

Thank you for purchasing this PRIZMA's device. Be sure to read this instruction manual thoroughly before using the product so that you can use it safely and correctly. Please keep this instruction manual always at hand for future reference.

Be sure to use the device properly according to this instruction manual.

MAKE SURE TO READ THIS SECTION Exemption from liability Notes on safety	
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Document revisions

Version	Date:	Description of changes:
1.0	Sep 2018.	Initial version

Please understand that PRIZMA is not liable for the following:

- 1. Any trouble and/or damage caused by the maintenance and/or repair conducted by other than PRIZMA or PRIZMA's authorized dealer.
- 2. Trouble and/or damage of PRIZMA's product caused by the product of other manufacturer not delivered by PRIZMA.
- 3. Trouble and/or damage caused by maintenance and/or repair using the repair part(s) not authorized by PRIZMA.
- 4. Trouble and/or damage caused as a result of not observing the Notes on Safety or operating method mentioned in this Instruction manual.
- 5. Deviation from the operating conditions of the product mentioned in this Instruction manual including the power source and installation environment.
- 6. Trouble and/or damage caused as a result of modifying and/or improper repair of the product.
- 7. Trouble and/or damage caused by natural disasters such as fire, earthquake, flood or lightning.

- 1. The content of this Instruction manual are subject to change for improvement without prior notice.
- 2. The content of this Instruction manual has been prepared with care and attention. However, if you find any omission or error, please inform your local PRIZMA representative or dealer.
- 3. It is prohibited to copy all or a part of this Instruction manual without getting PRIZMA's permission. Unless you use this Instruction manual for your personal (corporate) purpose, you are not allowed to use it without PRIZMA's permission in accordance with the Copyright Act.

- The warning signs and the sample icons shown here are listed for you to use this product safely and correctly as well as to prevent the risk of injury to you and others.
- The icons and meanings are as follows:

Warning	; sign	Contents
A		Indicates situations in which the possibility of death or severe
∠!∆ Warning	body injury may arise as a result of incorrect handling.	
		Indicates situations in which body injury or material damage*
Caution	may arise as a result of incorrect handling.	

* Material damage refers to a wide range of damage involving your house, household goods, domestic animals and pets.

	Example	s of signs		
The \bigtriangleup icon indicates caution (including warning and danger). Situations involving actual caution are indicated by statements or pictures in or near \bigtriangleup .		The sign refers to "caution for flammability".		The sign refers to "caution for electric shock".
The Sicon indicates prohibitions (what you cannot do). Matters involving specific prohibitions are indicated by text or pictures shown in or near S.		The sign refers to "prohibition to disassemble".	\bigcirc	The sign refers to "general prohibition".
The icon indicates something that is compulsory (must be observed at any time). Situations involving specific compulsory actions are indicated by statements or pictures shown in or near	0	The sign refers to "general compulsion".		The sign refers to "unplugging the power plug".

IMPORTANT SAFETY INSTRUCTIONS

WANING - When using electric appliances, basic precautions should always be followed, including the following:

- Read all the instructions before using the appliance.
- To reduce the risk of injury, close supervision in necessary when an appliance is used near children.
- Do not contact moving parts.
- Only use attachments recommended or sold by the manufacturer.
- Do not use outdoors.
- To disconnect, turn all controls to the off ("O") position, then remove plug from outlet.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Unplug from outlet when not in use and before servicing or cleaning.
- Do not operate any appliance with a damaged cord or plug, or after the appliance malfunctions or is dropped or damaged in any manner. Return appliance to the nearest authorized service facility for examination, repair, or electrical or mechanical adjustment.
- Connect to a properly grounded outlet only. See Grounding Instructions. Do not use grounding adaptor.

SAVE THESE INSTRUCTIONS



Use only salt approved for medical purposes,

• Subject of session physical condition may get worse.

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

Clean the device after use.

• Salt is deposited inside the device while working. Salt is a corrosive substance. Corrosion can occur and damage some parts of the device.

In case of a problem with this device please, contact your local PRIZMA service representative (address on/ inside package).

Do not use this device in the vicinity of flammable gases or in areas with high risk of explosion.

Only salt can be used.

Do not disassemble the device while plugged into an electric outlet.

• You may suffer an electric shock or injure yourself.

Do not operate the device with wet hands.

• You may suffer an electric shock or injure yourself.

Do not wash the device with water, or pour water over it.

• You may suffer an electric shock in the event of a short circuit.

The device is intented for operation with dry salt NaCl.

• If you use other substances, malfunction may occur or the device may be damaged.

Relative humidity must be up to 40%.

• If the device is used at higher relative humidity, the degradation of its performance may occur.

If the product parts have already become dirty before using the device, clean them first before use.

• If the salt remains in the device, the degradation of its performance may occur.

Disposal of this device should be carried out in accordance with national regulations for disposal of electronic products.

If you are not going to use the device for a long time, be sure to unplug the power plug from the electric outlet.

• You may suffer an electric shock or the device may ignite due to electric leakage.

Be sure to turn off the power and unplug power supply when you install, remove, clean, or repair the device or take care of the parts.

• You may suffer an electric shock or injure yourself.

This equipment must be connected only to a supply mains with protective earth.

• You may suffer an electric shock or injure yourself.

Mains plug is considered as disconnecting device. Mains power outlet used for connection of the halogenerator to the mains should be easily reachable to the operator.

Do not look into the output air flow during nebulisation.Large amounts of salt can reach your eyes and cause





Notes on safety

damage.	
Do not fill the tank with any substances other than pure dry	
salt approved for medical use.	
• Damage to the device or performace degradation may	
occur.	
Do not use the power cord or plug if it is damaged, or do not	
plug into a loose electric outlet.	
• You may suffer an electric shock or short circuit may occur	
and cause ignition.	
Do not scratch, tear, modify, bend by using force, pull, twist,	
or bundle the power cord. Do not place heavy objects on the	(\land)
power cord. Keep power cord away from heated or hot	
surfaces.	
• You may suffer an electric shock or the device may ignite	
due to short circuit caused by deteriorated insulation.	
Do not perform disassembly, repairs or modifications of any	
kind.	
 It may cause malfunction of the device or human injury. 	
• There are no parts serviceable by user inside the device.	
Contact your nearest PRIZMA service representative.	
Do not use a power cord other than the supplied one.	
• The device may ignite or you may suffer an electric shock.	
Be sure to use the specified power source.	
• The device may ignite or you may suffer an electric shock.	
Do not share the electrical socket with other electrical	$\mathbf{\Lambda}$
devices.	
• The device may ignite or you may suffer an electric shock.	
To unplug, do not pull the power cord. Instead, hold the	
power plug with your hand.	
• The power cord may be damaged, short circuit may cause	
fire, or you may suffer electric shock.	
Do not open the door of the halogenerator when session	WARNING
session is in progress.	<u>/!\</u>
• There are rotating parts inside the halogenerator. They	
can cause human injury.	DURING OPERATION

General advice

Do not use the product for the purpose other than for producing dry salt NaCl aerosol generation.

Do not use any parts other than the accessories or optional parts listed in this Instruction Manual.

Do not fill the tank with more than 40g of dry salt.

Do not block the air ventilation holes at the bottom side of the device.

Do not operate if the deflector plate is removed.

• Large amount of salt can reach your skin or eyes.

After cleaning the parts, dry completely before re-assembling.

Do not wipe the device with volatile chemicals, such as benzene or thinners.

Although this device fulfils the provisions of the EMC (Electromagnetic Compatibility) directive, the use of it should be avoided in direct vicinity of other electric devices.

Do not allow unsupervised children or infirm persons to use the device.

This appliance shall be installed in accordance with national wiring regulations.

This appliance shall not be accessible to general public.

Maintenance

Before using the device, make sure to confirm that the device operates normally and safely.

How to deal with faults or accidents

If an error occurs, immediately take the following measures:

1) Turn power to the unit OFF and unplug from the electrical outlet.

2) Place a notice on the device "Faulty-Do not use".

3) Contact the store where you purchased the product or the nearest PRIZMA dealer.

Device features

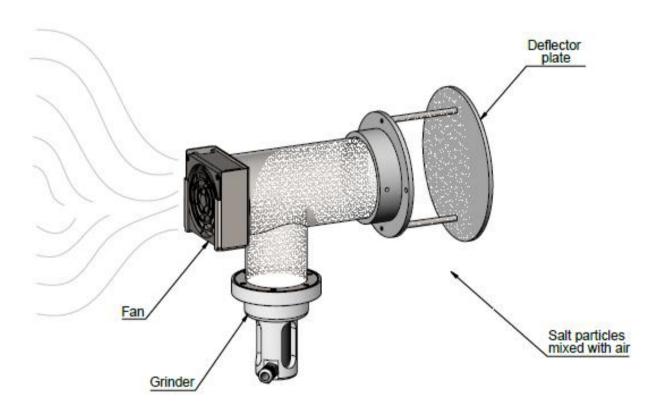
- **1** All mechanical parts and electronics are located inside one cabinet. Device is powered from the mains, via power cord.
- **2** Touch screen displays program number, salt dispensing mode during session, fan speed, remaining time of session and indication of problems during session. The back-light illuminates the display in darkness.
- **3** There is a touch-sensitive surface on the display. It allows easy interactive device operation. The unit has a notification buzzer. The buzzer makes a sound when some of the commands on display are touched.
- **4** This device operates in the unlicensed ISM band at 2.4GHz, using BLUETOOTH communication. In case this product is used nearby other wireless devices, including microwave and wireless LAN, operating in the same frequency band, there is a possibility that interference occurs between this product and such other devices. If interference occurs please stop the operation



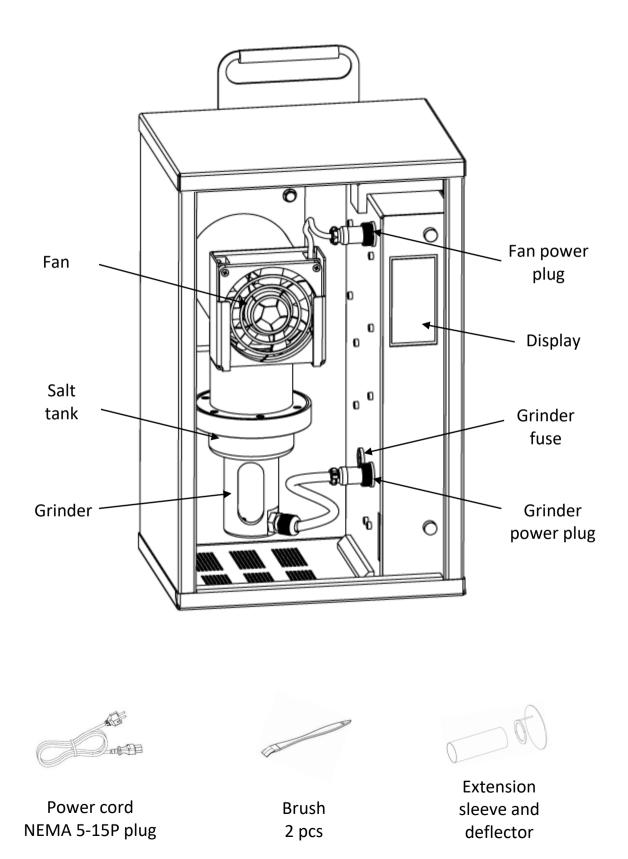
such other devices. If interference occurs, please stop the operation of other devices.

Principles of operation

- 1) The grinder works in programmed time intervals, breaks salt grains to salt dust particles of various size, from few microns to parts of millimeter.
- 2) Air flow pulls small and light salt particles from the grinder and blows them out.
- 3) Output airflow containing salt particles hits the deflector plate. Coarse and heavy salt particles are not able to follow sudden change of airlow, they hit the deflector plate and drop down. Fine and light particles can follow the airflow, pass the deflector plate and get inside the salt room.
- 4) It is assumed that the device is mounted outside the salt room, with user being inside and operator in the vicinity of the device.

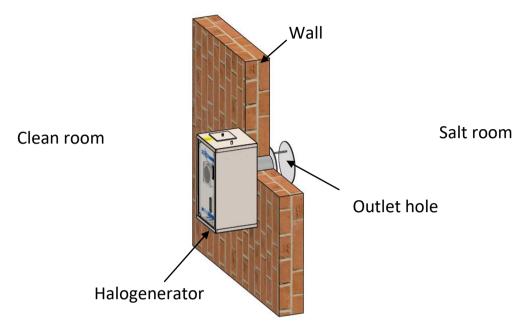


Parts of the device



INSTALIATION INSTRUCTIONS

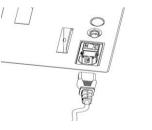
1. Choose appropriate position for halogenerator on wall between clean room and salt room. Center of the outlet hole should be about 1m above floor level.



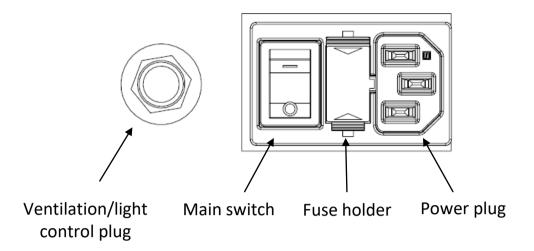
- 2. Drill a 90 mm diameter hole for outlet in the wall, between clean room and salt room.
- 3. Put halogenerator against drilled 90 mm hole. Mark 4 holes for anchors (holes are at rear side of halogenerator case) and remove halogenerator from the wall.
- 4. Drill four 8mm diameter holes for nylon anchors, and insert the anchors into the holes.
- 5. Mount the halogenerator on the wall selecting four 5.5x60mm-DIN7997 metal screws.

Note: For detailed montage instructions, refer to accompanying documents.

6. Insert power cable to power plug.

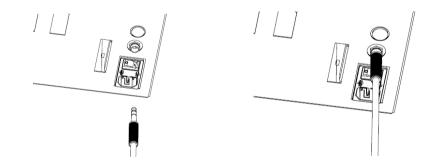


WARNING: Do not use a power cord other than the supplied one.



Note: Power plug is on the bottom side of the halogenerator.

- Note: Mains plug is considered as disconnecting device. Mains power outlet used for connection of the halogenerator to the mains should be easily reachable to the operator.
- If you use an external circuitry for ventilation and light control, insert jack in plug for control of external circuitry (central jack conductor always carry +24VDC, shield is connected to 0V when session is in progress, and disconnected when session is not in progress. Plug can carry current for one control relay operating on 24VDC (max 100mA).



Note: Plug for control of external circuitry is on the bottom side of the halogenerator.

8. Connect power cord to grounded mains power inlet. Do not use grounding adaptor.

GROUNDING INSTRUCTIONS

This appliance must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and a grounding plug.

The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

DANGER - Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 120 V circuit, and has a grounding plug. A temporary adaptor, may be used to connect this plug to a 2-pole receptacle if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, and the like, extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by the metal screw.

Instruction for positioning of the halogenerator in salt room

For proper operation of the halogenerator and salt room essential influence has:

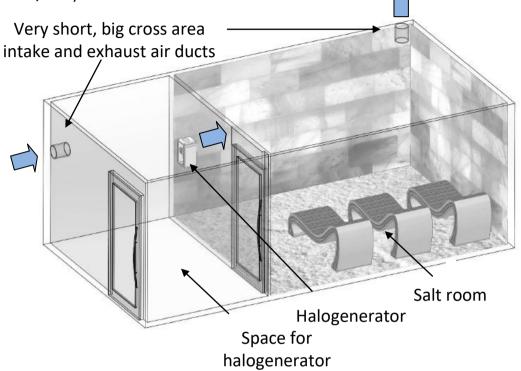
- Position of the halogenerator.
- Supply of fresh air to the halogenerator.
- Position of exhaust ventilation orifice.
- Air exhaust from salt room.
- Humidity of air.

Basically, halogenerator should create salt dust and mix it with air. Salt dust is generated inside grinder of halogenerator. Air flow for mixing of salt with air creates fan inside halogenerator. Flow of air created by fan strongly depends on difference of air pressure before halogenerator and air pressure inside salt room. Decrease of size of ventilation orifices, and cross section of ventilation ducts and increase of length of ventilation ducts will result in increase of air pressure difference and decrease of air flow. If air flow is not sufficient, salt dust will not go to salt room and will deposit inside the halogenerator.

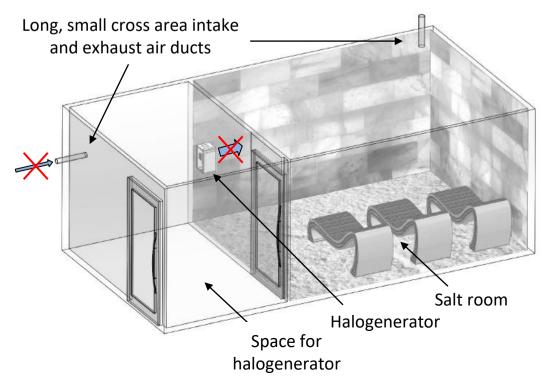
Installation Instructions

Installation examples

• If ventilation system is perfect, and air pressure after halogenerator is 0.0 mm H_2O (0.0 inch H_2O), fan can produce maximum air flow of 1 m³/min (35 CFM/min).

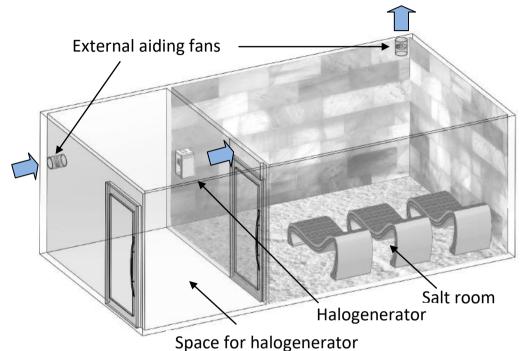


• If air pressure inside salt room is more than air pressure before halogenerator, fan will not produce air flow at all. Fan blades will rotate, but there will be no air flow.

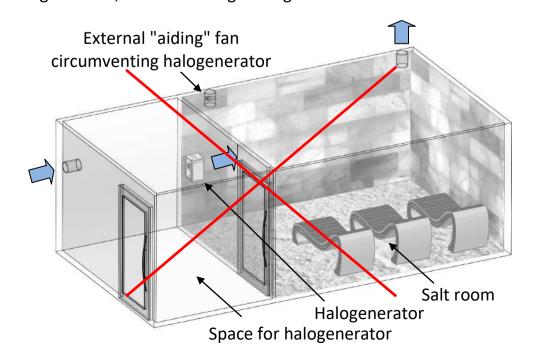


Therefore, it is essential to have good supply of fresh air before halogenerator and good air exhaust system from the salt room.

If air supply is not good enough (meaning high air pressure drop after halogenerator), fan inside halogenerator will need help of additional fan/fans located in external air installation. It can be fan that increase supply of fresh air before halogenerator or fan that increase exhaust of air from salt room or both. Goal is to have air flow up to 1 m^3 /min (35 CFM/min).

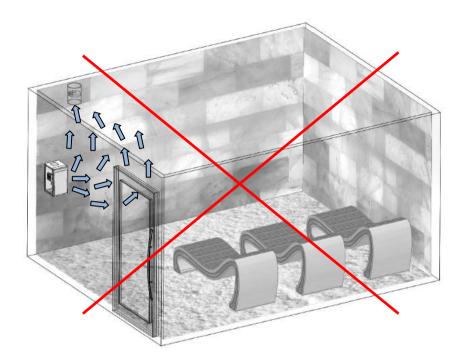


It is prohibited that external fan supply air in salt room circumventing halogenerator! In this case fan inside halogenerator must fight pressure drop created by air ducts plus pressure drop created by "aiding" fan. Effective air flow through halogenerator will be small and there will be no transport of salt dust from halogenerator to salt room. In extreme situations, if external fan is stronger than fan inside halogenerator, air flow through halogenerator can be reversed!

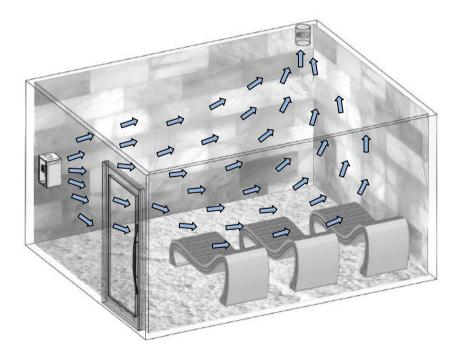


Installation Instructions

To have good distribution of salt dust inside salt room, halogenerator and exhaust orifice must be separated as much as possible. If they are close to each other, salt dust will mainly go to exhaust orifice, instead to spread across salt room.



Picture bellow is example of good configuration of halogenerator and exhaust orifice.



How to prepare session

1. Intake of salt.

Separate the grinder from the halogenerator body.

Prepare the salt for use. For proper operation of the device, salt must be dry.

If the salt is wet, it is necessary to heat it up for 5-10 minutes to 80°C in order to remove moisture.

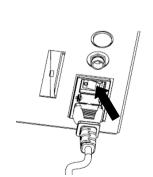
Pour the salt into the salt tank. Maximum allowable quantity of salt is 40g.

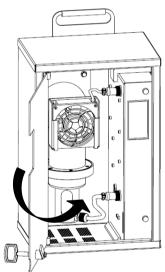
2. Switching on the device.

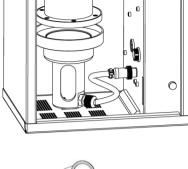
Close the door of halogenerator and lock them.

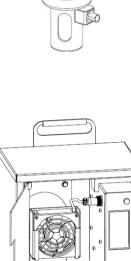
Turn the main switch on (position "1").

Note: The main switch is on the bottom of the control unit.









How to work

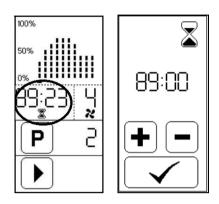
The unit is operated by pressing the command buttons on screen touch display. If you touch a command button, the unit will produce a short sound. This way, a user has both tactile and audible signs of operation.

Note: To avoid damaging the screen, please do not touch it with your fingernails or sharp objects, only with finger tip.

Description of icons on screen	
Session duration setup. Session duration is displayed next to the button.	X
Program selection.	P
Air volume setup.	x
Choosing session steps.	
Bar graph showing salt dispensing status during session.	100% 50%
Start the session.	\blacktriangleright
Pause the session.	
Quit the session.	
Increase the value of the selected parameter.	+
Decrease the value of the selected parameter.	-
Confirm settings.	\checkmark

1. To set up duration of session

Press button Ξ or displayed number for session duration. Device will enter session duration setup menu. Duration of session can be set by pressing $\textcircled{\bullet}$ or $\fbox{\bullet}$. Maximum duration of session is 99 minutes. Duration of session is displayed in the middle of screen.



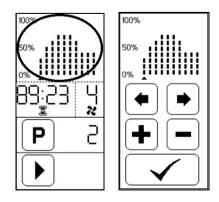
2. To set session program

Duration of session and salt dispensing mode can be stored among nine programs. Press button \bigcirc to select the program. Choose a program from 1 to 9 by pressing button \bigcirc . Each pressing button will advance selected program number to one, in sequence P1 - P2 - P3 - P4 - P5 - P6 - P7 - P8 - P9 - P1.

3. To set salt dispensing mode

Salt dispensing mode is displayed in the bar graph . Duration of session is divided into 10 equal time intervals. Each time interval is assigned to a bar graph column. Amount of dispensed salt may be adjusted from 0 to 100% of the capacity separately for each time interval.

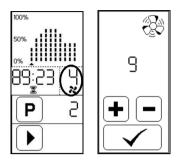
Press displayed bar graph. Cursor \clubsuit can be moved left or right bellow the bar graph by pressing the buttons $\textcircled{\bullet}$. Cursor must be placed bellow the bar graph whose value should be set. By pressing $\textcircled{\bullet}$ and $\textcircled{\bullet}$ it is possible to set the salt dispensing value from 0% to 100% in 10% steps. Press $\fbox{\bullet}$ to confirm.



How to work

4. To set air volume

Press button $\overset{\bullet}{\sim}$ or displayed number above. Device will enter air volume setup menu. Air volume can be set by pressing $\textcircled{\bullet}$ or $\textcircled{\bullet}$. Air volume value may be adjusted from 1 to 9. Press \checkmark to confirm.

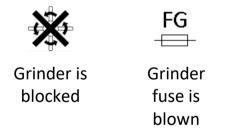


5. To start up the session

Press button \blacktriangleright to start the session. It will start if the door of the halogenerator is closed and locked and grinder is not blocked. The button \blacktriangleright will change into \blacksquare , and button \blacksquare will appear on screen. The countdown of the session starts. Cursor below the bar graph is moving during the session and shows the current step. When the time of session has expired, nebulisation will stop and notification buzzer will sound.

It is possible to adjust the salt dispensing mode and fan speed during the session. It is not possible to change the session duration if it is in progress.

If the grinder is blocked or fuse is blown, the session will not start and error description symbol will be displayed on the screen.



After fixing errors press button 🖌 and start the session again.

6. To pause the session

Session can be paused by pressing button \blacksquare . It will change into \blacktriangleright . Nebulisation and countdown will stop. Session will continue at any moment by pressing the same button. The session countdown will start from the current value.

7. To quit the session

Session can be interrupted at any moment by pressing the button \square . A splash screen will appear on the display. The latest settings of air volume and nebulisation rate will be displayed. Duration of session will return to the start value before the session.

At the end of the work day

At the end of the workday:

- ${f 1}$ Turn off the main switch (position "0").
- **2** Unplug the power plug from the electrical outlet.
- **3** Clean the halogenerator.
 - Note: It is important that you clean the halogenerator thoroughly at the end of the work day. Otherwise, salt will deposit on parts of device and will decrease the efficacy of the session and salt aerosol concentration.

In environments with increased humidity and/or air-conditioner deposition of salt may be increased than normally. In such circumstances, it is necessary to clean the device several times during the working day.

Salt deposits can cause malfunction or defects in the device.

In extreme cases salt deposits may obstruct fan or grinder and may damage the product parts (fan or grinder motor).

Before disassembly and cleaning, turn off the main switch and unplug the power cord from the electrical outlet.You may suffer an electric shock or injure yourself.

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General advice

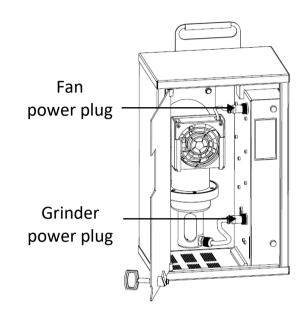
• Do not wipe the main unit with volatile chemicals, such as benzene or thinners.

1. Preparing for cleaning

Turn off the main switch (position "0") on the bottom side of device.

Unlock the door, take them by hand and open it.

Locate positions of power plugs for fan and grinder.



2. Disconnection of power plugs

Disconnect fan and grinder power plugs.

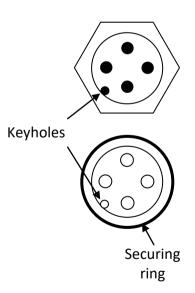
Plug disconnection is a two-step process.

- 1. At the top of the plug is securing ring, preventing plug disconnection. Take securing ring by fingers and rotate it GENTLY counterclockwise until you feel resistance.
- 2. Pull the plug gently.

When you disconnect the plug, observe the keyhole at the top of the connector.

Keyhole prevents wrong assembly of the plug.

Plug assembly should be made in reverse order of disassembly. Align keyhole of plug, GENTLY push plug in place and rotate securing ring clockwise until you feel resistance.



How to take care of product

3. Fan cleaning

Take the fan cage by hand.

Pull the fan cage up and remove it from the halogenerator case.

Wipe out any remaining salt on all fan surfaces with a dry brush.

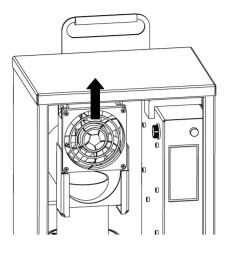
5. Grinder cleaning

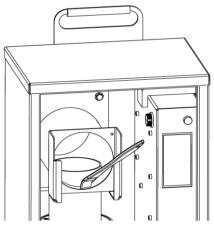
Hold the grinder flange by hand and slightly rotate the flange.

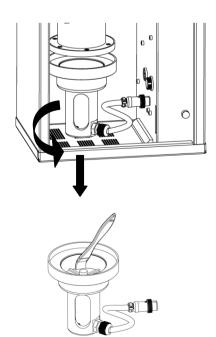
Pull the grinder down and take it out of halogenerator.

Clean all the surfaces of the grinder.

Do not forget to clean all the surfaces between the grinder and grinder flange.

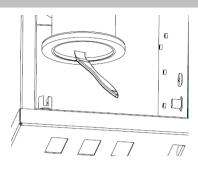






How to take care of the device

Use a long-stick dry brush to get rid of the remaining salt inside the outer vertical tube.



0 1

Sweep up the salt collected on the bottom of the halogenerator case through the holes.

6. Assembly

Assemble all the parts in reverse order of disassembly.

Dry up all metal parts immediately if they get wet during cleaning. • Metal parts may corrode.	0
Do not wash the product with water, or let water get into the power supply.Electrical leakage may occur in the unit or you may suffer an electric shock.	
Be sure to turn off the power and unplug the power supply when you install, remove, clean, or repair the device or take care of the parts.You may suffer an electric shock or injure yourself.Be sure that the plug can be easily removed from a socket outlet!	

Storing

If you do not intend to use the device for a period of time:

- 1. Be sure salt is thoroughly cleaned from the device.
- 2. Put a plastic cover over the salt filling hatch
- 3. Close the device.

Trouble	Where to inspect	How to correct
	Is the power plug plugged into a socket?	Plug the device into the socket correctly.
The display does not light up.	Is the main switch in position "1"?	Turn on the power switch (position "1").
	Have the switch fuses blown?	Replace the fuses.
Product does not produce aerosol.	Is there salt in the salt tank?	Pour salt in the salt tank.
	Is the fan power plug connected?	Connect the fan power plug.
	Is the grinder power plug connected?	Connect the grinder power plug.
	Is the grinder clean?	Clean the grinder.
	Is the halogenerator door open or unlocked?	Close the halogenerator door or lock them.
The display shows alarm "Grinder is blocked"	Inspect salt silts around and beneath rotating part of the grinder.	Use a small brush to carefully remove salt from the grinder and salt deposits collected beneath the grinder.
The display shows alarm "Grinder fuse is blown"	Has the grinder fuse blown?	Replace the fuse.

Troubleshooting

• If the unit does not operate normally after the above-mentioned measures, do not touch the internal mechanism and consult the store where you purchased the device or the nearest PRIZMA dealer.



Proper disposal of electronic waste (Waste electrical & electronic equipment)

This marking shown on the product or its labels indicates that it should not be disposed of with other household wastes at the end of its lifespan. To prevent possible damage to environment or human health from an uncontrolled waste disposal, please separate this from other types of waste and recycle it responsibly, to promote the sustainable re-use of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business user should contact their supplier and check the terms and conditions of purchase contract. This product should not be mixed with other commercial waste for disposal.

This product does not contain any hazardous substances.

Symbols



= Warning: read the instruction manual carefully



= Correct disposal of This Product



= Do not open! Session in progress!

DURING OPERATION



Manufacturer

: PRIZMA Kragujevac d.o.o. Kumanovska 8 34000 Kragujevac, Serbia

CE

Technical data

This device fulfils the provisions of the standard EN 60335-1.

060 hPa
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- Specifications and appearance are subject to change without prior notice