

**ENG** Portable Oral Irrigator AQUAJET LD-A3

Instruction Manual

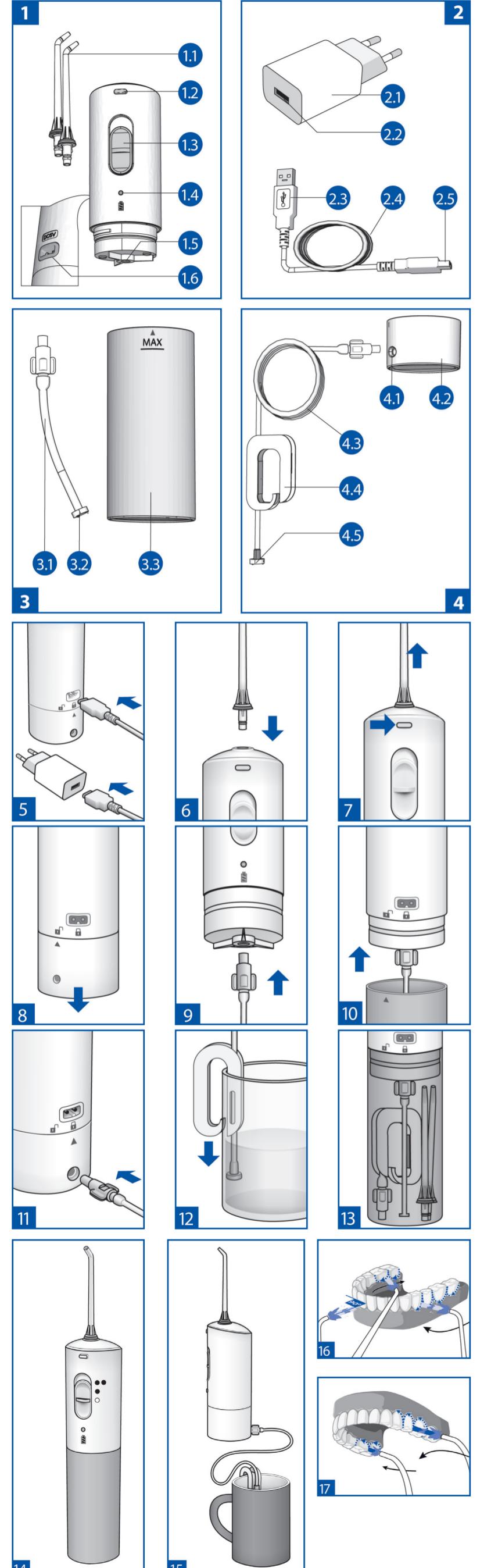
**POL** Irygator jamy ustnej AQUAJET LD-A3

Instrukcja obsługi

**HUN** Szájúhany AQUAJET LD-A3

Használati utasítás

## FIGURES / ILUSTRACJE / RAJZOK

**ENG**

BEFORE USING THE DEVICE, READ THIS OPERATION MANUAL CAREFULLY AND SAVE IT FOR FUTURE USE.

Manual is described with the following terms:

⚠ Warning Requirements, non-compliance with which may lead to injuries or property damage.

⚠ Caution Forbidden actions and device handling methods.

⚠ Note! Mandatory actions and instructions, which should be strictly followed to ensure safe operation.

## MAIN PARTS

figure №	Name	figure №	Name
1.1	Nozzle (2 pcs, standard LD-SA01 nozzle)	2.5	Power cord plug
1.2	Nozzle disconnect button	3.1	Short tube
1.3	Mode switch	3.2	Short tube filter
1.4	Indicator	3.3	Container
1.5	Tube jack	4.1	Connector jack for long tube
1.6	Power supply jack	4.2	Connector
2.1	Power supply	4.3	Long tube
2.2	Power supply USB-port	4.4	Long tube holder
2.3	USB-plug for power cord	4.5	Long tube filter
2.4	Power cord		

⚠ The main body and nozzle are mainly made from ABS, the container is made from PP. The nozzle has passed the biocompatibility test. People who are sensitive to such materials should take care when using the device.

## AQUAJET AND ORAL HEALTH

Spaces between the teeth are the places where bacteria accumulates and multiplies. Bacteria lives in the soft dental plaque; and produces the acid which destroys tooth's enamel and leads to gingival mucosa inflammation.

Crowns, prosthetic dentures, and dental appliances are difficult to clean regularly, which also causes the accumulation of pathogenic bacteria between crown edges and the gingival crevice. This leads to dental calculus formation and oral mucosal inflammation.

When it comes to tooth care, most people usually concentrate on the tooth "whiteness" and do not pay attention to healthy gum condition. Meanwhile, if interdental spaces and gingival crevices (areas between the tooth neck and gum) are not cleaned regularly, it leads to gradual growth of dental calculus, gingival inflammation, and persistent foul breath. As the inflammatory process develops, gingival tissues gradually get detach from the tooth, which allows bacteria to penetrate deeply, even reaching the jaw-bones, which is also subject to inflammatory destruction.

Due to bone tissue reduction, gingival decay also starts: visible tooth elongation appears, and the smile looks less aesthetic. Reduction of tooth embracement by the gum and also the weakening of bone tissue support lead to tooth loss. AQUAJET portable oral irrigator is necessary for treatment and prevention of such diseases.

The special nozzle structure allows the water-jet to reach areas inaccessible using a simple toothbrush or dental floss. Powerful pulsating water head washes out food debris and soft dental plaque, preventing the formation of hidden decay cavity, massages gums and the whole oral cavity, promoting the blood supply. This helps to prevent periodontal disease, inflammatory periodontal processes, and tooth decay.

## INTENDED USE

AQUAJET Portable oral irrigator is intended for treatment and prevention of periodontal diseases, gingivitis, periodontitis; for medical irrigation and for the massage of the oral cavity, and care for dental appliances (including crowns, implants, prosthetic dentures, occlusion correction devices) and interdental spaces.

⚠ AQUAJET usage for oral hygiene cannot substitute the toothbrush completely. Use AQUAJET after meals to wash out food debris and to provide deep gingival massage. Do not forget to clean your teeth with a toothbrush after using AQUAJET.

According to the periodontal disease studies, early stages of dental calculus formations are often ignored because of lack of overt signs. Such diseases usually progress to more severe stages. Gingival bleeding after AQUAJET usage is a symptom of periodontal disease. However, prolonged AQUAJET usage relieves the symptom and allows to restore a healthy gum condition. Consult your dentist if the bleeding continues for more than two weeks.

Potential consumers: all people older than 2 years.

Functional features: using a powerful pulsating water-jet, the device removes food debris from interdental spaces and other difficult areas in the oral cavity, massages gums, improves the blood flow, and prevents gum bleeding. It provides maximum care for prosthetic dentures and crowns, prevents the development of pathogenic bacteria and inflammatory processes in places of prosthetic denture and crown interface with the oral mucosa, which is not achieved by other common means. It prevents the formation of dental calculus, gingivitis, and many other periodontal diseases. Compact size and power supply from a self-contained battery allow the usage of the irrigator while traveling. The battery is charged from the power supply (PS) or another source equipped with a USB-port and corresponding to the characteristics defined in the section "Technical characteristics".

## Use of AQUAJET Irrigator by Children

⚠ Device usage by a child is allowed only under the surveillance of an adult who has thoroughly read this Operation Manual.

Irrigator usage by children decreases the risk of dental diseases, facilitates oral care, and shortens oral hygiene time significantly in case of brace wearing. Children also often lack patience and diligence for thorough tooth cleaning, while the irrigator usage provides the best oral hygiene possible. Children may start using oral irrigator when they can use the toothbrush independently. Though correct usage of the oral irrigator cannot traumatize the oral cavity, pay a visit to the pediatric dentist before using the irrigator.

⚠ Device usage by a child is allowed only under the surveillance of an adult who has thoroughly read this Operation Manual. Infants and children without supervision should stay away from the device, as they might swallow the small parts of the device. Supervise children and infants carefully while the device is working.

## SAFETY MEASURES

For safe device usage, carefully read this Operation Manual. Non-compliance with the section requirements may lead to hazards of various grades for the user and people around the user.

When using electric appliances, especially in the presence of children, always follow the general precautions mentioned below.

⚠ Do not handle the plug with wet hands.

Before charging the device, check that the power supply cord is not damaged. This device is equipped with a built-in battery. Do not throw the device into the fire, do not heat it, do not use or leave it in rooms with high temperature.

⚠ Do not place the device into the water.

Do not use it when bathing.

Do not immerse the power supply into the water and do not wash it with water. The power supply cord should not touch hot or heating surfaces.

If the device is not working, do not try to repair it. Contact authorized repair services.

Do not leave the switch-on device unattended.

Use only the appliances which are intended for usage with this device and are described in this Operation Manual.

Do not use accessories which are not recommended by the manufacturer.

Do not insert foreign objects into the device holes.

Use the device only for the oral care. Water head applied to eyes, nose, ears, or throat may lead to injuries.

Do not use water with temperature exceeding 40°C for the device.

Do not service and maintain the device while it is being used by the patient.

Keep it away from the pets and pests to avoid the contamination by them.

This device is not used with HF (High Frequency) surgical equipment at the same time.

To avoid problems with the device, do not use the device near strong electromagnetic fields, radiated interference signal or electrical fast transient/burst signal. For example: magnets, radio transmitters, microwave ovens. Portable RF communications equipment(including peripherals such as antenna cables and external antennas) should be used no closer than 30cm to any part of the dental oral irrigator, including cables specified by the manufacturer.

⚠ When disconnecting the power supply from the outlet, always hold the plug, not the cord. After using the device, empty the container with leftover water and turn on the device for 2-3 sec. for complete drying.

## Risks of Usage

⚠ This device is not intended for usage by people with limited physical, sensory, or mental abilities, or persons without required knowledge and experience. The device usage by such people is allowed only under the surveillance of the person responsible for their safety, with him providing clear instructions on the device operation. Make sure that children do not play with the device.

Contraindications: patients with periodontal abscesses and oral ulcers, persons who cannot operate the device independently. Expected side effects: no expected side effects detected.

Information on Installation and Room Requirements

Do not use the device in bathtubs, saunas, shower cabinets, and in rooms with aerosol dispersion. Do not leave, store or use the device in places where it can drop into water (bathroom, closet, etc.).

Do not leave the device or its parts where they will be exposed to extreme temperatures or changes in humidity. For example, do not leave the device in a vehicle during warm or hot months, or where it will be exposed to direct sunlight.

Requirements to One's Qualification For Commissioning And Operation

Adults, who have read the Operation Manual.

## BATTERY CHARGING

The device uses a battery intended for multiple charging and prolonged use. Before the first device use, the battery should be charged for 4 hours.

During charging, the main unit slightly heats, but it is not a defect.

Charge the battery at room temperature within the 15-35°C range. When charging the battery at a lower temperature, the device operating time may decrease, and at temperatures below 0°C charging may become impossible.

⚠ The manufacturer recommends using the PS (power supply) LD-N064 (included). Also, the included PS cord may be used for charge the device from any PS with a USB-type A (type A).

Recommended parameters are described in the "Technical characteristics" section.

To charge the battery, insert one end of the PS cord 2.5 into the port on the device back-panel 1.6, and the other end of the cord 2.1 into the PS USB-port 2.2. Insert the PS plug into the wall outlet (Fig. 5). The charging process is indicated by the blue indicator on the device 1.4. When the battery is fully charged, the indicator turns to green.

⚠ For electricity safety, the device cannot operate and charge the battery simultaneously.

⚠ The battery is charged fully approximately within 4 hours.

At full charge, the device may operate approximately 20 minutes on maximum power.

Low battery status is indicated by a yellow light.

## OPERATION PROCEDURE

⚠ The use of alcohol-containing liquids, liquids with suspensions, oily fluids, and other fluids not intended for usage in the irrigator may lead to irrigator failure!

⚠ The manufacturer recommends using filtered tap water for irrigation.

Internal parts of the new device may contain residues of distilled water, which was used for the device testing. This is not a defect and it is completely safe.

## Nozzle Connection/Disconnection

The set includes 2 individual nozzles with colored rims. Choose the individual nozzle of a certain color for each family member. Use only your nozzle. Insert the nozzle into the device until it engages, so that the nozzle's guide aligns with the groove on the irrigator handle (Fig. 6). To disconnect the nozzle, press the disconnection button and pull the nozzle, holding it in the nozzle handle (Fig. 7).

Recommendations for safe nozzle disconnection:

1. If the nozzle disconnects from the irrigator poorly or slides in your hand because of water, use a dry cloth. Wrap the nozzle with a non-rough dry cloth and repeat the disconnection procedure.

2. When disconnecting the nozzle from the irrigator, pull it WITHOUT rotation. Nozzle rotation may lead to its damage.

Additional nozzles may be purchased separately. Purchase only AQUAJET LD-SA01, AQUAJET LD-SA02 or AQUAJET LD-SA05 nozzles for this device.

The irrigator may be used with an included container or another water vessel.

## Irrigator Use with the Included Container (Fig. 14)

Remove the connector 4.2. Do this, turn it clockwise, so that the indicator ▲ is in the "open" position 4.1 and pull it down (Fig. 8). Insert the short tube plug 3.1 into the jack in the lower part of the device 1.5 (Fig. 9). Fill the container with warm water to the MAX level. Connect the container to the device (Fig. 10) and turn it counter-clockwise, so that the indicator ▲ is in the "closed" position 4.1. The device is ready for use. Completely filled container lasts for 40 seconds of operation.

⚠ Do not use the device without water.

⚠ If the device is tilted too severely when using the container, the tube filter 3.2 may escape the water, and water may stop.

## Double Aqua Flow system – Irrigator Use with Other Vessels (Fig. 15)

Double Aqua Flow system (DAF) allows usage of any available storage basins or standard container.

If the container volume is not sufficient for you, the device may be used with other water vessels, e.g. a simple glass. To do this, insert the long tube plug into the jack 4.1 on the connector back side 4.2, if the connector is attached to the device (Fig. 11), or into the jack 1.5 in the lower part of the device, if the connector is disconnected from the device (Fig. 9). Unwind the long tube 3.1 and put the tube holder 4.3 onto the vessel with warm water, so that the tube filter 4.5 is just off the vessel's bottom (Fig. 12). The device is ready for use. Continuous operation time should not exceed 10 min.

⚠ During the first use, pour warm water into the container, put the mode switch into position ▲ 4.1, so that the water fills all the device. The device will be ready for the first use when the water in the container is spent completely.

⚠ Check that the temperature of the fluid in the container does not exceed 40°C. Do not use hot fluids, as the oral mucosa is very sensitive and may be damaged by a hot solution.

Use

Bend over the sink. Bring the nozzle tip to the teeth or gums. Keep your mouth slightly opened, so that the water can pour into the sink. Direct the nozzle perpendicularly to further teeth of the lower dental arch. Turn on the device, switching the mode switch 1.5 to position ▲ 4.1 (average pressure) or position ▲ 4.2 (strong pressure). Slowly and carefully, clean the interdental space for 4-5 sec., holding the jet near your gums. Then swipe the jet along the gum line near the tooth base to the next interdental space. Repeat the same movements as for the first interdental space (Fig. 16: dashed arrow indicates the place of water jet application, solid arrow – the nozzle movement direction).

⚠ You can stop the jet at any time, switching the mode switch into position ▲ 4.0 - Off.

⚠ Do not direct the jet directly into the gum pocket; try to hold the jet perpendicularly to the tooth line.

Perform the same procedure for all interdental spaces from external and internal sides of the lower tooth arch. Then repeat the procedure for external and internal sides of the upper tooth arch. (Fig. 17)

If artificial orthopedic structures are present in the oral cavity, their places of contact with gums, teeth, or other dental appliances should be rinsed with a jet more thoroughly. It is recommended to consult the dentist on the features of existing rinsing channels in these structures.

⚠ After 10 minutes of continuous operation, the device automatically turns off, and the green indicator starts flashing on and off. Do not use the device for at least 10 minutes to ensure cooling down of internal mechanisms.

⚠ Always empty the water from the container after usage. This prevents bacteria from multiplying.

Switch off the device by switching the mode switch 1.5 into the position ▲ 4.0, remove the nozzle, the container, and the tube. Rinse everything under warm tap water and wipe them with a dry cloth. For convenient storage and transportation, put the accessories into the included container and connect it to the main unit (Fig. 13).

## BATTERY USE

Description: the device uses a rechargeable battery (RB) intended for prolonged use.

The RB operation period: 3 years in case of correct use.

Recommendations: during operation, discharge the batteries completely to prevent battery memory effect, which shortens the operating time when fully charged. It is recommended to leave batteries charged at 70-80% for long-term storage.

RB maintenance: not required.

RB replacement: if necessary, RB replacement is performed only in authorized service centers. To access the RB, remove the mode switch, disconnect the connector, unscrew 3 screws in the lower part of the main unit (under stops), and pull out the internal part. Type and model: GP 130AAHV2B6.

WARRANTY

The purchased device is warranted for 2 years from the date of sale. Faults detected during the warranty period will be repaired free of charge by a specialized service center within 21 business days from the date of device delivery to the service center.

The costs for the defective device transportation are borne by Little Doctor Europe Sp. z o.o. (door-to-door service), except for faults that are not covered by the warranty. The party submitting the claim is responsible for the device shipment, protecting it from damage during transportation and enclose a completed warranty card (with the seller's stamp, date of sale and seller's signature) and proof of purchase (invoice or receipt). The warranty does not cover damages resulting from inadequate protection of the device during transportation. The warranty period is extended for the time the device is under repair. Post-warranty repair of the device is performed at the user's expense.

The warranty does not cover the following: consumables and accessories for individual use (tubes, nebulizers, masks, mouthpieces, etc.); products with mechanical, thermal or chemical damage, or damage caused by violations of the rules specified in the operating instructions; products with signs of modification, opening and/or repair by an unauthorized service center (by an individual); products that have been connected to recommended power supplies or used with unrecommended consumables; products that have been operated with non-recommended defects; products that are defective through no fault of the manufacturer, such as: actions of third parties, natural phenomena and natural disasters

do urządzenia, a zatrzaśnie, aby prowadnica konówka pokryła się z rowkiem na rękojeści irrigatora (rys. 6). Aby odłączyć konówkę, naciśnij przycisk zwalniający dyszy i pociągnąj konówkę, przytrzymując ją w okolicy wycięcia (rys. 7).

Zalecenia dotyczące bezpiecznego odłączania konówką:

- Jeśli dysza nie daje się łatwo odłączyć od irrigatora lub zsuną się z dloni z powodu wody, użyj suchej szmatki. Owinąć konówkę miękką suchą śliczeczką i powtórz procedurę odłączania.
- Odkręcić konówkę od irrigatora, należy ją ciągnąć BEZ obracania wokół osi. Obrót konówką może ją uszkodzić.

Dodatekowo konówka moza zakończy osobą. Należy kupować tylko konówkę AQUAJET LD-SA01, AQUAJET LD-SA02 lub AQUAJET LD-SA05 dla tego produktu.

Irrigator może być używany z pojemnikiem znajdującym się w zestawie lub z innym zbiornikiem na wodę.

#### Użycie irrigatora z pojemnikiem wchłaczym w skład zestawu (rys. 14)

Wysiąłka złącze Aby zrobić, obróć po zgubie z ruchem wskazówek zegara, aby wskaźnik

znalaź się w pozycji „otwarte” i pociągnij ją do góry (rys. 9). Należy pojemnik ciępla wodą do oznaczenia MAX. Podłączając pojemnik do urządzenia (rys. 10) i obróć go w kierunku przeciwnym do ruchu wskazówek zegara, aby wskaźnik

znalaź się w pozycji „zamknięte”

Urządzenie jest gotowe do użycia. Całkowicie napełniony pojemnik jest zużywany w ciągu 40 sekund.

Nie używać irrigatora bez płynu.

Jeśli urządzenie zostanie zbyt mocno przechylonione podczas użytkowania z pojemnikiem, to filtr rury

może się wyciągnąć, powodując zatrzymanie dopływu wody.

#### Double Aqua Flow System – Wykorzystanie irrigatora z innymi pojemnikami (rys. 15)

Double Aqua Flow (DAF) można stosować zarówno z dolgotrzymującym pojemnikiem jak i każdym innym.

Jesi pojemnikiem standardowym nie spiszą Twoich oczekiwów dopuszcza się użycie innych pojemników na wodę np. szklanki.

W tym celu należy włożyć rurkę do gniazda z której złącze jest podłączane do urządzenia (rys. 11), lub do gniazda w dolnej części urządzenia z której złącze jest odłączane od urządzenia (rys. 9). Odwróci długą rurkę i kładź uchwyt rurki na haczyku z wodą, aby filtr rurki znajdował się tuż nad niem (rys. 12). Urządzenie jest gotowe do użycia.

Czas długiej pracy nie powinien przekraczać 10 min.

Upewnij się, że temperatura cieczy w pojemniku nie przekroczy 40 °C. Należy używać gorących płynów, ponieważ

blona słusza jąmy jest bardziej wrażliwa i może zostać uszkodzona gorącym roztworem.

Podczas korzystania po raz pierwszy, wlać ciępla wodę do pojemnika, ustawiąc tryb w pozycji, aby woda wypełniła wszystkie wewnętrzne powierzchnie. Urządzenie będzie gotowe do pierwszego użycia, gdy woda w pojemniku zostanie całkowicie zużyta.

#### Użtykowanie

Pochylisz się nad zlewem. Doporządzając zakończenie konówką do zlewu lub dżusem. Trzymaj ustą lekko uchylone, aby woda spływała do zlewu. Skieruj konówkę prostodopadnie do olejnych zlewu dolnego użycienia. Włączając urządzenie, przesuwając przełącznik trybu

do położenia

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