

# NEW PRODUCT !

## Medical Ozone Generator for Cosmetology Medozons BM-02

### 1. Purpose

Medical ozone generator Medozons-BM-02 with a built-in low-flow multi-injectory unit is a modification of serial ozone machine MEDOZONS-BM. This modification allows performing both the “traditional” and new methods of ozone therapy, in particular subcutaneous injections of an ozone/oxygen gas mixture (in further the  $O_2/O_3$  mixture) at considerable volumes. This method is used in the treatment of large body surfaces damaged by local lipodystrophy. Thanks to its high efficiency this method is also called the multi-injectory “non-surgical” liposuction.

### 2. Construction Features

The main difference of the modified ozone machine from the serial one is that through a built-in low-flow unit it can deliver the  $O_2/O_3$  mixture at a low flow-rate from 5 to 10 ml/min. That allows introducing the  $O_2/O_3$  mixture into a problem area directly from ozone generator (by using a multi-injector for 5 needles, the flow-rate through each needle is 1-2 ml/min) thereby creating comfortable conditions for the patient.

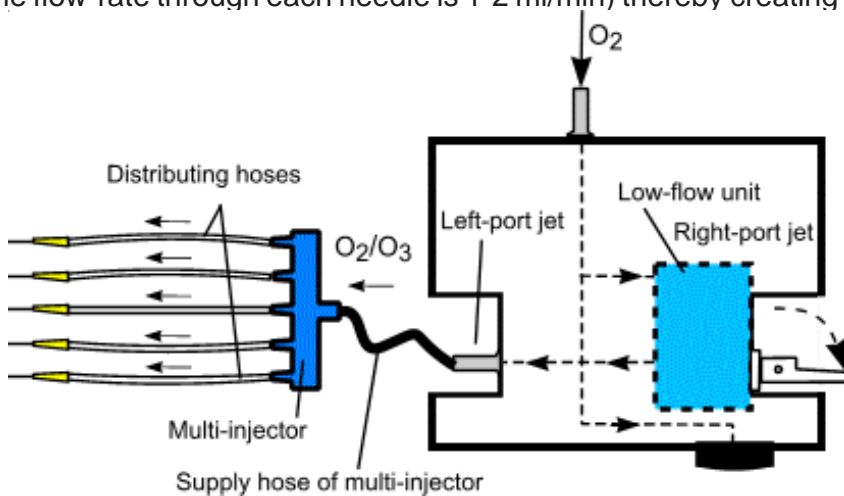
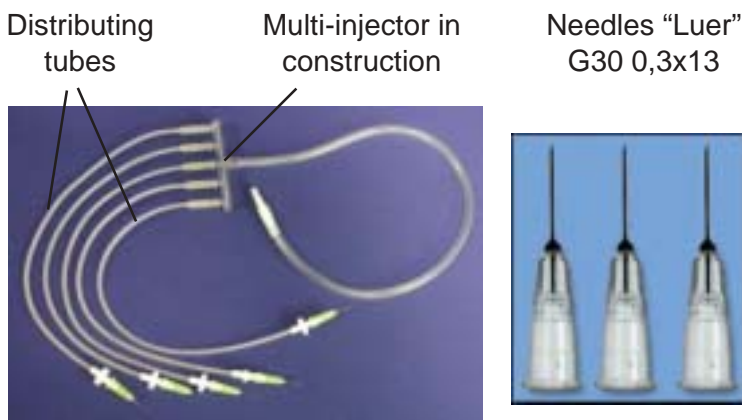


Fig. 1. Medical ozone generator MEDOZONS BM-02 with a built-in low-flow unit and multi-injector.

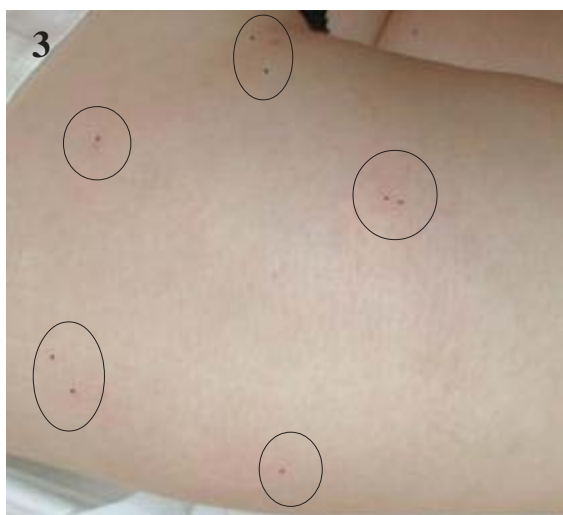
Fig. 1. demonstrates operation schema of medical ozone generator MEDOZONS-BM-02 with a built-in low-flow unit and multi-injector. Excess of the  $O_2/O_3$  mixture is removed to a destructor. For this treatment use the right-port jet of ozone generator, and the left-port jet must be closed with a screw cap.



The multi-injector is connected with the distributing tubes from the accessories set (order-No. 103\01), the distributing tubes are fitted with thin needles “Luer” G30 0,3x13 (order-No. 101\02).

### 3. Treatment Performance

- 3.1. Perform a preparatory massage of the problem area. Treat the problem area with 70% spirit.
- 3.2. Press the button “START”, remove protective caps from the sterile needles, apply the needles intracutaneously at an angle of 30° on a perimeter of the problem area at a distance of 7-10 cm from each other (Fig. 3). Within first 3-5 min of procedure the patient can feel slight expansion of tissues at the places of injections.
- 3.3. After 3-5 min at the place of injections it comes to slight hyperemia and hilliness of skin surface that can intensify to fusion of separate areas.



**Fig. 2.** Technique of introduction of the  $O_2/O_3$  mixture into the area of thigh: 1 - preparatory stage; 2 - performance of treatment; 3 - problem area after the treatment.

3.4. The introduction of the  $O_2/O_3$  mixture should be performed under strict control of medical personnel, and in case of fusion of hyperemia areas and/or hilliness of skin surface it is necessary to carry the needles on the areas without hyperemia symptoms.

3.5. The procedure lasts for 10-15 min, within this time 100-150 ml of the  $O_2/O_3$  mixture is introduced (4-7% of body surface is covered by treatment).

After the procedure perform manual or apparative vacuum massage of the problem area with ozonized olive oil for equal distribution of gas mixture through subcutaneous fatty tissue.

3.6. Within one procedure it is possible to introduce the  $O_2/O_3$  mixture into several problem areas through migration of needles (for example, from the right thigh to the left one), while the total time of procedure and volume of the  $O_2/O_3$  mixture introduced remains stable.

3.7. After the procedure it can come to crepitation (crunch) not only at the places of direct introduction of the  $O_2/O_3$  mixture, but also at remote areas that is not considered as a complication, but a successful result of treatment. Crepitation can last up to 2 days.

3.8. Advantages of this method in comparison with a syringe method are the following:

- An increase in clinical efficiency by 15-30%;
- A decrease in traumatology of skin covers through a decrease in the number of injections by 6-10 times;
- More equal distribution of the  $O_2/O_3$  mixture at the area of injections;
- No bruises and hematomas at the places of injections (Fig. 3-1).

#### 4. Contraindications / Limitations

4.1 Contraindications for treatment:

- Disturbances of blood coagulation;
- Thyroid diseases;
- Acute inflammatory diseases

4.2 To ensure no adverse effects during the treatment the following principles should be strictly followed:

- in case of local ozone treatments do not use any other medicament at the same place;
- at the beginning of a treatment course perform a trial procedure of ozone therapy in order to see the patients reaction.

4.3 Ozone therapy can be used in combination with any other pharmaceuticals (except anticoagulants) and with any other physical therapies not to be performed at the same time. The main reasons for rare side effects due to ozone therapy are the

improper technique of administration and incorrectly chosen dosage.

4.4 Ozone treatments can be performed both by physician and medical nurse, but first procedure must be performed under control of physician. The procedure should be immediately stopped if the patients condition gets anyway worse.

4.5 For treatment use only special equipment and accessories.

4.6 The treatment room should be equipped with plenum-exhaust ventilation, conditioner or window ventilator to ensure no inhalative exposure of ozone to the patient and medical personnel.

**Call us as soon as you need  
our help!**

+7-8312 / 167-067, 167-000



MEDOZONS LTD. \* Ul. B.Panina 9 \* 603089 Nizhny Novgorod / Russia  
Tel.: +7-8312/167 067 \* Fax: +7-8312/167 000 \* E-Mail: [export@medozons.ru](mailto:export@medozons.ru)  
Internet: <http://www.medozons.ru/eng>