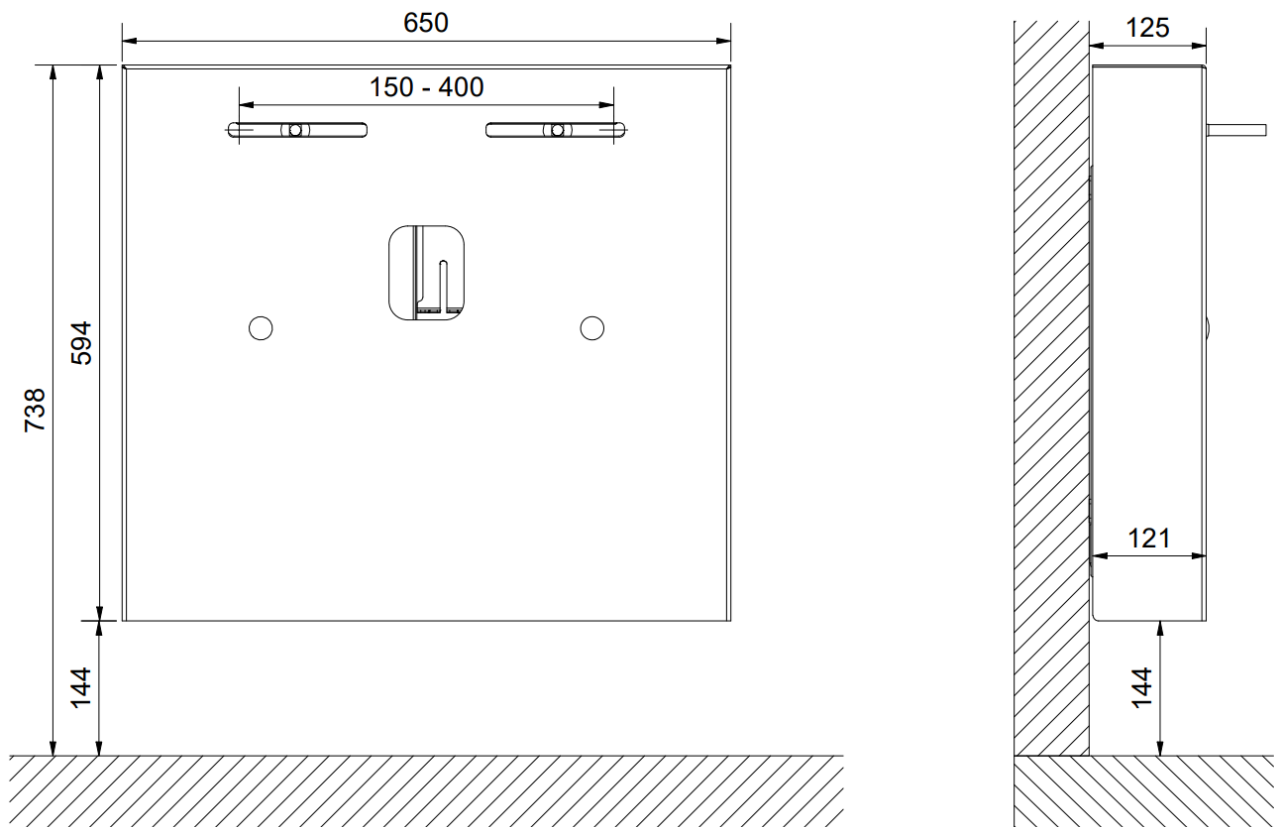
3.7 *Clinical functions*

The product does not have any clinical functions.

3.8 *Product dimensions*

40-14770

(30cm range)



NB! All dimensions are in mm

3.9 Operation

Standard Control with cable

The height of the basin can be adjusted with the control up or down.

↑ adjusts the basin upwards.

↓ adjusts the basin downwards.

The basin stops moving as soon as the button is released.



Fixed Control in basin (accessory)

The fixed control can be purchased as an option. The control is mounted in the washbasin itself, but it is not for after-mounting. It can only be supplied for the following washbasins – WBR-100, WBR-101, and WBR-103 (see section 4.4 Accessories).

^ adjusts the basin upwards.

✓ adjusts the basin downwards.

The basin stops moving as soon as the button is released.



Warning!

The product should always be able to travel the full range of actuation without colliding with objects. Failing to do so will compromise product stability and introduce risk of squeezing body parts.
Special care should be taken in ensuring that no children or adults are sited under the product as severe injury from entrapment may occur.

4. Mounting instruction

4.1 Installation interfaces

Construction

The wall must be made of a material suited for screw mounting and approved for damp rooms. The hatched area is the minimum area for reinforcement of the wall.

Tested in accordance DS/ISO 17966:2016 with the following max. user weights:

40-14770: 200kg (440 lbs)

40-15621: 165kg (363lbs)

40-15627: 165kg (363lbs)

40-15623/40-15633: 200kg (440lbs)

40-15624/40-15634: 200kg (440lbs)

40-15625/40-15635: 200kg (440lbs)

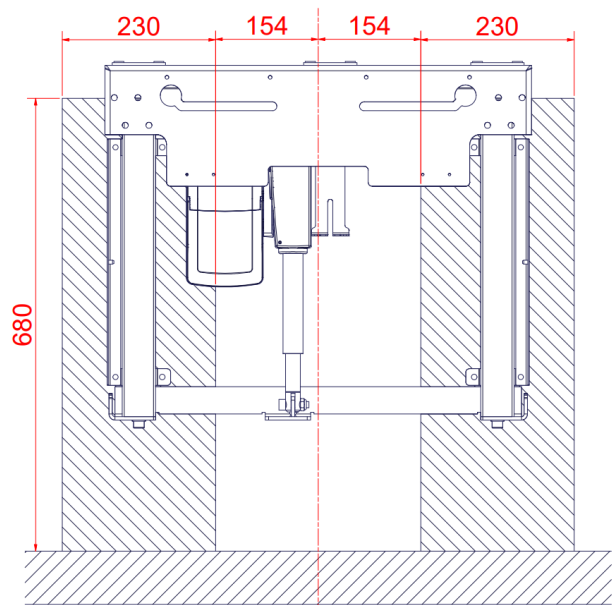
40-15626/40-15636: 200kg (440lbs)

Max. tensile load of upper screws

Wall hung: 70kg/screw (154 lbs)

With adjustment screws: 35kg/screw (77 lbs)

The washbasin is supplied with a set of screws and rawplugs suitable for mounting on a concrete wall. The fitter should always consider the material, condition and strength of the wall and use screws and rawplugs suitable for the specific wall type.



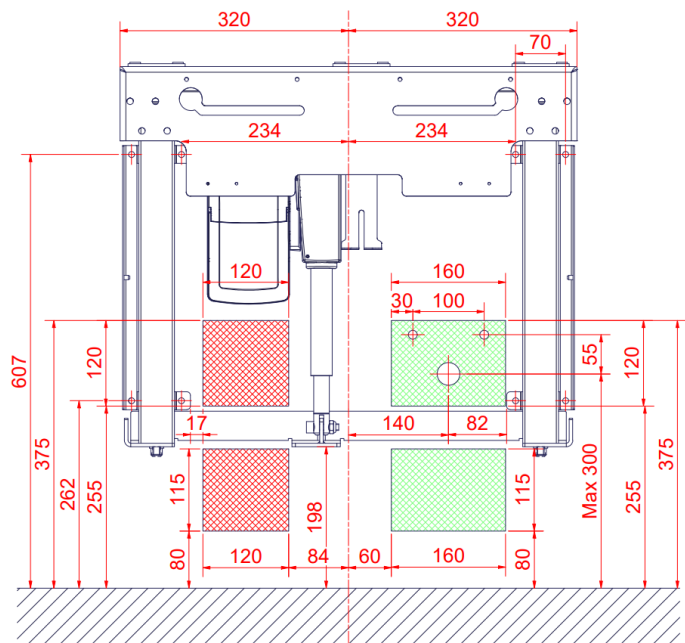
Plumbing

The drain is Ø32 (1 ¼") and ends in a Ø32x88.5° drain elbow. It must not be placed higher than 300 mm from the floor.

The water supply ends in 2 (two) 90° shut-off valves with ½" outside thread pointing upwards (not included). The maximum protrusion of the shut-off valves and drain connection should be max 100 mm (4") to allow for the covers.

The optimal location and orientation are shown in green (right).

It is important that all hoses for water connection and drain are flexible to allow the frame to move freely within the height-adjustment range of 700-1000mm (27 1/2" – 39 2/5") (including washbasin).



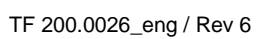
Keep in mind, plumbing placed below the bottom bracket (approx. 200 mm / 7.9" from floor), will not be covered by the covers.

For purchase of adapters for connection to various standard installations, see "**Connection Adapters – Other Washbasins**".

Power

Recommended location of socket in wall for optimal and hidden wiring is shown in red (left). If a different location is required, the cable from the control unit is 3200 mm (126").







If it is not possible to have the water supply and drain be placed in the wall, it is recommended to place it within the hatched green area in the floor. The drain is Ø32.
Do note that longer plumbing and water pipes must be used. Please see section 4.2.



4.2 Connection adapters

The components illustrated below are available depending on the type of installation in the building.



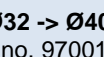



Water connection adapters

Hoses from washbasin	Adapter	Installation in room (not included)
 1/2"	No adapter needed	 1/2" Thread
	 1/2" -> 3/8" Item no. 97001670	 3/8" Thread
	 1/2" -> 15mm Item no. 97001666	 15mm Pipe


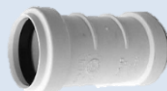


Water hose extensions

Hose from washbasin	Coupling piece	Extra hose
	 1/2" -> 1/2" Item no. 97001662	 1/2" x 1/2", 0.5m, steel Item no. 97001123
		 1/2" x 1/2", 1m, plastic Item no. 97001120

Drain adapters


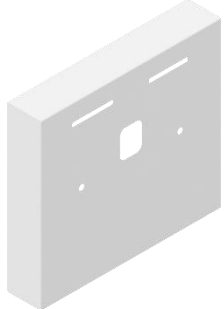

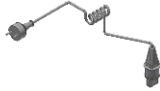


Drain from washbasin	Adapter	Installation in room (not included)
 Ø32	No adapter needed	 Ø32
	 Ø32 -> Ø40 Item no. 97001660	 Ø40
	 Ø32 -> Ø50 Item no. 97001661	 Ø50





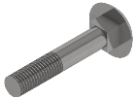




Drain extensions

Drain hose from washbasin	Coupler	Extra drain hose
 Ø32	 Ø32-Ø32 Item no. 97001662	 Ø32 Flex hose, 32-75cm Item no. 97001172
		 Ø32 Flex hose, 40-110cm Item no. 97001161

4.3 List of components

StandardLine lifting unit

	StandardLine Frame	1x	
40*14760-005	Outside cover v2	1x	
40*14770-085	Inner cover v2	1x	
40*14770-087	Inner cover bracket	2x	
97000427	Power cable	1x	
97001688	Control with Cable	1x	
14141-020	Hook for handcontrol	1x	

40-14776-2	Plumbing kit for StandardLine	1x	
<i>Incl.</i>			
97001601	Prevex siphon	1x	
97001136	Connection hose – 3/8" x 1/2" 700 mm	2x	
97001172	Flex drain Ø32/32 pipe	1x	
97001035	32x88,5° white PP Wafix elbow HT	2x	
96000170	Strips black 4,8/290mm	2x	
97001605	Prevex 100mm extension	1x	
95091070	Plate screw Ø4,8x70 cross recess A2	1x	
96000170	Cable tie 4.8/290 mm	2x	
95027572	Wall screw 7.5x72	8x	
95027579	Wall plug 10x80	8x	
95020412	INSEX Countersunk screw M4x12	2x	
95051270	Square neck bolt M12x70	2x	
97001467	Mounting parts for washbasin	1x	
96000170	Cable tie 4.8/290 mm	2x	
30*65599-003	Spacer bracket 1.5 mm	6x	
30*65587-001	Spacer bracket 10 mm	4x	

4.4 Accessories

40-15621 <i>(Ceramic)</i>	WBR-200 <i>(With overflow)</i>	1x	
40-15627 <i>(Ceramic)</i>	WBR-201 <i>(No overflow)</i>	1x	
40-15623 <i>(Composite)</i> Or 40-15633 <i>(Composite)</i>	WBR-100-1 <i>(No overflow)</i> WBR-100-2 <i>(With overflow)</i>	1x	
40-15624 <i>(Composite)</i> Or 40-15634 <i>(Composite)</i>	WBR-101-1 <i>(No overflow)</i> WBR-101-2 <i>(With overflow)</i>	1x	
40-15625 <i>(Composite)</i> Or 40-15635 <i>(Composite)</i>	WBR-102-1 <i>(No overflow)</i> WBR-102-2 <i>(With overflow)</i>	1x	
40-15626 <i>(Composite)</i> Or 40-15636 <i>(Composite)</i>	WBR-103-1 <i>(No overflow)</i> WBR-103-2 <i>(With overflow)</i>	1x	

40-44040	Oras Saga 3910F	1x	
40-44039	Oras Clinica 5611B	1x	
40-40935	Plug with Overflow	1x	
40-14778	Fixed Control, Right <i>(Only for WBR-100, WBR-101 or WBR-103)</i>	1x	
40-14779	Fixed Control, Left <i>(Only for WBR-100, WBR-101 or WBR-103)</i>	1x	
40-14782	Installation cover extended <i>(Factory mounted)</i>	1x	
40-14783	Installation cover extended <i>(For aftermarket mounting)</i>	1x	

4.5 Installation of product

Prior to assembly check that all parts have been provided according to the list of components. See list of components.



Caution!

Mounting must always be carried out by qualified personnel



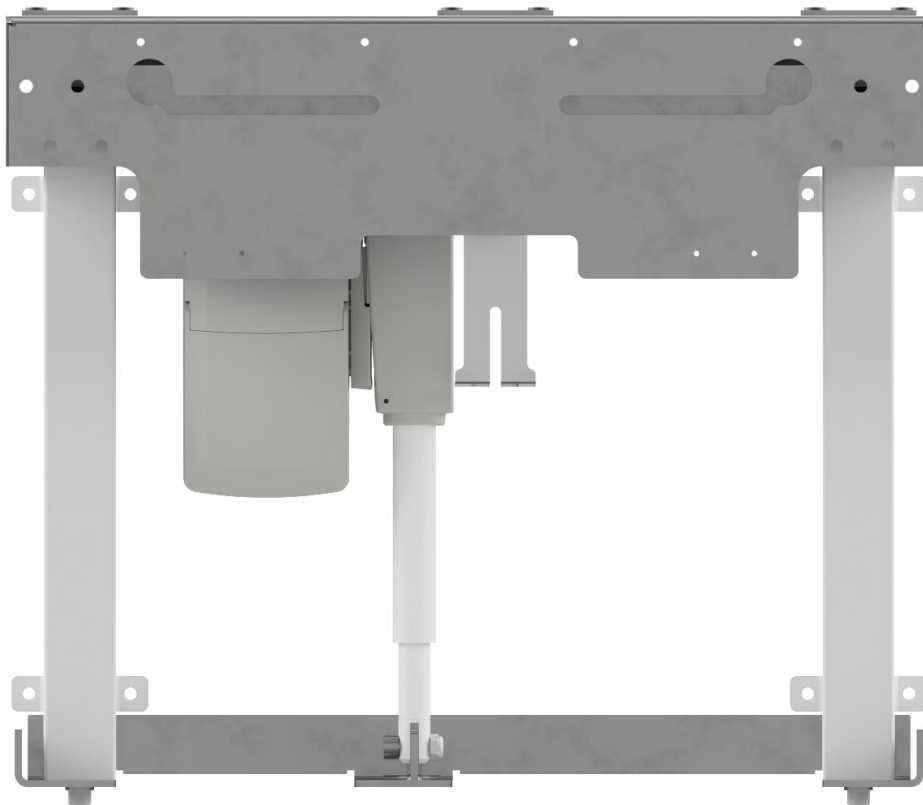
Warning!

Before use always make sure that mains cable and hand control cable will be able to travel freely without the risk of squeezing or disconnecting the product as result of the movement.

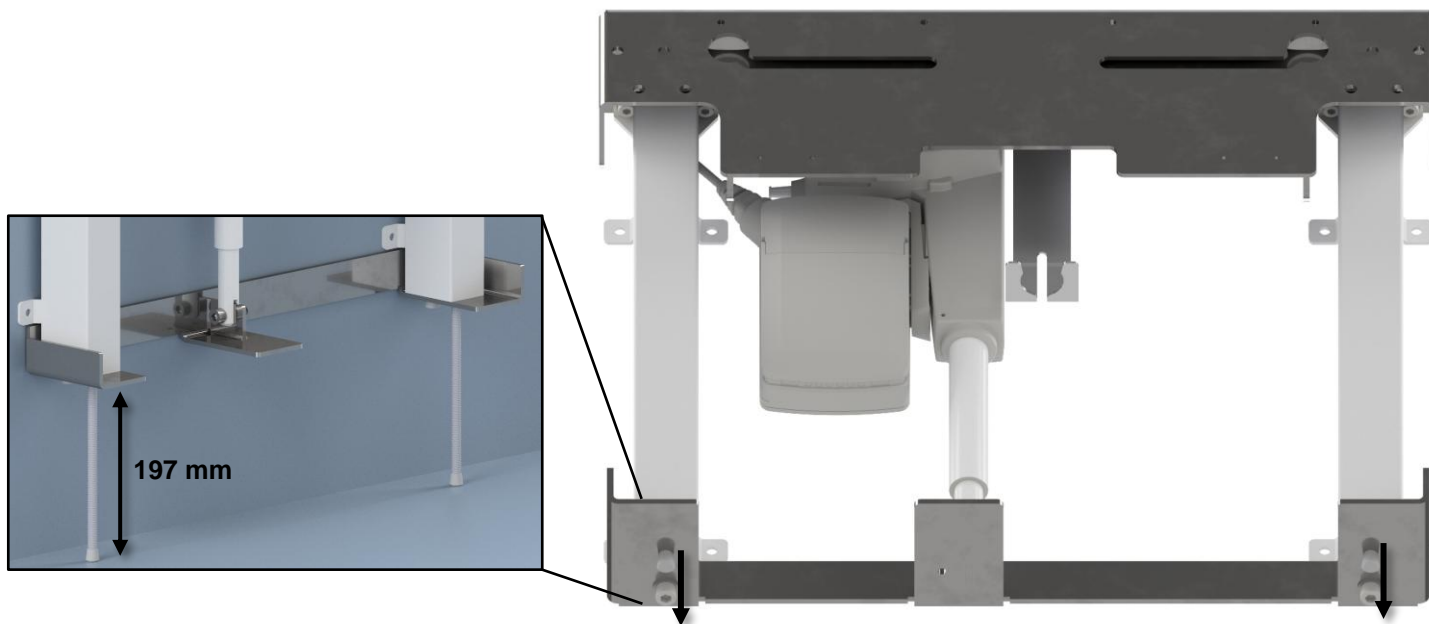


Caution!

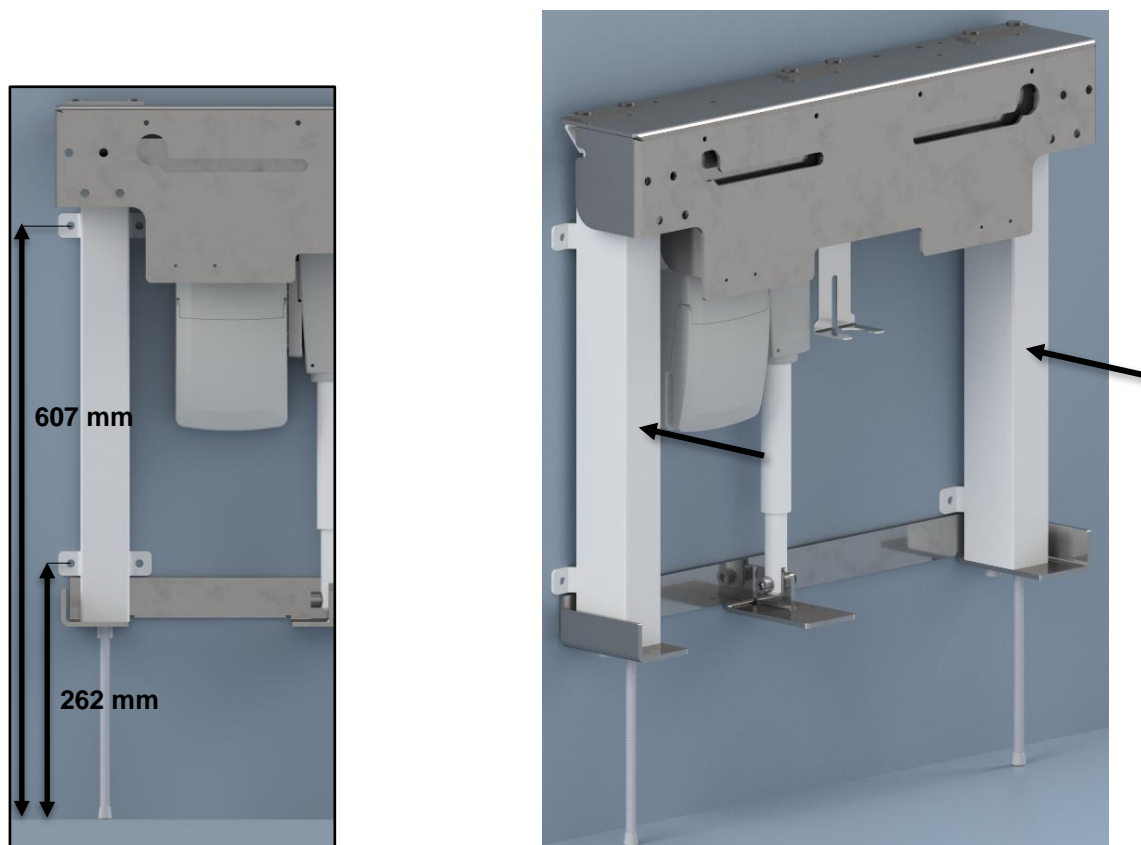
When connected to the mains, the product must be placed in a manner according to power outlets so that the operator will be able to disconnect the product during use in case of an emergency.



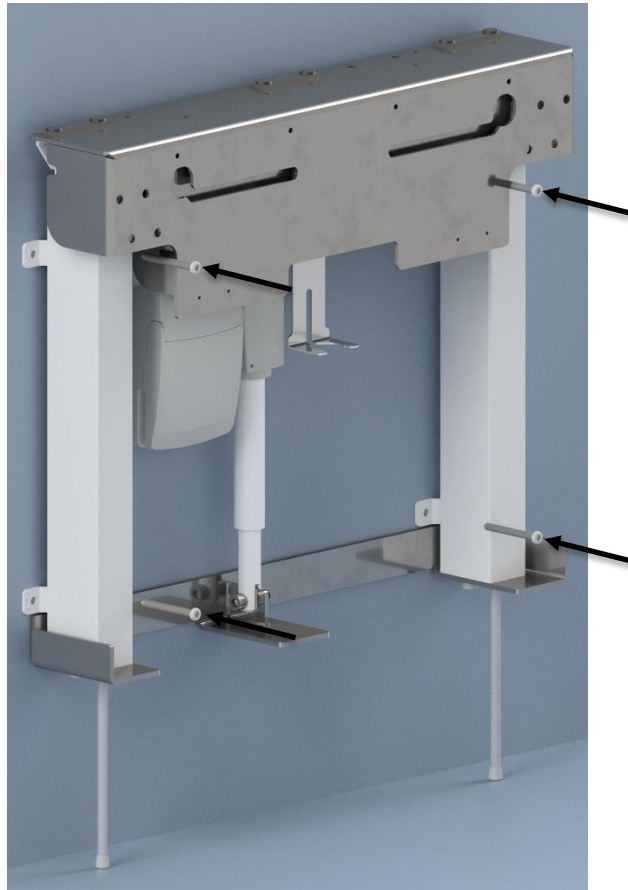
StandardLine comes partly pre-assembled.



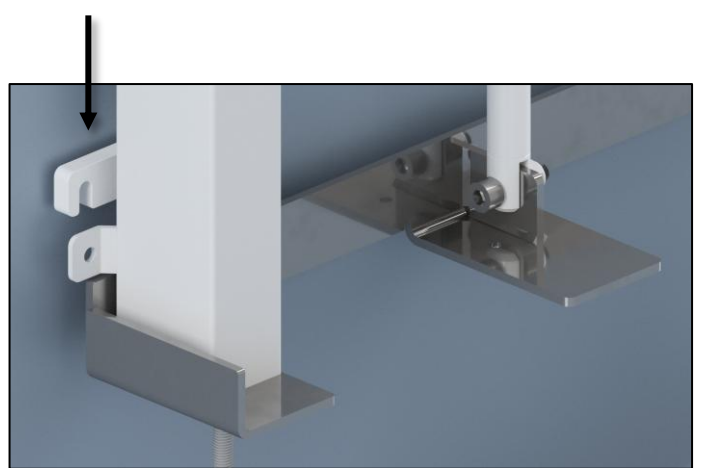
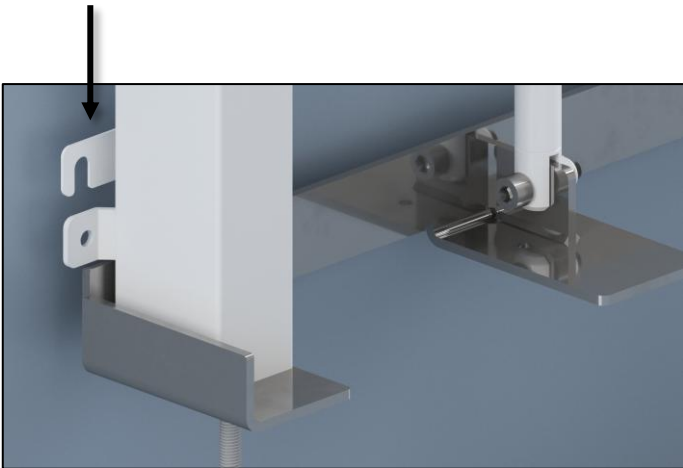
Unscrew the adjustment screws **197 mm** below the bracket.



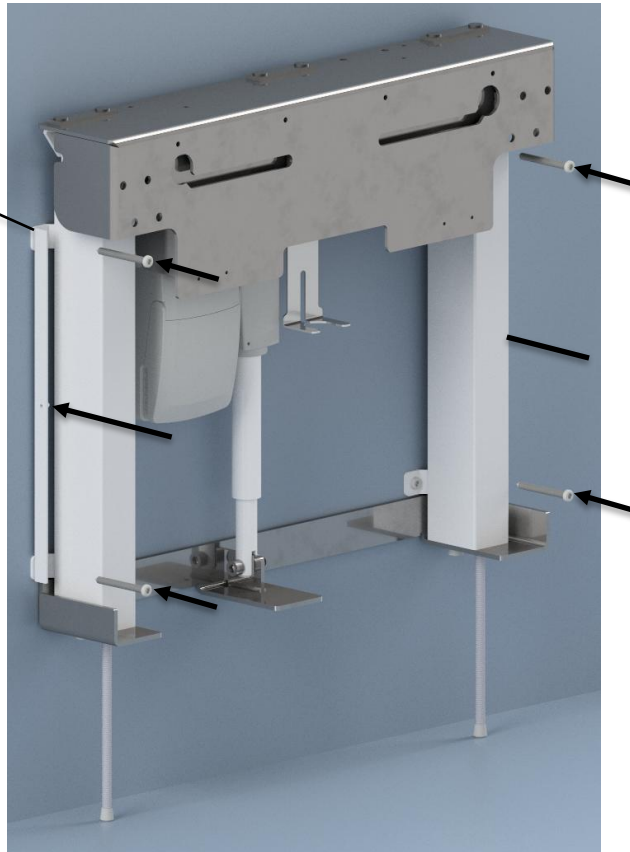
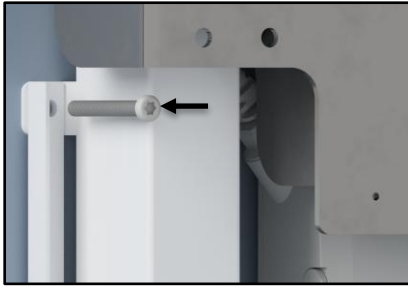
Place the lifting unit on the wall and mark holes for screws. Ensure the unit is level.
Drill holes and use the supplied **rawlplugs**.



Mount the unit to the wall on the inside of the legs with 4 screws.



If the wall is uneven, or the unit needs to be moved out from the wall due to skirting boards, use the spacers.



Mount the unit to the wall on the outside of the legs with 4 screws.
Mount the screws through the inner cover bracket.



Screw the adjustment screws all the way into the legs to hide them.
It's recommended to keep them planted to the ground, if the wall construction is not properly load bearing.
Please refer to section 4.1.



Push the siphon into the bracket.

Top



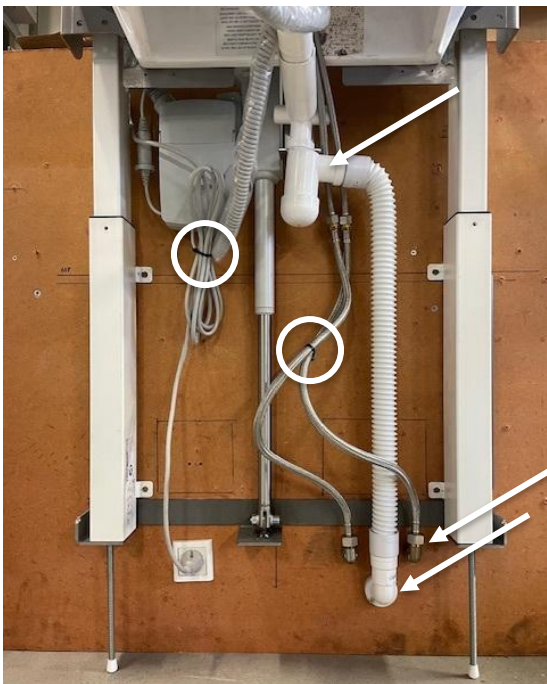
Bottom



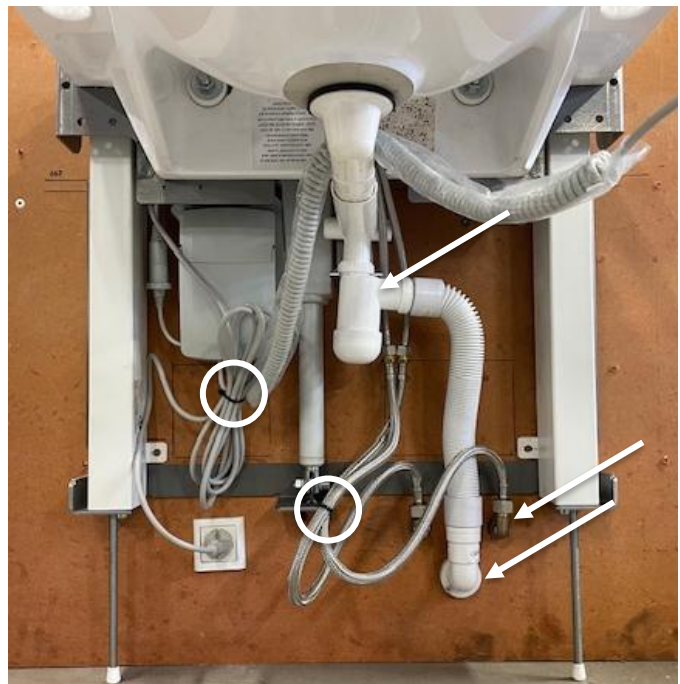
If drain and water need to be hidden behind the covers, assemble drain pipe, water, and power as shown on the pictures.

Be aware of siphon direction, water connection direction, and where cable ties are placed.

Top



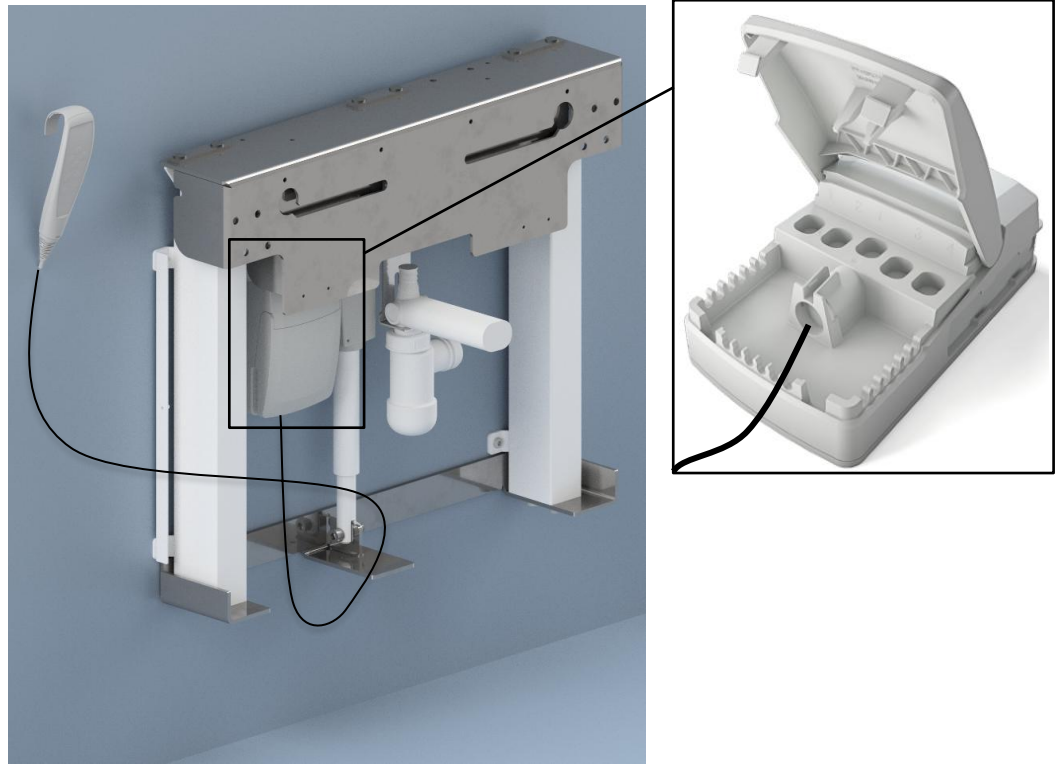
Bottom



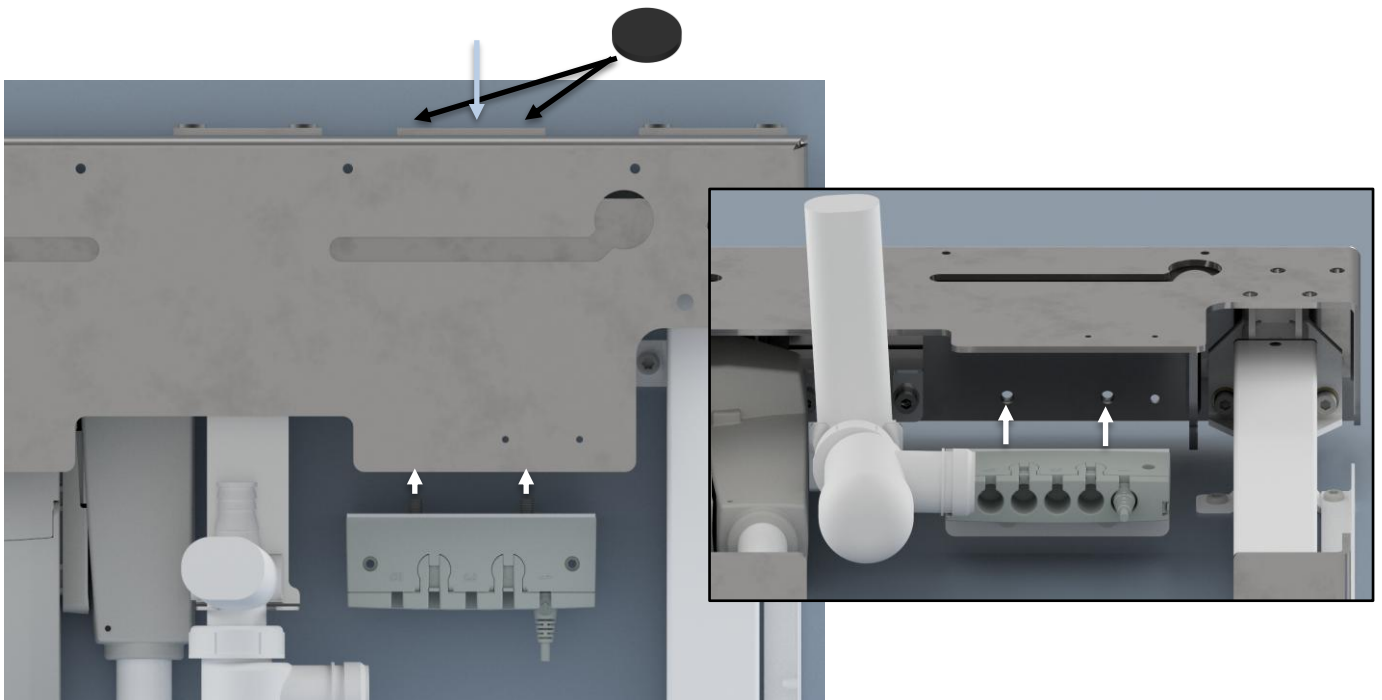
If drain and water don't need to be hidden behind the covers, assemble drain pipe, water, and power as shown on the pictures.

Be aware of siphon direction, water connection direction, and where cable ties are placed.

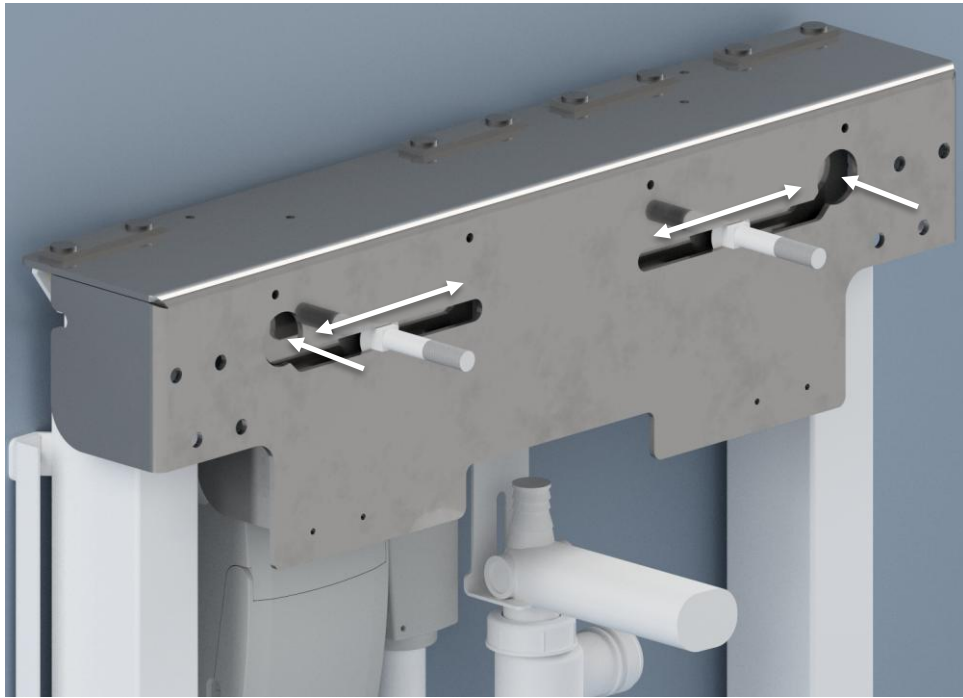
Alternatively, the water and drain can be mounted in the floor. Longer hoses and pipes are required, please see section 4.2.



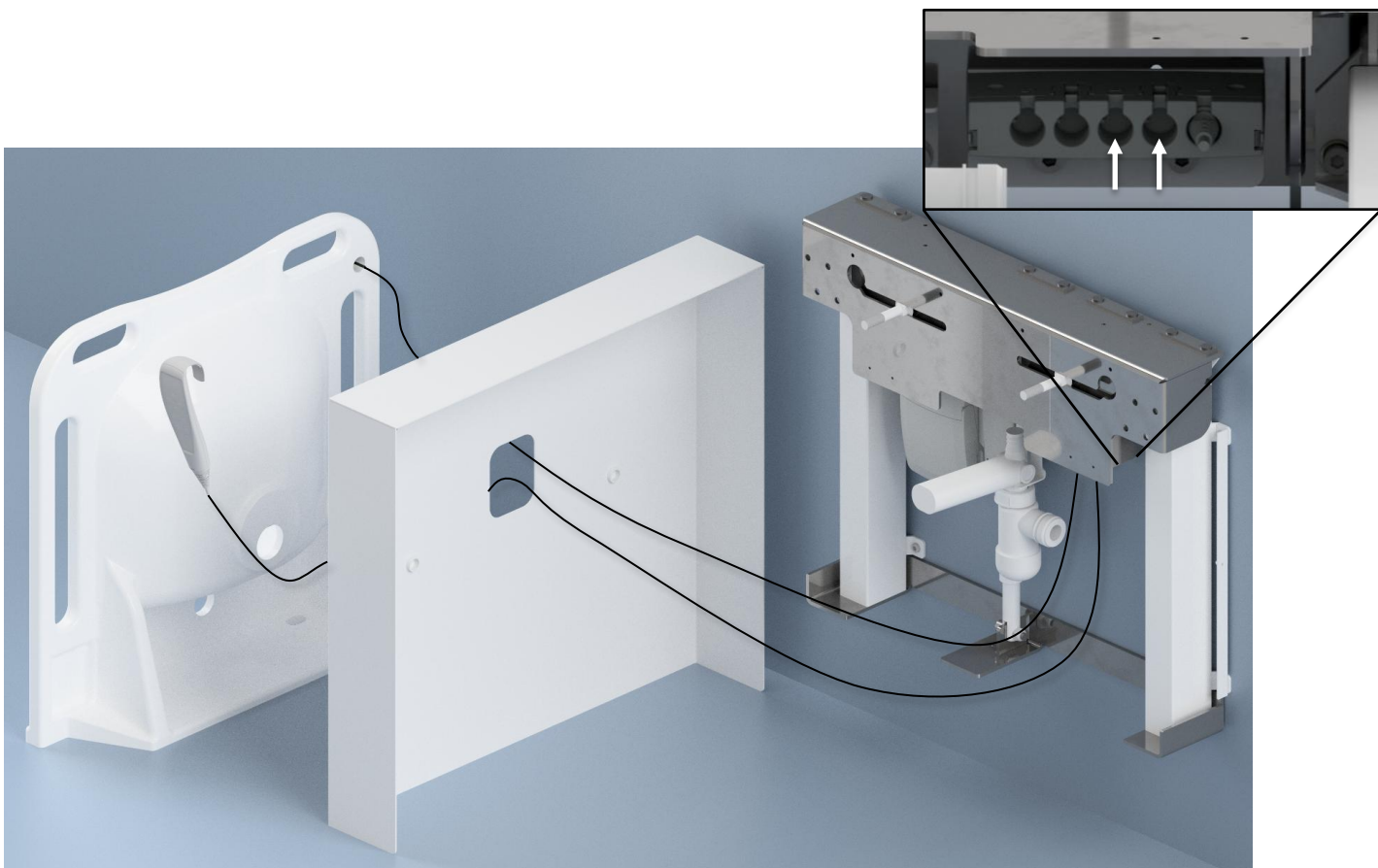
If no fixed control has been chosen, mount the control with cable in the control box as shown. The control can be mounted on the hanger that has been supplied. The hanger is mounted by removing the paper from the tape, then sticking it to the surface of choice.



If the fixed control has been purchased as an accessory, start by mounting the small control box for the controls. Place the flatnut on top of the bracket, and screw into it. Mount the two felt buttons on top of the flatnut.



Mount the bolts for the washbasin in the slots of the top bracket.
The bolts can be adjusted side to side to allow for mounting of different basins.

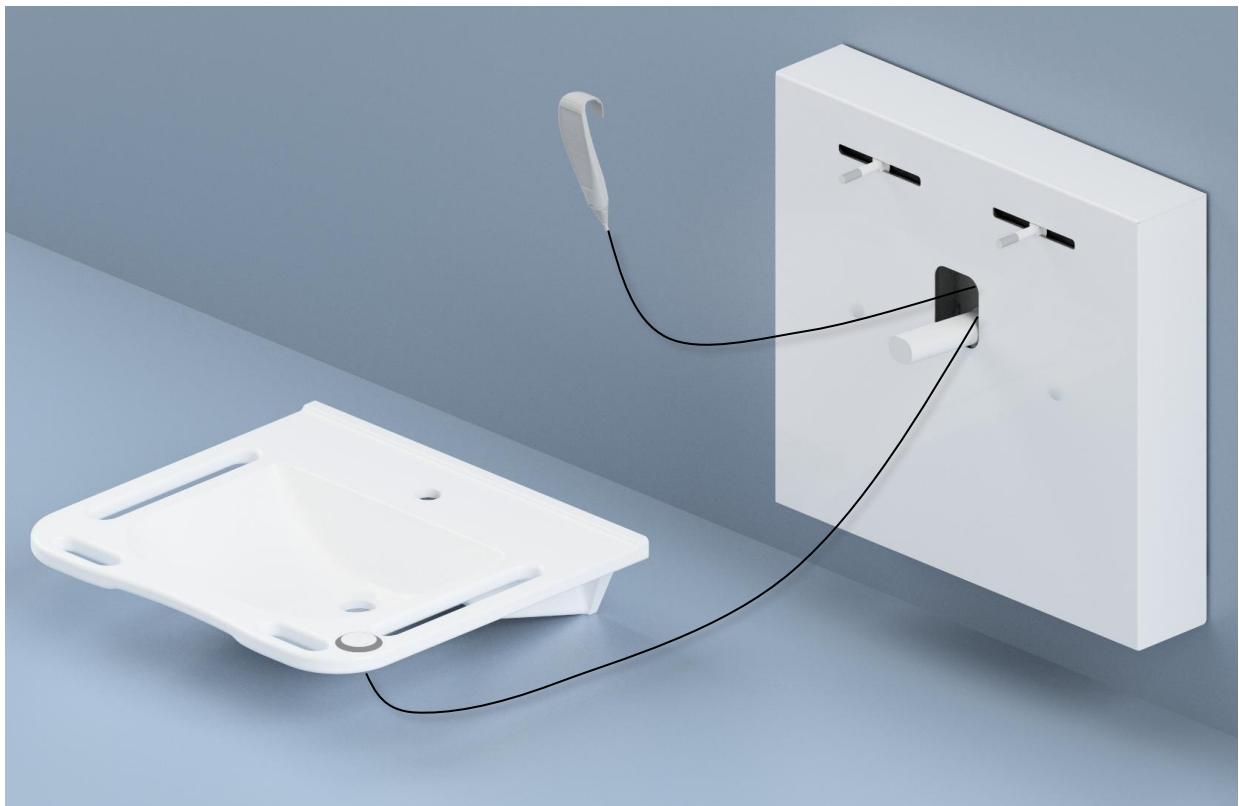


Then, place the outer cover and the washbasin next to the unit, and connect the cables as shown.
Loose cables can be guided with the cable holders that have been supplied.

Perform a functionality test of the electrical system



Cable diagram with both controls



Push the outer cover in place on the unit. The bolts should poke out through the cover.



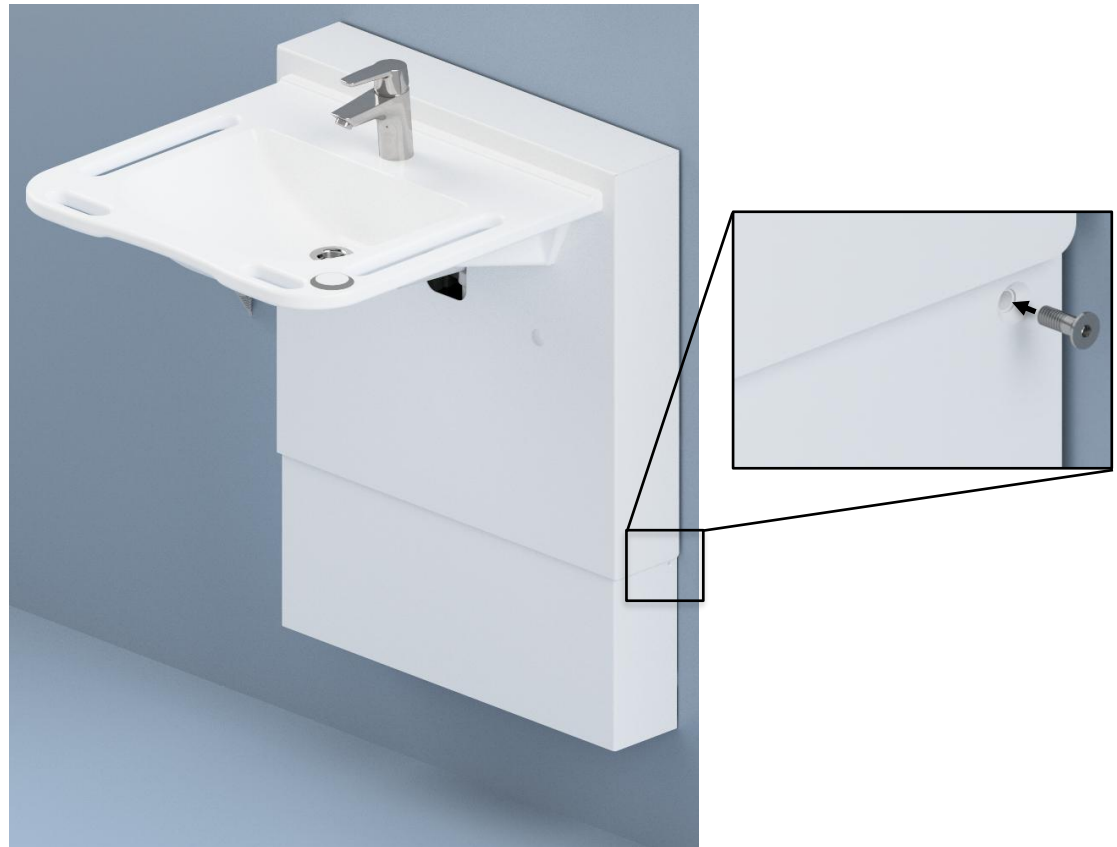
Fix the washbasin to the unit on the bolts, and fasten it with the accompanying nuts and washers.
Also mount the mixer tap, then lead the hoses behind the cover through the opening.



Mount the rest of the drain and the strainer using the Ø4.8x70 plate screw.



Drive the unit all the way up, then connect the mixer tap to the water. Open the water.
Pull the inner cover up to the unit.



Mount the inner cover by fastening the countersunk screws in each side.
Installation is now complete. Perform a functionality test.

5. Functionality testing

After completing the installation and before use, all functions of the StandardLine washbasin must be assessed. Subsequently, a functionality test must be conducted at least once a year by qualified personnel:

1. Check that the mounting instructions have been followed.
2. Check that all screws and bolts are fixed.
3. Check that all cables have been correctly connected, and that the plugs are pushed in properly.
4. Check that there is no load on the frame.
5. Check that there are no objects preventing the frame from moving freely within the height adjustment range.
6. Press both switches on the control and hold the pressure as long as a loud beeping sound is heard. When this sound stops, the frame can be moved to bottom position and is thus reset.
7. Press the DOWN button, move the frame to bottom position and check that the movement is even and smooth. Make sure that the hose connections follow the movements of the frame, and that they do not get squeezed.
8. Now press the UP button, move the frame to top position and check that the movement is even and smooth. Make sure that the hose connections follow the movements of the frame, and that they do not get squeezed.

If the above points are checked, the washbasin is ready to use. See the section "**Safety in use**".

6. Safety in use

- The StandardLine washbasin may only be used by persons who have read and understood these instructions.
- The StandardLine washbasin is a height adjustable washbasin lifter and may not be used as a lifting table or as a person lifter.
- Always use the washbasin in a manner excluding the risk of damage to people or property. The person operating the StandardLine washbasin is responsible for avoiding damage or injury.
- If the washbasin is used in publicly accessible locations, where especially children or other persons with reduced observation capability may get near the StandardLine washbasin, the person operating the washbasin must pay sufficient attention in order to prevent dangerous situations.
- Make sure that there is free space above and below the washbasin to allow free height adjustment.
- Be aware of water splashing from the washbasin during use, or actuation of the height adjustment. A wet floor will result in a slipping hazard.
- Always check the water temperature before use. Too warm water may lead to scalding.
- If a handcontrol with flexible cord has been installed, be aware of the cord not getting caught on anything. This could lead to a tripping hazard.
- Do not overload the washbasin and make sure that the load distribution is even.
- Do not operate the washbasin in case of errors or damage.
- Do not use the washbasin in an explosive environment.
- Any modification to the StandardLine washbasin, which may influence its operation and construction, is forbidden.
- Installation, service, and repairs may only be conducted by qualified personnel.
- Prior to use, ensure that the StandardLine washbasin has been mounted on a suitably strong wall and that there are no loose connections.
- In case of inspections, service, or repairs, make sure that the washbasin is not loaded.
- If the StandardLine washbasin has not been installed in accordance with these mounting instructions, the warranty may be void.
- Only use original Ropox spare parts as replacements parts. If other parts are used, the warranty may be void.

7. Cleaning

During use, the product may get dirty. It is important that the washbasin and the lifting unit are cleaned in accordance with these instructions.

Ropox StandardLine may be wiped with a wrung cloth with lukewarm water and a mild detergent. Do not use corrosive/grinding fluids or scouring sponges and brushes.

Cleaning of washbasin

Wash the surfaces daily with water and wipe with a dry cloth. Do not use cleaning agents containing hard abrasives – such as steel wool, scouring powder, or sulfuric acid.

If the water has a high calcium content, calcareous deposits will often occur in the washbasin. These deposits should be removed at least once a week by using a detergent containing citric acid, acetic acid, or phosphoric acid. Leave the detergent to work for 5-10 minutes depending on the thickness of the deposits and clean thoroughly with a soft sponge.

Disinfection of the washbasin may be done with household disinfectants.



Notification!

Do not use cleaning agents containing abrasive e.g. scouring powder, steel wool, scouring sponge.

This product is not designed to be sterilized, autoclaving and sterilization beyond normal cleaning may change the product safety and function.

8. Troubleshooting

Problem	Solution
The washbasin does not move up or down when pressing the hand control	Check if: <ul style="list-style-type: none">➤ 230 V is connected, and if the power is on.➤ The engine is connected to the control box.➤ The control is connected to the control box.➤ The actuator is overloaded. (NOTE: For every 2 minutes of activity, it needs 18 minutes of rest).
Hand control is defect	Check if: <ul style="list-style-type: none">➤ The washbasin is height adjustable by means of another control.
When pressing the UP and DOWN buttons, only “click” sounds come out of the control box – no movement	<ul style="list-style-type: none">➤ The plug may not be mounted correctly.➤ Demount all cables from the control box, and mount again.➤ A “Reset” might be needed. See the instructions below.
The frame seems loose or unstable	<ul style="list-style-type: none">➤ Tighten all screws of the frame, cf. mounting instructions.
The washbasin cannot be height adjusted or the adjustment feels very difficult	<ul style="list-style-type: none">➤ Check that there are no jammed objects preventing the height adjustment.
It takes too long for the water to leave the washbasin	<ul style="list-style-type: none">➤ Check the siphon for clogging and clean it, if required.➤ Check that the flexible hose has not been mounted so high on the wall that it acts as an additional siphon.➤ Check that the connection hoses are not kinked or twisted on the hose. Adjust the hoses so that they are not kinked/twisted.



9. Maintenance

The frame is maintenance-free. Moving parts have been lubricated for life. For reasons of safety and reliability, we recommend inspection of the frame once a year:

At inspections, the following must be checked:

- Check that all bolts and screws have been tightened securely.
- Check that the frame can move freely and unhindered from bottom to top position without problems.
- **Resetting the StandardLine washbasin:** Press and hold down both buttons on the control. Keep the buttons depressed until the beep tone stops beeping. Then move the frame to the bottom position for resetting. Check that the movement is even and smooth. Make sure that the power cable is able to move freely.
- Check that any water connection hoses and drain hoses are tight and functional.
- Check that all cables are mounted correctly and are in order and undamaged.

After each inspection, the service schedule must be completed. See "Service schedule".

	<p>Note!</p> <p>Failing to comply with periodic maintenance may result in degrading of product function and safety.</p>
	<p>Note!</p> <p>Ropox will make parts list and circuit diagrams available for maintenance and repair beyond what is described in this manual. Repair beyond what is described in this manual may only be done by Ropox designated service personnel.</p> <p>Only use original Ropox spare parts as replacement parts. If other parts are used, the warranty may be void.</p>

9.1 Service schedule

Service and maintenance	Serial no.
Date:	
Signature:	
Remarks:	

Service and maintenance	Serial no.
Date:	
Signature:	
Remarks:	

Service and maintenance	Serial no.
Date:	
Signature:	
Remarks:	

Service and maintenance	Serial no.
Date:	
Signature:	
Remarks:	

Service and maintenance	Serial no.
Date:	
Signature:	
Remarks:	

Service and maintenance	Serial no.
Date:	
Signature:	
Remarks:	

Service and maintenance	Serial no.
Date:	
Signature:	
Remarks:	

Service and maintenance	Serial no.
Date:	
Signature:	
Remarks:	

9.2 Plumbing access

If there's a need to access or maintain the plumbing, the lower cover can be removed.



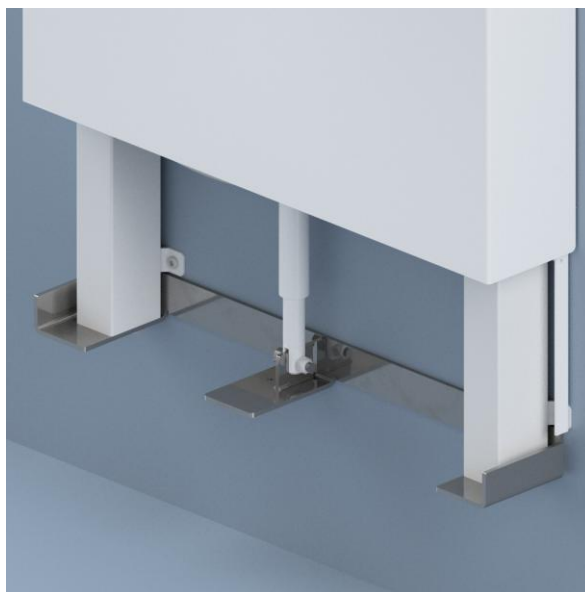
Start by moving the unit to the top position, to access the screws holding the inner cover.



Unscrew the screws on each side.

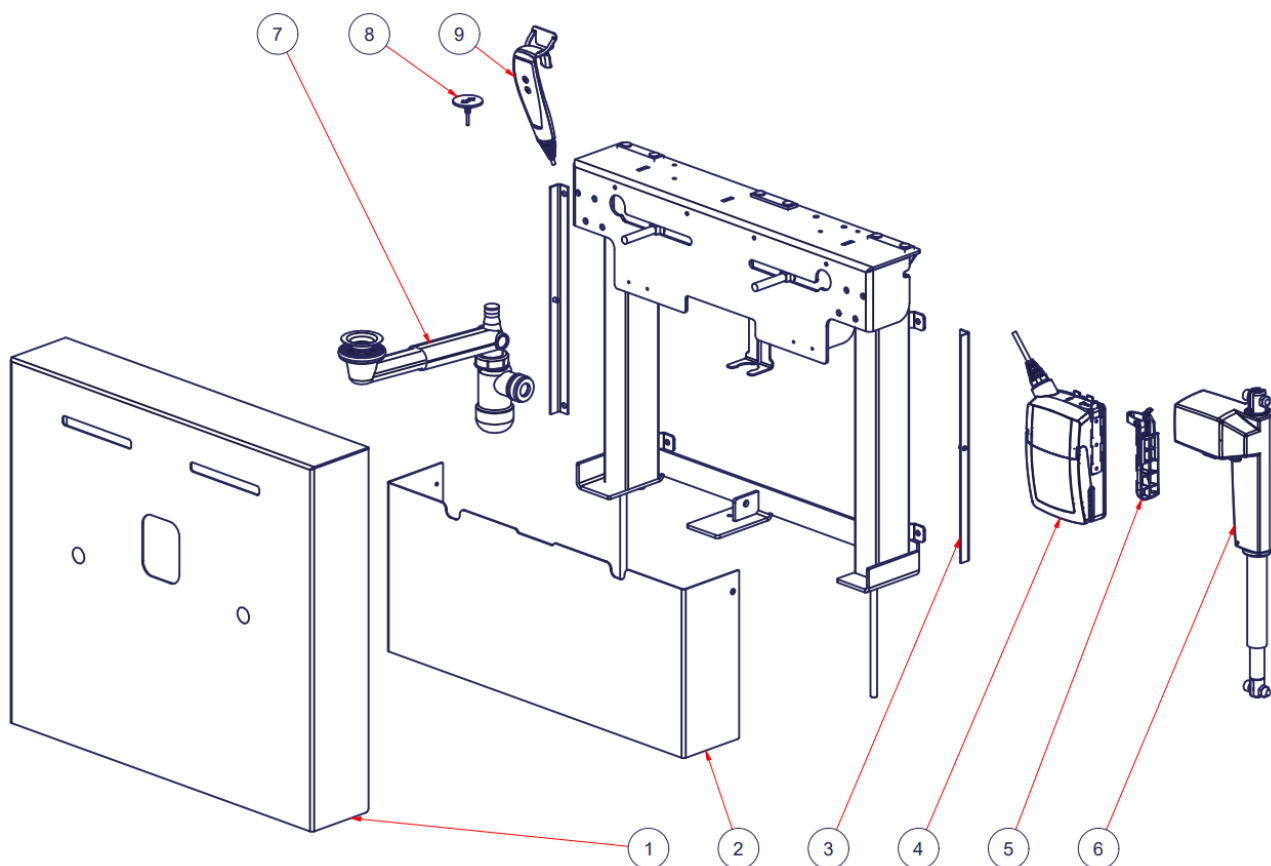


Remove the inner cover.



The plumbing is now exposed. Remember to remount the inner cover afterwards.

10. Spare parts



Position	Description	Number in product	Item no.
1	Outer Cover	1	40*14760-005
2	Inner Cover	1	40*14770-085
3	Inner cover bracket	2	40*14770-087
4	Control box CA30	1	97001691
5	Bracket for LA31/CA30	1	97001713
6	Motor LA31.6	1	97000488
7	Plumbing kit for StandardLine unit	1	40-14776-2
8	Fixed Control (Accessory)	1	97001800
9	Control with Cable	1	97001688

11. Environmental protection

The product is not intended to be disposed of as municipal waste. Proper disassembly, sorting and disposal of components must be done by waste disposal professionals.




Part	Disposal recommendation
Wash basin	Ceramic
Main unit	Steel
Mixer tap	Steel
Actuator	Electronic
Control box	Electronic
Hand Control	Electronic

12. Electromagnetic compatibility

12.1 Suitable Environments


The device is suitable for use at home, at daycare centers, at day centers for persons with physical or mental disabilities or at hospitals except near active HF surgical equipment and the RF shielded room of a medical electrical system for magnetic resonance imaging, where the intensity of electromagnetic disturbances is high.

12.2 Adjacent and stacked use


	Warning! Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally
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12.3 Cables

Cable component	Length
Power cable	3.2m
Hand control spiral cable	Approx. 5m extended

	Warning! Use of accessories, transducers, and cables other than those specified or provided by the manufacturer of this could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
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12.4 RF portable equipment

	Warning! Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30cm (12 inches) to any part of the device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
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13. Complaints

Please see general terms of sale and delivery on www.ropox.com



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