

GIULIA MEDICAL
Finding Solutions

HUMARES® GmbH

Certified to DIN EN ISO 9001:2008/DIN EN ISO 13485:2003

Research, development, manufacturing and distribution of electro-medical devices

Ozone-Therapy-Devices

Colon-Hydro-Therapy-Devices

PO₂-Monitors

Innovative concepts of devices
with maximum of quality
...since more than 30 years

Welcome to Humares® GmbH

Sensitivity, Accuracy, Quality and not least Simplicity are the success metrics of Humares® GmbH (human research) which is located in the technology area Karlsruhe-Bruchsal. These foundation pillars lead to an over thirty year success story of its owner managed business. Since the business formation the Humares® GmbH stands for innovation, usability, durability, quality processing as well as excellent value for money. The central of every development are the patient safety and the short-term amortization.

German high-class craftsmanship and the pleasure of steady development have made us the market leader in our range. National and international patents, utility models as well as a vast number of certificates confirm the pioneering spirit of research in the Humares® GmbH, which always leads to new innovations.

We develop and manufacture exclusively in Germany in the technology area Karlsruhe-Bruchsal according to DIN EN ISO 9001:2008 and DIN EN ISO 13485:2003. Our range of products include medi-

cal ozone-therapy equipment, colon-hydro-therapy equipment, oxygen partial pressure measuring instruments, ozone photometers, instruments for environmental technology and special developments for research institutes of the universities domestic and abroad.

We distribute our products in more than sixty countries worldwide with qualified sales and after-sales-service partners. More than 4.500 customers in the clinic and practice area, industry and science rely on us for decades. Our customers have the assurance that they get free replacement units for the safety-relevant control (MPG) even after 25 years of operating time or repairs which are made available with a parcel service within 24 hours.

Humares® GmbH focuses on the essentials: Easy operation combined with maximum safety, usability, and all import functions for the practice.

Karl-A.Hübner
Geschäftsführer

The cost-saving solution for after-sale-services:

In case of an after-sale-service, we guarantee a next day delivery of an alternate device, whether you call until 2 pm.

That's how it works: phone call, notify device type, check address and the parcel service is on the way.

Maintenance:

According to MPG (Medical Device Act MDA) all devices have to be maintained regularly.

The devices can be forwarded by parcel service, thereby no transportation costs by our technician are caused.

The price for maintenance is fixed for all Humares® devices.

During the time of maintenance we provide you free of charge with an alternate device!

Humares®-guarantee:

24 months generator guarantee and 120 months ozone tube guarantee of all ozone-therapy-devices.








CE 0535

All Humares® ozone-therapy-devices are classified according to EU directive 93/42/EEG in IIb for medical products and certified by EU-ROCAT, the Institute and Testing GmbH with CE 0535.

All other Humares® devices are classified according to the aforementioned directive in IIa.



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HUMAZON® Ozone-therapy-devices

- Proven therapy
- Easy handling
- Optimal cost / quality balance

The highlights of Humazon® Ozone-therapy-device:

Patented ozone sampling valve

The sampling valve is the most important part of an ozone device and it must be protected against contamination. The patented HUMAZON®-ozone sampling valves are verified in avoiding pollution. Contrary to this, there are ozone-therapy-devices on the market, without any protection of the ozone sampling valve against pollution.



In times of non-use, the ozone valve is dust-proof and closed by a spring-type terminal.



By sliding the valve to right side, the valve opens and a sterile ozone-resistant filter can be easily inserted. Afterwards the mixture of ozone and oxygen can be withdrawn by the Sangiset® connection or with the ozone-resistant syringe.



If needed the valve can be removed counter-clockwise and the cone can be sterilized.

Further characteristics of Humazon® ozone-therapy-devices:

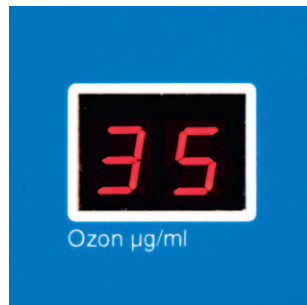
Simple handling, together with highest reliability, usability and important functions for the daily use, meet the criteria for the Humazon® ozone-therapy-devices.

Clean-Check



All Humazon® ozone devices are equipped with a Clean-Check system. When the device is turned on, all necessary functions are automatically checked. At presence of any problem such as no medical oxygen or gas leaking, the device does not work and an error signal is displayed. If there are no problems, all gas running hoses and pipes are cleaned with ozone-resistant syringe.

Adjustment of concentration



The concentration is adjusted by digital potentiometer and calibrated photometric for the whole range of concentration (0, 1, 2, 3,... to 70µ/ml or 0-80µ/ml).

Calculation of dose



In case of ozone-withdrawal the delivered ozone-dose is calculated automatically and shown on the display.

Vacuum pump



All Humazon® ozone devices are equipped with a vacuum pump. The vacuum system is connected to a thermal catalytic destructor, so unused or left-over ozone can be turned back to oxygen and released to ambient air. Also the vacuum pump can be used for drawing blood and bagging therapy. The suction power is displayed at a digital screen in millibars.

Sangiset®-combined infusion bottle

Ozone-therapy with Sangiset®-combined infusion bottle.

Sangiset® is a patented major autohaemotherapy set, that carries all necessary features for a perfect therapy. Sangiset® is a very light weight major autohaemotherapy set that is very simple to stock, stow away and dispense as medical waste. It is made of unbreakable and ozone-resistant material. It is integrated with:

1. Top extension with Luer-lock connection for vacuuming and ozone injection
2. Blood extension line with Luer-lock connection with a roller clamp
3. Blood filter
4. Two silicone injection plugs, the one on the top is detachable and the one at the bottom is fixed



Reliability

Extensive biocompatibility tests guarantee a safe everyday operation.



Autohaemotherapy with Sangiset®

The blood can be ozonated through the connection on the top of the Sangiset®-system.



Sangiperl-system

The blood can be gassed with the mixture of ozone and oxygen through the bottom injection valve of the bottle. A needle connected with a Humazon-extension is required. The blood will bubble in the bottle.

Seminars for ozone-therapy

Humares® organizes ozone-therapy seminars and workshops. The lecturers are worldwide famous ozone therapy experts. You receive a certificate of attendance.

Delivery and instruction



All devices are delivered and instructed by our medical device consultants.

Patient info leaflets / DVD



Patient informing leaflets are available for your waiting room free of charge. A DVD is provided for self-learning of the ozone-therapy.

Indication list

For any indication the corresponding concentration of ozone is shown.

HUMAZON® ProMedic

The most trusted ozone-therapy-device.

Suitable for all known ozone-therapies and usable as a wall-mounted or table device. Ideally with a device car and an one-hand operation I.V. pole and a holder for the oxygen bottle. The oxygen consumption is very low due to the compact construction method. (A 2-liter oxygen bottle lasts for approximately 400 major autohaemotherapies).

The device has a count-down timer for a continuous ozone withdrawal of 1 to 15 min. Thus a permanent clinical use is possible.

All highlights of Humazon® ProMedic are shown on page 4/5.



Data:

Ozone generator: Ozone concentration 0 up to 80 µg/ml +/- 5%
Gas flow: 600 ml/min.
Suction: Typical suction 6,5 l/min. and vacuum up to -400 mbar

The storage dish



All required utensils for the treatment, can be put down on the integrated storage dish.



Available with a device car

Suction bag treatment with timer



The gassing time can be adjusted by the integrated timer (1 to 15 min.). The bag fills itself with ozone. The ozone generator stops automatically after the chosen time.

The ideal ozone-therapy-device, usable for all ozone-therapies.

Areas of application:

- Major autohaemotherapy, as extracorporeal blood treatment
- Minor autohaemotherapy, as extracorporeal blood treatment and intramuscular injection
- Rectal ozone gas insufflation
- Intra articular injection
- Ozonized water
- Treatment of spider veins
- Subcutaneous injection (under the skin)
- Nasal inhalations
- Suction bag treatment
- Suction cup treatment
- Injection treatments with syringe (i.m./s.c./i.a.)



Nasal inhalation

For example: Paranasal sinusitis...



Major autohaemotherapy

For example: Blood circulation disorders, rheumatism, polyarthritis...



Intra articular injection

For example: Problems with articulators...



Minor autohaemotherapy

For example: Allergies as pollenosis, shingles...

Treatment of spider veins

Rectal ozone gas insufflation

For example: Colitis mucosa...

Subcutaneous injection (under the skin)

For example: For back pain...



Ozonized water

Approximately 60 sec. gassing-time according to the Humares®-system. For example: Oropharyngeal inflammations...

Injection treatments with syringe (i.m./s.c./i.a.)

For example: Lumbar spine problems...

Suction cup and Humaplast® treatment (for the skin)

Certain extremities can be treated by using the suction cup treatment or the Humaplast® treatment.

Start



End



Suction bag treatment with the Humares®-system

- Short gassing time
- Continuous ozone flow on the extremities
- Integrated ozone catalyst, odourless treatment
- No ozone left in the bag
- Cost-effective consume articles



Suction bag treatment



Humaplast® treatment

The efficient ozone-therapy device. Suitable for all surgeries, because it is lightweight, portable and space-saving.

The Humazona® is suitable for all well-known ozone-therapies. The oxygen consumption is very low due to the compact construction method. (A 2-liter oxygen bottle lasts for approximately 500 major autohaemotherapies). The Humazona® is available with a polished high quality steel one-hand operation I.V. pole.

All highlights of the Humazona® are shown on page 4/5.



Data:

Ozone generator: Ozone concentration 0-70 µg/ml +/-5%
 Gas flow: 300 ml/min.
 Suction: Typical suction 2 l/min. and vacuum to -400 mbar

Portable:

A special suitcase for home visits.

In case of home visits the HUMAZONA® can be easily transported in a special suitcase. For the portable use a 0,8-liter oxygen bottle is available (approximately 200 major autohaemotherapies).



Main differences:

Ozone concentration	Gas flow	Suction	Timer
HUMAZON® ProMedic 0-80 µg/ml	600 ml/min.	6,5 l/min.	available
Humazona® 0-70 µg/ml	300 ml/min.	2 l/min.	not available

The ideal ozone-therapy-device for stationary and ambulant ozone-therapy.

Areas of application:

- Major autohaemotherapy, as extracorporeal blood treatment
- Minor autohaemotherapy, as extracorporeal blood treatment and intramuscular injection
- Rectal ozone gas insufflation
- Intra articular injection
- Ozonized water
- Treatment of spider veins
- Subcutaneous injection (under the skin)
- Nasal inhalation
- Suction bag treatment
- Suction cup treatment
- Injection treatments with syringe (i.m./s.c./i.a.)



Rectal ozone gas insufflation
For example: Colitis mucosa...

Minor autohaemotherapy
For example: Allergies such as pollenosis, shingles...

Nasal inhalation
For example: Paranasal sinusitis...

Ozonized water
Approximately 60 sec. gassing-time according to the Humares® system.
For example: Oropharyngeal inflammations...

Intra articular injection
For example: Problems with articuls...



Major autohaemotherapy
For example: Blood circulation disorders, rheumatism, polyarthritis...



Treatment of spider veins



Injection treatments with syringe (i.m./s.c./i.a.)
For example: Lumbar spine problems...



Subcutaneous injection (under the skin)
For example: For back pain...

Start

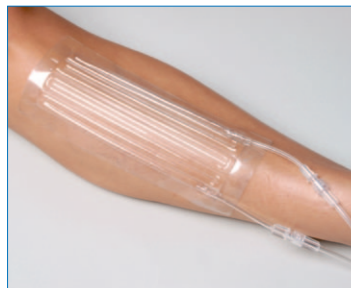


End



Suction bag treatment with the Humares®-system

- Local wound treatment
- Local cleaning of the wound by liquid
- Local vacuum ozone treatment
- Continuous ozone flow on the wound
- Integrated ozone catalyst, odourless treatment
- Long-term treatment, because of lockable connections
- Cost-effective consume articles



Suction cup and Humaplast® treatment (for the skin)

Certain extremities can be treated by using the suction cup treatment or the Humaplast® treatment. For example: Open wounds...



Humadent®

The practise-experienced ozone-therapy-device for dentists, with pure medical oxygen, operated by a foot switch: Ideally for syringe withdrawal and external ozone gassing by cannula.

All highlights are shown on page 4/5, but the Humadent® has neither a suction pump nor a calculation of the ozone-dose.

Areas of application:

- Cavity gassing treatment
- Root canal treatment
- Peridental inflammation
- Gingivitis
- Stomatitis
- Aktinomycosis
- Aphtha
- After treatment of Granulom and implant
- Ozonized water
- Syringe applications
- Minor autohaemotherapy, as extracorporeal blood treatment and intramuscular injection



Data:

Ozone generator: Ozone concentration 0-70 µg/ml +/- 5%
Gas flow: 300 ml/min.



Humadent® Unit

The optimal ozone-therapy-device for holistically working dental surgery, with pure medical oxygen, operated by a foot switch: Suitable for all treatments of the ozone-therapy.

All highlights are shown on page 4/5.

Humadent®-Unit:

Identical to the ozone-therapy-device Humazona®, provided with a foot switch.



Data:

Ozone generator: Ozone concentration 0-70 µg/ml +/- 5%
Gas flow: 300 ml/min.
Suction: Typical suction 2 l/min. and vacuum to -400 mbar



PO₂-monitors for measuring the oxygen partial pressure

Classical possibility for short-time measurement of oxygen supply of the patient.

TM 300 T

- Transcutaneous (bloodless) oxygen measurement
- LCD-display
- Electronic temperature adjustment
- Temperature cutoff
- Measuring zone from 40 to 199.9 mmHg (+/-2mmHg)
- Cabel break cutoff
- Timer
- Robust sensor technique
- Short-time measurement
- Certified medical product (CE 0535)



TM 300 T-Unit

TM 300-Unit

- Transcutaneous (bloodless) and cutaneous (bloody) oxygen measurement
- LCD-display
- Electronic temperature adjustment
- Temperature cutoff
- Measuring zone from 40 to 199.9 mmHg (+/-2mmHg)
- Cabel break cutoff
- Timer
- Robust sensor technique
- Short-time measurement
- Certified medical product (CE 0535)



Accessories box with instruction

- Elektrolyte
- Thermic contact fluid
- Double-side adhesive rings
- Foil dispenser
- Calibration gauge
- Preparatory
- Clamping ring



Humacolon®

The unique concept for colon-hydro-therapy.

For cold water connection: The integrated boiler heats the irrigation liquid up to the chosen temperature.

By the integrated pump the irrigation liquid can be sucked out of a canister. Therefore this device can be used for ambulant treatments.

- Preselection of temperature
- Filling pressure measurement
- Volume measurement
- Variable pump pressure
- Integrated boiler
- Temperature control

Data:

Water flow:	0 to 0,5 l/min.	
Water temperature:	22°C to 40°C	(adjustable)
Hot water alarm:	above 42°C	(fixed)



Humacolon® Pulsar + Ozone

The unique pulsed concept for colon-hydro-therapy with oxygen or ozone delivery directly into the irrigation liquid.

It has the same functions as the Humacolon® device, with essential additional functions. The Humacolon® Pulsar can pass oxygen or ozone directly into the irrigation wire. The raised gas bubbles are visible in the irrigation wire. The volume of gas is adjusted from 50 to 300 ml. The pulsar induce vibrations in the irrigation wire and in the colon. The frequency of the pulsar can be optimally adjusted.

- Preselection of temperature
- Filling pressure measurement
- Volume measurement
- Variable pump pressure
- Integrated boiler
- Integrated ozone generator
- Delivery of oxygen
- Variable pulsar
- Variable volume of gas 50 to 300 ml
- Temperature control



Data:

Water flow:	0 to 0,5 l/min	
Water temperature:	22°C to 40°C	(adjustable)
Hot water alarm:	above 42°C	(fixed)

The small and well-priced colon-hydro-therapy-device for cold and warm water connection, with all functions of a modern colon-hydro-therapy-device.

Areas of application:

- Abdominal fullness
- Infections
- Neurodermatitis
- High blood pressure
- Vitality deficit
- Tiredness
- Constipation
- Dry skin
- Rheumatism
- Allergies
- Migraine
- Lack of concentration
- Depression



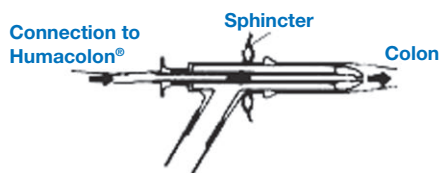
Place-saving by wall-fastening.



Easy handling by foot switch.

The new patented Humacolona®-speculum works like a 3-way-valve. The speculum is guided into the anus in closed position, odourless. The irrigation liquid is directly administered to the patient through the integrated wire. No venting after the first irrigation cycle.

Start of the therapy



End of the therapy



The Humacolona® is provided with cold and warm water by a protection scheme with a cutoff valve and a quick coubling. The drain hose is fixed at a suitable adapter, as used for washing machines. That's all for a quick installation.



Filling pressure

The filling pressure of the water can be individually varied, as well as read on the gauge.

Volume measurement

The quantity of liquid used during the colon treatment can be measured exact to the milliliter. Thus the volume of liquid used during each cycle is visible.

Temperature indicator

The maximum adjustable temperature of the irrigation liquid is 40 °C. The maximum temperature is electronically controlled.

Foot switch

The control by the foot switch permits a manual massage during the irrigation cycles.



Data:

Water flow:	0 to 0,6 l/min.	
Water temperature:	22°C to 40°C	(adjustable)
Hot water alarm:	above 42°C	(fixed)

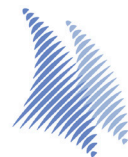


Patient info leaflets / DVD

Patient informing leaflets are available for your waiting room free of charge. A DVD is provided for self-learning of the colon-hydro-therapy.

Seminars for colon-hydro-therapy

Humares® organizes colon-hydro-therapy seminars and workshops. The lecturers are worldwide famous colon-hydro-therapy experts. You receive a certificate of attendance.



GIULIA MEDICAL
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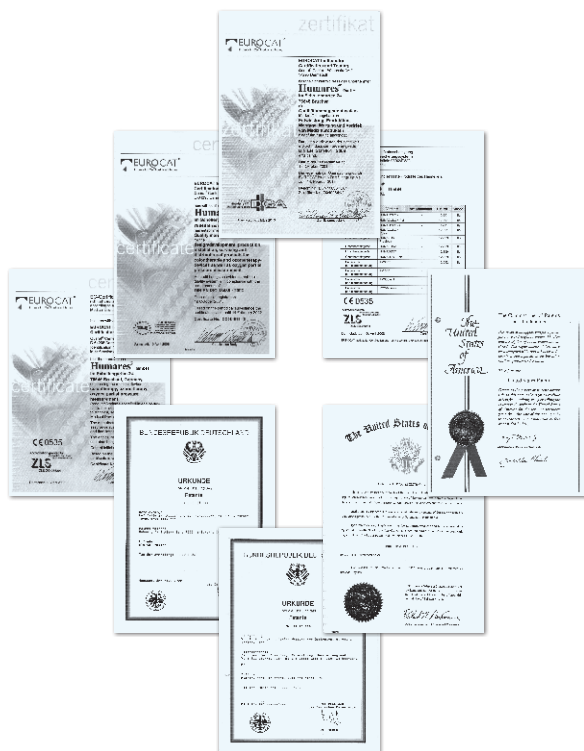
Zertifiziert nach DIN EN ISO 9001:2000/DIN EN ISO 13485:2003

Medizin-Technik vom Erfinder
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...Several patents, certificates and independent reports confirm our ingenuity and quality awareness.