

# OPERATING INSTRUCTIONS

GlowSolution

IONTO Ref. 8442





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## General Safety Instructions

- Before using the device for the first time, please read the Operating Instructions. Read them carefully. They contain important information on safety when putting the device into operation for the first time, using the device and maintaining the device.
- Only the manufacturer or personnel authorised by the manufacturer may open the device, unless otherwise explicitly stated in these instructions.
- Check the voltage (V) indicated on the identification plate. The voltage specified must correspond to the voltage provided by your power supply. Only then connect the device to the mains voltage.
- The device may only be operated with the original power supply unit. An unsuitable power supply unit may cause damage to the device.
- If the power cable is damaged, do not operate the device.
- The power cable must not be pinched or kinked and must not touch hot objects, such as a heater or lamp!
- If you discover that the power cable is damaged, turn the device off immediately. Disconnect it from the power supply. Contact our customer service. Do not use the device again until you receive further information from customer service.
- Never unplug the power cable from the power outlet with wet hands. To remove the power plug from the power outlet, do not pull on the power cable.
- Always unplug the device before cleaning it, reaching into the device or changing the fuse.
- If a liquid or foreign object gets inside the device, disconnect the device from the power supply immediately! Contact our customer service. Do not use the device again until you receive further information from customer service.
- Do not use the device in wet rooms. Do not cover the device with liquids or immerse it in liquids.
- The device is not intended to be used by children or by persons with reduced physical, sensory or mental abilities or lack of experience or knowledge.
- In ultrasonic mode, the device emits ultrasonic waves. Take this into consideration in your environment.
- During GlowPolish, do not exceed the application times specified. During GlowPermeation, never treat one area for longer periods of time, otherwise tissue damage cannot be ruled out.
- The treatment fluids, disinfectant fluid and disposable attachments for Treatment Step 1 GlowPurify and Treatment Step 2 GlowPolish may only be used once.
- During facial treatment with the GlowSolution, the customer's ears must be adequately covered to protect them from any liquid entering the ears.
- In all treatments, always make sure that the parameter settings are suitable.

- Before transporting the device, the waste water container must be emptied, the treatment attachments and inserts removed and stored in the drawer and the liquid supply bottles removed and sealed.

## Other Instructions

- The Operating Instructions are intended to ensure safe use of the device. Therefore, always keep the Operating Instructions for future reference. Store them near the device and ensure that they are accessible to all users. In addition, the Operating Instructions can be called up digitally on the device display.
- The product and the instructions are intended for trained, expert beauticians.
- These Instructions may cover the operation of functions that are only available with optional equipment.
- If the device has been transported, give it time to adjust to the ambient temperature before using it.
- Only use original accessories.
- After you have unpacked the device, check that the contents are complete and undamaged using the list of product contents. If in doubt, please contact our customer service.
- Do not cover the device or install the device in any cubicles. If ventilation slots are present, do not cover them.
- If you do not use the device for its intended purpose or use it in a manner other than described in the Operating Instructions, any warranty and guarantee of the manufacturer will be voided.
- Do not carry out any repairs or maintenance on the device that are not explicitly described in these Operating Instructions.
- The ultrasonic transducer is equipped with a sensitive ceramic piezo oscillator. Avoid blows to the ultrasonic surface and take special care to ensure that the transducer does not fall to the floor! Strong vibrations or shocks can change its physical properties!
- If you want to switch the device off and on again, wait at least 3 seconds before switching it on again.

# Meaning of Instructions and Symbols

## Warnings

### ⚠ DANGER

This is a warning that indicates an imminent danger that will result in death or serious injury.

- *This is a text that provides a remedy.*

### ⚠ WARNING

This is a warning that indicates a potential danger that can result in death or serious injury.

- *This is a text that provides a remedy.*

### ⚠ CAUTION

This is a warning that indicates a potential danger that can result in slight or minor injuries.

- *This is a text that provides a remedy.*

## Instructions

### PLEASE NOTE

This is an instruction that indicates possible damage to the product.

### ⓘ INFO

This is an information text that contains helpful information.

## Arrow types



This is a movement arrow. It indicates independent movement of the product.



This is an action arrow. It indicates a movement or direction of movement that you should perform.

# Field of Application

## 1. What is the GlowSolution?

The GlowSolution combines 4 sophisticated, professional technologies that build on each other to create an effective, high-performance treatment for all types of demanding skin.

- I.**      GlowPurify      – Deep cleansing
- II.**     GlowPolish      – Refinement & clarification
- III.**    GlowPermeation    – Powerful supply of active ingredients
- IV.**    GlowPushup      – Dynamic impulse massage

Each of the 4 treatment steps is performed with a separate handpiece including special attachment. Each handpiece has a negative pressure system, which draws the skin towards the special attachment in a controlled manner. At the same time, active ingredient liquids tailored to the respective technology are applied precisely to the skin via each handpiece. The active ingredient liquids wash around the special attachment in the handpiece and moisten the skin in the optimal dosage. In this way, the device merges with the 4 professional technologies and the active ingredient liquids to form a unique interplay of technology and cosmetic product.

Professionally executed, the GlowSolution achieves results that you can see and feel after just one application and optimally brings out the natural beauty of demanding skin in all its facets.

## 2. Scope of application

Treatment with the GlowSolution is suitable for all skin types, especially for the following purposes:

- Optical reduction of lines and wrinkles
- Boosting tissue firmness and elasticity
- Complexion clarification
- Pore refinement
- More even skin structure
- Increasing skin vibrancy and glow

### 3. The 4 professional technologies

#### I - GlowPurify – Deep cleansing

How does the technology work?

The special Purify Silicon Brush attachment in combination with the vacuum technology and the GlowPurify Liquid removes dirt from the skin surface and intensively loosens impurities and deposits from deep within the pores. At the same time, loosened dirt particles, including excess cleaning liquid, are sucked away and deposited in the collecting container.

The GlowPurify technology thus ensures – following a manual cleansing – an effective, well-tolerated deep cleansing and prepares the skin ideally for the GlowPolish to follow.

#### II - GlowPolish – Refinement & clarification

How does the technology work?

The special GlowPolish attachment (Polisher Diamondplate) in the handpiece in combination with the vacuum technology and the intensive GlowPolish (Liquid 2) with fruit acid removes dead horn cells efficiently and evenly. In addition, softened, loosened impurities and sebum deposits are extracted from the pore structure by the vacuum.

Removed horn cells, impurities and excess exfoliating liquid are immediately sucked away and directed into the collecting container.

The GlowPolish technology refines the skin's texture, clarifies the complexion and prepares the skin ideally for the GlowPermeation to follow.

#### III - GlowPermeation – Powerful supply of active ingredients

How does the technology work?

Via vacuum technology, the skin is drawn to the low-frequency transducer (25 kHz  $\pm$  5%; 0.5 W/cm<sup>2</sup>) in the handpiece, ensuring perfect, continuous skin contact. At the same time, the GlowPermeation Liquid rinses around the transducer in the optimal dosage.

In this way, the particularly effective power of the low-frequency technology is fully utilised.

Compared to traditional cosmetic ultrasound applications using 1 - 10 MHz, low-frequency ultrasound using 25 kHz is characterised by a significantly higher oscillation amplitude (i.e. particle movement through amplitude). This strong physical mass deflection causes a strong compression and decompression of the skin tissue and can thus increase the skin's ability to absorb active ingredients.

Thus thousands and thousands of atomised micro-droplets meet perfectly prepared skin and moisturise it intensively.

The GlowPermeation technology, for intensive skin smoothing and optimised moisturisation, is the optimal preparation of the skin for the supply of active ingredients with GlowPushup to follow.

#### IV - GlowPushup – Dynamic impulse massage

How does the technology work?

In 2 coordinated massage sequences, the pulsating vacuum acts like an intensive fitness workout for the skin. Within one second, the tissue is lifted and released up to 12 times, comparable to ultra-fine, lightning-fast plucking.

Due to the fast switching between suction and release as well as the special surface structure of the GlowPushup Basic Cap, the tissue is stretched and compressed at top speed.

The result is a mechanical impulse massage, which stimulates the skin in an intensity that cannot be achieved by a manual massage.

This is because all tissue layers of the skin, including the underlying SMAS (Superficial Musculo-Aponeurotic System), are intensively and evenly trained and activated.

The SMAS is a special muscle/connective tissue layer under the skin. Connected to the dermis via connective tissue strands, the texture of this is key for skin that appears youthfully smooth.

The intensive GlowPushup power workout with its strong and fast stretching and compression impulses, inspired by physiotherapy, puts targeted stress on the tissue and can thus exert a stimulating signal effect on the fibroblasts in the connective tissue.

In addition, the circulation of fluids in the tissue and the blood circulation of the skin are supported as the basis for an optimal supply of oxygen and nutrients – a positive boost to the cell activity and metabolic activity of the skin.

#### GlowPushup steps

Building optimally on each other, the GlowPushup follows these 2 massage sequences:

##### 1. Step 1 - Active ingredient push

Based on the complexion and skin condition, a ampoule/ active ingredient liquid is applied manually and worked into the skin with precise tapping impulses.

The focus here is on working in individually selected active ingredient ampoules/liquids optimally.

##### 2. Step 2 - Intensive massage

Strong, intensive and fast stretching and compression impulses ensure an intensive workout of all tissue layers.

The GlowPushup Liquid applied in doses in Massage Step 2 via the handpiece supports the natural skin protection barrier thanks to the skin-identical ceramides it contains and helps to keep previously applied active ingredients in the skin.

### GlowPurify & GlowPolish attachments

The Purify Silicon Brush and Polisher Diamondplate are disposable attachments that must be disposed of in the general waste after a single application.

The Purify Silicon Brush is made of high-quality, soft silicone. The special arrangement and length of the bristles enable an optimal cleansing performance.

Slip the Silicon Brush over the stainless steel part of the handpiece before use.

After use, remove the Silicon Brush from the stainless steel part and discard.

The Polisher Diamondplate is a small adhesive pad coated with special crystals, the homogeneous grain size of which ensures a uniformly intensive exfoliation result. Apply the Polisher Diamondplate to the stainless steel part of the handpiece immediately before use. To do this, remove the small adhesive pad from the backing material, place it on the dry, grease-free (important!) stainless steel part and press it down for approx. 3 seconds so that the adhesive bonds optimally with the handpiece.

After use, remove the Polisher Diamondplate from the stainless steel part and discard.

### Basic & Advanced Caps

All 4 technologies are equipped with a Basic handpiece attachment as standard for large-surface work.

For local treatment of certain skin areas, you can change to the narrower Advanced Cap for GlowPurify and GlowPolish.

The GlowPurify, GlowPolish and GlowPermeation attachments can be easily attached and detached by turning them slightly; for GlowPushup, place the attachment straight on the two holes in the middle.



Fig. 1 Handpiece attachments

No.	Article number	Article name	Comment
1	8442.109	Basic Cap GlowPurify & GlowPolish	Polycarbonate cap for the GlowPurify and GlowPolish handpieces
2	8442.110	Basic Cap GlowPermeation	Polycarbonate cap with narrower diameter for GlowPermeation
3	8442.111	Basic Cap GlowPushup	Polycarbonate cap for GlowPushup
4	8442.112	Advanced Cap	Polycarbonate cap for Advanced handpiece movement during GlowPurify and GlowPolish
5	8442.113	Cleansing Plug	Sealing cap for placing on the handpieces to start the cleaning program



Fig. 2 Stainless steel insert and Silicon Brush

No.	Article number	Article name	Comment
1	8442.104	Purify Silicon Brush	Disposable attachments for use with GlowPurify



Fig. 3 Stainless steel insert and Polisher Diamondplate

No.	Article number	Article name	Comment
1	8442.105	Polisher Diamondplate	Disposable adhesive pad for use with GlowPolish

**PLEASE NOTE**

Please have a detailed discussion with the end user before each GlowSolution treatment. Have them sign the completed contraindication form.

## Contraindications

As with any cosmetic treatment, only healthy people with healthy skin may be treated with the GlowSolution by appropriately trained beauticians.

In certain cases, the use of the various technologies is contraindicated generally, locally or until normal health is restored. The following is a list of the most common contraindications.

In case of doubt, always consult the specialist physician treating the patient.

Localised contraindications:

Skin areas with

- skin damage (e.g. open wounds, localised inflammation)
- visible skin changes (e.g. warts)
- liver spots and moles

are to be avoided leaving plenty of room when applying all 4 technologies.

In the following cases, GlowSolution treatment is generally contraindicated:

- Skin diseases
- Autoimmune diseases, immune deficiency
- Cancer, malignant tumours
- Keloids or predisposition to keloid formation
- Permanent use of cortisone, Marcumar™, glucocorticoids, warfarin, heparin, salicylic acid, Aspirin™ or other blood-thinning medication
- Use of anti-acne medication (e.g. Roaccutane in the last 12 months)
- Pregnancy or breastfeeding
- People under the influence of alcohol or drugs

In the following cases, GlowSolution treatment is contraindicated until normal health is restored:

- Acute fever, infectious diseases
- Acute herpes in the area to be treated
- Acute use of cortisone, Marcumar™, glucocorticoids, warfarin, heparin, salicylic acid, Aspirin™ or other blood-thinning medication

The following cases are temporary contraindications:

- After chemical peels
- After a fruit acid peel treatment by the beautician: wait at least 2 weeks
- After TCA peel / phenol peel: wait at least 6 – 8 weeks
- After ablative laser treatment by a dermatologist: wait at least 6 – 8 weeks
- After plastic surgery, injections: Consult with the specialist physician

Special contraindications for the use of GlowPermeation

The GlowPermeation application must not be used:

- in the case of heart diseases and pacemakers
- in the case of metal implants in the area to be treated

GlowPermeation is designed exclusively for the treatment of the face, neck and décolletage. Please do not treat eyes, eyelids or the thyroid gland area of the neck.

In general, allergic reactions to the cosmetic products used may occur when using the GlowSolution.

# Description

## Operating element and connections

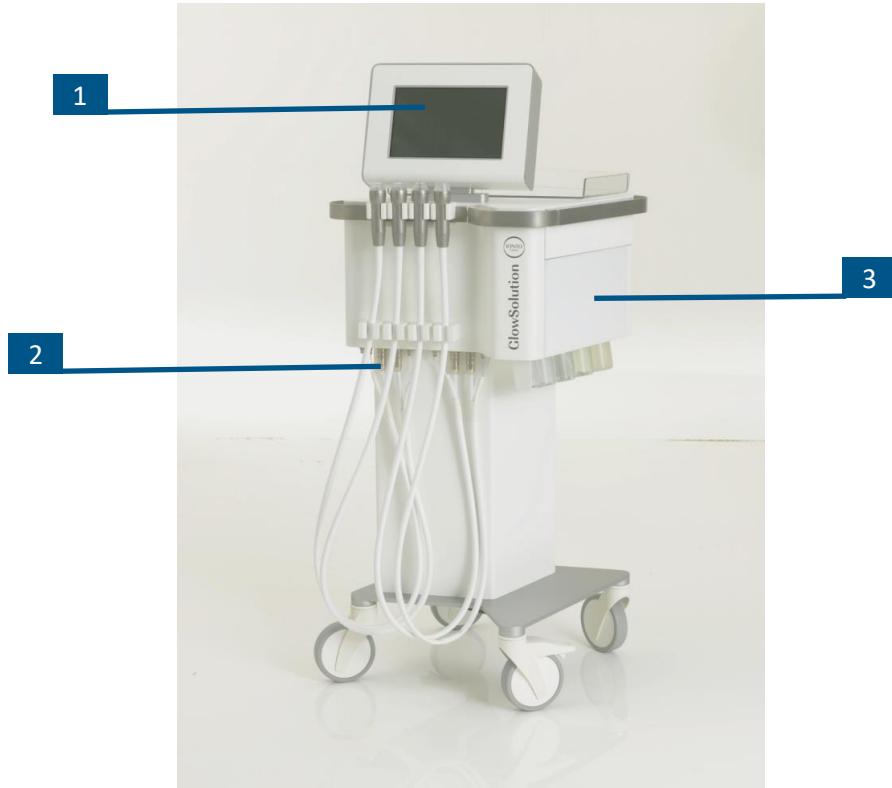


Fig. 4 GlowSolution

- (1) Control panel
- (2) Hose connections
- (3) Supply station for bottles of active ingredient liquid

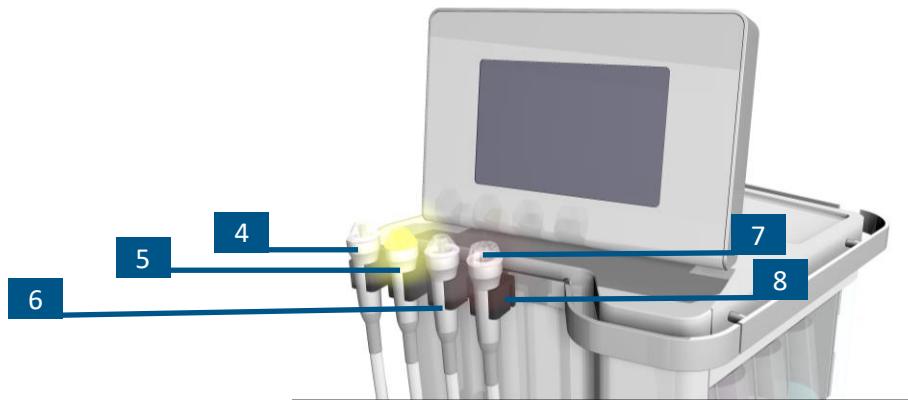


Fig. 5 GlowSolution

(4) GlowPurify handpiece	(5) GlowPolish handpiece
(6) GlowPermeation handpiece	(7) GlowPushup handpiece
(8) Handpiece holder	



Fig. 6 GlowSolution connections on the body

(9) LAN port	(10) USB ports
(11) Condensate separator	(12) Connecting cable power supply unit (stand) with device body

**PLEASE NOTE**

When the GlowSolution is first set up, the connecting cable (12) (Fig. 6) may still have to be connected. To do this, plug the connecting cable into the corresponding connection.

# Control panel



Fig. 7 GlowSolution main menu

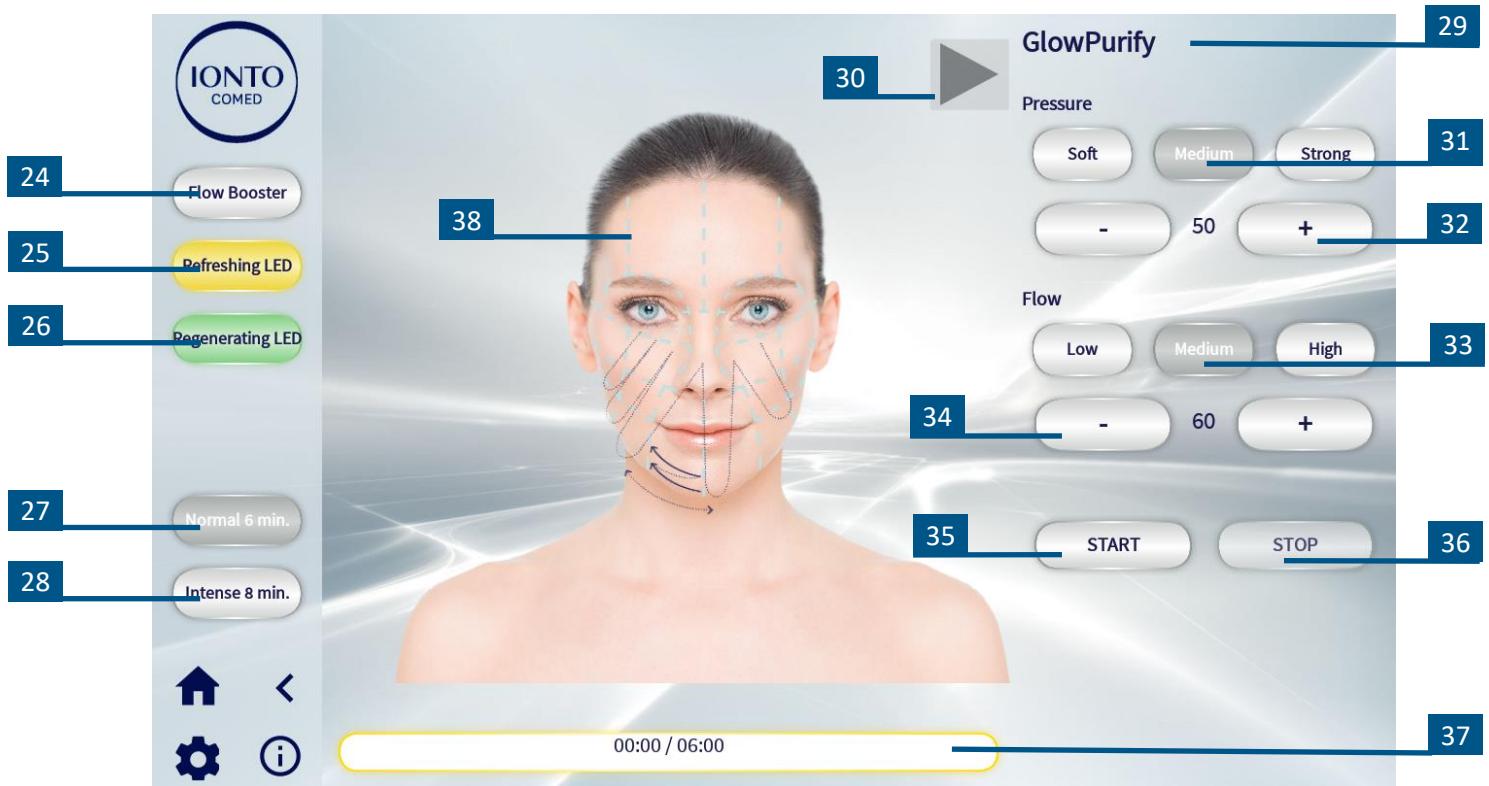
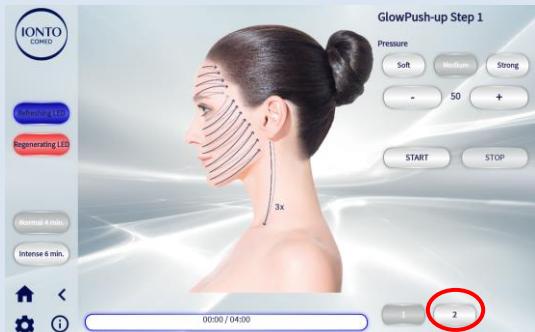


Fig. 8 GlowSolution Treatment Step 1 GlowPurify

(13) Main menu symbol	(14) Back symbol
(15) Settings symbol	(16) Information symbol
(17) Treatment Step 1: GlowPurify button	(18) Treatment Step 2: GlowPolish button
(19) Treatment Step 3: GlowPermeation button	(20) Treatment Step 4: GlowPushup button
(21) Rinse button	(22) Device cleaning button
(23) Special cleaning button	(24) Flow Booster button
(25) Refreshing LED	(26) Regeneration LED
(27) Short treatment time button	(28) Long treatment time button
(29) Treatment step display	(30) Arrow button
(31) Set vacuum strength (low, medium, strong)	(32) Plus button (increase vacuum / active ingredient supply)
(33) Set active ingredient supply (low, medium, high)	(34) Minus button (reduce vacuum / active ingredient supply)
(35) Start / Pause / Continue button	(36) Stop button
(37) Time bar	(38) Instructions for handpiece movement

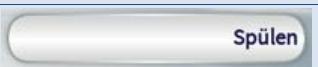
Symbol	No., Explanation	Meaning
	(13) Main menu	The “Main menu” symbol quickly takes you back to the main menu, regardless of which menu step you are currently in.
	(14) Back	The “Back” symbol takes you back out of the selected program.
	(15) Settings	You can change the device settings by pressing the “Settings” symbol.
	(16) Information	You can access the information area by pressing the “Information” symbol. In the sub-menu “Information” you will also find the Operating Instructions and the GlowSolution Guide.

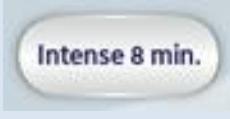
Button	No.,	Meaning
Explanation	GlowPurify	(17) Treatment Step 1: GlowPurify button
	(18) Treatment Step 2: GlowPolish button	The “GlowPolish” button takes you directly to Treatment Step 2 = GlowPolish.
	(19) Treatment Step 3: GlowPermeation button	The “GlowPermeation” button takes you to the selection of the treatment area for Treatment Step 3 = GlowPermeation. After selecting the treatment area you will be taken directly to the Treatment Step GlowPermeation.
	(20) Treatment Step 4: GlowPushup button	The “GlowPushup” button takes you directly to Treatment Step 4 = GlowPushup. Start with Step 1 - Active ingredient push and apply a ampoule/ serum, based on the complexion/skin condition, to the skin, one area at a time.

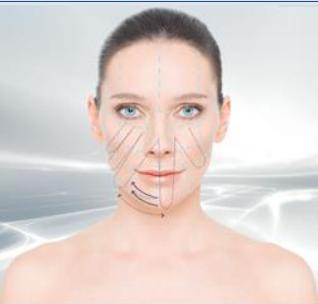


Then switch to Step 2 - Intensive Massage.



Button	No., Explanation	Meaning
	(21) Rinse button	You can access the cleaning instructions for the rinse process by pressing the “Rinse” button.
	(22) Device cleaning button	You can access the cleaning instructions by pressing the “Device cleaning” button.
	(23) Special cleaning button	You can access the cleaning instructions for special cleaning by pressing the “Special cleaning” button.
	(24) Flow Booster button	<p>The “Flow Booster” button starts the Flow Booster function.</p> <p>The Flow Booster function ensures that the hose system is filled with active ingredient liquid within a few seconds during the active treatment step.</p> <p>The Flow Booster function cannot be interrupted or cancelled.</p> <p>Once the Flow Booster function has finished you can start the treatment.</p>
	(25) Refreshing LED	<p>During treatment with the GlowSolution, a handpiece light is available for each treatment step.</p> <p>You can change the lighting colors with the “Refreshing LED” and “Regeneration LED” buttons.</p> <p>Press the active LED button to switch off the light. Press the LED button again to switch the light back on.</p>

Button	No.,	Meaning
Explanation		
	(26) Refreshing LED	<p>During treatment with the GlowSolution, a handpiece light is available for each treatment step.</p> <p>You can change the lighting colors with the "Refreshing LED" and "Regeneration LED" buttons.</p> <p>Press the active LED button to switch off the light. Press the LED button again to switch the light back on.</p>
	(27) Treatment time short button	<p>You can use the "Treatment time short" button to select the shorter treatment time in the treatment steps and only carry out the BASIC handpiece movement.</p>
	(28) Treatment time long button	<p>You can use the "Treatment time long" button to select the longer treatment time in the treatment steps. You can then treat certain areas of skin more intensively with the ADVANCED handpiece movement.</p>
<b>GlowPurify</b>	(29) Treatment step display	<p>The "Treatment step" display shows you which treatment step you are currently in. In the main menu, only "GlowSolution" is displayed.</p>
	(30) Arrow buttons	<p>The arrow buttons are "Next" or "Back" buttons. Use these buttons to switch the diagrams in the handpiece movement instructions.</p>
	(31) Buttons for adjusting the vacuum strength (low, medium, strong)	<p>You can pre-select the vacuum strength before or during the treatment by pressing the "Set vacuum strength" buttons.</p>
	(32) Plus button (increase vacuum / active ingredient supply)	<p>You can increase the vacuum and the active ingredient supply by pressing the "Plus" buttons.</p>

Button	No., Explanation	Meaning
 	<p>(33) Set active ingredient supply buttons (low, medium, high)</p> <p>(34) Minus button (reduce vacuum / active ingredient supply)</p>	<p>You can pre-select the active ingredient supply before or during the treatment by pressing the “Set active ingredient supply” buttons.</p> <p>You can reduce the vacuum and the active ingredient supply by pressing the “Minus” buttons.</p>
	(35) Start / Pause / Continue button	You can start, interrupt and continue the treatment by pressing the “Start / Pause / Continue” button.
	(36) Stop button	You can stop the treatment by pressing the “Stop” button.
	(37) Time bar	<p>The time bar shows you</p> <ul style="list-style-type: none"> <li>- the selected treatment time,</li> <li>- the elapsed treatment time,</li> <li>- the additional time and</li> <li>- the elapsed additional time.</li> </ul>
	(38) Instructions for handpiece movement	The “Instructions for handpiece movement” diagrams provide you with support when performing the treatment steps and show you the recommended handpiece movements.

# Putting the device into operation

## Setting up the device

1. Place the device on a level, solid and heat-resistant surface.

**PLEASE NOTE** Do not place the device on a towel or blanket.  
The ventilation holes must be kept clear.

## Connecting the device to the mains voltage

1. Connect the power cable to the power supply unit below the base plate.

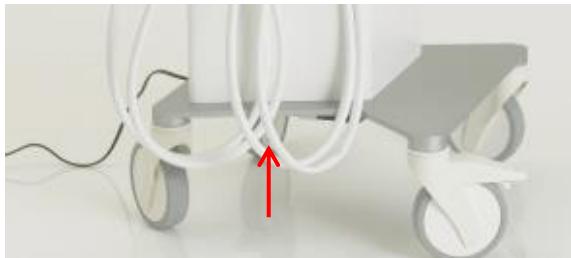


Fig. 9

2. Insert the power plug into the power outlet.

The device is now ready for operation.

## Connecting the handpieces

1. Connect the handpieces one after the other. The procedure is the same for all 4 handpieces.
2. Take care to connect the handpieces in the correct order (see Fig. 11).

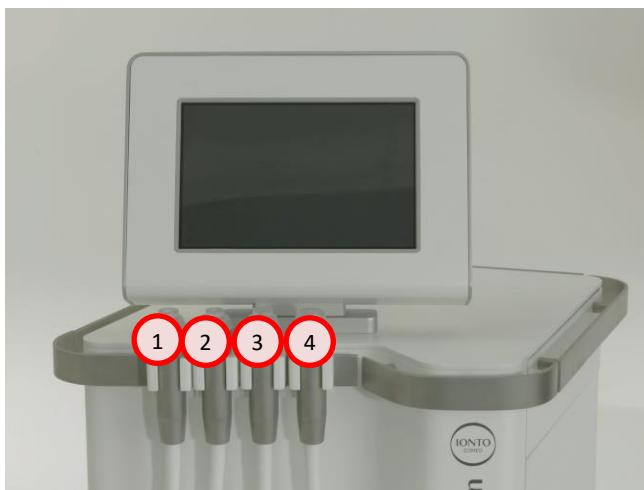


Fig. 10



Fig. 11

Item	Figure	Name	Comment
1		GlowPurify	-Handpiece with a small eccentric hole and a hole for the stainless steel pin of the Purify Silicon Brush
2		GlowPolish	-Handpiece with a larger eccentric hole and a hole for the stainless steel pin of the Polisher Diamondplate
3		GlowPermeation	-Handpiece with a stainless steel pin for the GlowPermeation step
4		GlowPushup	-Two eccentric holes for the GlowPushup step

3. Set-up of the plugs / connection sockets for the 4 handpieces on the device:

a. Per handpiece:

- Left: Plug for the thinner hose.
- Centre: Plug for the thicker hose.
- Right: Connection socket for the combination plug.

4. Proceed as follows for each handpiece:

- a. Insert the thinner hose into the thin plug.
- b. Insert the thicker hose into the thick plug.



*Fig. 12 Left and central plug for the handpiece hoses*

- c. Connect the combination plug with the notch to the connection socket (Fig. 13 and Fig. 14).
  - i. Make sure that the connection fits correctly. Make sure that the nose on the plug and the guide on the connection match. The nose on the plug must point backwards.
  - ii. Tighten the screw connection.
  - iii. The combination plug is connected.



*Fig. 13 Combination plug*



*Fig. 14 Combination plug and connections on the device*

## Handpiece inserts, stainless steel inserts, brush, pad and caps

1. Insert the stainless steel insert for Treatment Step 1 (GlowPurify) into the GlowPurify handpiece.



Fig. 15

2. Place a Purify Silicon Brush on the stainless steel insert of the GlowPurify handpiece. The Purify Silicon Brush is a disposable item and is disposed of in the general waste after each customer treatment. Use a new Purify Silicon Brush for each customer.



Fig. 16

3. Place the Basic Cap GlowPurify & GlowPolish on the handpiece.



Fig. 17

4. Insert the stainless steel insert for Treatment Step 2 (GlowPolish) into the GlowPolish handpiece.



Fig. 18

5. Apply a Polisher Diamondplate to the stainless steel insert for GlowPolish. Press the Polisher Diamondplate firmly onto the stainless steel insert for about 3 seconds. The Polisher Diamondplate is a disposable item and is disposed of in the general waste after each customer treatment. Use a new Polisher Diamondplate for each customer.



Fig. 19



Fig. 20

**PLEASE NOTE**

The Polisher Diamondplate will only adhere to the stainless steel insert for GlowPolish when this is dry and free of grease. Therefore, disinfect and dry the stainless steel insert for GlowPolish before applying a Polisher Diamondplate.

6. Place the Basic Cap GlowPurify & GlowPolish on the handpiece.



*Fig. 21*

7. Place the Basic Cap GlowPermeation on the GlowPermeation handpiece.



*Fig. 22*

8. Place the Basic Cap GlowPushup on the GlowPushup handpiece.



*Fig. 23*

**PLEASE NOTE**

The ultrasonic transducer is equipped with a sensitive ceramic piezo oscillator. Avoid blows to the ultrasonic surface and take special care to ensure that the transducer does not fall to the floor! Strong vibrations or shocks can change its physical properties!

## Using active ingredient liquids

1. Open the plastic cover of the supply station (3) by pressing lightly on the upper left corner.
2. The plastic cover opens. Turn it to the side so that you can put the bottles of active ingredient liquids inside.
3. Open one of each of the 4 active ingredient liquid bottles.
4. Place all 4 active ingredient liquid bottles next to each other in the supply station and insert the appropriate hose into each active ingredient liquid bottle:
  - a. Far left: GlowPurify (Liquid 1) – far left supply hose
  - b. Centre left: GlowPolish (Liquid 2) – centre left supply hose
  - c. Centre right: GlowPermeation (Liquid 3) – centre right supply hose
  - d. Far right: GlowPushup (Liquid 4) – far right supply hose
5. Close the plastic cover.

***PLEASE NOTE***

Keep the caps of the active ingredient liquids. Remove the active ingredient liquid bottles from the supply station overnight / after the last treatment and close the bottles to preserve the active ingredients.

## Inserting the waste water container

1. Pull the latch outwards.



Fig. 24

2. Place the waste water container at a slight angle, opposite to the direction of the fixing clip, and make sure that the waste water container is anchored behind the catch (red circle).



Fig. 25

3. Fit the waste water container into the guide. The waste water container must be fitted parallel to the sealing surface.



Fig. 26

4. Slide the latch back and check that the catch is closed.



Fig. 27



Fig. 28

# Operation

## Device

### Switching on the device

1. Switch the device on at the On/Off switch on the back of the device and press it for a few seconds (item I >).

— The display shows the following:



Fig. 29

2. Then the GlowSolution main menu will appear:

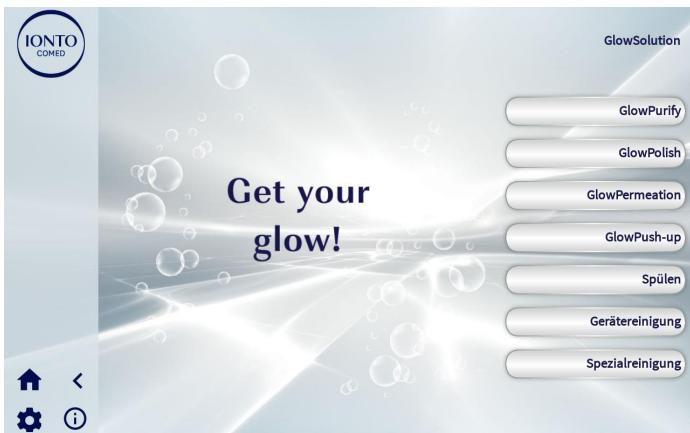


Fig. 30

3. Select the function you require by tapping it once.

#### PLEASE NOTE

A dialogue box may appear when the device is switched on for the first time. You can check “Remember selection” and confirm this by pressing “Allow”. Your selection will then be used when the device is switched on subsequently.

## Switching off the device

1. Press the On/Off switch for a few seconds.

The message “Device cleaning” appears on the control panel (see Fig. 31). Confirm this and carry out the cleaning steps (see p. 40, Disinfection program)



The message “Device cleaning” (see Fig. 31) can also be rejected. However, if the device has a downtime of more than 10 hours, when it is switched on again the device must be cleaned.

2. The device is now switched off.



Fig. 31

## Emptying the waste water container

1. Hold the waste water container with one hand.
2. Pull the fixing clip on the waste water container outwards.



Fig. 32

3. Tilt the waste water container slightly downwards on the side of the fixing clip as shown in Fig. 32. Pry the waste water container out of the catch on the opposite side.



Fig. 33

4. Now remove the waste water container completely from the catch and carefully release the clip.



Fig. 34

5. Empty the waste water container.
6. Put the waste water container back in place. Follow the steps for “Inserting the waste water container”. (see p. 28, “Inserting the waste water container”)

**PLEASE NOTE**

Empty the waste water container when it is three-quarters full to ensure a proper treatment effect.

**PLEASE NOTE**

To avoid blockages, please clean the float switch and the filter in the waste water container every evening after use. Cleaning can be carried out with water and a brush.

# General settings in the Settings menu

In the Settings menu, you can select your desired language, select the standard LED colour for the handpieces outside the treatment and adjust the volume of the acoustic signals.

## Display language setting

The default language is German and can be changed individually.

Follow the steps below to select your desired language:

1. Press the Settings button ((15) see p. 15)
2. The Settings menu appears on the display:



Fig. 35

3. Press the appropriate selector and select your desired language.
4. Press the Back button (14) or the Home button ((13) see p. 15) to exit the Settings menu.

# Sound and volume

## Setting the sound and volume for general acoustic signals

1. Press the Settings button (15).
2. The Settings menu appears on the display.
3. Use the slider to set your desired volume.
4. Press the Back button (14) or the Home button ((13), see p. 15) to exit the Settings menu.

## Standard colour for handpieces

1. Press the Settings button (15) in the lower left-hand corner of the display.
2. In the sub-item “LED” you can set the standard colour of the handpieces. The standard colour is the colour in which the handpieces light up outside the treatment. Select the field with the colour in which you want your handpieces to light up.
3. Press the Back button (14) or the Home button ((13), see p. 15) to exit the Settings menu.

## LED ON/OFF

1. Press the Settings button (15) in the lower left-hand corner of the display.
2. In the sub-item “LED” you can switch the handpiece LEDs on and off.
3. Press the Back button (14) or the Home button ((13), see p. 15) to exit the Settings menu.

## LED light intensity

1. Press the Settings button (15).
2. The Settings menu appears on the display.
3. Use the slider to set your desired LED light intensity.
4. Press the Back button (14) or the Home button ((13), see p. 15) to exit the Settings menu.

# Setting up the Internet connection

## Setup via Wi-Fi connection

1. Connect the Wi-Fi USB stick to the USB port on the back of the device (Fig. 36, see p. 36).
2. Press the Settings button (15) (see p. 15) in the lower left-hand corner of the display.
3. Press the “Wi-Fi settings” button
4. Check the box “Activate Wi-Fi”
5. Now wait until the device shows the networks available nearby. The list appears below the “Activate Wi-Fi” check mark. This can take up to 2 minutes.
6. Now tap your desired network.
7. Enter your Wi-Fi password in the window “Connect to the network” that opens.
8. Confirm by pressing “Connect”.
9. After a few seconds, “Connected” appears behind your selected network.

The Wi-Fi connection only needs to be set up once on the device. Afterwards, the Wi-Fi connects automatically when the device is switched on.

## Setup via network connection

1. Connect the network cable to the LAN port (9), on the underside of the device body (see p. 14).
2. Connect the other end of the network cable to the router for your Internet connection.
3. The Internet connection is established.

# Repair and Maintenance

## INFO

To maintain the value and ensure optimal performance of the device, we recommend an annual inspection and, if necessary, maintenance, depending on the frequency of use. Contact customer service.

**Repair:** Repairs may only be carried out by authorised specialist staff of the manufacturer. Any changes and repairs not carried out by authorised specialist staff will invalidate any warranty and liability of the manufacturer.

**Maintenance:** The following maintenance must be carried out:

- Clean the air filter in the waste water container with a clean brush and distilled water
- Test the seals in the handpiece cap
- Functional test

## Software update via USB stick

## INFO

Contact customer service for more information.

How to perform the software update:

1. Contact our customer service.
2. Press the On/Off switch  on the control panel housing to switch on the device.
3. The app will start. Wait until the app is fully loaded.
4. Insert the USB stick with the updated app into the port on the back of the device. The USB stick is recognised automatically.
5. Press “Update application”.
6. The update will start. In case of a firmware update, this process can take up to 20 minutes.  
**Never interrupt the update process!** Switching off the device during this process will result in a defective device.

## *PLEASE NOTE*

If the window closes without further instruction, your system is already up to date. Steps 7 + 8 are then no longer necessary.

7. The “Install” window opens. Press “Install”. The software update is carried out.
8. Wait a few minutes until the software update is complete.
9. Check the app version via the settings. You can recognise the update by the number written behind it.

**PLEASE NOTE**

If the “Update application” button does not appear in the window, check whether you have copied the update file correctly to the USB stick. The file must be called “data.zip” and must not be unzipped!

The software update was carried out successfully.

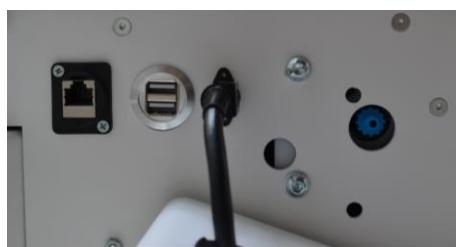


Fig 36. Port for USB stick on the underside of the device body



Fig. 37 Recognising the current app version

# Software update via Internet

## *INFO*

Contact customer service for more information.

1. Establish an Internet connection via Wi-Fi. See “Setup via Wi-Fi connection” (see p. 34).
2. Press the Settings button (15) (see p. 15) in the lower left-hand corner of the display.
3. Press the “Online update” button.
4. The update will start. In case of a firmware update, this process can take up to 20 minutes.  
**Never interrupt the update process!** Switching off the device during this process will result in a defective device.

## *PLEASE NOTE*

If the window closes without further instruction, your system is already up to date. Steps 5 + 6 are then no longer necessary.

5. Press “Install”. The software update is carried out.
6. Wait a few minutes until the software update is complete.
7. Check the app version via the settings. You can recognise the update by the number written behind it (Fig. 37).

# Cleaning and Care

## ⚠️ WARNING

Risk of electric shock. This can lead to fatal injuries.

- *Always switch off the device and unplug the power cable before cleaning the outside!*

## PLEASE NOTE

Wear gloves while cleaning.

Do not use aggressive cleaning agents and other substances such as acids, thinners or acetone.

## Cleaning the handpieces

1. Disinfect all caps, as well as the stainless steel inserts for GlowPurify and GlowPolish after each customer treatment.
2. Remove the caps by pulling them forward.
3. Disinfect the caps with conventional products. Sterilisation is also possible.
4. Disinfect the stainless steel inserts for GlowPurify and GlowPolish with conventional products. Sterilisation is also possible.
5. Disinfect the handpieces with a disinfecting wipe. Alternatively, you can also use a cloth that you have applied disinfectant to.
6. Put the disinfected caps back in place.

## ℹ️ INFO

To avoid blockages, rinse the device after each use.

## PLEASE NOTE

Do not place the handpieces in an ultrasonic bath!

## PLEASE NOTE

Disinfect the handpieces after each customer treatment.

## Rinsing

### ⓘ INFO

To avoid blockages, rinsing the device after each use is recommended.

1. Press the “Rinse” button in the main menu.
2. Remove all caps from the handpieces
3. Place a Cleansing Plug on each handpiece.



Fig. 38

4. Fill the empty bottles with 4x 500ml of distilled water and place them in the bottle compartment in the same way as the active ingredient supply bottles. Insert the hoses of the 4 treatment steps into the bottles.



Fig. 39

5. Start Phase 1 of the rinsing process. Phase 1 of the rinsing process is now carried out.
6. After Phase 1 is complete, remove the bottles from the bottle compartment.
7. After removing the bottles, press “Continue”; the hoses are emptied.
8. Remove the Cleansing Plugs from the handpieces and store them in the drawer.
9. Place the disinfected Basic Caps on the handpieces.
10. To return to the start menu, press the Home symbol ((13) see p. 15).

## Disinfection program

### PLEASE NOTE

The device must be cleaned every evening after use and before switching it off to minimise the risk of blocking (see p. 38 “Cleaning and Care”).

### PLEASE NOTE

To avoid blockages, please clean the float switch and the filter in the waste water container every evening after use. Cleaning can be carried out with water and a brush.

### INFO

The “Device cleaning” time is approx. 20 minutes. Once “Device cleaning” starts it cannot be interrupted and must be left to run until cleaning is complete.

1. Press the “Device cleaning” button in the main menu.



Fig. 40

2. Remove all caps from the handpieces.
3. Place a Cleansing Plug on each handpiece.



Fig. 41

4. Fill the empty bottles with distilled water and place them in the bottle compartment in the same way as the active ingredient supply bottles. Insert the hoses of the 4 treatment steps into the bottles.



Fig. 42

5. Start Phase 1 of the disinfection program. Phase 1 of the disinfection program is now carried out.
6. After Phase 1 is complete, remove the bottles from the bottle compartment.
7. After removing the bottles, press “Continue”; the hoses are emptied.
8. Fill 4 empty bottles with the disinfectant intended for the device and place them in the bottle compartment in the same way as the active ingredient supply bottles. Insert the hoses of the 4 treatment steps into the bottles
9. Start Phase 2 of the disinfection program. Phase 2 of the disinfection program is now carried out.
10. After Phase 2 is complete, remove the bottles from the bottle compartment.



Fig. 43

11. After removing the bottles, press “Continue”; the hoses are emptied.
12. Fill the empty bottles with distilled water and place them in the bottle compartment in the same way as the active ingredient supply bottles. Insert the hoses of the 4 treatment steps into the bottles.
13. Start Phase 3 of the disinfection program. Phase 3 of the disinfection program is now carried out.
14. After Phase 3 is complete, remove the bottles from the bottle compartment.
15. After removing the bottles, press “Continue”; the hoses are emptied.
16. Remove the Cleansing Plugs from the handpieces and store them in the drawer.
17. Place the disinfected Basic Caps on the handpieces.
18. To return to the start menu, press the Home symbol ((13) see p. 15).

## Special cleaning

**PLEASE NOTE** To make sure that the device works perfectly for a long time, you should carry out special device cleaning every 2 weeks.

**PLEASE NOTE** Citric acid monohydrate E330 food grade is recommended for special cleaning. Dilute the citric acid to a 10 percent citric acid solution.

1. Press the “Special cleaning” button in the main menu.
2. Remove all caps from the handpieces.
3. Place a Cleansing Plug on each handpiece.



Fig. 44

4. Remove the bottles from the supply station. Start the cleaning, the hoses are now emptied.
5. Prepare the 10 percent citric acid solution. To prepare the required 10 percent citric acid solution, fill the 4 x 500ml empty bottles with 450ml of water each and add 50g of citric acid monohydrate E330 food grade to each. Close the bottles and shake them briefly.
6. Place the filled bottles in the bottle compartment in the same way as the active ingredient supply bottles. Insert the hoses of the 4 treatment steps into the bottles.
7. Start Phase 1 of the special cleaning process. Phase 1 of the special cleaning process is now carried out.
8. Switch off the device.



**INFO** The application time for the citric acid solution is 8 hours.

**PLEASE NOTE** After the device has been switched on again there are two ways to start the device. “Application time is complete”, please continue with the special cleaning from step 8. “Application time is not complete”, a status message is shown (see Fig. 45). Please leave the citric acid solution on. If you want to end the program, continue from step 7.

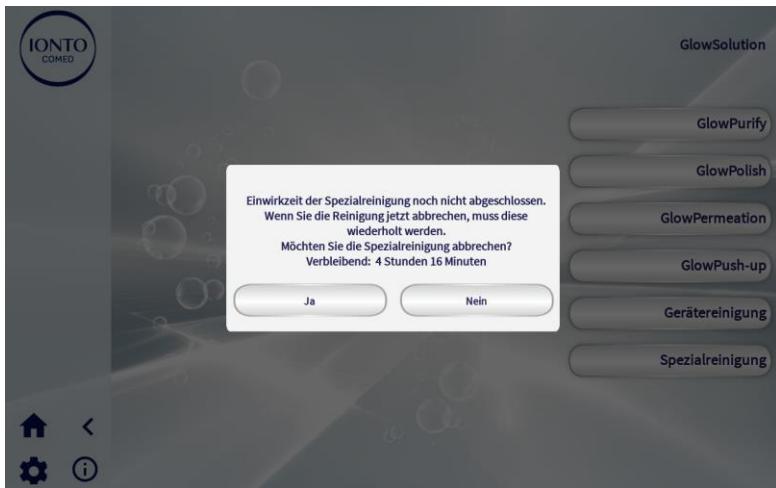


Fig. 45

9. Please do not interrupt the special cleaning process! If you have to interrupt it, confirm the message (see Fig 45) and carry out the “Rinsing process”.
10. Phase 2 “Rinsing”. Now fill the other empty bottles with distilled water and place them in the bottle compartment in the same way as the active ingredient supply bottles. Insert the hoses of the 4 treatment steps into the bottles.
11. Start Phase 2 of the special cleaning process. Phase 2 of the special cleaning process is now carried out.
12. After Phase 2 is complete, remove the bottles from the bottle compartment.
13. Phase 3 “Emptying the hoses”. After removing the bottles, press “Continue” and wait until the message “Special cleaning completed” appears.
14. Remove the Cleansing Plugs from the handpieces and store them in the drawer.
15. Place the disinfected Basic Caps on the handpieces.
16. To return to the start menu, press the Home symbol ((13) see p. 15).

## Cleaning the device

1. Clean the housing with a disinfecting wipe. Alternatively, you can also use a cloth that you have applied disinfectant to.

# Malfunctions and Troubleshooting

Malfunction	Cause	Remedy
Device is not working. No error message is displayed. Display remains dark.	Power cable not connected correctly.	Check the power cable connection. Plugs must be inserted firmly.
	On/Off switch on the top of the monitor not switched on (LED ring remains dark).	Switch on the On/Off switch on the top of the monitor (LED ring turns blue).
Operating the power switch does not work. LED ring on the On/Off switch does not light up.	Make sure that the power supply unit of the device is connected to a 230 V power supply.	Check the connection of the power cable to the power supply. Plugs must be inserted firmly.
	Power cable not connected correctly.	Check the connection of the power cable to the power supply unit. Plugs must be inserted firmly.
The LED on the selected handpiece does not light up when starting a treatment.	The handpiece is not properly connected to the device.	Check the handpiece connection. The connection must be screwed in to the end.
	When starting a treatment, the selected handpiece does not light up.	Please check that the handpieces are connected in the correct order.
The LED on the handpiece does not light up although the treatment is starting, liquid is flowing and there is a vacuum.	In the Settings menu, the handpiece light is switched off.	Go to the Settings menu and switch on the handpiece light.
	Handpiece defective.	Contact our customer service.
Handpiece is connected correctly, but is not working. The light, vacuum and liquid flow are not working.	Electronic problem / system error.	Contact our customer service.

Malfunction	Cause	Remedy
The liquid flow or vacuum is too weak.	The waste water container is not inserted correctly or is leaking.	Check whether the waste water container is correctly connected to the device. To do so, move the container, turn it slightly and check whether the liquid flow has started.
	There is a blockage in the system.	Please carry out device cleaning.
The LED brightness is too high or too low.	The LED light intensity is incorrectly set in the settings.	Go to the Settings menu and set your desired LED light intensity.
Error message: "Waste bottle full! Please empty this."	Waste bottle is full.	Remove the waste bottle, empty it and then reinsert it. Press the "OK" button on the display and then the "Next" button.
Error message: "GlowSolution has stopped"	Communication error.	Contact our customer service.

If malfunctions or difficulties occur during assembly or disassembly, please contact our customer service.

# Transport/Storage/Operating Conditions

Transport and storage temperature: -20°C to +50°C

Operating temperature: +10°C to +40°C

Relative humidity: max. 90%, non-condensing

Avoid abrupt temperature changes due to possible condensation on the device. Do not put the device into operation until temperature equalisation has occurred.

Only transport the device in the manufacturer's original packaging.

## Disposal

Keep the original packaging for possible transport.

Please dispose of the packaging, the device and accessories in an environmentally friendly manner at the appropriate disposal points.

All electrical and electronic equipment must be disposed of separately from general waste.



When this symbol of a crossed-out bin is placed on a product, this product is subject to European Directive 2002/96/EC and must not be mixed with general waste. Separate collection systems exist for these products.

The proper disposal and separate collection of old equipment serves to prevent potential damage to the environment and health. They are a prerequisite for the re-use and recycling of used electrical and electronic equipment.

# Product Contents

Quantity Article name

1	GlowSolution Device
1	Premium handpiece for GlowPurify
1	Premium handpiece for GlowPolish
1	Premium handpiece for GlowPermeation
1	Premium handpiece for GlowPushup
1	Power cable
1	Operating instructions

# Accessories and Consumables

Article number	Article name	Article description
8442.100	GlowPurify (Liquid 1)	Cleaning liquid for use with GlowPurify (I)
8442.101	GlowPolish (Liquid 2)	Exfoliating liquid with fruit acid for use with GlowPolish (II)
8442.102	GlowPermeation (Liquid 3)	Active ingredient liquid for use with GlowPermeation (III)
8442.103	GlowPushup (Liquid 4)	Active ingredient liquid for use with GlowPushup (IV – Step 2)
8442.104	Purify Silicon Brush	Disposable attachments for use with GlowPurify
8442.105	Polisher Diamondplate	Disposable adhesive pad for use with GlowPolish
8442.109	Basic Cap GlowPurify & GlowPolish	Polycarbonate cap for the GlowPurify and GlowPolish handpieces
8442.110	Basic Cap GlowPermeation	Polycarbonate cap with narrower diameter for GlowPermeation
8442.111	Basic Cap GlowPushup	Polycarbonate cap for GlowPushup
8442.112	Advanced Cap	Polycarbonate cap for Advanced handpiece movement during GlowPurify and GlowPolish
8442.113	Cleansing Plug	Sealing cap for placing on the handpieces to start the cleaning program

# Technical Data

## Device

IONTO article number:	8442
Voltage:	24 V
Power:	70 W
Negative pressure (nominal value):	~40 kPa
Protection class:	III
Dimensions (W/D/H) in mm:	490 x 475 x 1280
Weight:	42.4 kg
GlowPermeation:	25 kHz (+/- 5%)
Max. sound intensity:	0.5 W/cm <sup>2</sup> (+/- 10%)
Power cable:	1.8 m



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