



COLLOIDAL SILVER GENERATOR

IONIC-PULSER PRO / Standard S

Manual



since 1997

Dear customer,

You have purchased a proprietary device that has been developed in cooperation with professional users. **Already in 1997**, Medionic GmbH was the first company in the German-speaking countries that made colloidal silver known to the public. In the meantime, almost all book authors work with our equipment and many silver solutions that are available in the mail-order business and in pharmacies are produced with it. Studies of several independent laboratories confirm our information about concentration and quality of the produced silver dispersions (model Standard S).

Ionic-Pulser is a protected trademark in Europe which is registered at the European Patent Office.

Attention: Similar designations do nothing have in common with our original equipment. These devices are also operating on the principle of electrolysis but not on the Ionic Pulser® system that makes possible exact concentrations as shown in the table below.

Please note that with conductance measuring instruments (TDS Meter) - even if they are calibrated in ppm - it is possible to determine real solutions such as salt solutions but not the concentration of metal dispersions, e.g. colloidal silver. The stated values in our table were determined and confirmed using complex laboratory measurement procedures.

IONIC-PULSER® - best results even with bi-distilled water - there are no additional measuring instruments required! - The device is automatically set to different water qualities and temperatures.

Preparation

The silver electrodes have to be inserted into the sockets **having a slant**. With a bit of sensitivity they are inserted automatically in the correct angle.



1. Heat distilled water (demineralised) in a metal or heat-resistant glass container until the boiling point, let it cool down for about 3 minutes, and then put it into a glass. Insert the silver electrodes into the sockets on the underside of the device. Put the device onto the glass. Important: The electrodes have to be covered almost completely with water (0.5 - 1 cm below the glass edge).
2. Connect the connection cable of the power supply unit to the device.
3. Plug in the power supply unit to a properly installed (100-240 volt) wall socket - the red indicator light lights up. The sensor on the device (red light) only responds when the silver electrodes are immersed in water. In order to terminate the production, the device must be removed from the glass. The time depends on the desired concentration (see table).

Higher concentrations of silver can make the water yellow/brown. This colour is evidence of high purity of the used water but not a measure for the concentration. Even at the same preparation time the colour of every solution varies. At higher concentrations, sometimes a black coating on the electrodes and on the bottom of the container arises. At low concentrations or short production time, these particles exist in the same ratio but they are not visible. Milky white/gray discolourations result from the use of tap or mineral water.

Do not drink!

A pure silver colloid can only be produced with highly demineralised (distilled) water. The purer the water the longer and more difficult the process. Therefore, many vendors of conventional devices recommend the additional usage of salt, mineral water, or tap water. Doing so, silver salts are created during electrolysis (with **every device**). They are less effective and can be deposited easier due to their larger particles (a granule of salt is already sufficient). Therefore, **DO NOT USE SALT** - the Ionic-Pulser requires no water additives! The production can also be done with cold water but hot water achieves a better quality.

In order to prevent black deposits in the production container, the process should be briefly interrupted at least after 15 minutes, just to wipe the silver electrodes. For a better dispersion of the silver particles it is also possible to stir with a non-metallic object, but not before 15 minutes. No metal or plastic containers can be used for production. High glasses with a volume of 0.1 -1 litre are suitable. Please note that during and after the production process the silver clusters shall continue dividing themselves (especially in hot water). Doing so, they reach their optimal size. In smaller containers (200 ml) better results are achieved at higher concentrations. Normal drinking-glasses are more suitable than unbreakable or heat-resistant glasses because the silver particles are less able to deposit on the glass walls.

Concentration

The silver concentration is given in parts per million, abbreviated "ppm".

ppm = ratio to determine the molecular presence of a particular substance (e.g. silver) per million parts in relation to another one (e.g. water)

In **conventional devices**, the production time depends on temperature, conductivity, quality of the used water, and the surface of the electrodes. The silver concentration is not regular and can achieve the multiple value in only twice the time of production. Stirring during production also changes the concentration.

The **Ionic-Pulser** compensates these factors. The silver concentration is the same for each type of water and proportional to the time of production, that is to say, doubled time = twice the concentration.

Concentrations (ppm) can be determined according to the table.*

Choose the amount of water in the horizontal line (size of the production container), in the vertical line below the desired ppm value, and read on the left side, on the same level, the production time.

Table for Ionic-Pulser PRO:

Zeit in Min.	Wassermenge in Liter										ppm
	1	0,8	0,7	0,5	0,4	0,3	0,25	0,2	0,15	0,1	
3	1	1,3	1,4	2	2,5	3,5	4	5	7	10	ppm
6	2	2,5	3	4	5	7	8	10	13	20	ppm
9	3	4	4,5	6	8	10	12	15	20	30	ppm
12	4	5	6	8	10	13	16	20	27	40	ppm
15	5	6	7	10	13	17	20	25	33	50	ppm
18	6	8	9	12	15	20	24	30	40	60	ppm
21	7	9	10	14	18	23	28	35	47	70	ppm
24	8	10	11	16	20	27	32	40	53	80	ppm
27	9	11	13	18	23	30	36	45	60	90	ppm
30	10	13	15	20	25	33	40	50	67	100	ppm
33	11	14	16	22	28	37	44	55	73	110	ppm
36	12	15	17	24	30	40	48	60	80	120	ppm
39	13	16	19	26	33	43	52	65	86	130	ppm
42	14	17	20	28	35	47	56	70	93	140	ppm
45	15	19	21	30	38	50	60	75	100	150	ppm
60	20	26	30	40	50	66	80	100	134	200	ppm
90	30	38	43	60	75	100	120	150	200		ppm
120	40	52	60	80	100	122	160	200			ppm

Table for Ionic-Pulser STANDARD S:

Zeit in Min.	Wassermenge in Liter										ppm
	1	0,8	0,7	0,5	0,4	0,3	0,25	0,2	0,15	0,1	
4	1	1,3	1,4	2	2,5	3,5	4	5	7	10	ppm
8	2	2,5	3	4	5	7	8	10	13	20	ppm
12	3	4	4,5	6	8	10	12	15	20	30	ppm
16	4	5	6	8	10	13	16	20	27	40	ppm
20	5	6	7	10	13	17	20	25	33	50	ppm
24	6	8	9	12	15	20	24	30	40	60	ppm
28	7	9	10	14	18	23	28	35	47	70	ppm
32	8	10	11	16	20	27	32	40	53	80	ppm
36	9	11	13	18	23	30	36	45	60	90	ppm
40	10	13	15	20	25	33	40	50	67	100	ppm
44	11	14	16	22	28	37	44	55	73		ppm
48	12	15	17	24	30	40	48	60	80		ppm
52	13	16	19	26	33	43	52	65	86		ppm
56	14	17	20	28	35	47	56	70	93		ppm
60	15	19	21	30	38	50	60	75	100		ppm
80	20	26	30	40	50	66	80	100			ppm
120	30	38	43	60	75	100					ppm

* When using bi-distilled water, the production time has to be extended for 3 minutes.

**Do not heat the silver dispersion during and after the preparation process!
Only stir after 15 minutes!**

At low concentrations colloidal silver is colourless and tasteless. At higher values a discolouration occurs. This discolouration may vary extensively at the same concentration. The higher the concentration the more intense the bitter metallic taste, regardless of the colour or the quality of the silver solution.

Storage of Colloidal Silver

The finished silver solution is usable for months but it is losing effect continuously. Colloidal silver with a large amount of positively charged ions is particularly effective and should be used as fresh as possible. In order to keep its optimal condition, the following advices have to be taken into consideration:

Do not store in plastic or metal containers but in dark glass bottles.

Do not place in electromagnetic fields (next to electric cooker, TV, stereo system, etc.).

Do not refrigerate but store in a cool place.

Care and Maintenance of the Equipment

The generator is completely maintenance-free. Clean only with a damp cloth and when the power supply unit is unplugged.

Remove deposits between the sockets occasionally.

Care of Silver Electrodes

Rub the silver electrodes with paper towels or a linen-cloth after every preparation process. Do not use silver cleaners or scouring pads! If possible, insert the electrodes always with the same end. Once the electrodes have the diameter of a pencil lead and could break off soon, they should be replaced. One pair of silver electrodes is sufficient for the production of about 600 litres 5 ppm or 120 litres 25 ppm colloidal silver.

Beware of replacement silver electrodes! Our standard size 2.5 x 75 mm or 2.7 x 82 mm has been copied several times by other manufacturers and imitations are offered as supposed original or universal electrodes. These products rarely meet the high purity and NEVER the hardness of the original. In order to produce accurate concentrations dense silver electrodes have to be used (hardness in accordance with specifications of the manufacturer). **The ends need to be rounded and sanded.**

Exact concentrations and optimum particle sizes can only be achieved with the original electrodes!

Repair Malfunctions

INDICATOR LIGHT OF POWER SUPPLY UNIT DOES NOT WORK - power plug has no contact, house fuse has gone.

DISPLAY OF THE GENERATOR DOES NOT WORK - The silver electrodes or the power supply unit are not plugged in correctly. The electrodes are not immersed in water.

SILVER SOLUTION HAS DISCOLOURATION AT SAME PREPARATION TIME - A different kind of water or different water temperature was used. The electrodes have been cleaned in another way. The preparation was made at different lighting conditions. There are slight residues of detergent or fat in the production container.

BUBBLES ARE ASCENDING ONLY ON ONE ELECTRODE - A SILVER CLOUD IS FORMING ONLY ON ONE ELECTRODE - ONLY ONE ELECTRODE IS BECOMING BLACK - This is completely normal in the electrolysis process.

WHITE OR GREY COLOURATION OF THE WATER - Mineral water or tap water has been used or salt has been added. Use water with the designation "distilled" or "demineralised". Do not add water additives.

Safety Indications

The device may only be operated with the original **30 volt IONIC-PULSER power supply unit**. Do not immerse the device in water. Therefore, use containers that have a substantially smaller diameter than the Ionic-Pulser. Persons with pacemakers should avoid direct contact with the electrodes or leave the operation to another person. Avoid contact between the active electrodes and the mucous membrane like it is done in the "tongue test" for batteries. Do not work on conductive surfaces (metal sinks, hotplates, etc.). The connected device must not be placed on such or wet surfaces. Do not operate the device unattended. After completion unplug the power supply unit. Keep out of reach of children.

Pure colloidal silver can only be produced with water that has the designation "distilled" or "demineralised". When using other types of water, also from household osmosis equipment, undesirable chemical compounds can be produced. Only the user is responsible for quality and purity. The field of application is also the exclusive responsibility of the user.

Disposal

Do not dispose the device with the normal household refuse. Information about environmentally suitable disposal may be obtained from the relevant department in your community.



Medionic Gerätebau, Radibor WEEE -Reg.-Nr. DE 60236950

Customer Service

Before you send a unit back to us, please check whether the malfunction can be repaired by your own, according to the information given in "Repair Malfunctions", or call us. Important: **Always enclose the power supply unit in your consignment.** Defective power supply units will be repaired. In case of replacement of a power supply unit a nominal fee of EUR 65.00 will be charged, since it is a customized design.

Unstamped repair consignments will not be accepted.
Warranty repairs only on presentation of proof of purchase.
24 months defects liability guarantee from date of invoice.

Included:

- 1 x Generator IONIC-PULSER
Model PRO or Standard S (5-58 volts)
- 1 x 30 Volt power supply unit
Special model for Ionic-Pulser
For connecting to 100-240 volts mains voltage
- 1 x 2 pieces of silver electrodes 2.7 x 82 mm
Degree of purity min. 99.99%
- 1 x Manual
- 1 x Storage tube for electrodes