ASSEMBLY AND INSTALLATION INSTRUCTIONS

Amigo



6001500302_2EN • 07/2019

arjo
with people in mind

The model name and serial number should always be provided when ordering spare parts or during queries per telephone or written correspondence:

Serial number of the machine:

……

Machine model:

……

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PREFACE

The user manual describes the design and operation of the machine and the maintenance for which the user is responsible. The installation manual describes the machine's installation. The technical manual describes necessary information for operators and maintenance personnel. The information in the manual must be complied with to ensure safe and error-free operation.



Read the manual before use.

Users must read through the manual before using the machine for the first time, as well as familiarizing themselves with the operation of the machine and its safety instructions. Operators and maintenance personnel must have completed training through the marketing organization of Arjo.

The information in this manual describes the machine as dispatched from Arjo. There may be differences due to customization for customers or countries.

The machine is accompanied by the following documentation:

- User manual
- Installation manual
- Quick guide

The following documentation shall be provided by the sales company to the end-user on request:

- Technical manual
- Spare parts list

The accompanying Quick guide must be hung up and clearly visible in the installation area.

Arjo reserves the right to change the specification and design without prior notice. The information in this manual was up-to-date on the date that the manual was issued.

1 SAFETY PRECAUTIONS



The equipment must be used in accordance with the safety instructions below. If in doubt, contact a representative of the reseller without delay.

1.1 General safety regulations



Do not wash down or hose down the machine with water.

- Read the user manual thoroughly before use
- The equipment must only be used by personnel who know about it and are trained to use it. Personnel must also receive regular training on this equipment. Documents which state the names of the personnel who took part in and understood the training must be archived.
- Take care when handling the chemical agent used in the machine. Read the details on the container or contact the manufacturer for measures if:
    - if the agent comes into contact with the operator's eyes or skin or if the vapors are breathed in, etc.
    - about storing the detergent and disposing of empty containers.
- Never use the flusher-disinfector if you are not sure how to operate it.
- The machine must be kept clean if it is to work properly.
- The electric power must be switched off before the machine cabinet is opened. (The machine cabinet contains electrical components).
- Make sure that there is always detergent in the bottles. This is important both for the operation of the machine and for keeping the washing chamber free from staining.
- Always use the equipment in accordance with the local regulations.
- Always connect the equipment via an RCD (residual current device).
- Always use a grounded power supply for the flusher-disinfector.
- If the items have not cooled down after cleaning, be sure to handle them with care, to avoid burns.

- Before starting, check the waste outlet at the bottom of the flushing chamber for blockages. This will ensure that the machine works properly.
- Do not place items that are sensitive to heat or moisture on top of the flusher-disinfector.
- Spare parts must only be obtained from Arjo's sales companies.

1.2 The machine must be assembled and installed:



WARNING!
To avoid the risk of back injury, this equipment should be assembled and installed by at least two people.

- by qualified personnel.
- in accordance with current local regulations and rules.
- for indoor installation only.
- not to be installed in wet locations.

1.3 Isolator switch

The machine must always be equipped with a separate isolator switch in the feed power supply. The isolator switch must be easily accessible on a wall close to the machine. The external electrical isolator switch must be marked "I" and "O" to identify the position of the switch.

1.4 In an emergency

- Switch off the main switch.
- Close shutoff valves in the water and (where present) steam supply lines.

1.5 Product liability

CE marking indicating conformity with European Community harmonised legislation.

Any modification or incorrect use of the equipment without the approval of Arjo negates Arjo's product liability.

CE
2797

CE marking indicating conformity with European Community harmonised legislation
Figures indicate Notified Body supervision.

1.6 Attention symbols

Some of the warnings, instructions and advice in this manual require extra attention. The symbols and designs used are:



Risk of injuries or machine damage.

2 UNPACKING

Note!
Before installing make sure the flusher-disinfector has not been damaged in transit.

The flusher-disinfector is supplied securely bolted to a pallet. Remove the packaging. Remove the bolts securing the flusher disinfector to the pallet. The following items must accompany the flusher-disinfector when it is delivered:

If the machine is ordered to be wall-mounted:

- 1 wall bracket and 2 legs

If the machine is ordered for free-standing installation:

- 4 legs
- One folder containing documentation

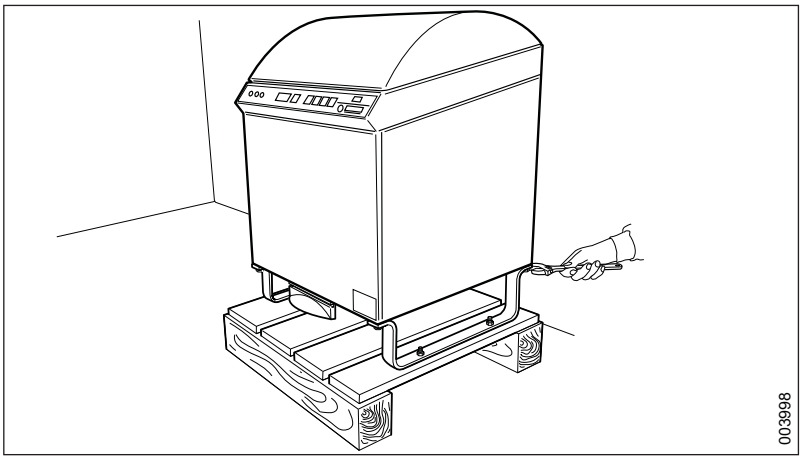


Figure 1. Wall-mounted machine

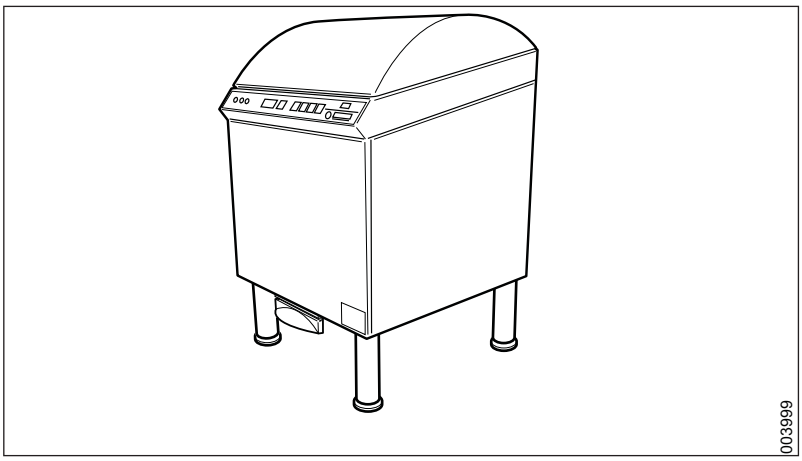


Figure 2. Freestanding machine

3 INSTALLATION

3.1 The machine must be assembled and installed:



WARNING!
To avoid the risk of back injury, this equipment should be assembled and installed by at least two people.

- by qualified personnel.
- in accordance with current local regulations and rules.
- for indoor installation only.
- not to be installed in wet locations.

3.2 Freestanding

Carry out the installation in the following order:

1. Put the machine in place using a pallet truck.
2. Remove the transport protector that secures the flusher-disinfector to the pallet. Attach the legs.
3. Lift the machine from the pallet. In order to avoid injury, always lift the machine with one person on each side.
4. Connect the drainage connector.
5. Connect the water supplies.
6. Carry out the electrical installation.

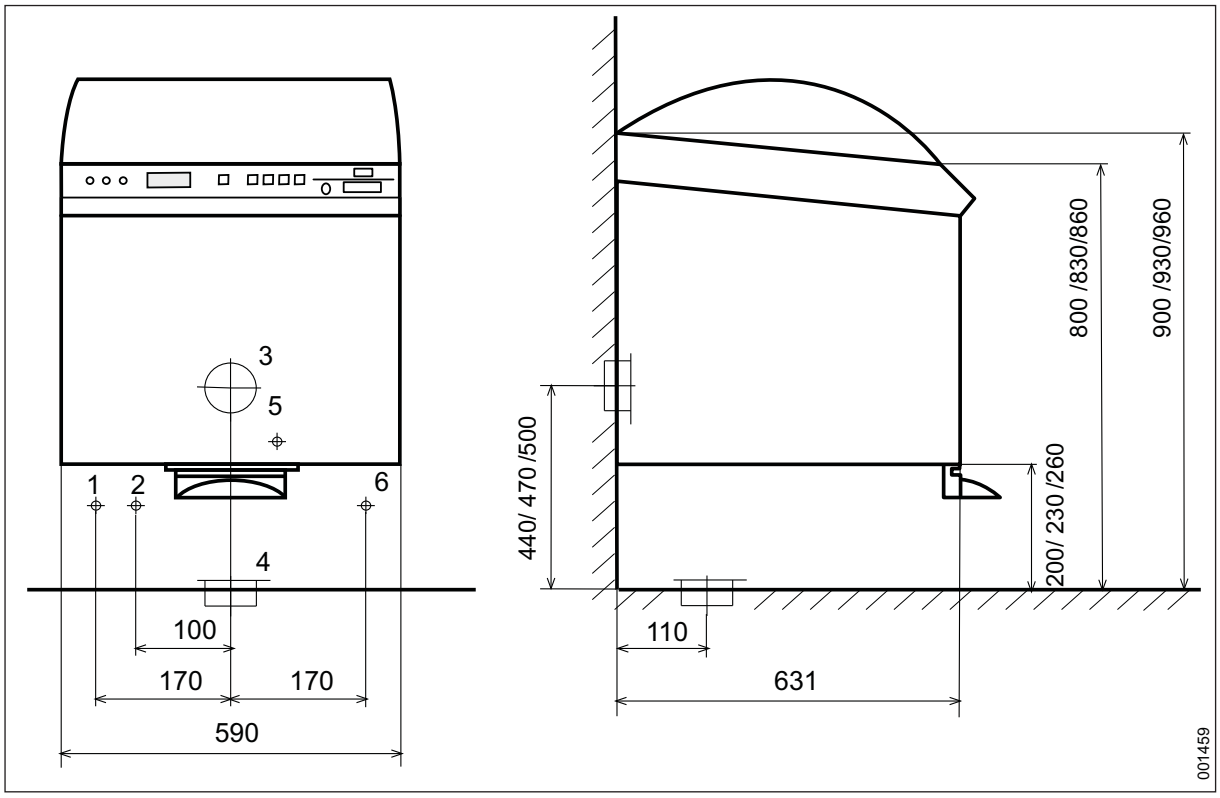


Figure 3. Installation of freestanding machine

1. Hot water connection
2. Cold water connection
3. Drainage connection, P, wall ø110/90 mm
4. Drainage connection, S, floor ø110/90 mm
5. Electrical connection
6. External steam 1/2"

3.3 Wall-mounted

Carry out the installation in the following order:

1. Drill the holes for the wall bracket, see illustration below:
2. Install the wall bracket, using a wall fixture if the wall is too weak.

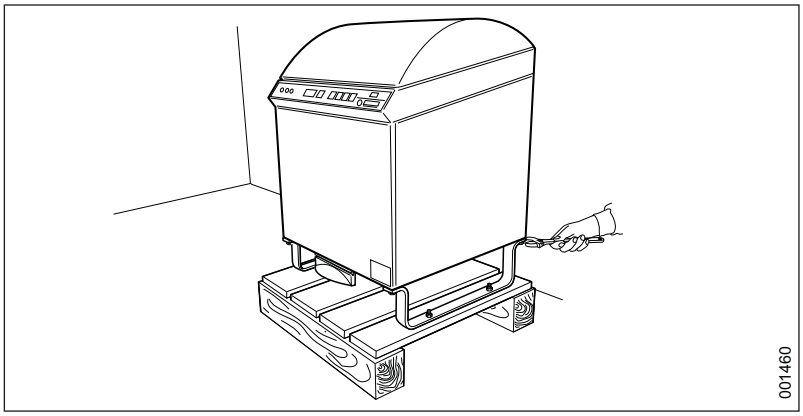


Figure 4. Installation of wall-mounted machine

3. Remove the transport protector and suspend the machine on the wall bracket. In order to avoid injury, always lift the machine with one person on each side.
4. Connect the drainage connector.
5. Connect the water supplies.
6. Carry out the electrical installation.

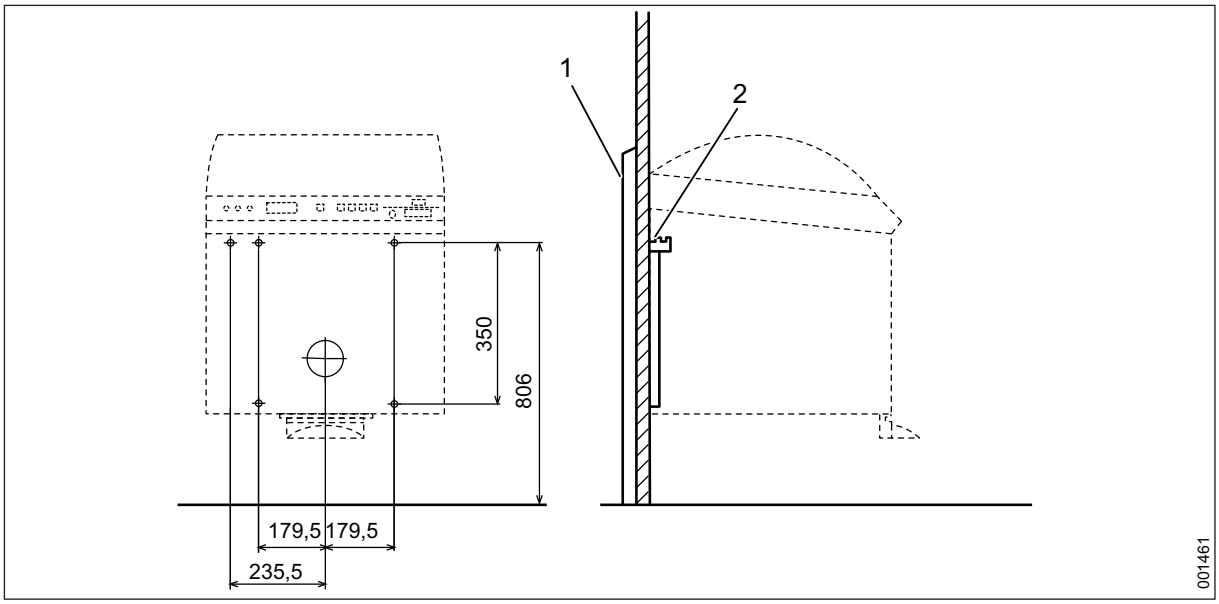


Figure 5. Hole pattern for wall bracket

1. Wall fixture
2. Wall bracket

3.4 Installation of detergent cover

Mount the detergent shelf in the same holes as the support legs. The shelf can be installed on the right or left side of the machine. The empty container alarm is pulled out from under the machine, through the hole in the shelf, up to the detergent container (see illustration). A lockable detergent cabinet is available as an accessory.

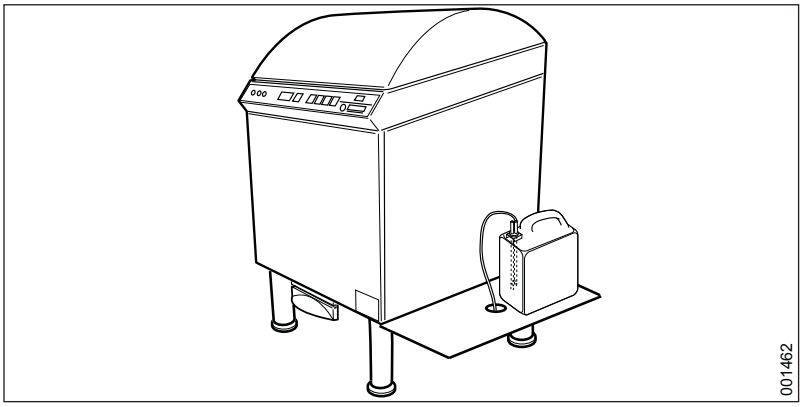


Figure 6. Detergent shelf

3.5 Connecting water

Connect the water supplies. The connections must satisfy the requirements for water connection in accordance with the table below.

	Cold water Blue	**Warm water Red**
Connection	15 mm (1/2")	15 mm (1/2")
Pressure	100-800 kPa	100-800 kPa
Flow rate	20 l/min at 400 kPa pressure	20 l/min at 400 kPa pressure
Temperature	≥2°C	45–60°C

The pipes must be fitted with an approved 1/2" shutoff valve. Seal all connections with PTFE tape.

3.6 Connecting drain outlet

Connect the flusher-disinfector to the drain. The drain can be connected either towards the rear or downwards. The pipe diameter is 90 or 110 mm.

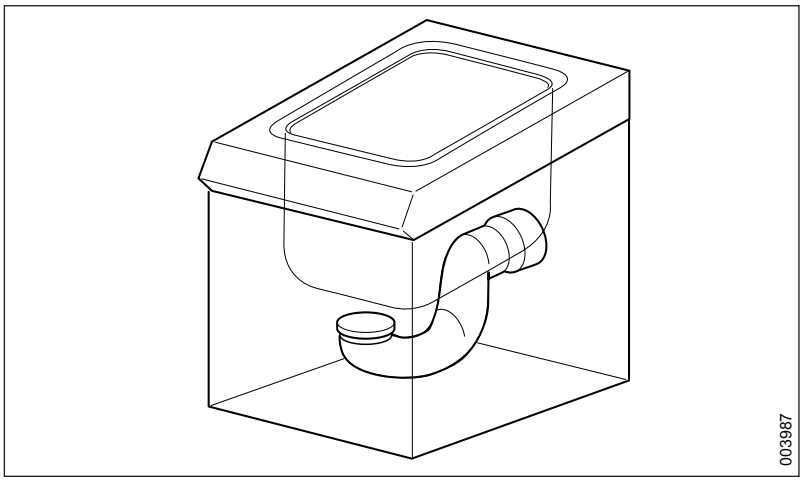


Figure 7. Drainage connection P in wall

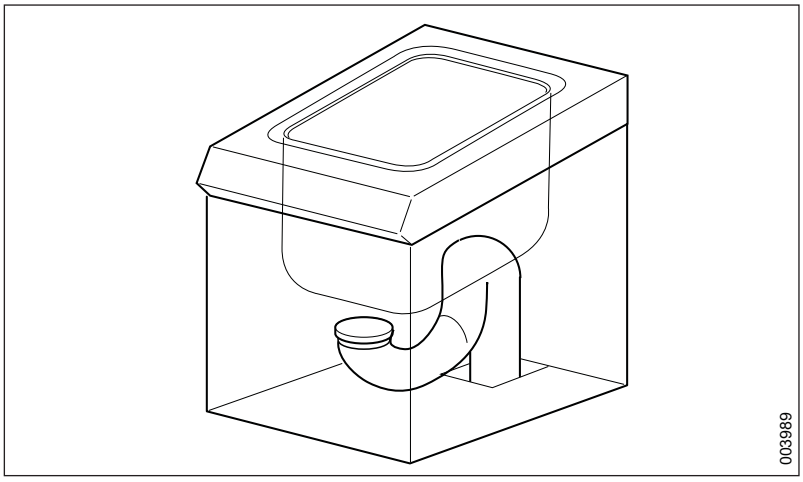


Figure 8. Drainage connection S in floor

3.7 Connecting electric power

Carry out the electrical installation as follows:

- Install the machine in accordance with installation category CAT II.
- Connect the machine to a separate isolator switch approved to local standards, which must be mounted on the wall close to the machine.
- Connect to the protective grounding and to the supply voltage stated on the type plate. Check that the connection has suitable overcurrent protection. The correct fuse rating is stated on the type plate.
- All cables must be classified for at least 90°C.

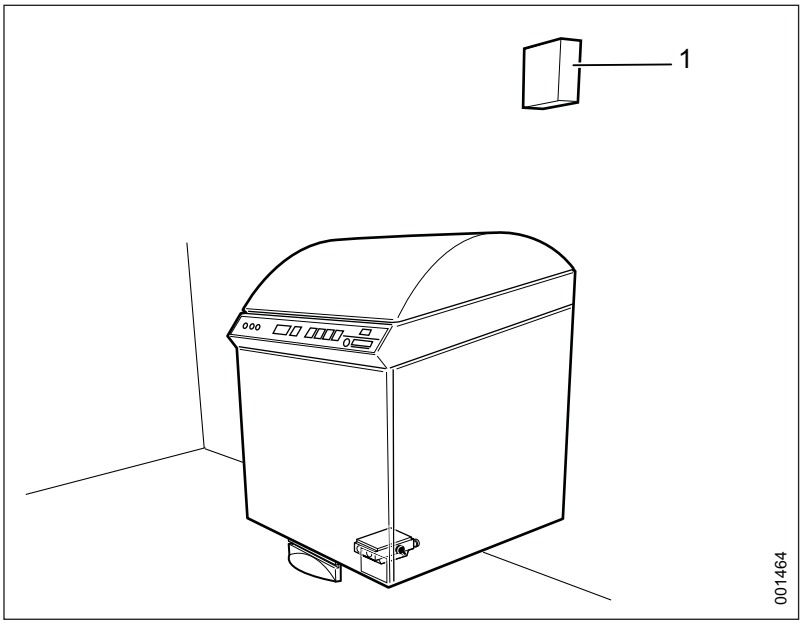


Figure 9. Safety switch (1)

3.7.1 Connection diagram

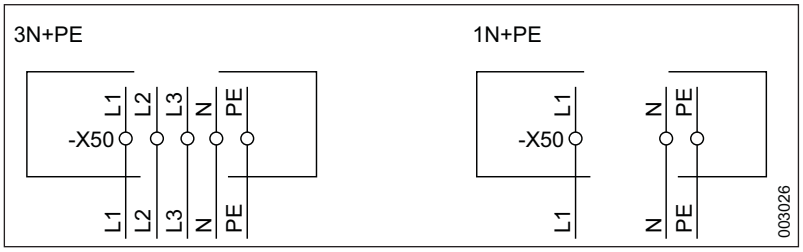


Figure 10. Electrical connection

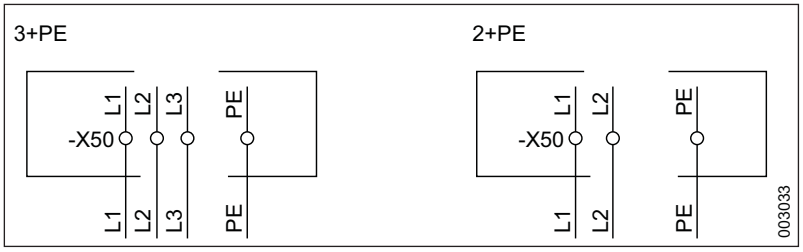


Figure 11. Electrical connection

3.7.2 Coupling alternative

Voltage	Connection	Frequency	Fuse	Power requirement
415 V	3N+PE (TN)	60 Hz	1 × 10 A	5.3 kW
415 V	3N+PE (TN)	50 Hz	1 × 10 A	5.3 kW
400 V	3N+PE (TN)	60 Hz	3 × 10 A	5.71 kW
400 V	3N+PE (TN)	50 Hz	3 × 10 A	5.51 kW
380 V	3N+PE (TN)	60 Hz	3 × 10 A	5.71 kW
380 V	3N+PE (TN)	50 Hz	3 × 10 A	5.51 kW
240 V	3+PE (TN)	60 Hz	3 × 15 A	5.17 kW
240 V	2+PE (TN)	60 Hz	2 × 20 A	4.35 kW
240 V	2+PE (TN)	60 Hz	2 × 10 A	1.36 kW
240 V	1N+PE (TN)	50 Hz	1 × 20 A	4.35 kW
230 V	3+PE (TN)	60 Hz	3 × 16 A	5.71 kW
230 V	3+PE (TN)	50 Hz	3 × 16 A	5.51 kW
230 V	1N+PE (TN)	60 Hz	1 × 20 A	4.35 kW
230 V	1N+PE (TN)	50 Hz	1 × 20 A	4.35 kW
230 V	1N+PE (TN)	60 Hz	1 × 10 A	1.36 kW
230 V	1N+PE (TN)	50 Hz	1 × 10 A	1.16 kW
220 V	1N+PE (TN)	60 Hz	1 × 20 A	4.35 kW
220 V	1N+PE (TN)	50 Hz	1 × 20 A	4.35 kW
208 V	3+PE (TN)	60 Hz	3 × 20 A	5.71 kW
208 V	2+PE (TN)	60 Hz	2 × 22 A	4.35 kW
208 V	2+PE (TN)	60 Hz	2 × 10 A	1.36 kW
200 V	3+PE (TN)	60 Hz	3 × 20 A	5.71 kW
200 V	3+PE (TN)	50 Hz	3 × 16 A	5.51 kW
200 V	2+PE (TN)	60 Hz	2 × 25 A	4.35 kW
200 V	2+PE (TN)	50 Hz	2 × 25 A	4.35 kW
200 V	2+PE (TN)	60 Hz	2 × 10 A	1.36 kW
200 V	2+PE (TN)	50 Hz	2 × 10 A	1.16 kW

Operates within MAINS supply voltage fluctuations up to ±10% of the nominal voltage.

3.8 Installation inspection

3.8.1 When the work is complete, check that

- all parts have been installed according to the installation manual.
- all screws have been properly tightened.
- there are no sharp edges on any parts that may come into contact with people.
- all hoses, pipes and connections are intact and free from defects.
- all the functions of the machine are working properly. Adjust if necessary.

Carry out an Installation Qualification, an Operating Qualification, and a Performance Qualification according to ISO 15883 before putting the machine into service.

Incorrect use may result in damage to objects and personal injury.

3.8.2 Function check



WARNING!
Conduct a ground continuity test before the function check and document the result.

- Check that the flusher-disinfector is connected to the correct supply voltage according to the type plate.
- Open the water valves and turn on the main switch In the display, Ready Select program should be displayed after approx. 20 sec.
- If the machine has detergent dosing: Press and check that the light in the button lights up.
- Check that the incoming hot water has the right temperature. The temperature should be between 45° and 60°C.

- Start the Intensive program with an empty machine (select the program on the panel, start with the foot pedal) and check that:
    - yellow light on with ↻
    - - the temperature rises continuously until the cooling phase begins
    - - the heating-up time does not exceed about 10 minutes
    - the temperature reaches 90°C
    - green lamp on ⏻ lights up and the display shows Program ready.

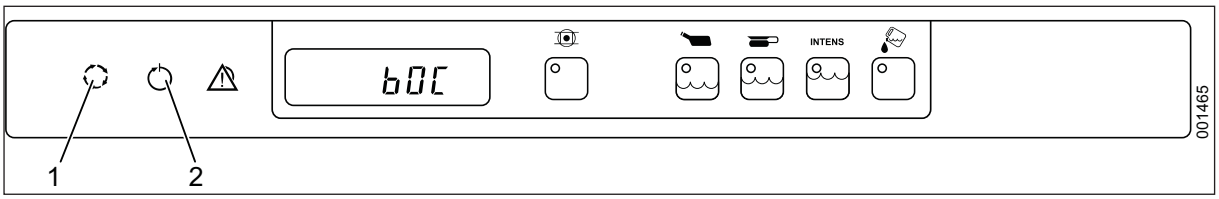


Figure 12. Control panel during function check

1. Process running
2. Process complete

If the machine has a system for cleaning and/or descaling agent:

- Measure the agent in a measuring beaker.

Note!
Make sure that the suction hose is full of descaler/detergent. The dosing pumps can be operated separately in the service program to fill the hoses with descaler/detergent.

Start a normal program and check that the flusher-disinfector consumes the correct amount. For detergent, the amount per program is usually about 20 ml, and for descaler it is about 1.5 - 4.0 ml (follow the supplier's recommendations).

If the machine has a rim flushing program:

- Press the button and check that the rim flushing program is running.

Note!
The rim flushing program cannot be started with the foot pedal.

Check that there are no water leaks. If necessary, tighten connections and pipe couplings.

4 TECHNICAL DATA S-607/S-608

4.1 Dimensions

Weight	85	kg
Width	590	mm
Depth	660	mm
Height	1000-1060	mm

4.2 Protection class

Pollution Degree	2
Overvoltage category	II
Protection class	IP 22 (standard) IP24 (option)
Max altitude*	2000m above sea level

* Maximum height above sea level to use the machine.

4.3 Environmental requirements

Air humidity	< 80% at 31°C (87°F)
Room temperature	5-40°C (41 – 104°F)

4.4 Connections

Water consumption (without cooling*)		
Economy program	18	l/process
Normal program	29	l/process
Intensive program	36	l/process

* Cooling approx. 3 l.

Cold Water		
Connection	15 (1/2")	mm
Press	100-800	kPa
Flow rate	20	l/min

Hot Water		
Temperature	45-60°C	
Connection	15 (1/2")	mm
Press	100-800	kPa
Flow rate	20	l/min

Steam		
Connection	15 (1/2")	mm
Press	30-300	kPa
Flow rate	0,3	kg/process

Drain		
Connection	ø 110/90	mm
Max outside temperature	40	°C
Sound level	60	dB(A)

4.5 Accessories

Description	Article number
Combination valve (shut-off valve/non-return valve/filter) 1 pair	4996319-00
Isolator switch (safety switch)	4991969-00
P Trap (ø 90/110 mm)	5005880-00
S Trap (ø 90/110 mm)	5005879-00
P Trap (ø 90/90 mm)	5001531-00
S Trap (ø 90/90 mm)	5001532-00
Coarse filter	5007997-00
Insert tray	4999610-00
Screen, domed	4993242-00
Detergent cabinet	5008778-00
Rear panel	5024171-00
Wall bracket	5001490-00
Leg connector 200-260 mm	5004730-00
Leg connector 250-310 mm	4998301-00
Instrument holder (spiral spring)	4991116-00
Adapter for three urine bottles	4999571-00
Adapter for suction bottle without rotator	4999999-00
Injector pipe with spring	5033188-00
Adapter for 0.7 l, 1.2 l Egnell + 2 l Mediada	5000772-00
Bottom insert	5001139-00
Adapter for 0.25-0.5 l Medela FMS	5000516-00

4.5.1 Joining plastic hose

Note!
When connecting plastic hose, this coupling and inserts may be purchased to join the hose to give the desired length.

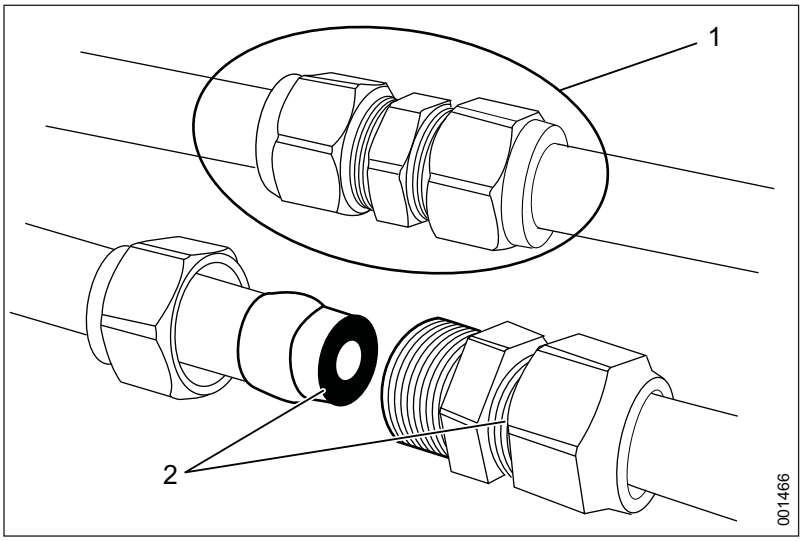


Figure 13. Connection and inserts for joining plastic hoses

1. 5025201-00 Straight compression coupling
2. 5025200-00 Insert x2

5 WATER QUALITY



WARNING!
It is the customer's responsibility to supply the washer-disinfector with water of the right quality.

The quality of the water used in all stages of cleaning is important for good cleaning results.

5.1 Requirements

The water used in each stage must be compatible with:

- The material that the machine is made of.
- The chemicals used in the process.
- Process requirements for the various stages of the process

5.2 Main factors

The main factors for good water quality are:

Hardness: High hardness will cause limescale deposits in the washer-disinfector, leading to poor cleaning results.

Ionic contaminants: A high concentration of ionic contaminants may cause corrosion and pitting on stainless steel. Heavy metals such as iron, manganese or copper cause instruments to tarnish.

Microbial contaminants: Goods to be washed are treated for microorganisms and their residual products, which may cause fever-like symptoms if they get into the human body. Use water that does not increase the biological load.

Sanitary chemicals: High concentrations of, and high exposure to, sanitary chemicals may cause corrosion and pitting on stainless steel.

5.3 Recommendation

- Arjo recommends that water used in the pre-rinsing, washing and final rinsing phases should be of drinking quality in accordance with the guidelines.
- Recommended water quality is drinking water with max 5°dH.
- Detailed information about acceptable water quality can be found in "Guidelines for Drinking Water Quality," published by WHO.

5.4 Local standard

Follow local standards if they are stricter than Arjo's recommendations. Especially when treated water is used for the final washing/disinfection phase.

Additional advice should also be obtained from the manufacturers of chemical and medical equipment.

5.5 Local standard, typical specification

A typical specification for treated water is:

pH	5.5 to 8
Conductivity	<30 µs.cm-1
TDS	<40 mg/l
Maximum hardness	<50 mg/l
Chlorine	<10 mg/l
Heavy metals	<10 mg/l
Phosphates	<0.2 mg/l as P2O5
Silicates	<0.2 mg/l as SiO2
Endotoxins	<0.25 EU/ml
Total number of micro-organisms	<100 per 100 ml

6 END OF LIFE DISPOSAL

Equipment that has electrical and electronic components should be disassembled and recycled per Waste of Electrical and Electronic Equipment (WEEE) or in accordance with local or national regulation.

Disinfection liquids – if you have extra liquid, it's safe to pour it down the drain with running water. These products are water soluble and usually mixed with water when used for cleaning, your municipality will treat these cleaners the same way they would if you used them for cleaning.

The packaging containers should be recycled according to the national or local regulations.

WARNING!
The product may be contaminated and has to be disinfected before recycling.

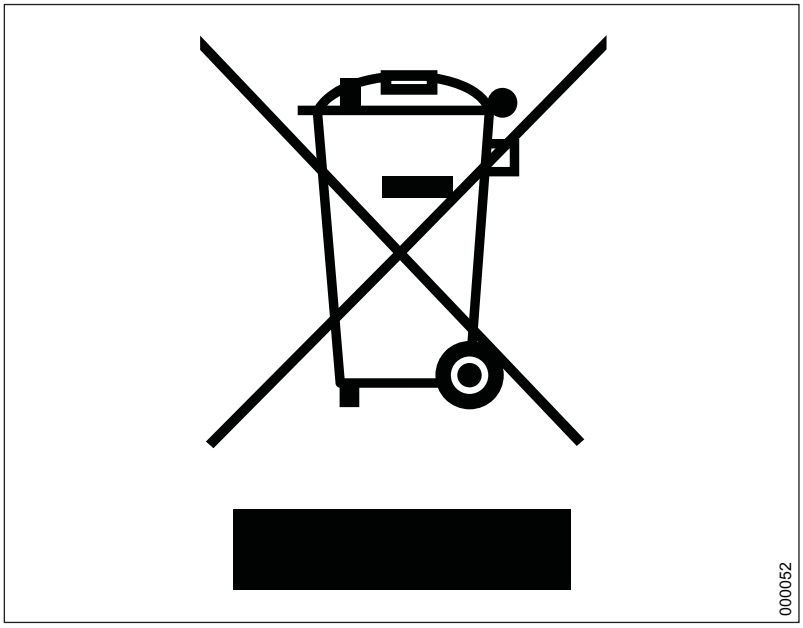


Figure 14. Recycling symbol

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