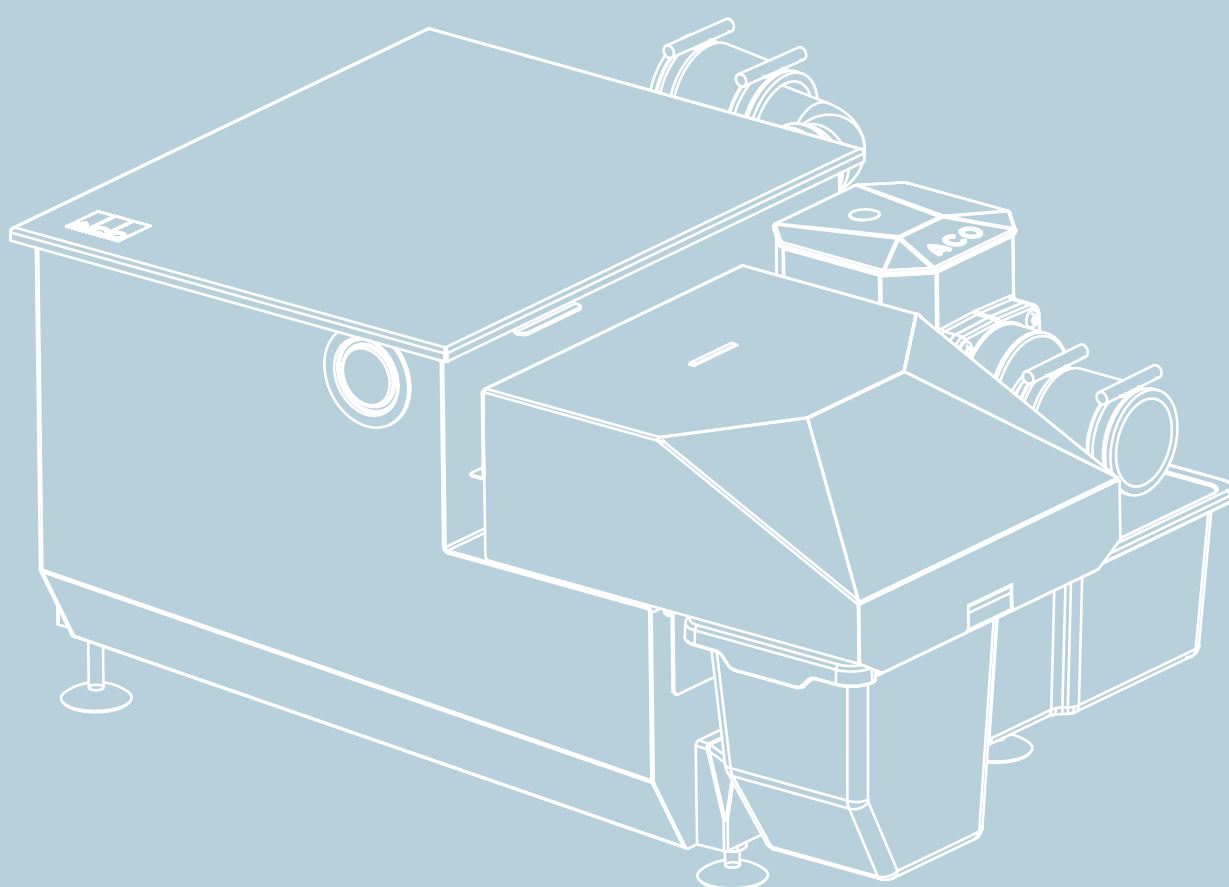


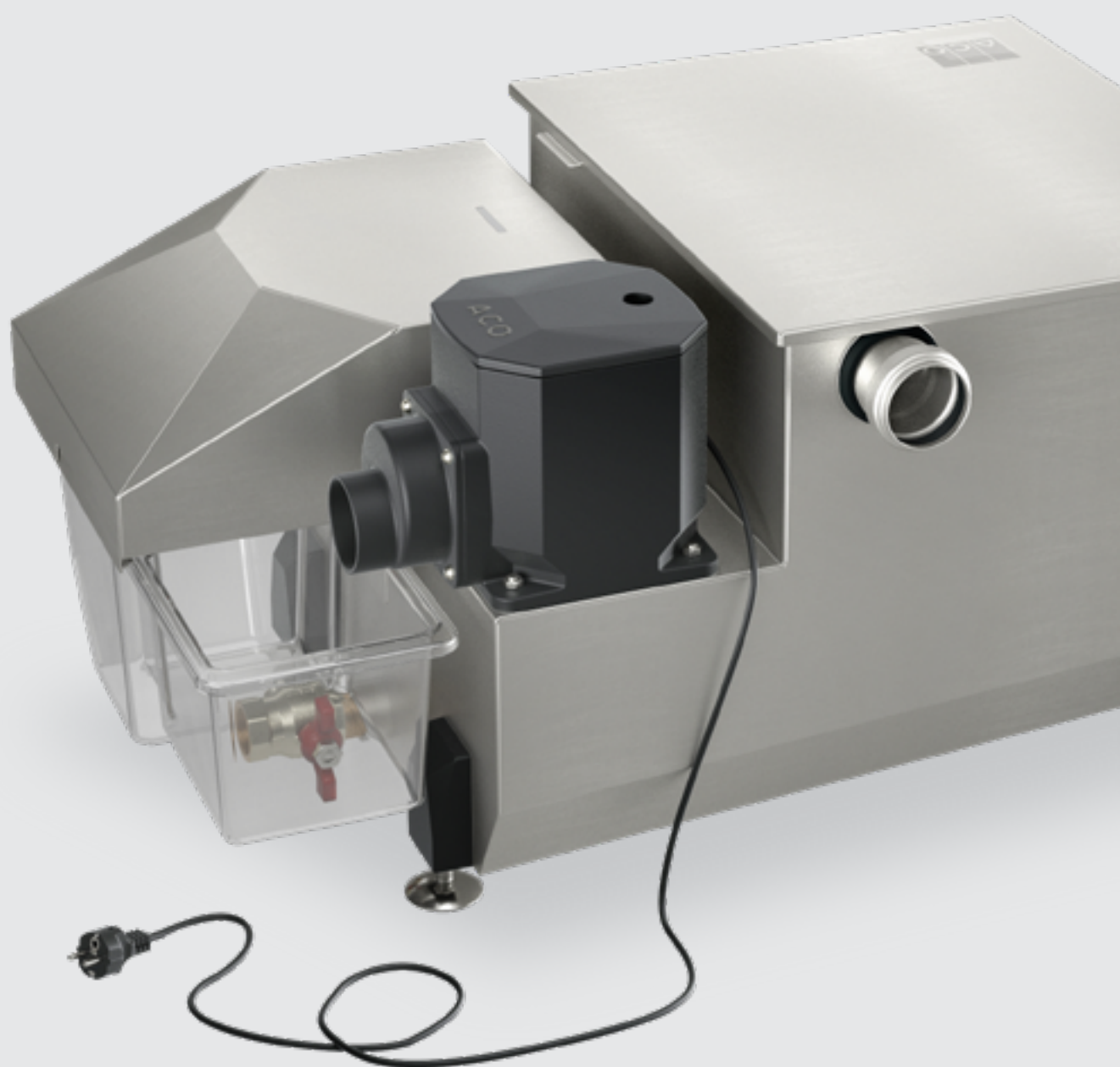


Installation, Operation and Maintenance Manual

ACO Grease Capture

ACO Grease Capture

ACO Grease Capture removing fat, oil and grease from waste water before it enters the drainage system and protects against blockages.



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1

General information

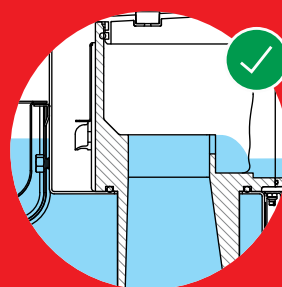
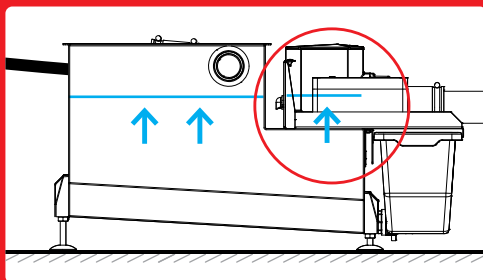
- The device is intended for the separation of grease and suspended solids from kitchen wastewater only.
- The device is intended for installation in Food Service Establishments (kitchens, food preparation areas, etc.) as close as possible to the source of waste water, under the supervision of staff and with the need for daily maintenance.
The device is not intended for installation in unheated areas (basements, etc.)
- The device must be installed in compliance with all applicable local and national laws, and codes of practice including those relating to electrics and plumbing.
- Installation of the device should be performed by qualified technicians.
- The device must not be installed in any other way than as described in this Installation and Operation Manual.

2

Safety instructions

- Do not use the device for any purpose other than separating grease from wastewater.
- Do not install the device in potentially explosive environments, unheated rooms, or outdoors.
- The device may only be operated by trained staff.
- The grounding eye is fixed to the stainless steel body. It must be connected to the common grounding point in the nearby area.
- The ACO Grease Capture should only be connected to a properly grounded and waterproof power socket. Ensure the power socket is fitted with or supported by a dedicated ground fault circuit breaker/interrupter (GFCI).
- Connect the heater to the electrical supply after the unit is filled with water.
This is achieved once water flows over the outlet weir.

The device must always be filled with water before turning on!

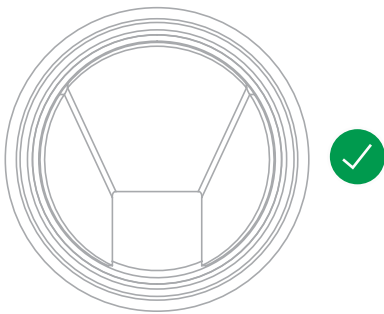


- If water needs to be drained from the device, the heater must be disconnected from the electrical supply first.
- Staff is not allowed to make any changes to the electrical installation.
This may only be done by a qualified technician.
- Do not remove the protective plate of the heating element. The surface temperature of the heating element is 70°C. Keep clear space between the heating element and the protective plate.
- Wear protective gloves and goggles when maintaining the equipment.
- Grease and food waste must be disposed in accordance with local waste disposal regulations.

Installation

3.1. Basic Instructions

- An inlet and outlet pipe slope of at least 2%.
- Do not reduce the diameter of the outlet pipe.
- Piping before device inlet should be as short as possible
- Minimize the number of elbows on the outlet pipe.
- Please check the device for damage before first use and report any missing or damaged parts to your local distributor.
- Do not connect the unit to a food grinder, potato peeler or waste disposal unit.
- Pipes leaving the outlet must be at least 2 inches in diameter.
- Remove any grease buildup or blockages from connecting drains before installing the ACO Grease Capture.
- The ACO Grease Capture is provided with an internal flow reducer to limit throughflow to aid performance and to protect against the overflow.
- Variable size flow reducers are available up to the maximum flow rate for a given separator size.

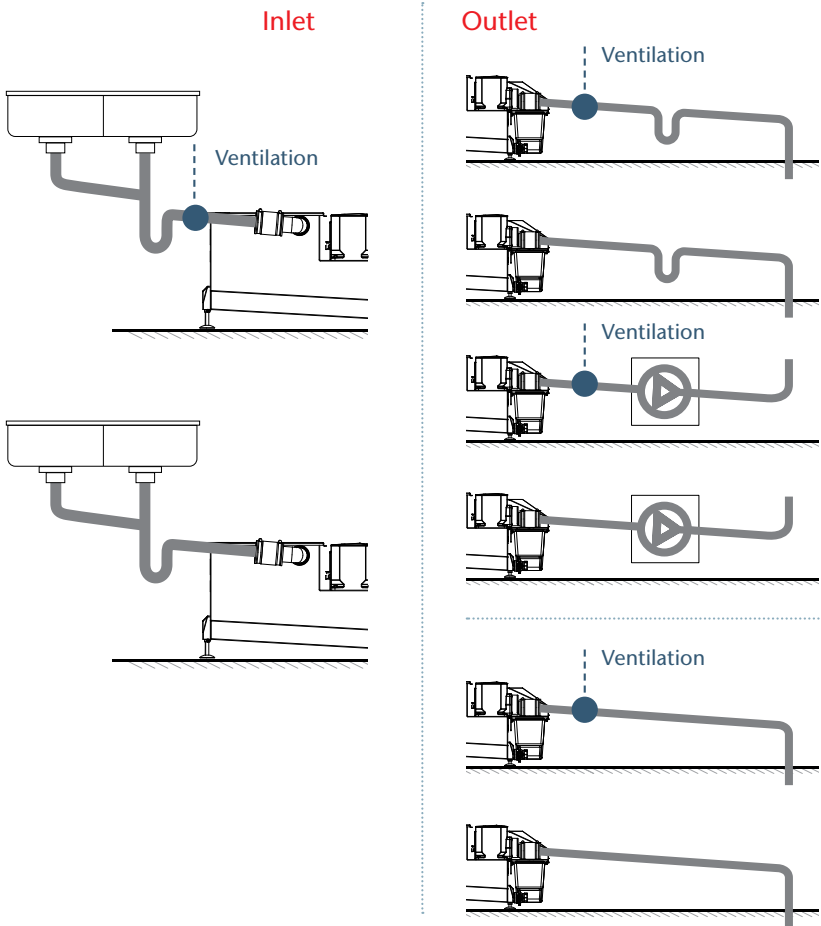


Reducer Art. No.	Max. Flowrate L/s
2213812	Reducer 0.6
2270419	Reducer 0.7
2270420	Reducer 1.0
2270421	Reducer 1.2
2270422	Reducer 1.5
2270423	Reducer 2.2

The flow rate of individual flow reducers is determined according to methodology established in the PDI / ASME standard.

Inlet and outlet connection

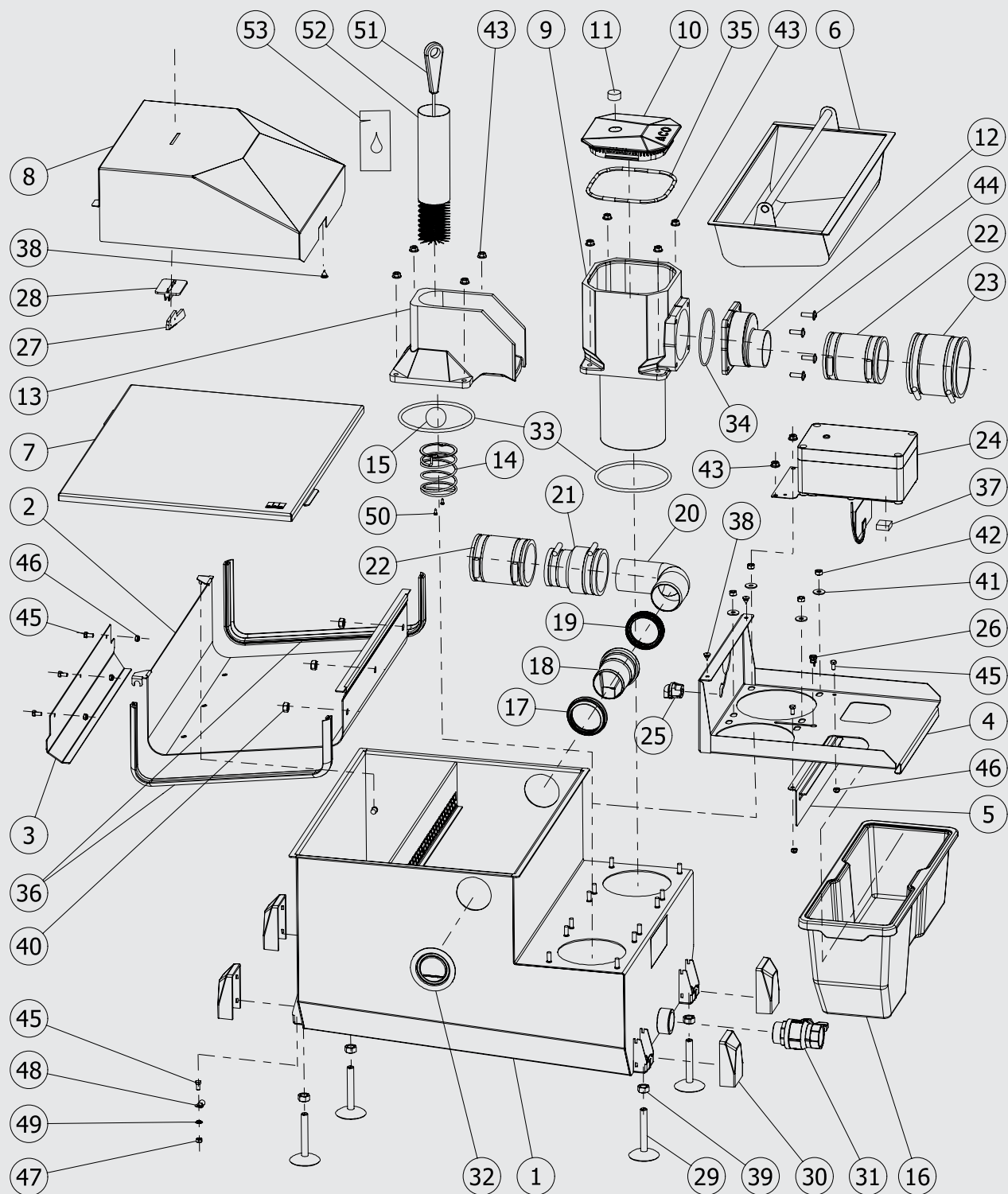
Ventilation pipes should always be open to atmosphere, outside the building or equipped by air admittance valve. Do not connect to sewage ventilation systems. Outlet ventilation protects against potential siphoning issues. Combination of any following inlet and outlet connections is possible. Please follow your local plumbing codes.



Replace the carbon filter with a rubber plug. Available as accessories.



Beware of the possible siphon effect in case of small outlet pipe diameter or reduced pipe throughput. Recommended only for outlet pipe 3" or bigger.



Tools required for installation:

Size 10 mm

Universal Lubricant

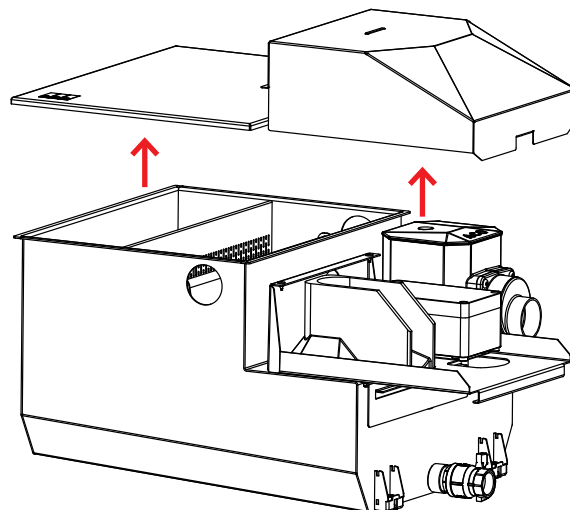
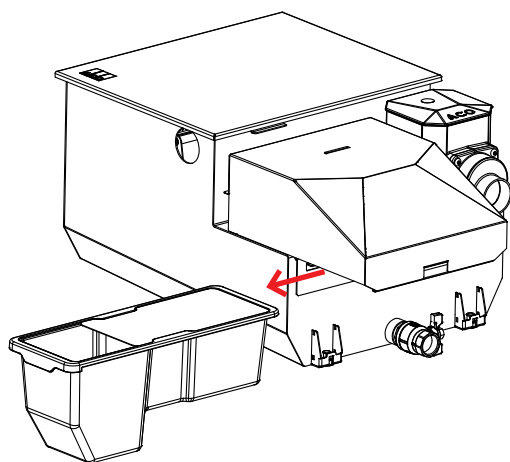


3.2. Component list

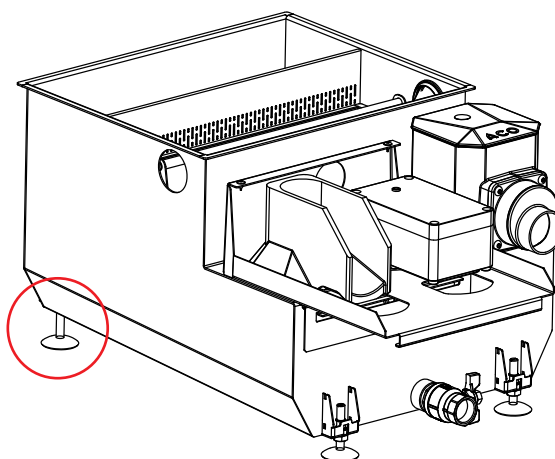
Item No.	Qty.	Description
1	1	Body
2	1	Inner part
3	1	Plate (only for size 150 and 220)
4	1	Bracket
5	1	Support
6	1	Strainer basket
7	1	Cover
8	1	Oil valve cover
9	1	Water outlet
10	1	Outlet lid
11	1	Carbon filter
12	1	Outlet flange 50/75 mm
13	1	Oil valve
14	1	Cage
15	1	Ball
16	1	Oil container
17	1	Inlet gasket
18	1	Reducer
19	1	Gasket for ACO pipe DN50
20*		Inlet elbow
21*		Rubber coupling 2"/1.5"
22*		Rubber coupling 2"/2"
23*		Rubber coupling 3"/3"
24	1	Heating set (heating pad + control box)
25	1	Right angle bushing
26	1	Straight bushing
27	1	Light guide
28	1	Light guide holder
29	4	Leveling foot
30	4	Feet cover
31	1	Drain valve
32	1	Inlet plug
33	2	O-ring towers
34	1	O-ring outlet
35	1	O-ring lid
36	2	Pireli sealing
37	1	Rubber pad
38	3	Rubber stopper
39	4	Nut M10 DIN 934, A2 / AISI 304
40	3	Nut M8 DIN 934, A2 / AISI 304
41	4	Washer M6 DIN 9021, A2 / AISI 304
42	4	Nut M6 DIN 934, A2 / AISI 304
43	10	Nut M6 DIN 6923, A2 / AISI 304
44	4	Screw M6x20 ISO 7380-2, A2 / AISI 304
45	6	Screw M5x10 DIN 933, A2 / AISI 304
46	5	Self-locking nut M5 DIN 985, A2 / AISI 304
47	1	Nut M5 DIN 934, A2 / AISI 304
48	1	Cable eyelet 5.3 / 4-6 mm ²
49	1	Toothed lock washer 5.3 DIN 6798-A, A2 / AISI 304
50	2	Self tapping screw M3x8 DIN 7981 TX, A4 / AISI 316
51	1	Cleaning brush
52	1	Cleaning pipe
53	1	Sachet of rapeseed oil 15 ml

Items marked with * are not part of each delivery. Their presence depends on the specific configuration of the product.

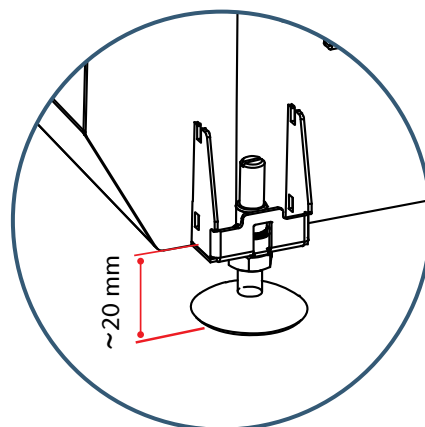
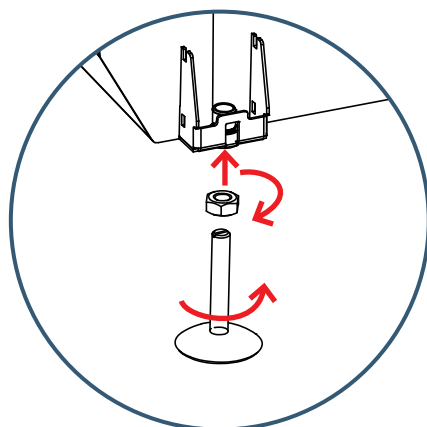
1 3.3. Installation process



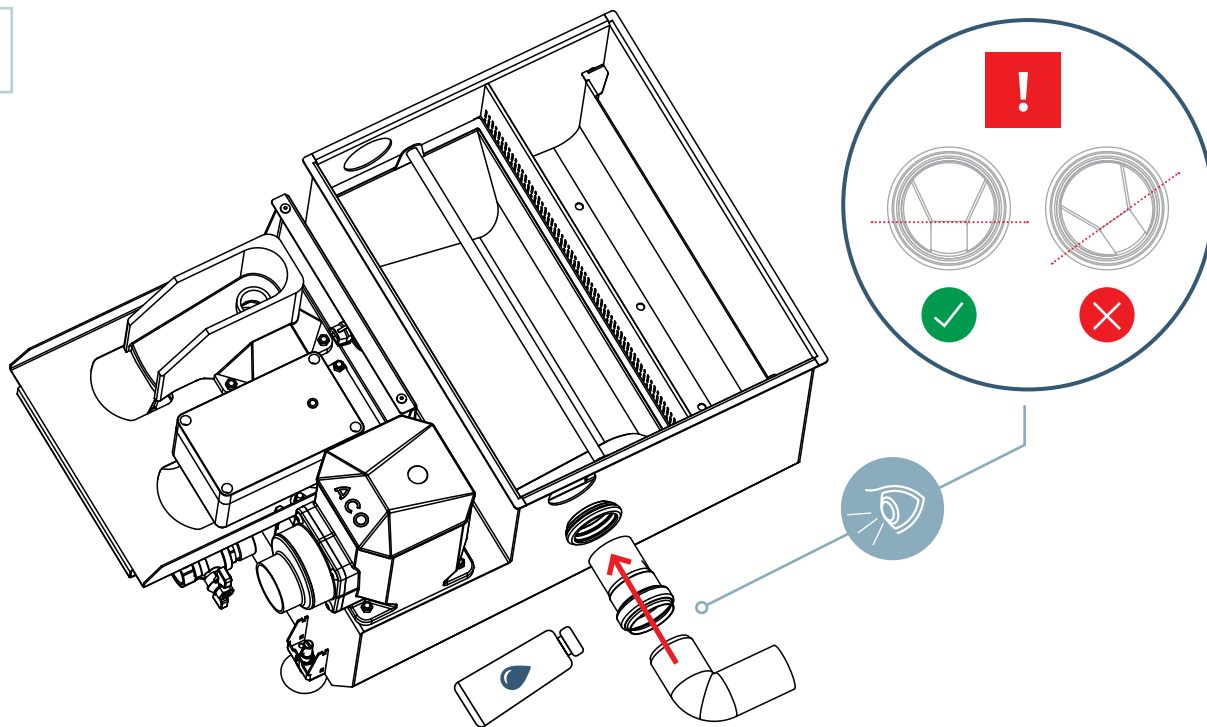
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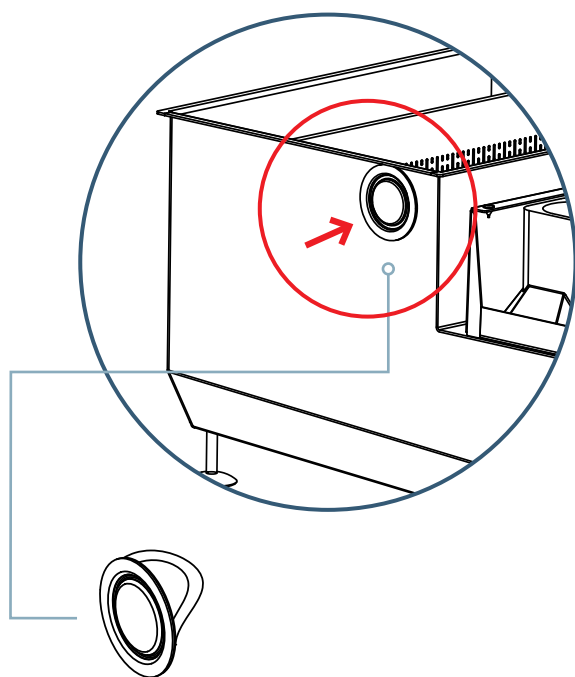
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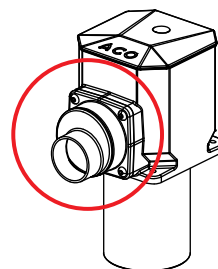
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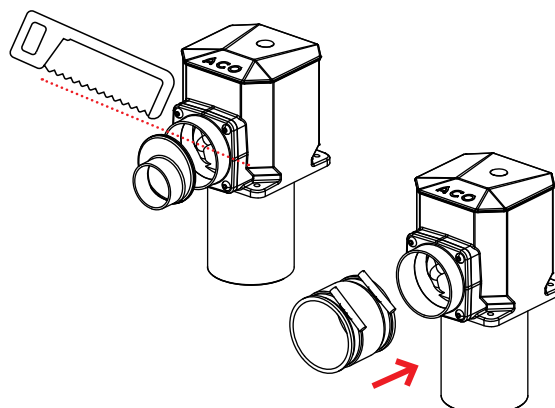
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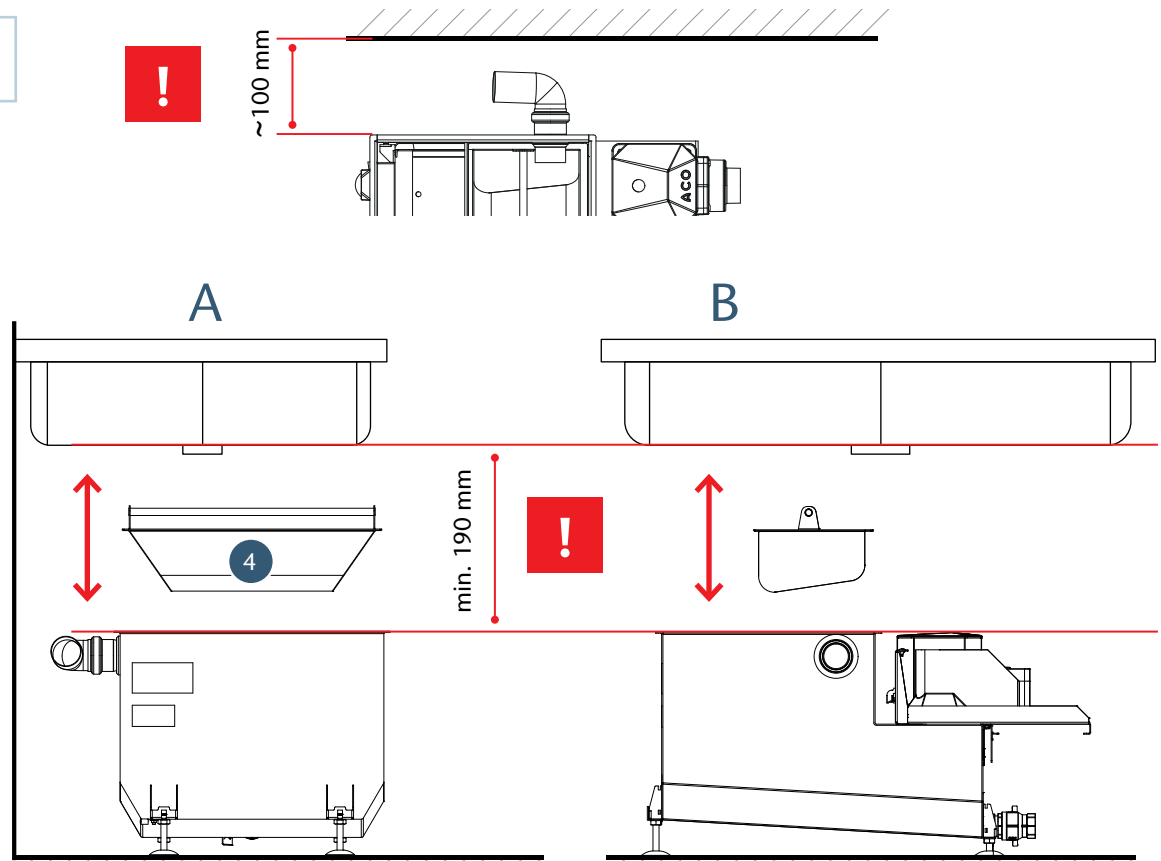
DN 50
(2")



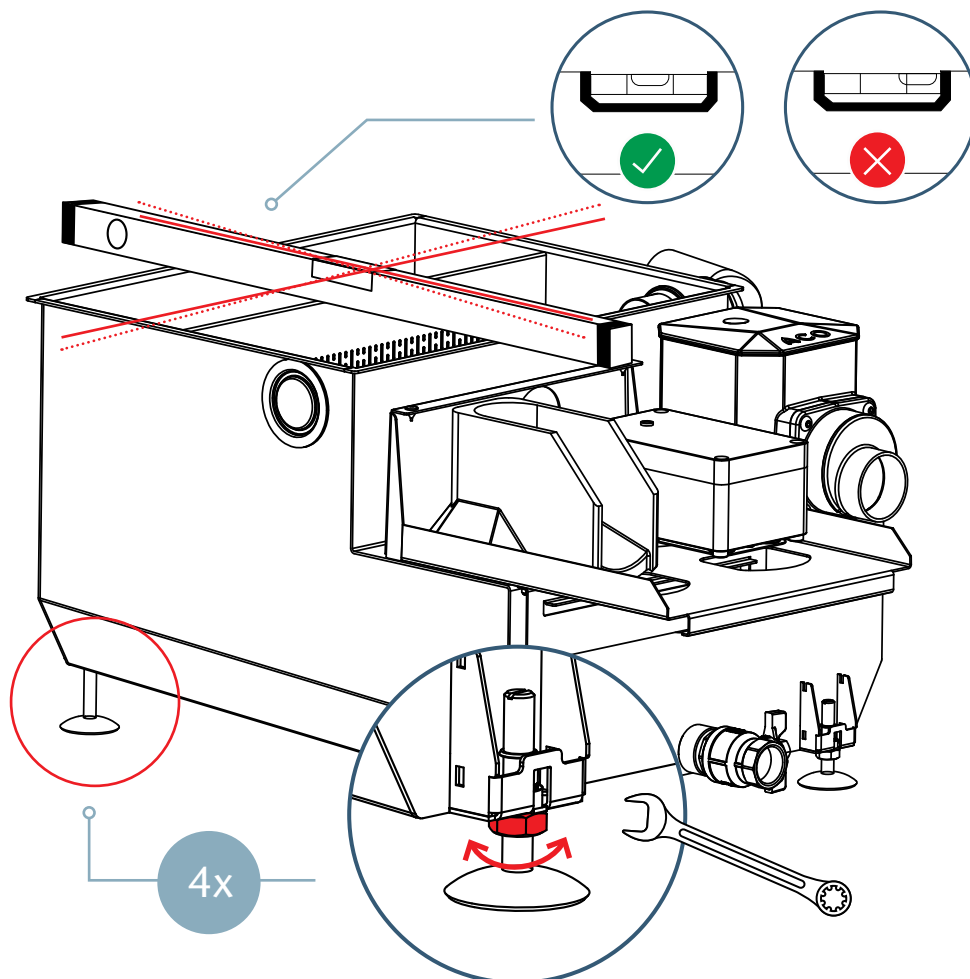
DN 70
(3")



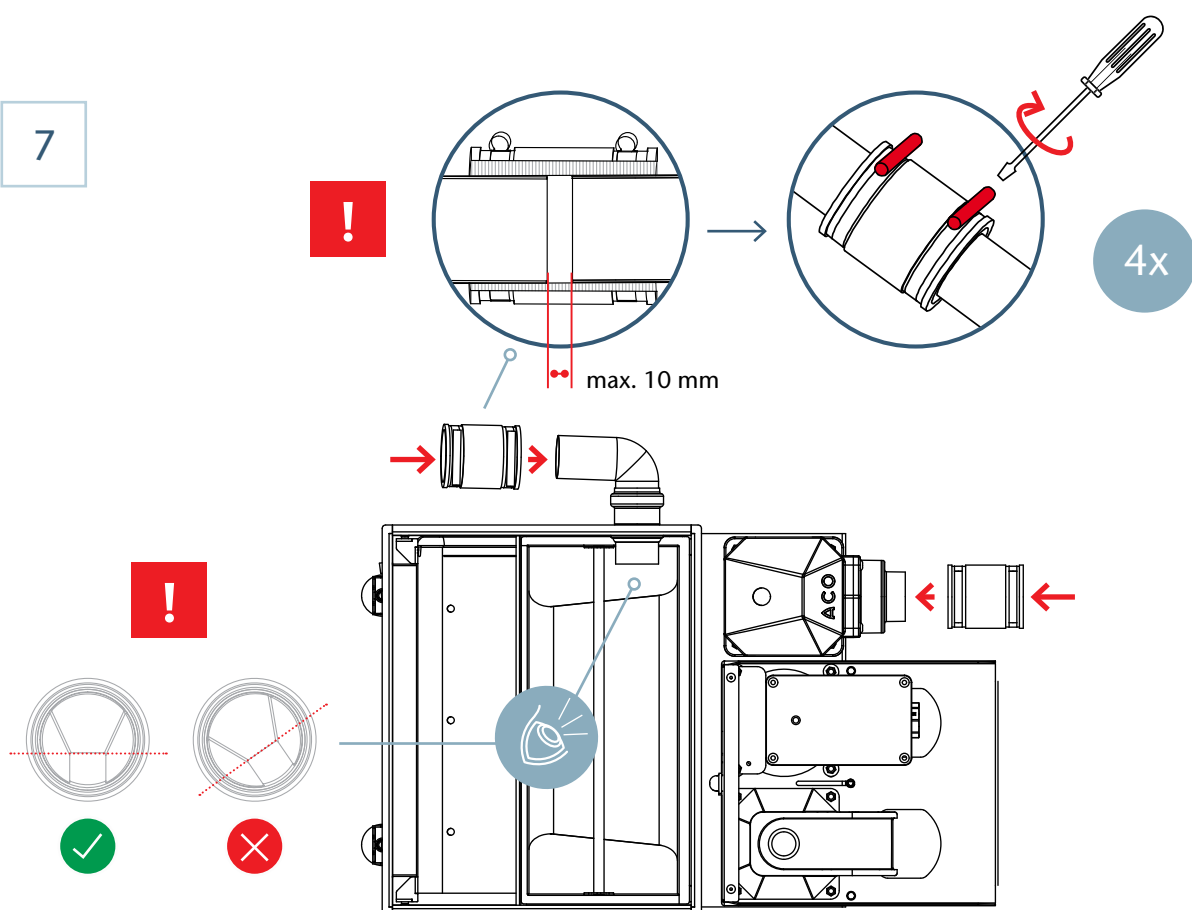
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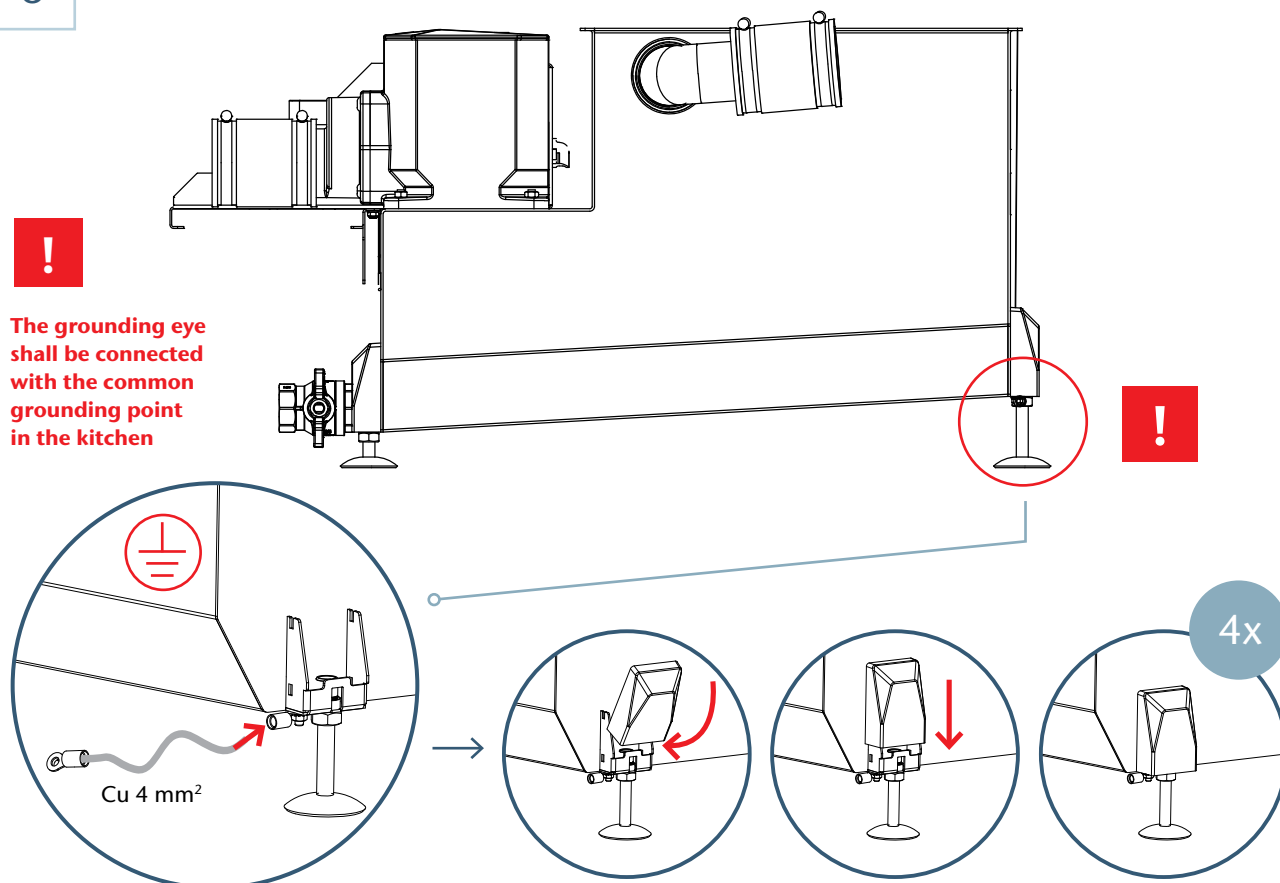
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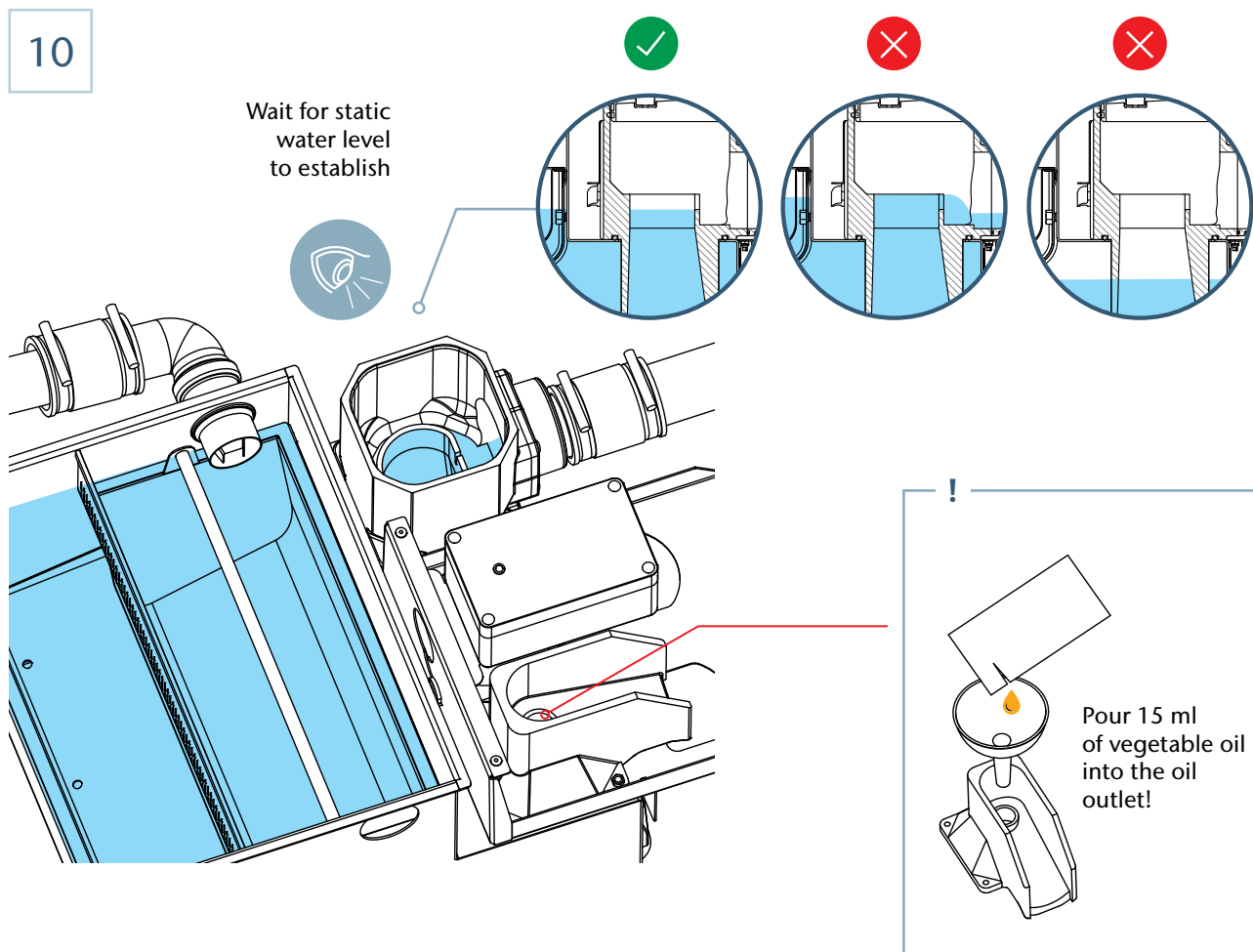
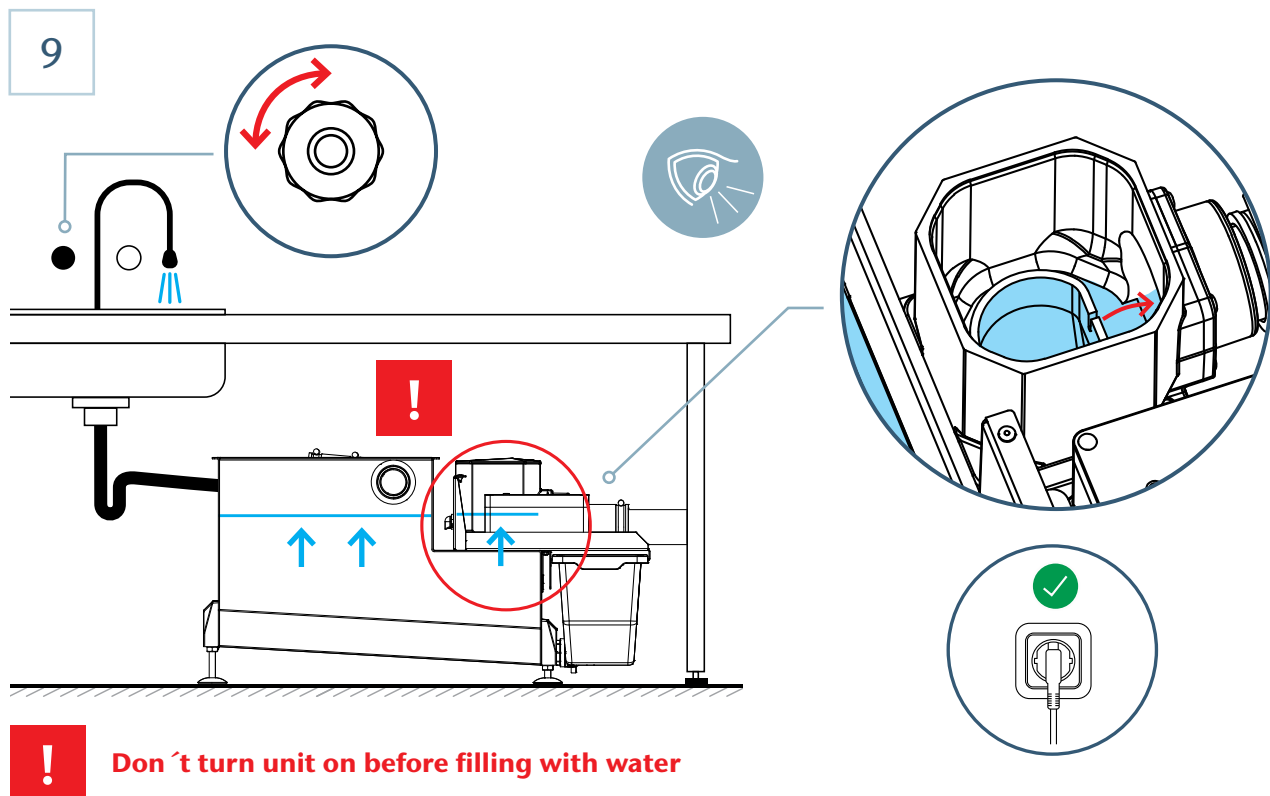


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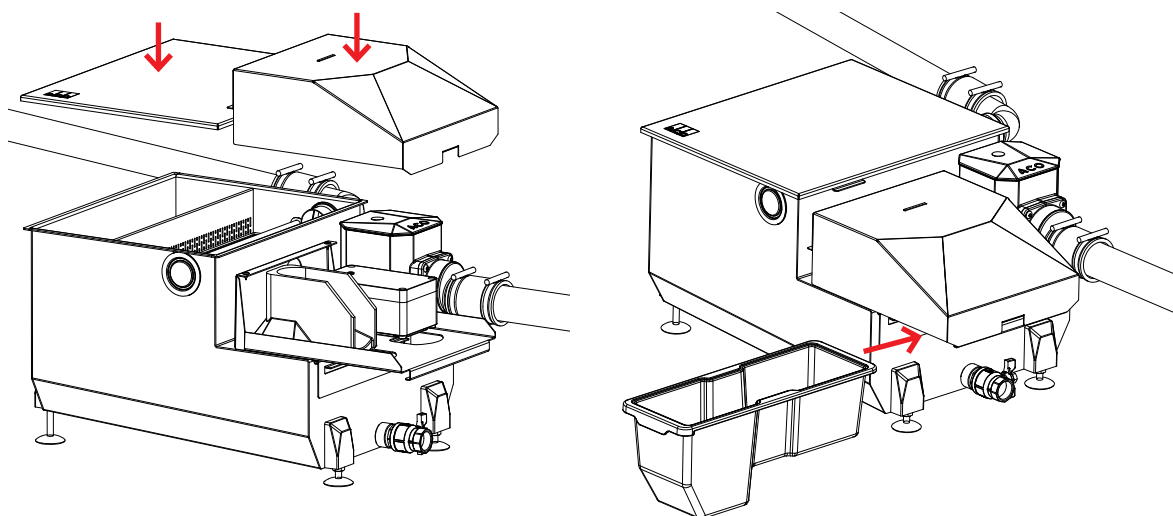


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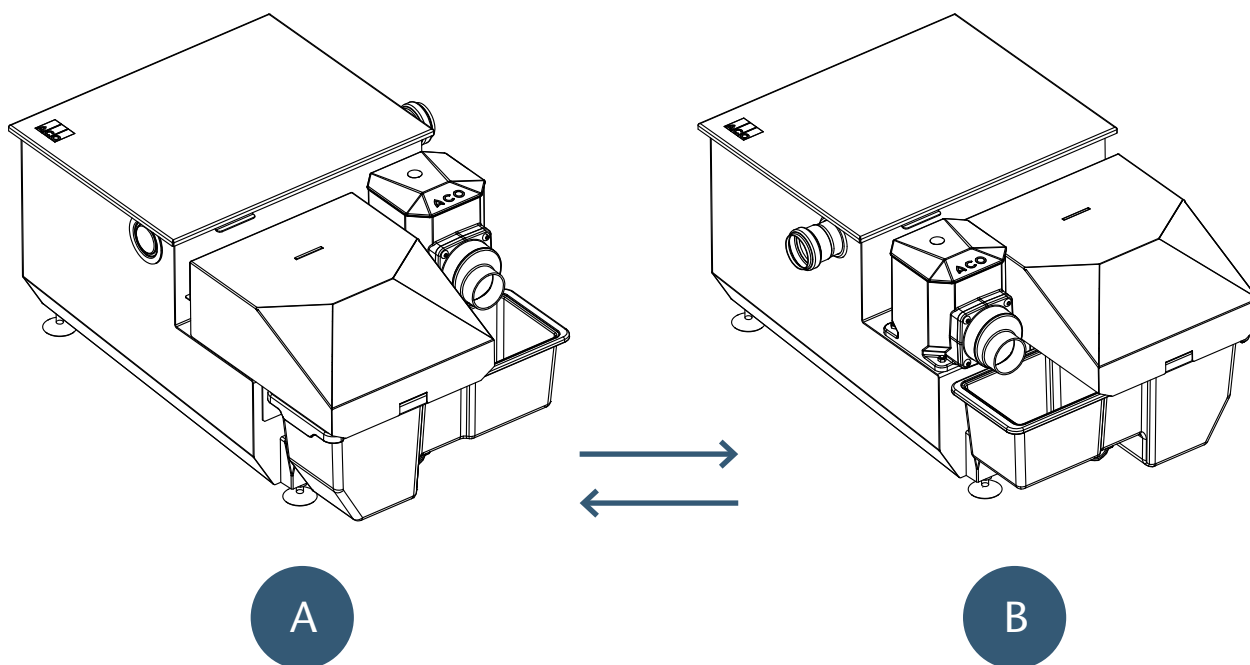




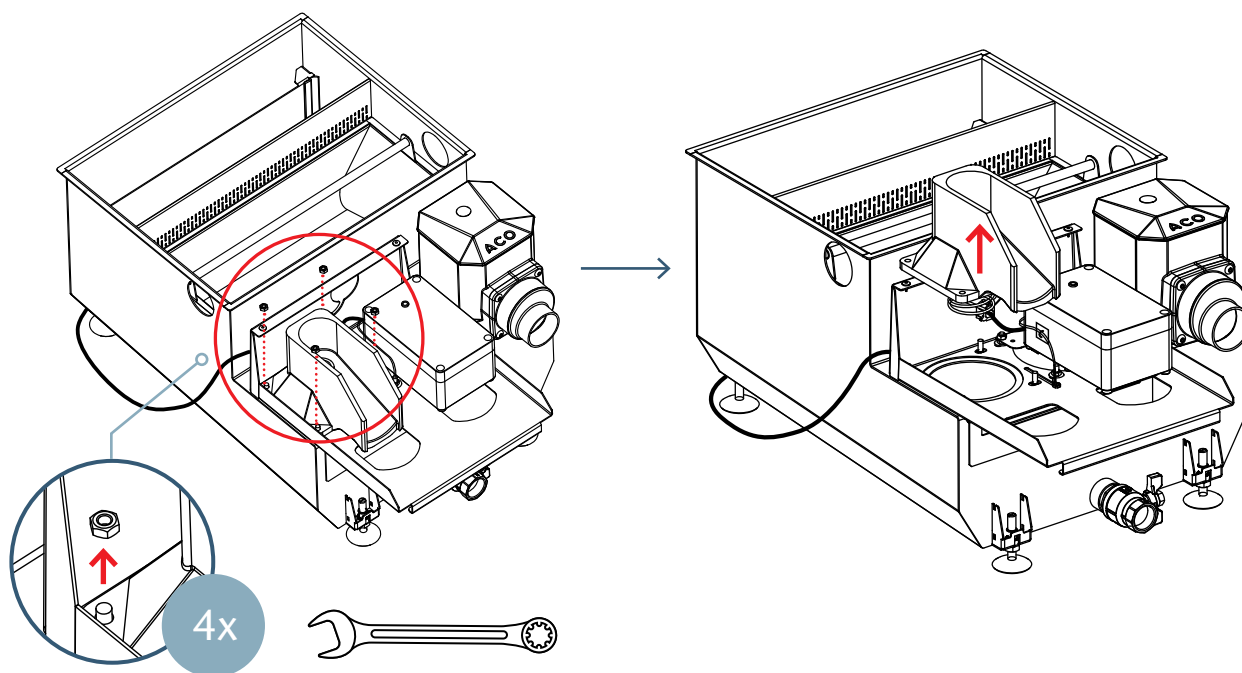
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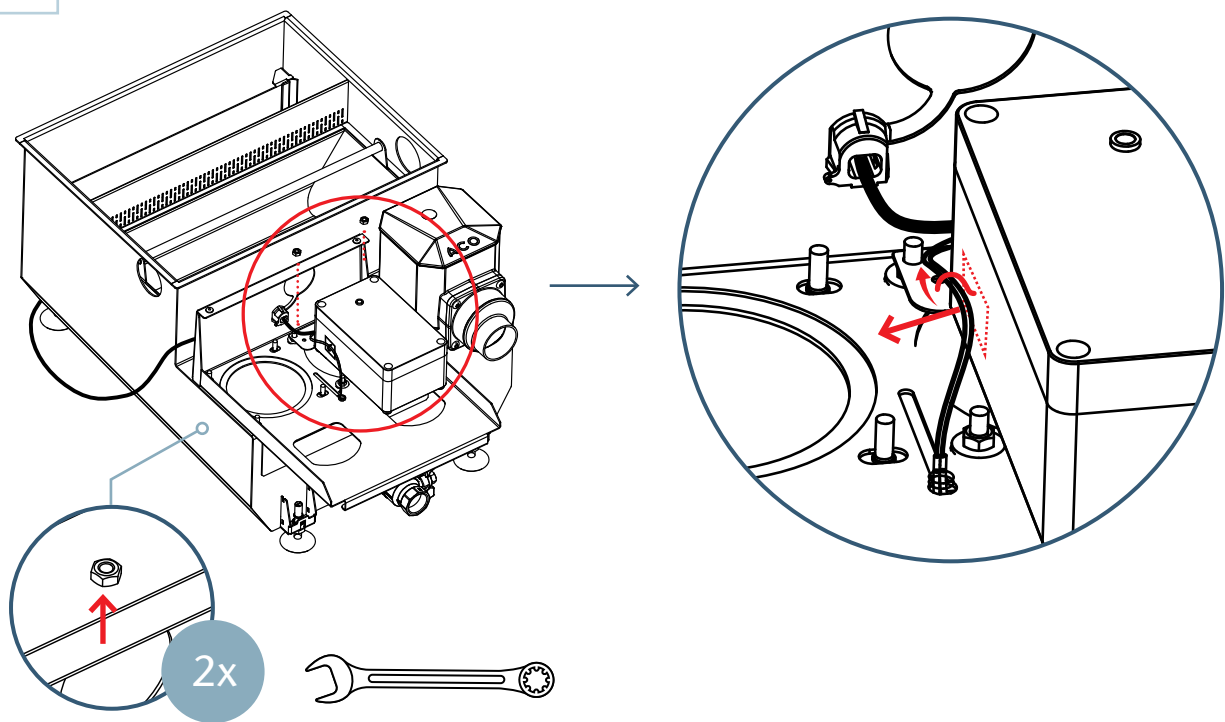
3.4. Change of outlet position



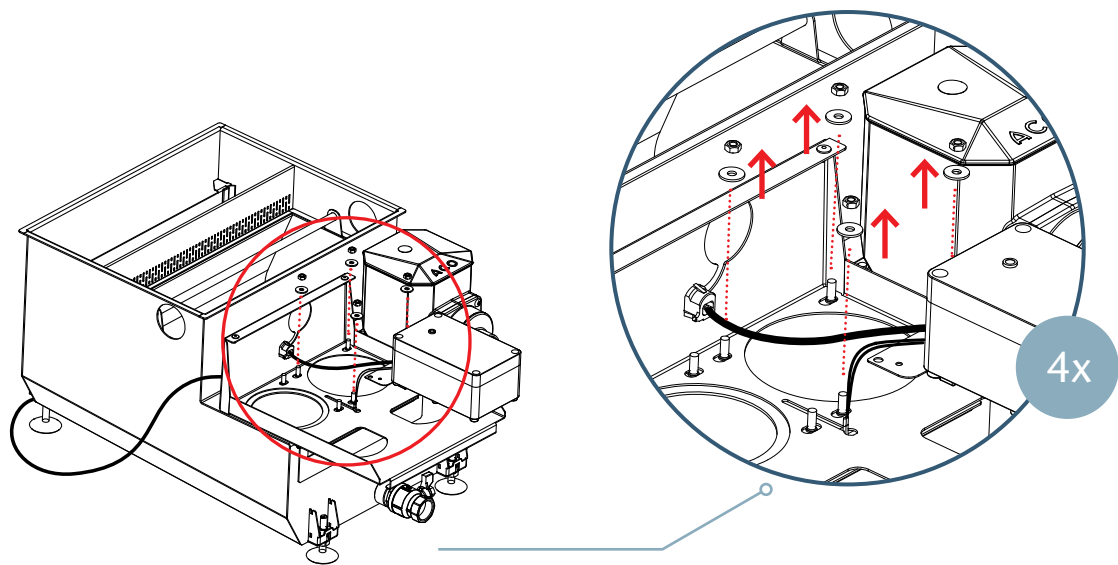
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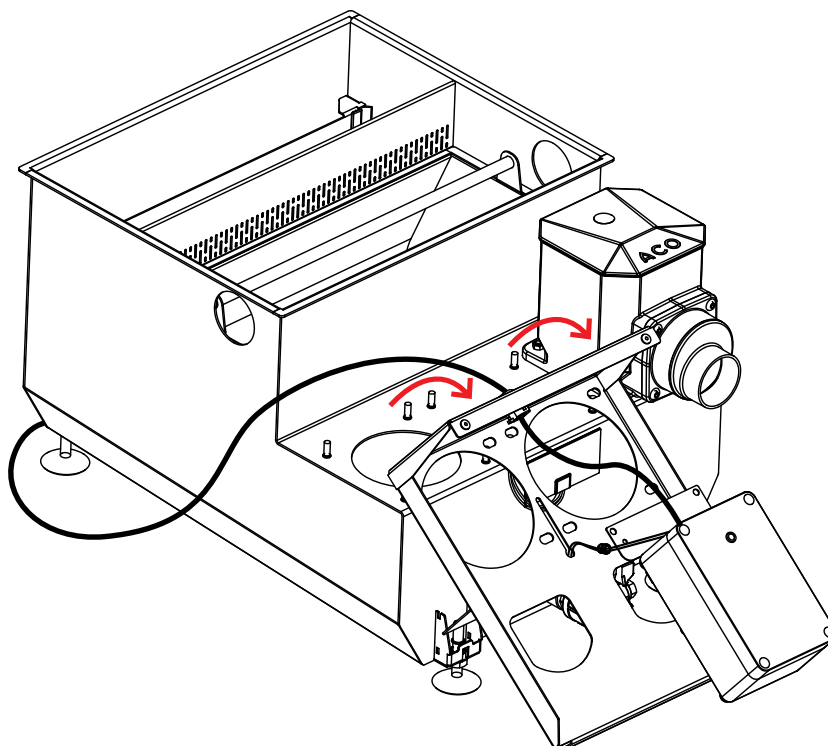
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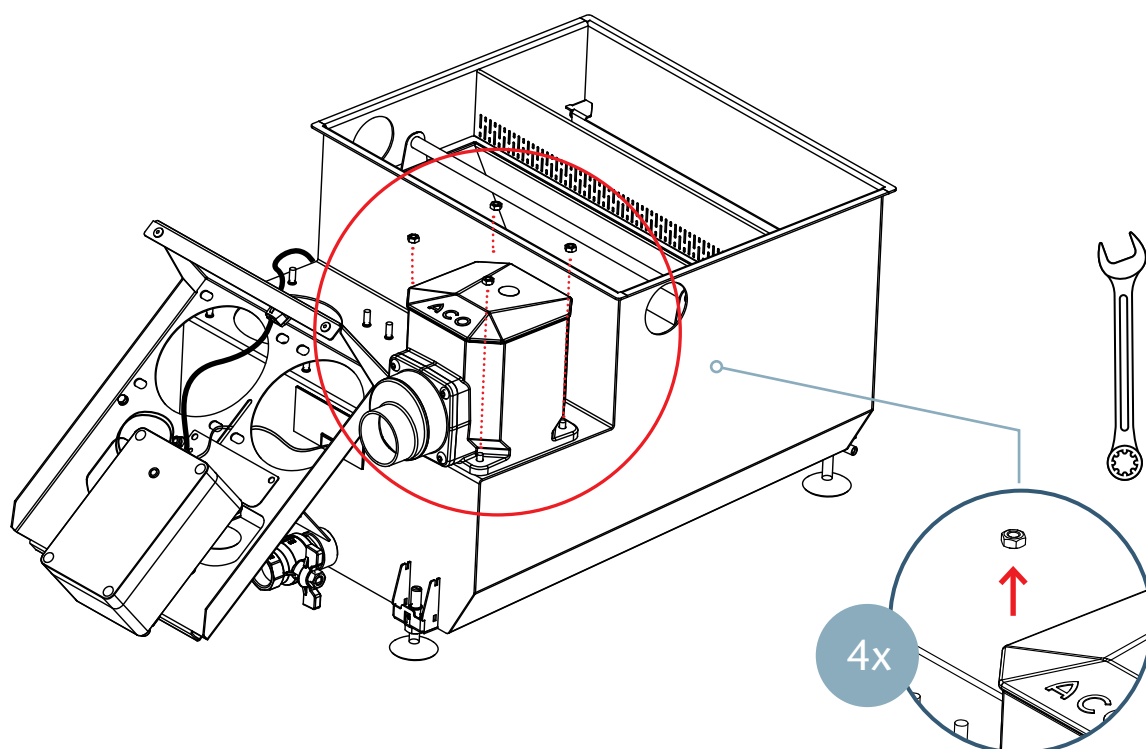
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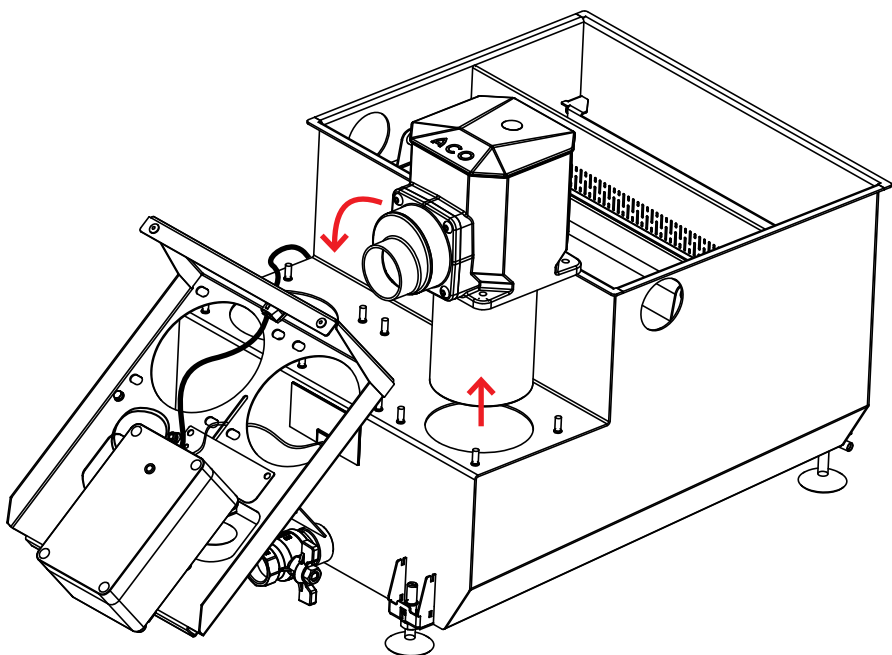
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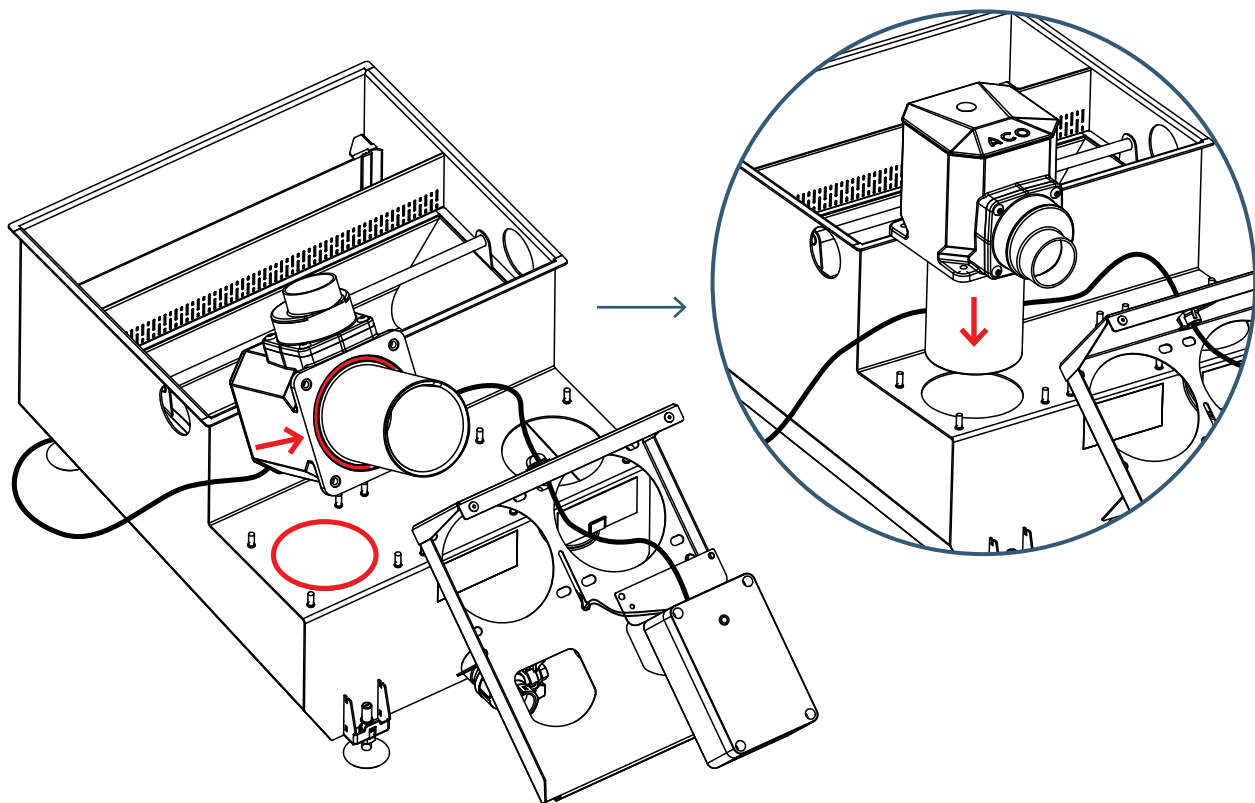
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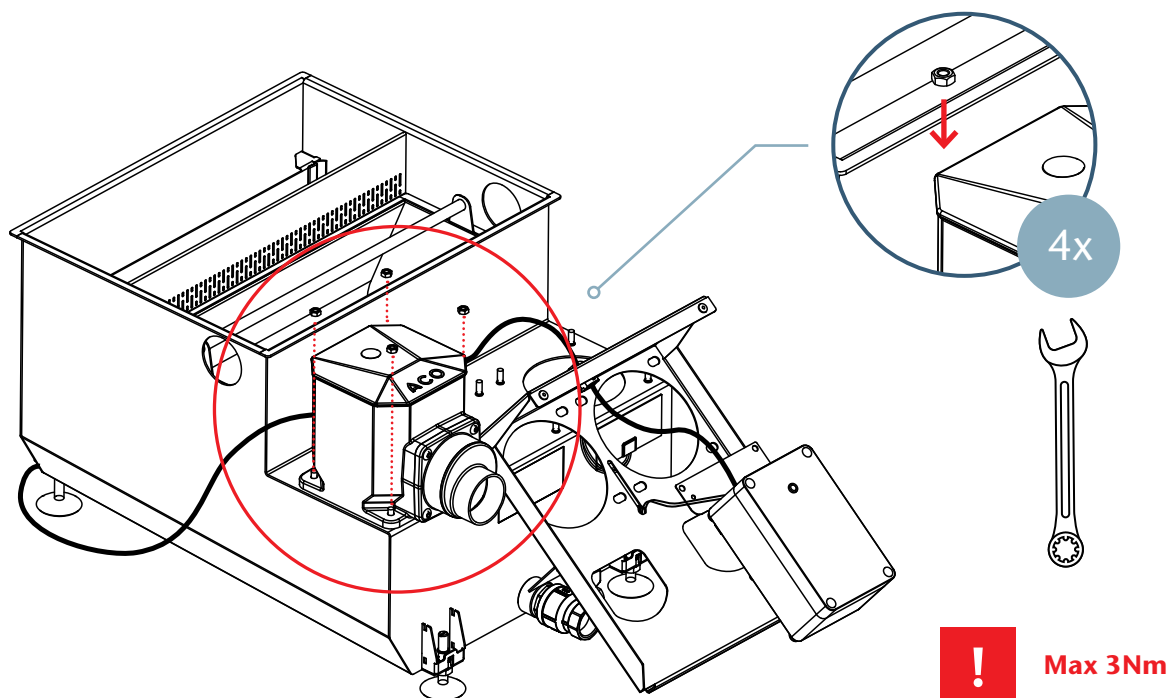
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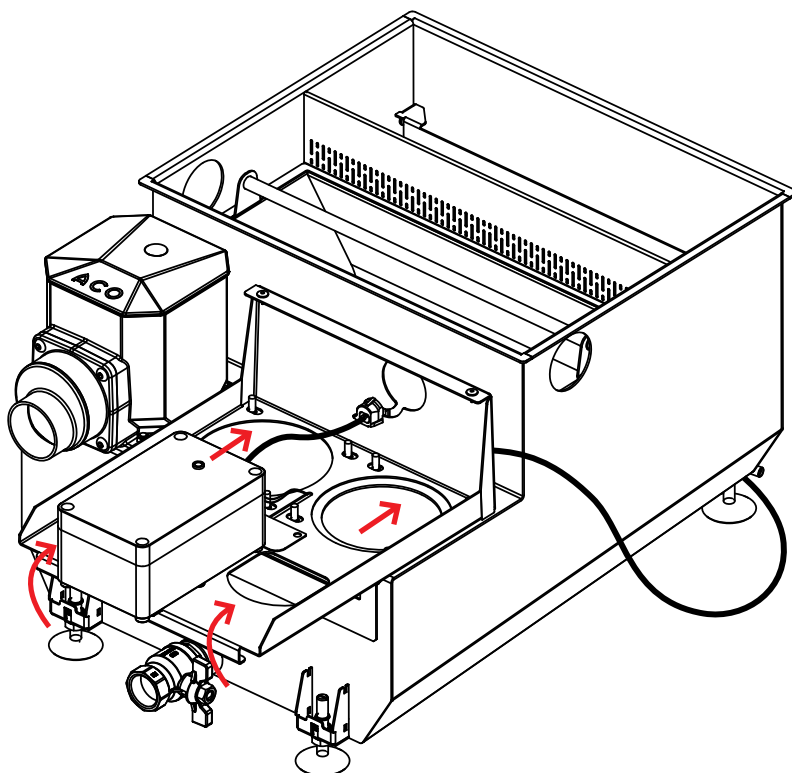
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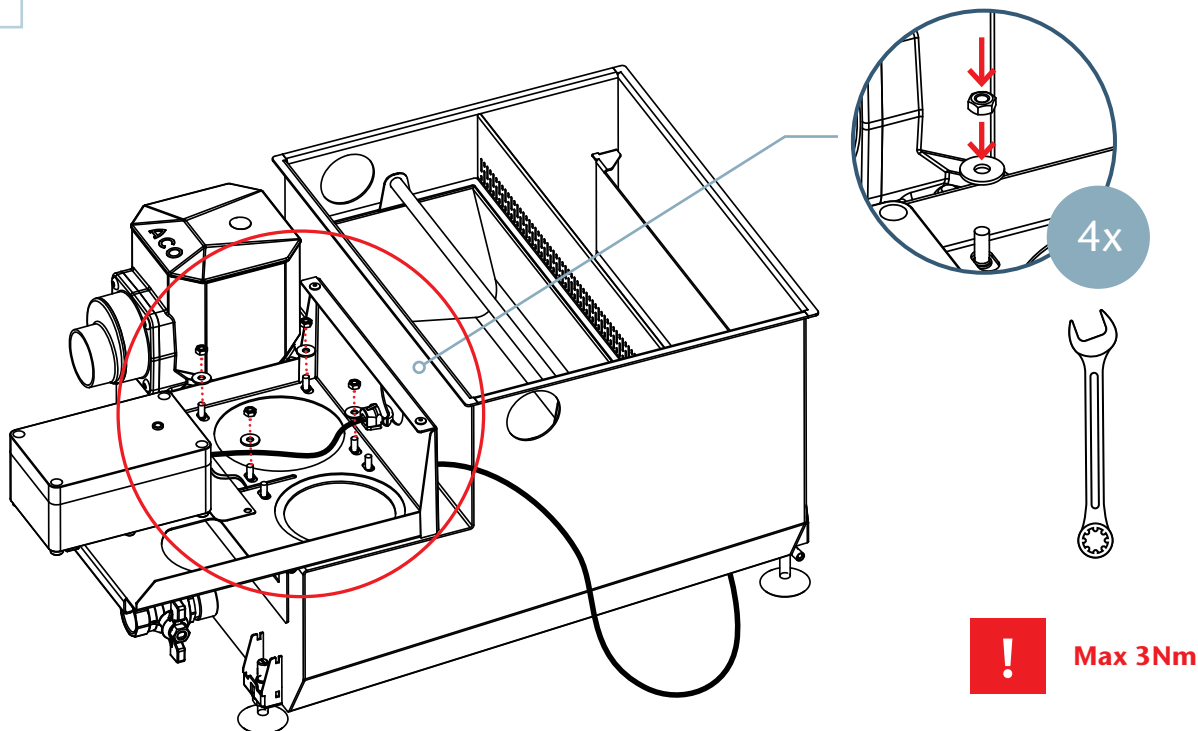
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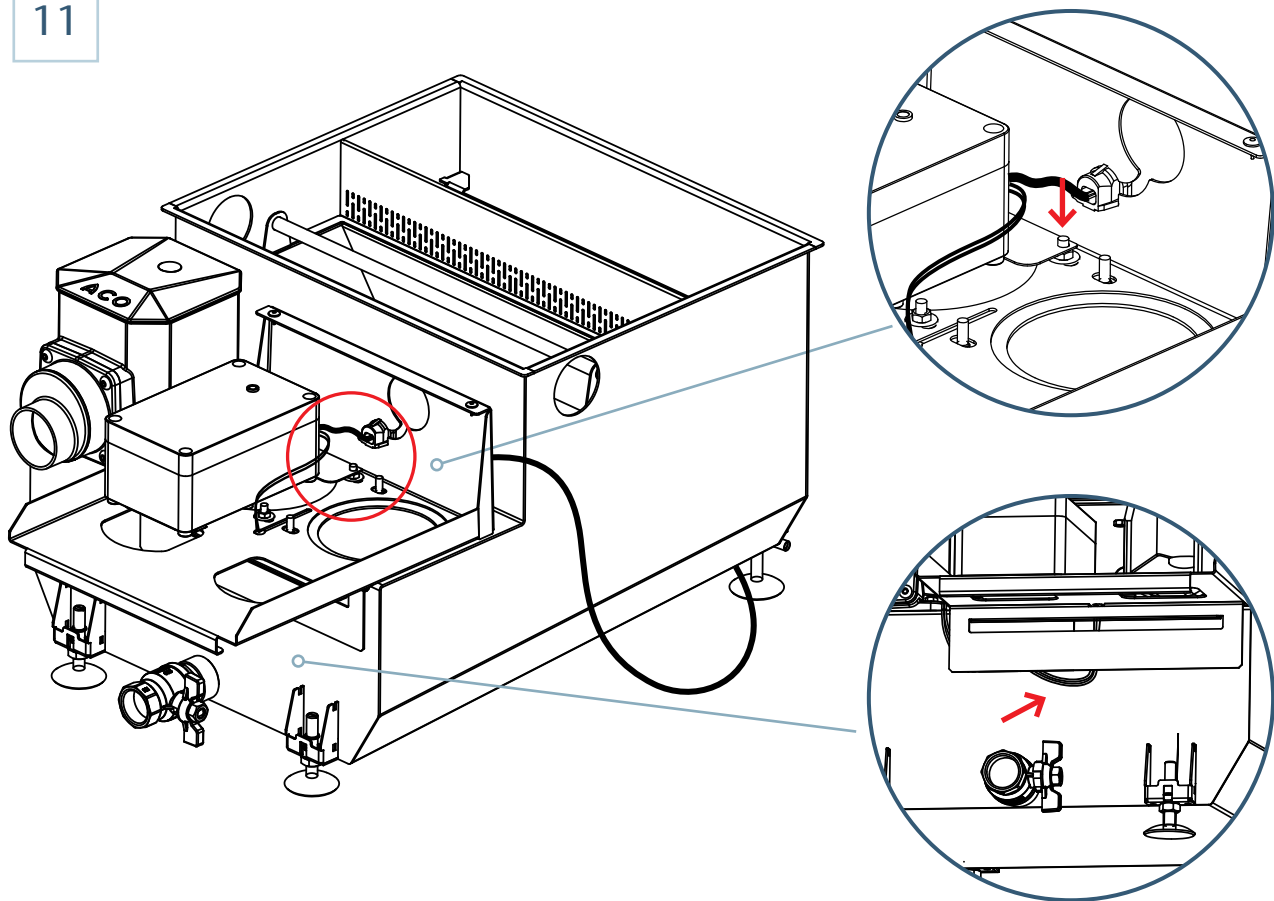
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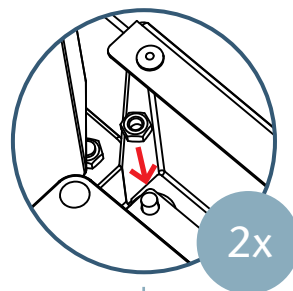
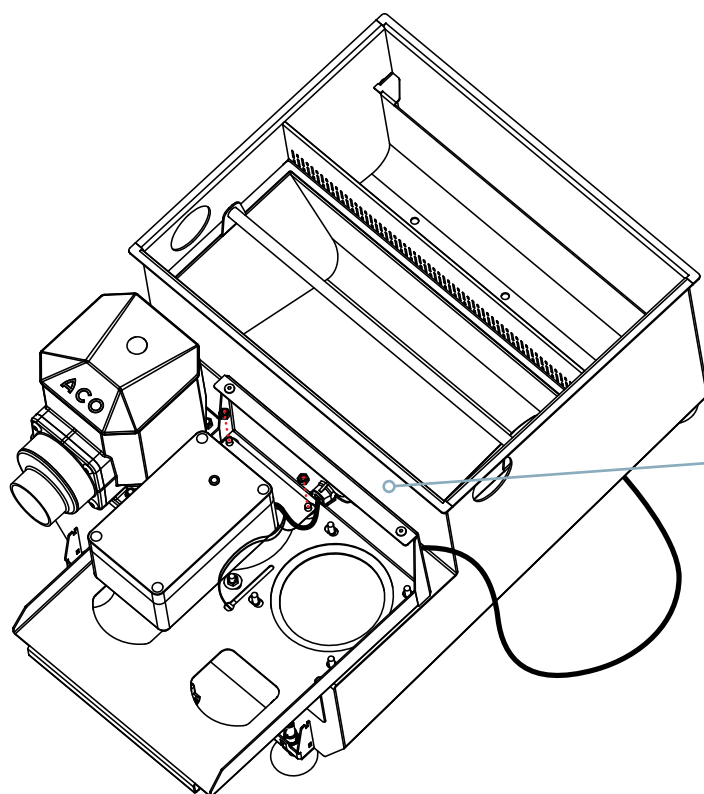
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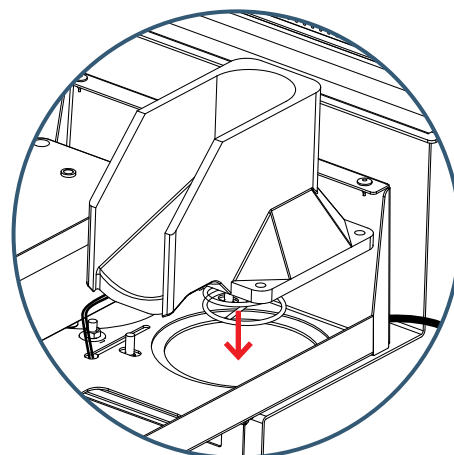
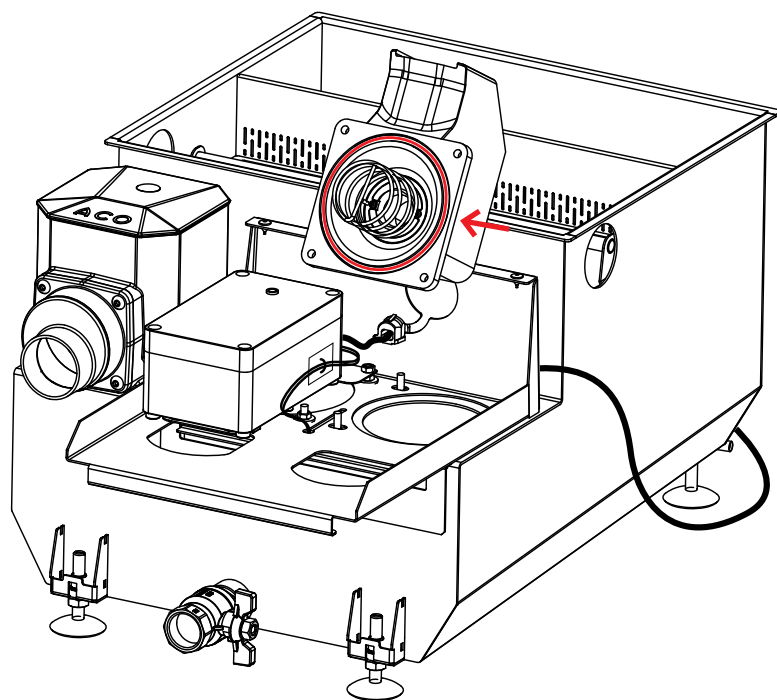
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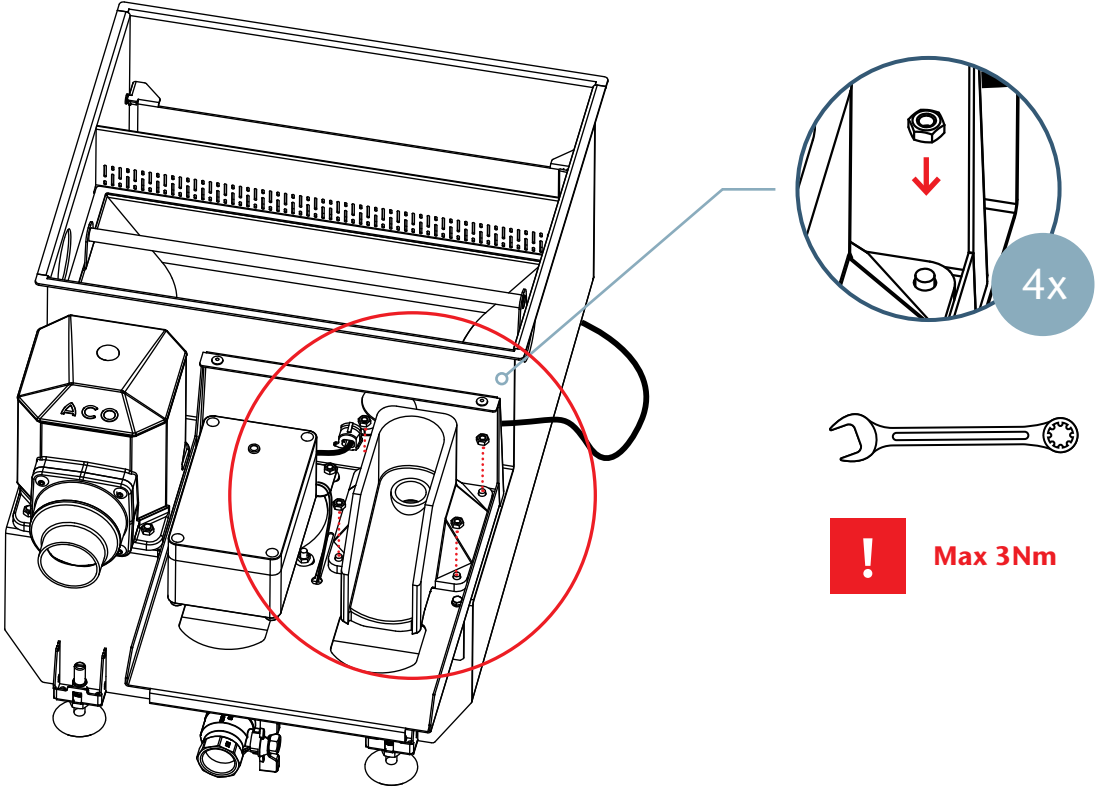
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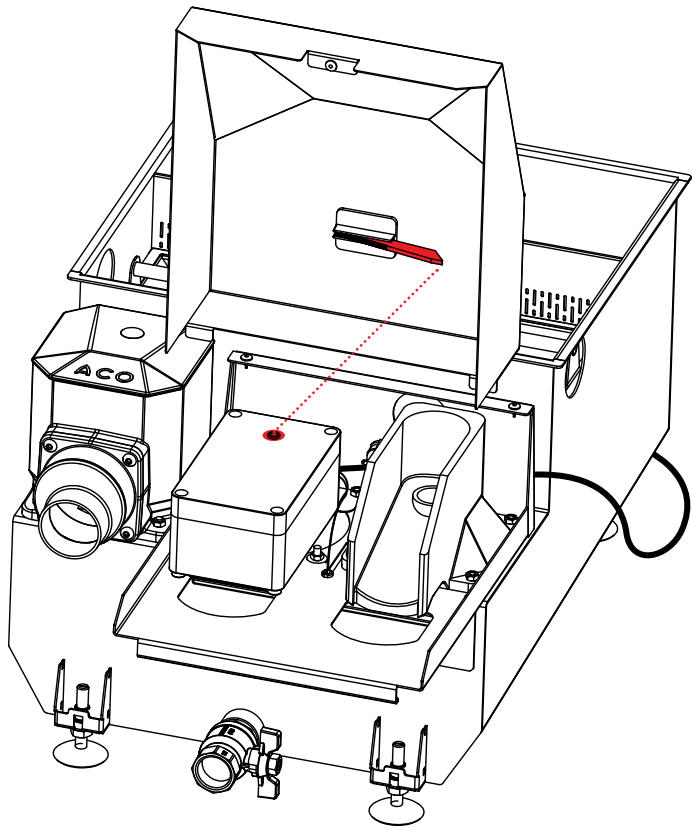
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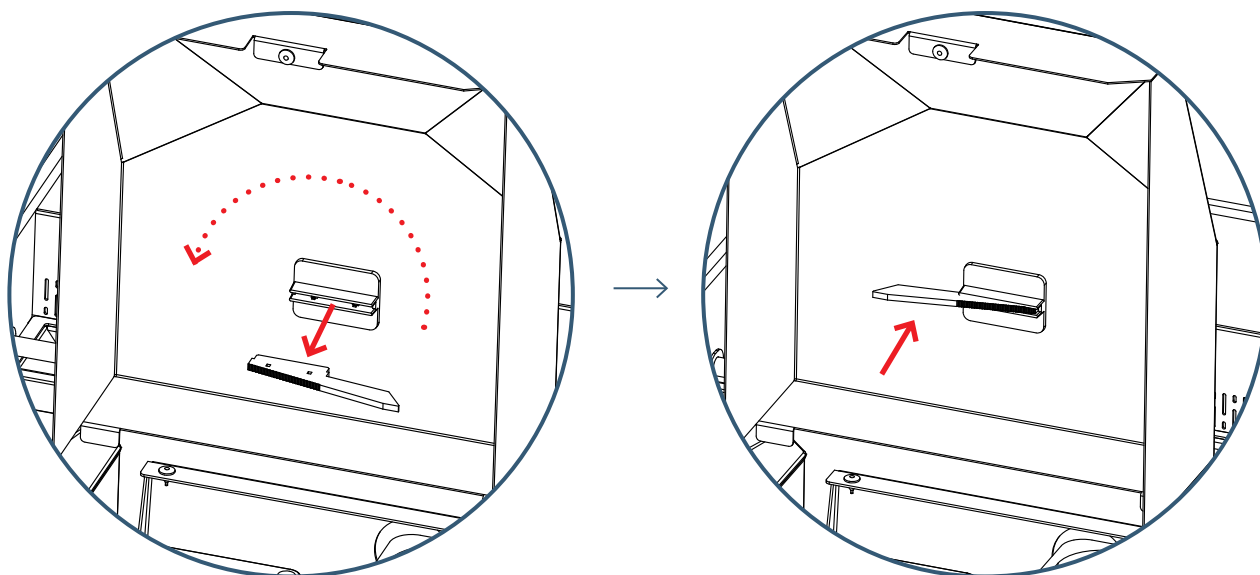
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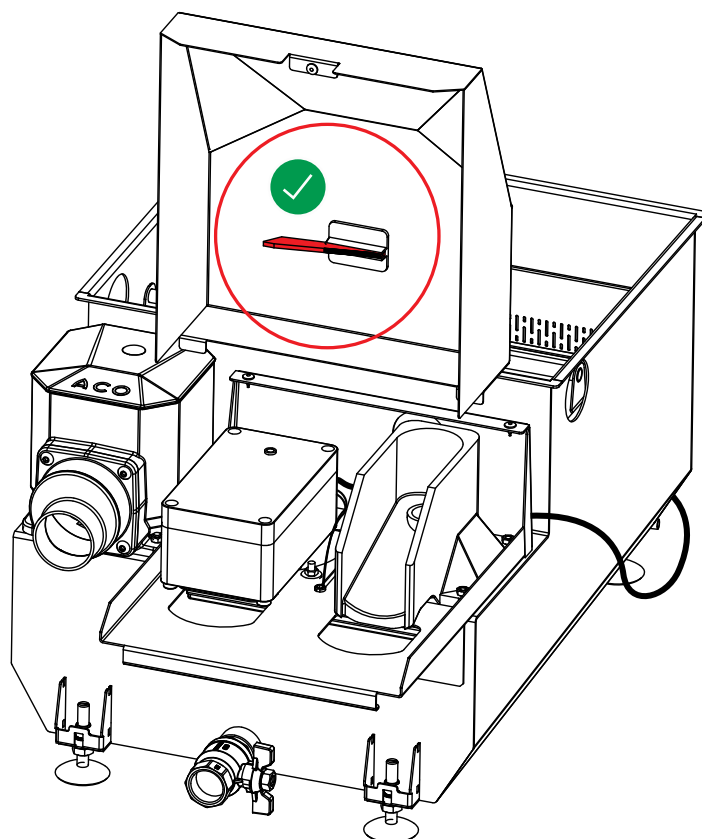
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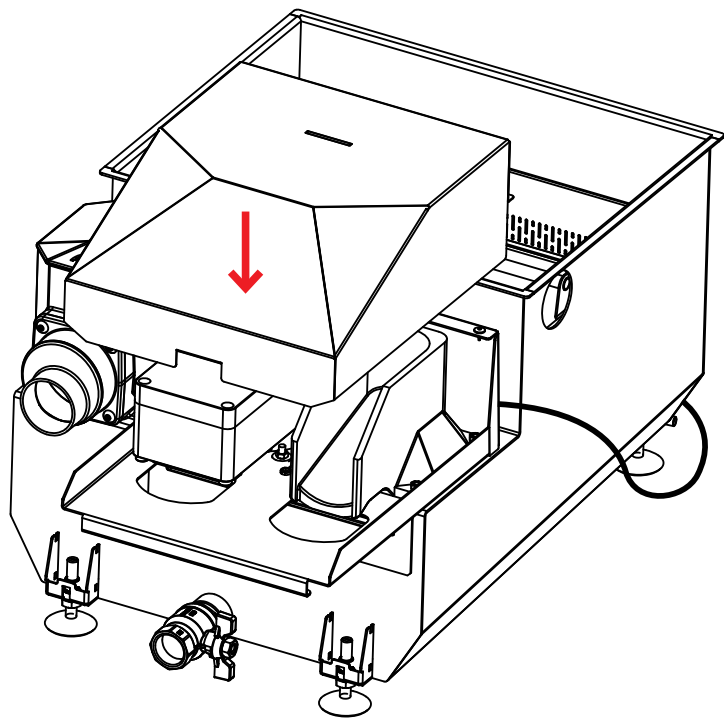
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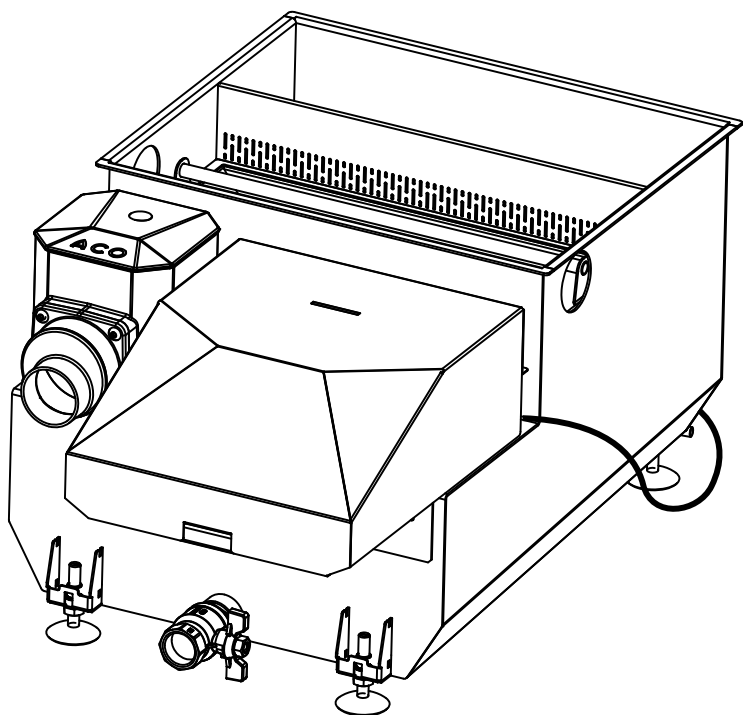
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Operation

Conditions, restrictions and recommendations
for unit operation (only for unit operation):

- If the unit has not been actively operating (no wastewater entering the unit) for more than two days, it is necessary to flush the unit with 30 litres of water each subsequent day.
- Never open the drain ball valve at the bottom of the separator during normal operation. This valve can only be opened during quarterly maintenance.
- **When the heater is plugged in, the unit must always be completely filled with water.**
- We recommend that the drain downstream of the separator is cleaned once a year to prevent a reduction in the flow rate capacity of the unit and resultant overflows.
- The heater keeps the temperature of the extracted grease in the oil valve at approximately 40 °C.
- When the heater is plugged in, the white light on the cover must be on.
If not, see page 13, step 11.

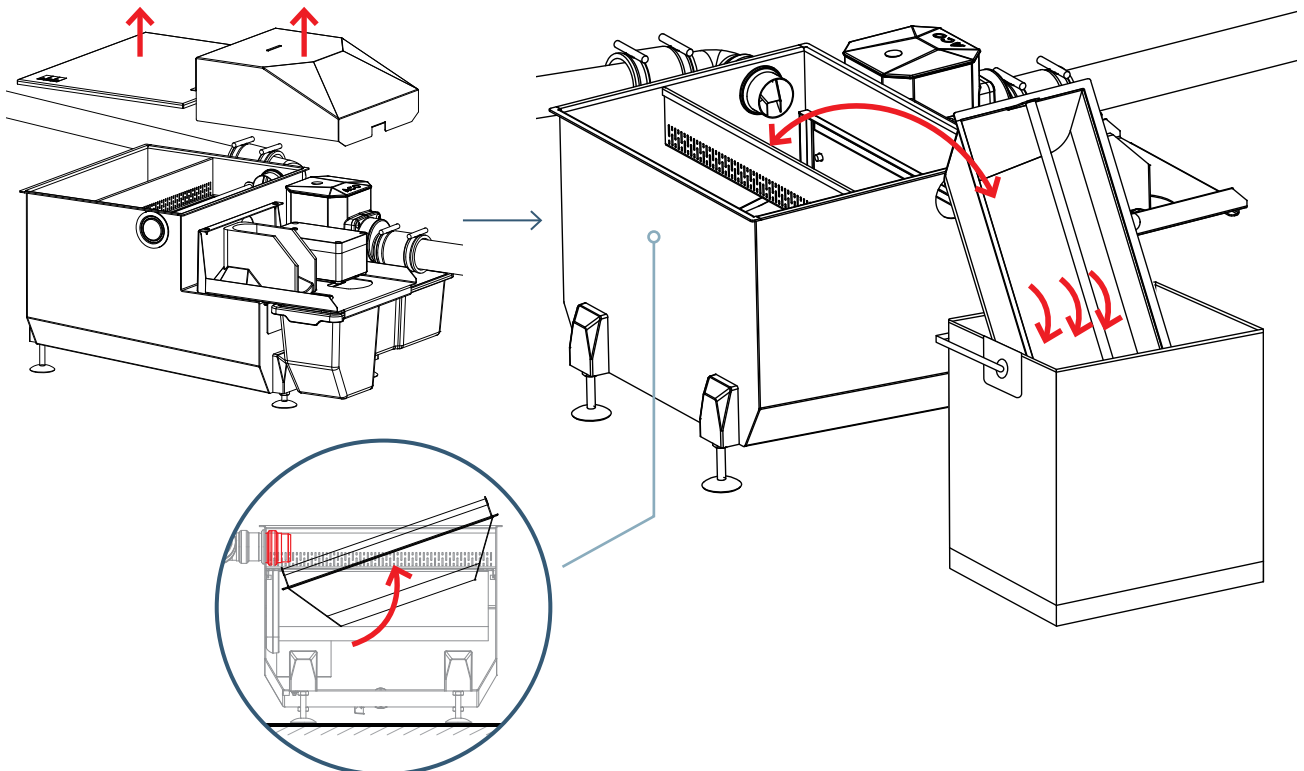
Maintenance

Conditions, restrictions and recommendations:

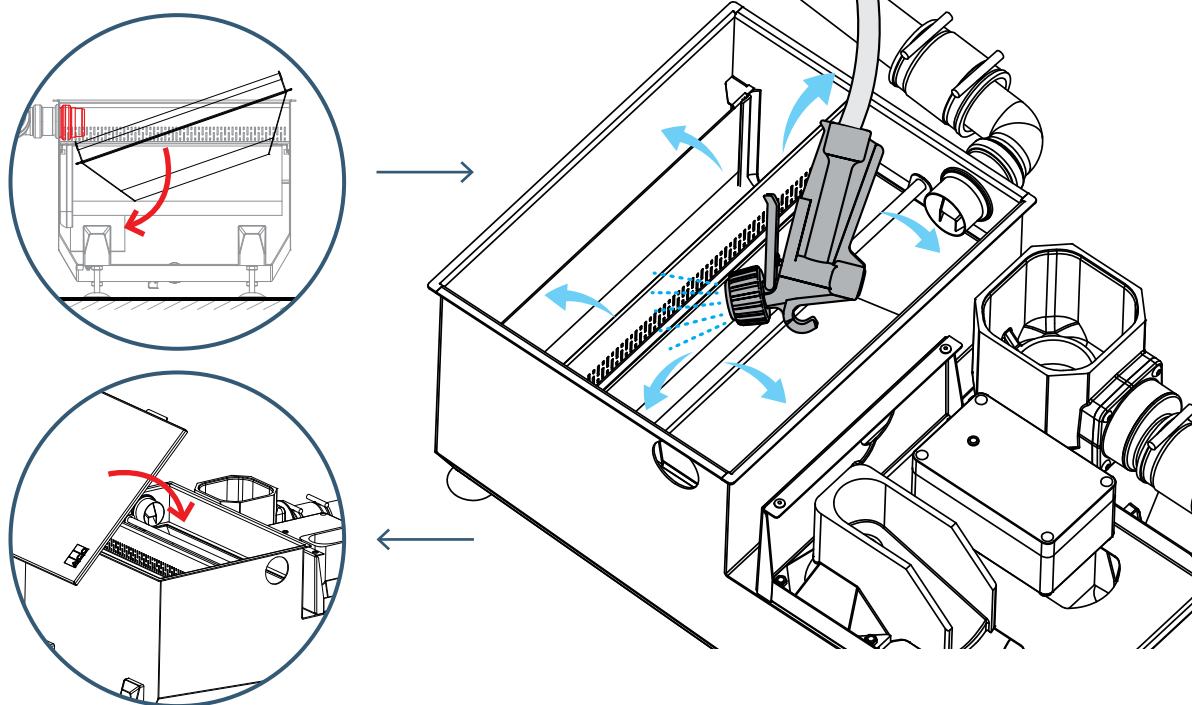
- The grease separation process loses efficiency if the unit is not properly maintained.
- The unit requires daily maintenance (this takes approximately 3 minutes). Maintenance is the responsibility of the operator. Weekly maintenance (takes around 6 minutes) is also undertaken by the operator's own staff. Quarterly service (1 hour) shall only be undertaken by a trained service person, please contact your local service provider to arrange.

1

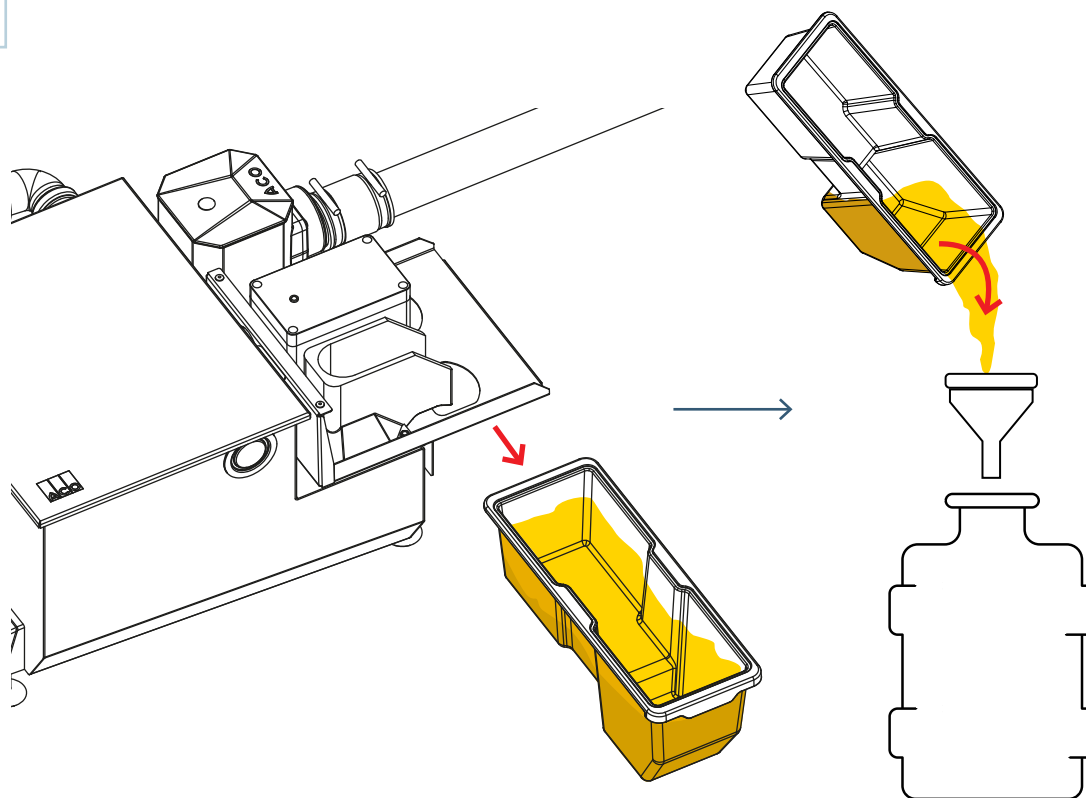
5.1. Daily Maintenance



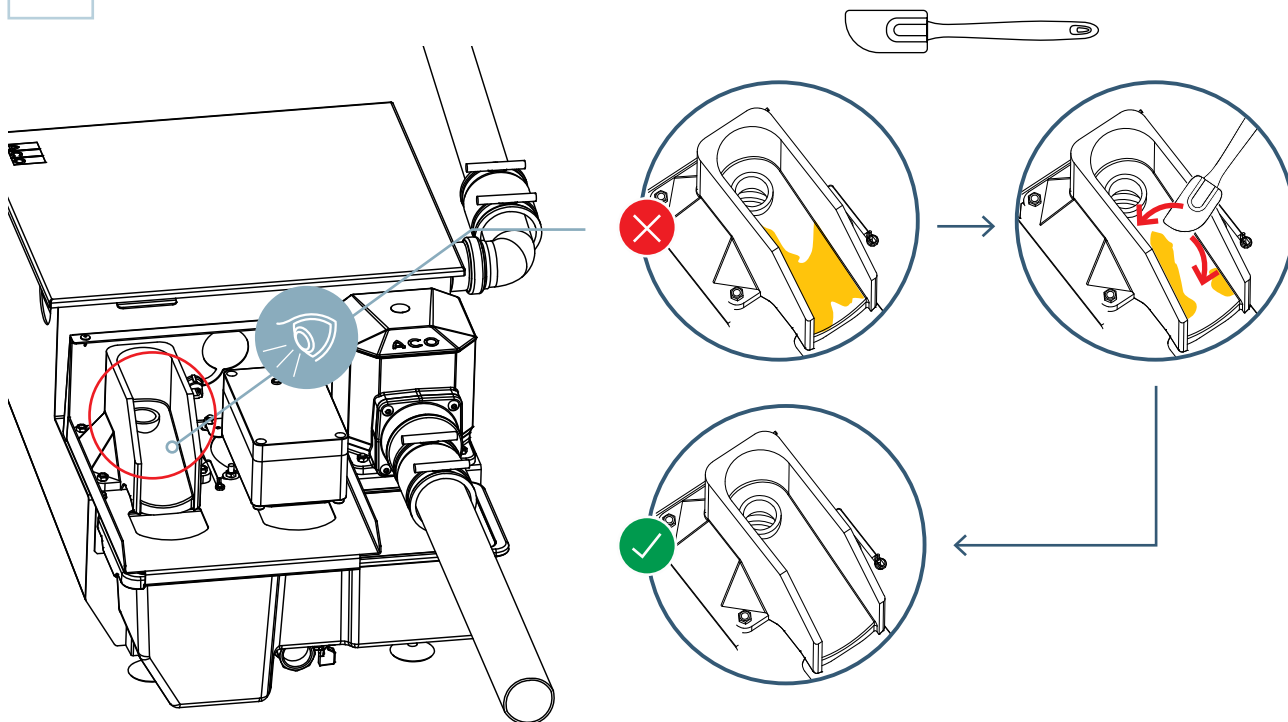
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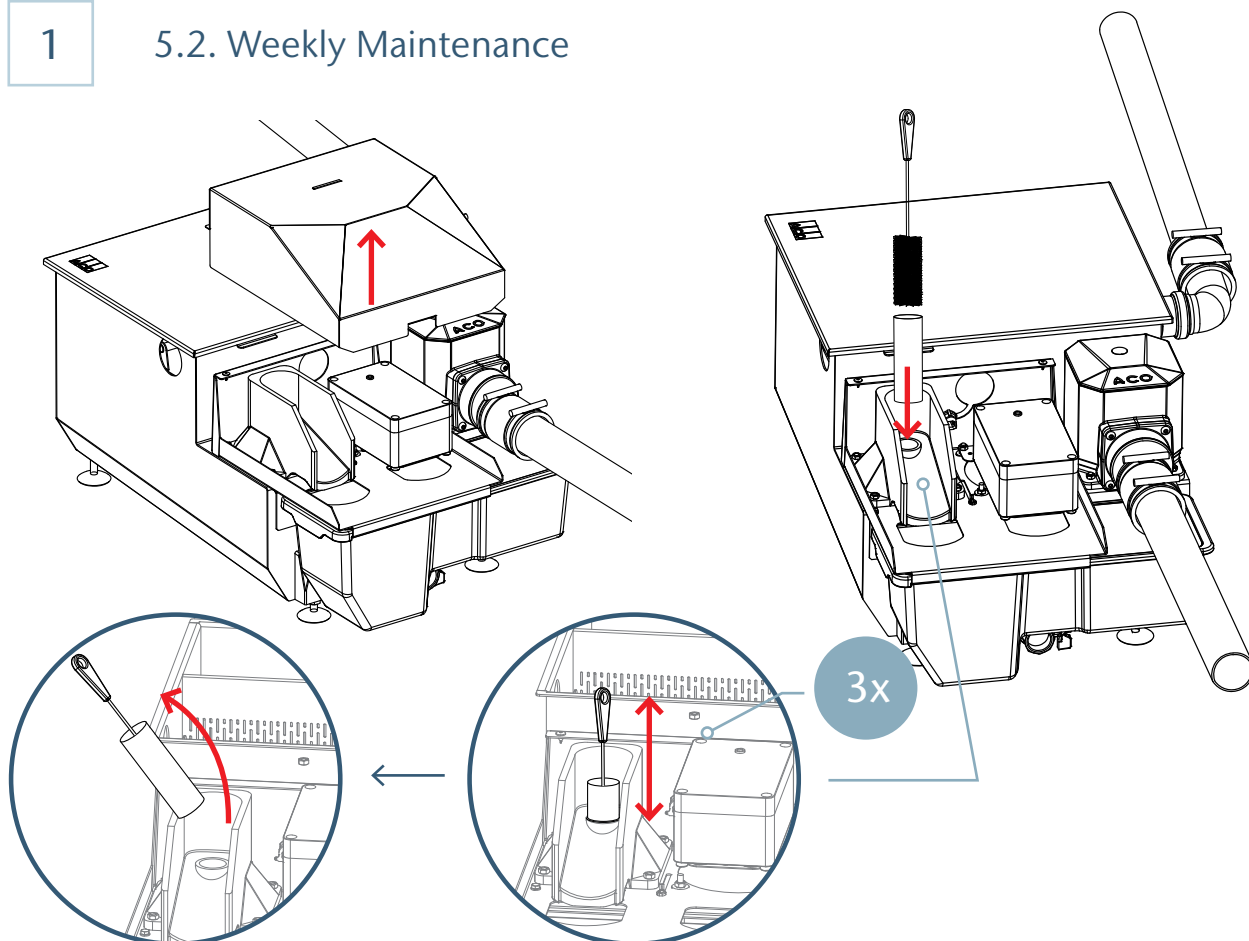


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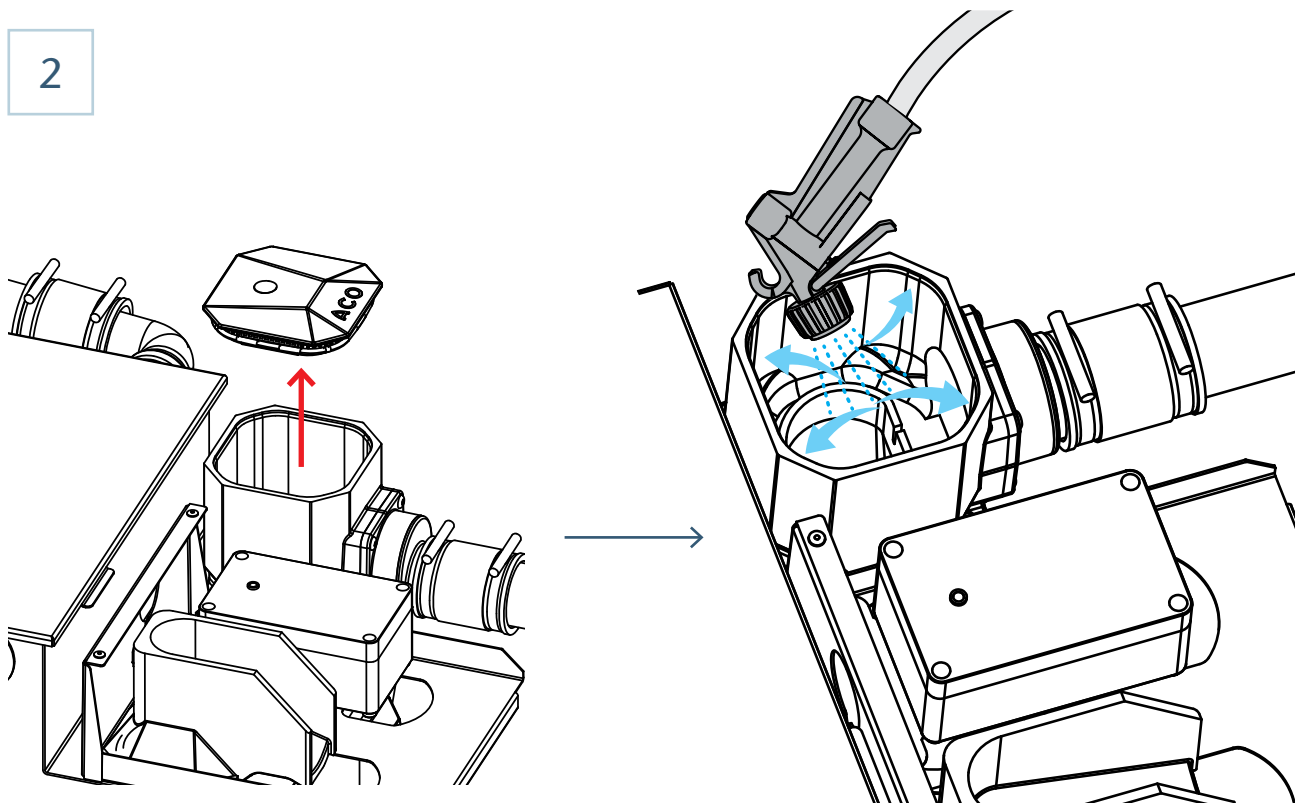


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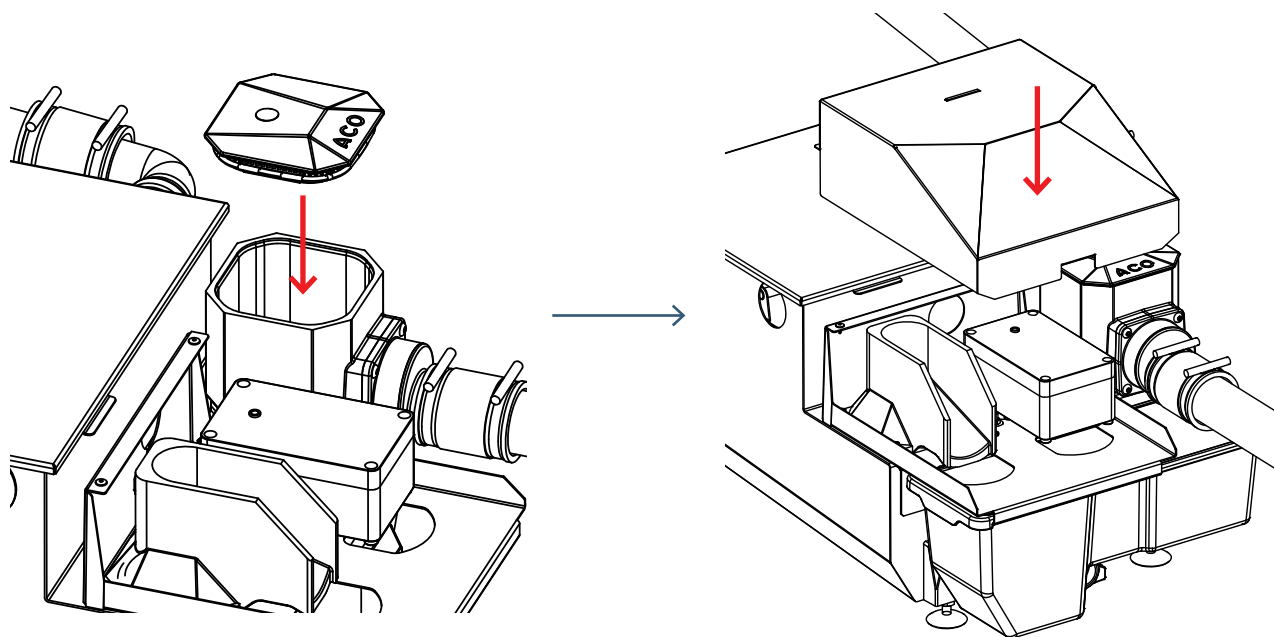
5.2. Weekly Maintenance



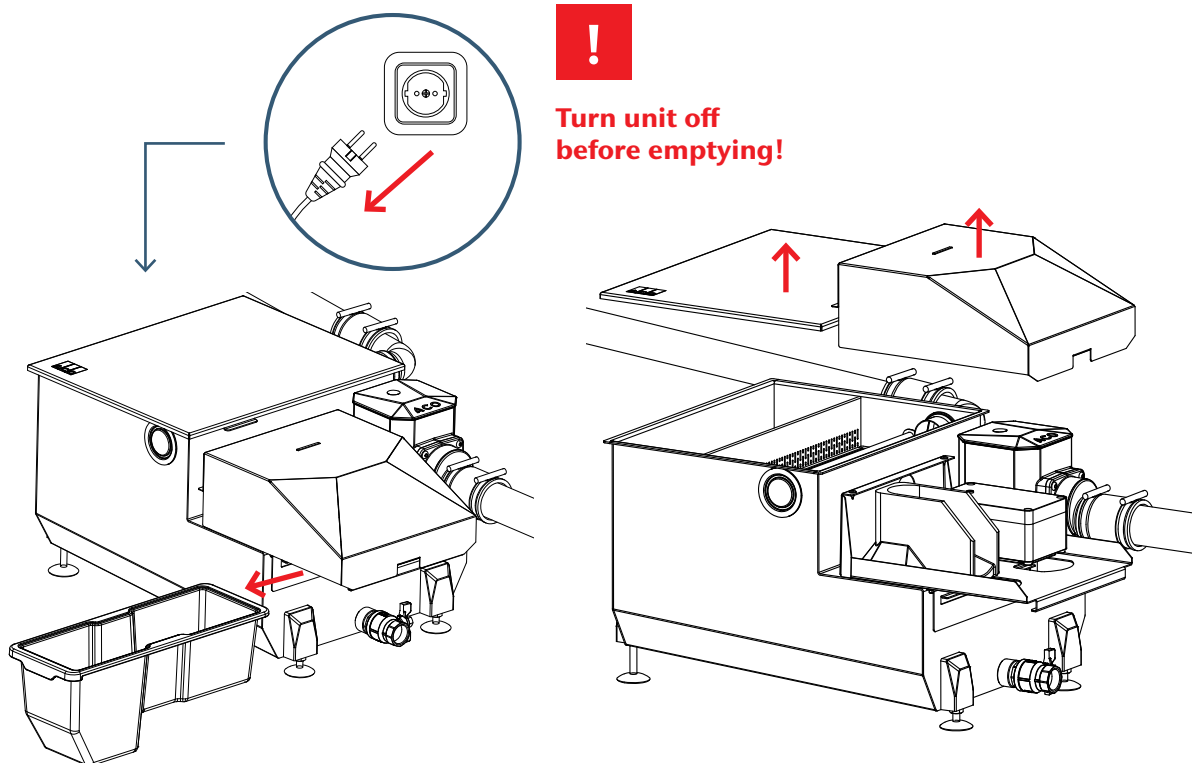
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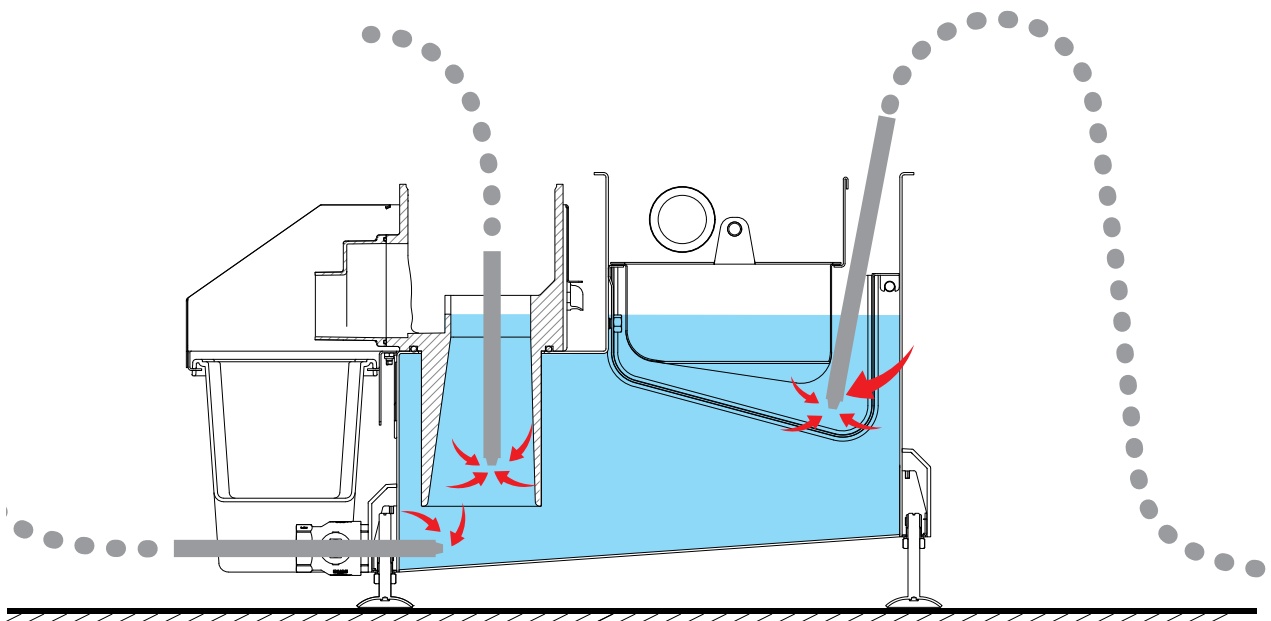
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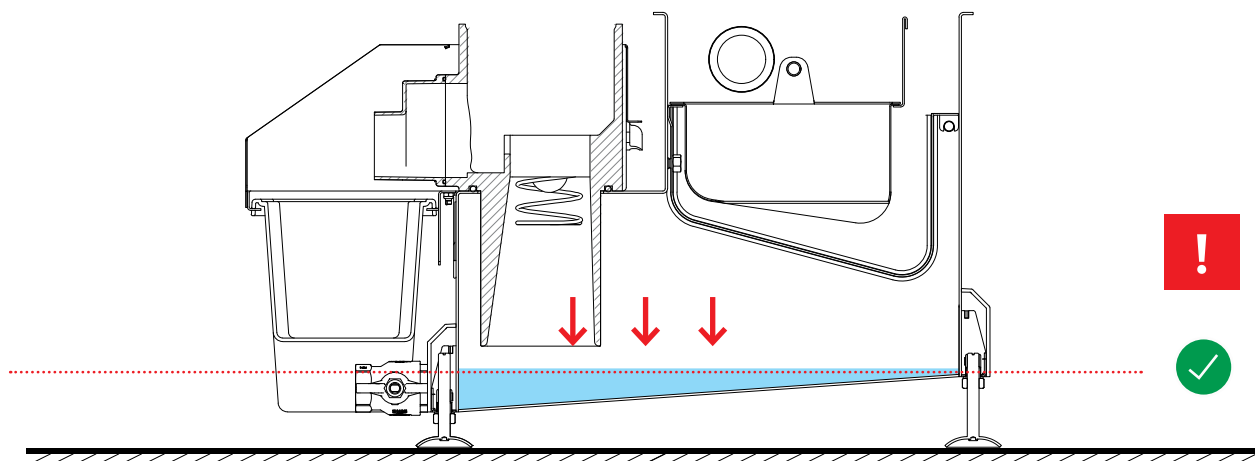
5.3. Quarterly maintenance (done by approved service partner)



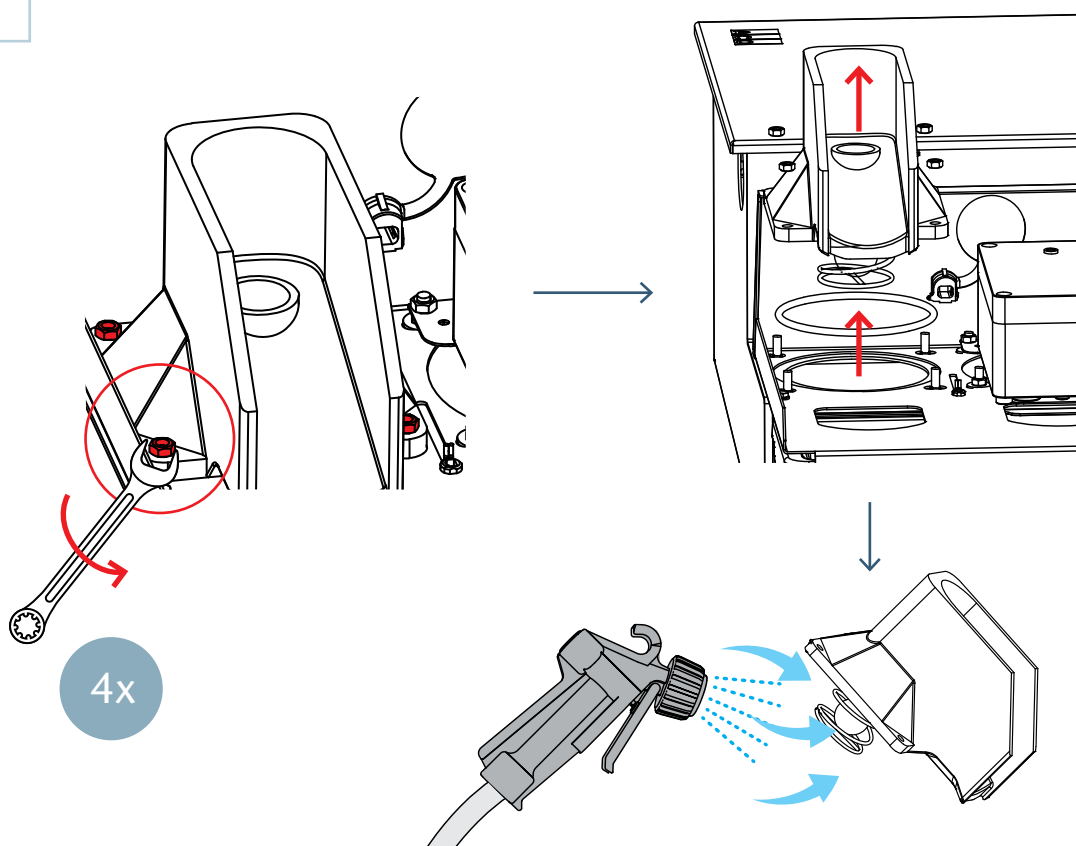
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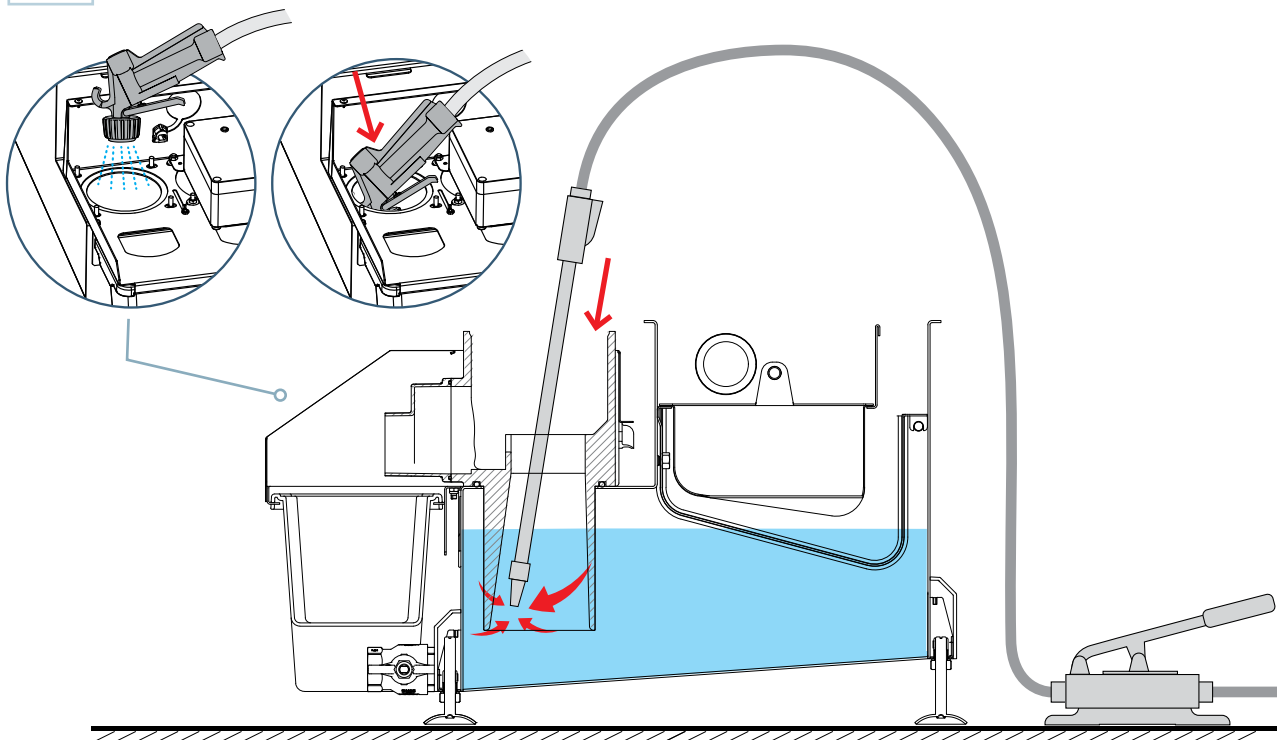
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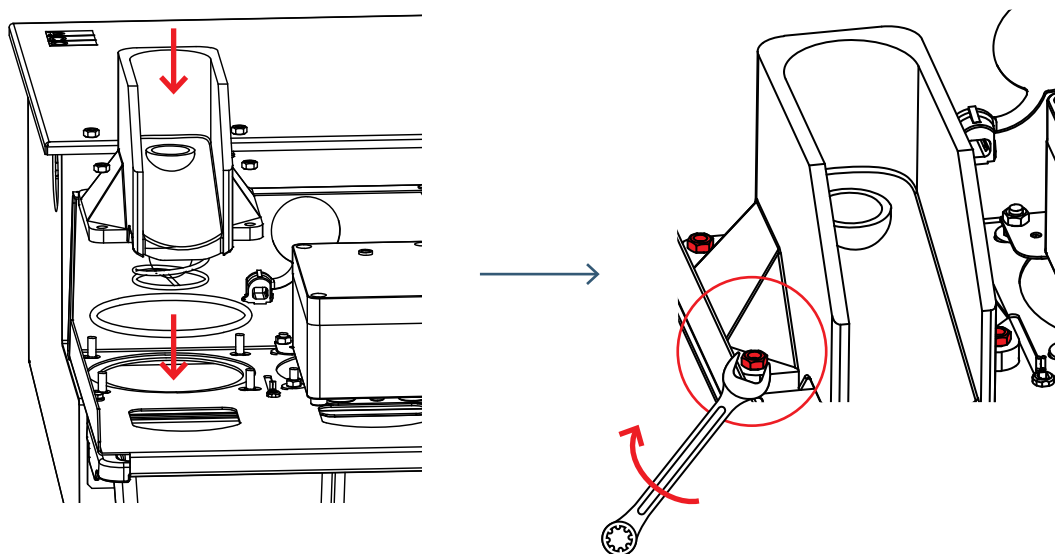
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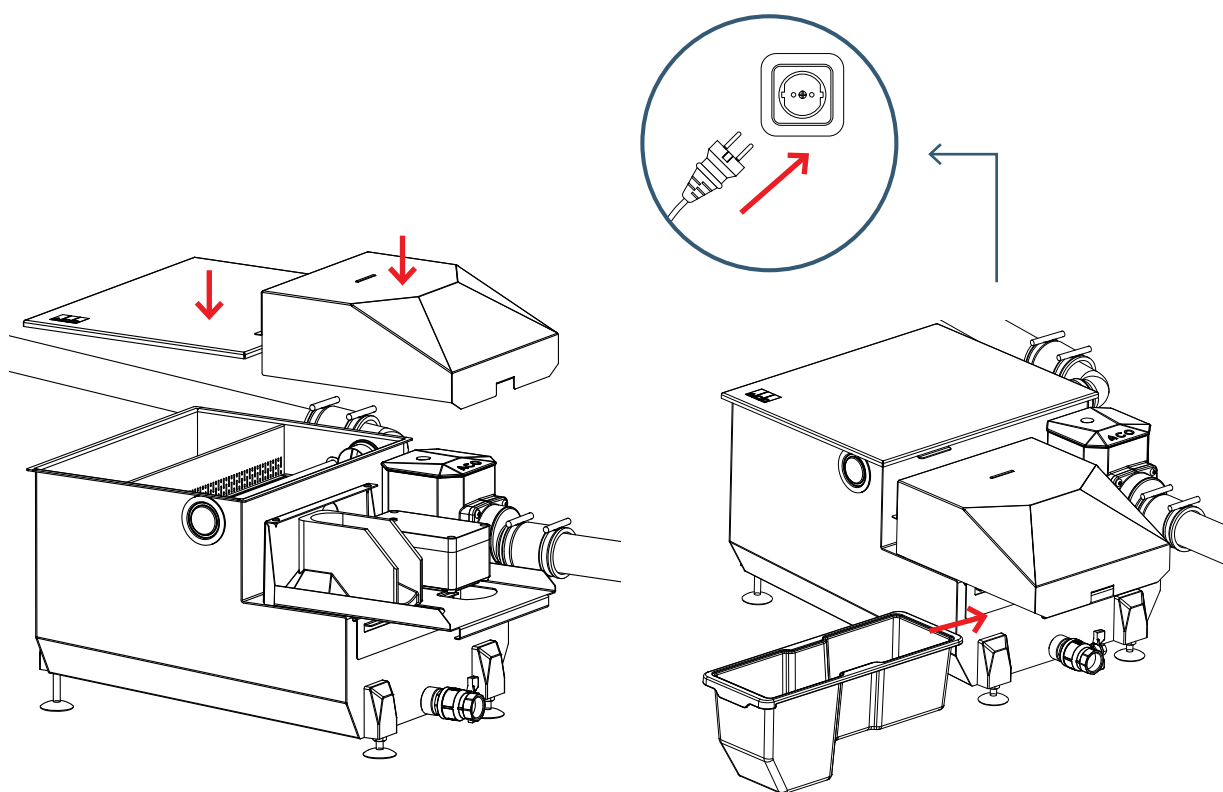
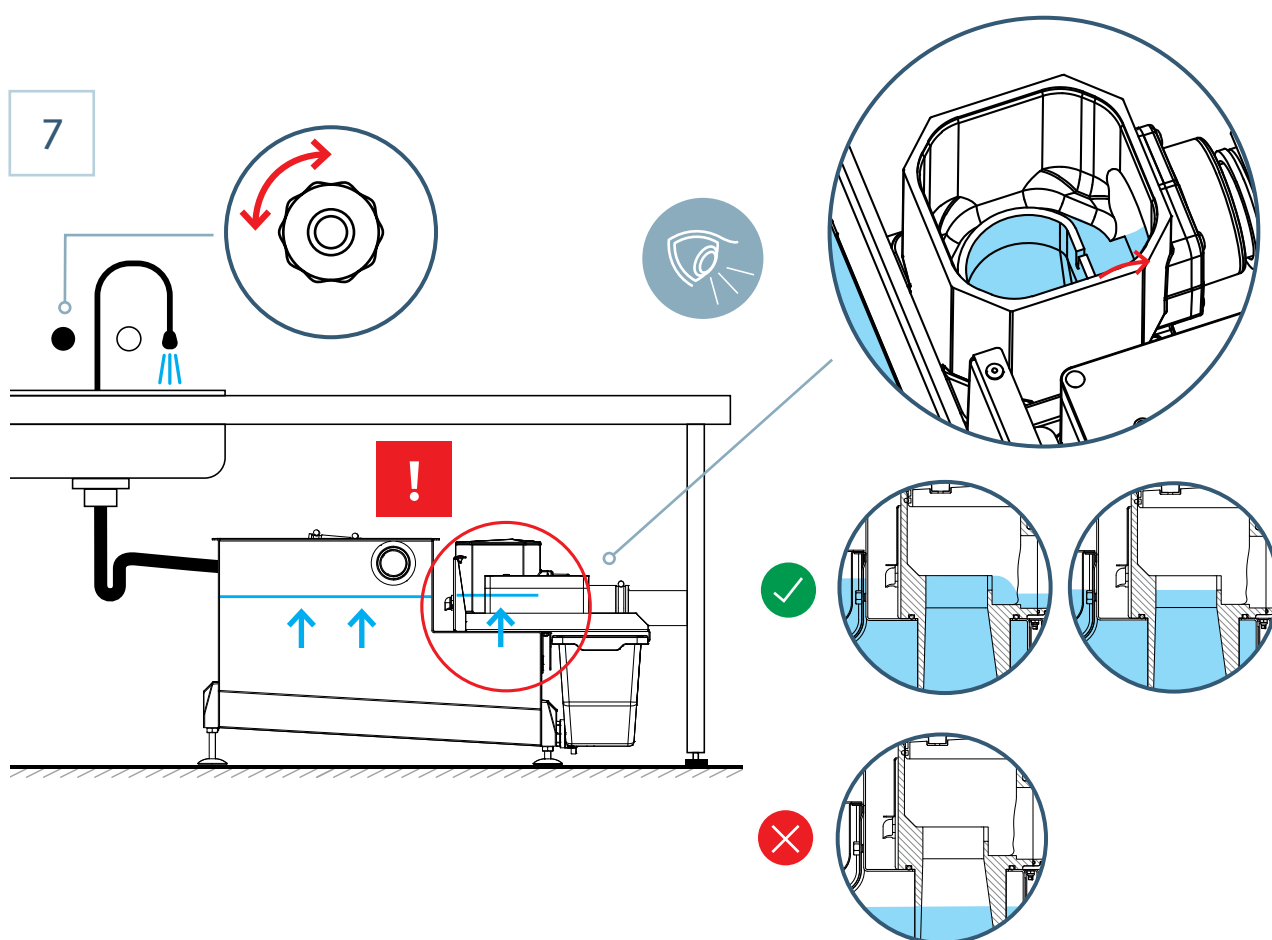
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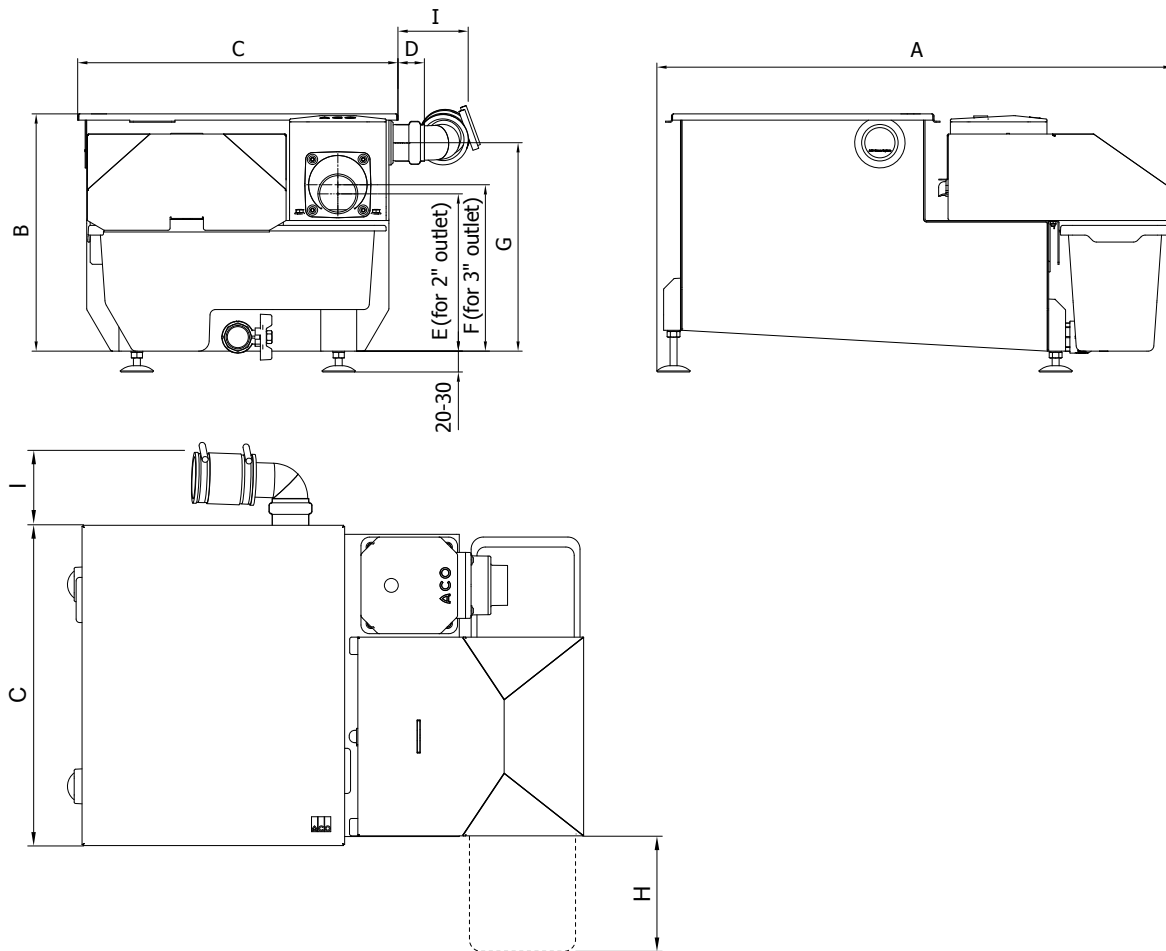
Max 3Nm



Troubleshooting

Problem	Cause	Solution
Odour	Irregular wastewater inflow, downtime more than two days.	Should operational shutdown last longer than two days, flush the separator with 30 litres of water from the sink daily.
	The inlet chamber is not maintained.	Remove the inlet chamber cover and use the spray head to remove deposits on the walls. Do not remove the basket from the chamber during cleaning.
	Oil leaked around the oil valve (item 13 page 6 IOM).	Remove the oil valve cover (item 8, page 6 IOM). Thoroughly clean the oil valve (item 13, page 6 IOM) and the inside of the oil valve cover, ensuring all excess grease residue is removed.
	Decomposing grease residue in the oil container.	Clean grease residue from the oil container.
The oil valve slip is clogged with solidified grease	The heater does not heat.	Check if the white light on the cover is on. If not, check the plug and the circuit breaker in the electrical switchboard.
Separated grease does not flow into the oil container.	Clogged oil valve. Plastic ball stuck to the oil valve seat.	Clean the oil valve with a brush - refer to page 27 - Weekly maintenance IOM. Shorten the oil valve cleaning interval from weekly to daily.
	There is only an emulsion or fat free wastewater flowing into the separator.	-
Water flows into the oil container.	Oil valve seat or plastic ball is clogged with debris.	Clean the oil valve with a brush - refer to page 27 - Weekly maintenance IOM.
Waste water overflows from the separator	The inlet chamber basket is full of food waste, stopping water entering the separator.	Empty the basket and consider shortening the emptying interval to twice daily.
	The drain pipe downstream of the separator is partially or completely blocked.	Clean the drain pipe. Eliminate the cause of the pipe blockage.
	A small diameter drain pipe is used downstream of the separator and is not able to handle peak inlet flow.	Replace the inlet reducer with a smaller one to reduce the maximum flow rate of the separator.
Clogged inlet flow reducer	Bigger pieces of food debris pass through the sink into the separator.	Install a plughole strainer. Open the inlet chamber lid and remove any material from the clogged reducer.

Technical parameters



Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]
AGC2 050	643	341,5	461	38	226,5	239,5	300	431	120
AGC2 100	743	341,5	461	38	226,5	239,5	300	431	120
AGC2 150	973	341,5	461	38	226,5	239,5	300	431	120
AGC2 220	1313	341,5	461	38	226,5	239,5	300	431	120

Model	AGC2 050	AGC2 100	AGC2 150	AGC2 220
Weight [kg]	26	29	37	46
Material	Stainless Steel 304 (1.4301), 2 mm thickness			
Shipping dimension L x W x H [mm]	783 x 515 x 353	783 x 515 x 353	1013 x 515 x 353	1053 x 515 x 353
Flow Rating [L/m]	7 gpm (26 L/min)	15 gpm (57 L/min)	25 gpm (95 L/min)	35 gpm (132 L/min)
Solid strainer capacity [L]	5	5	8	8
Efficiency	99.4 %	96.7 %	95.3%	95.2%
Electrical input	100-240 VAC, 50/60 Hz			
Electrical output	24 VDC, 40W			

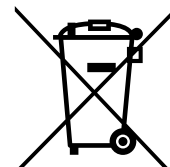
8

End of life instructions

The equipment must be disposed in compliance with applicable local and national legislation.

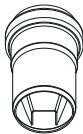
Where feasible, the equipment should be taken to authorised recycling facilities.
The equipment contains components or materials (such as printed circuit boards, stainless steel, plastics) that require selective treatment.

The symbol of a crossed-out waste bin indicates that the product must not be disposed with unsorted municipal waste and must be separately collected.



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Accessories

	Description	Art. Nr.
	Rubber Coupling 2"/2" - for Ø50 - 58, PVC	2273822
	Rubber Coupling 3"/3" - for Ø75 - 85, PVC	2274146
	Rubber Coupling 2"/1.5" - for Ø50-58 / Ø38-45, PVC	2273821
	Inlet elbow	2215351
	Spray gun holder	2270417
	Scraper	3053199
	Cleaning brush	2140349
	Cleaning pipe	2140350
	Flow reducer 0,6	2213812
	Flow reducer 0.7	2270419
	Flow reducer 1.0	2270420
	Flow reducer 1.2	2270421
	Flow reducer 1.5	2270422
	Flow reducer 2.2	2270423
	Cover for oil container	3040577

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