



## GASEOUS CRYOTHERAPY

### Operating Manual V4

OM 280714

## SUMMARY

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## APPENDIX 2. TREATMENT PROTOCOLS

In the present manual, you will find the following symbols.



**DON'T THROW IN THE DOMESTIC WASTE:** Affixed to the product itself and in this manual, this pictogram indicates that batteries and electronics must be separated from household waste. To enable the treatment, suitable recovery and recycling of batteries and old equipment, please take them to one of the assigned collection points, in accordance with national legislation.



**CONSULT THE OPERATING MANUAL**



**WARNING**



**OPERATING MANUAL**

## 1. WHAT IS EASYCRYO?

**EASYCRYO** is a multipurpose cryotherapy device. It was designed for optimal use for all circumstances.

The cryo diffuser device can fit in two simple ways:

1. The trolley mode for internal use (office, hospital, clinic, rehabilitation center, locker room)
2. The backpack mode for external use (sport fields, arenas, competitions)

**EASYCRYO** works with refills of medical carbon dioxide.

**EASYCRYO** device is comprised of:

- A cryo diffuser with a high pressure cable
- A set of three interchangeable nozzles
- A handle to move and support the diffuser

- A removable high pressure fitting to screw on the cylinder valve for connection with Cryo diffuser ●
- A Battery charger

-  **WARNING: Only for use only with EASYCRYO battery.**

## THE CRYO DIFFUSER



The **cryo diffuser** is comprised of a box with an ambidextrous handle allowing the device to be used by a righthanded or lefthanded person.

1. The multifunction switch allows control:
  - a. The infrared thermometer function even without cold diffusion.
  - b. The cold diffusion function with simultaneous control of the skin temperature for a sequence of 30 seconds or 90 s with automatic stop at the end of this sequence.
  - c. The stop button function at every moment.
2. If not used for one minute, the battery supply is automatically interrupted.
3. On the cryo diffuser device, a backlit LCD screen will display skin temperature and processing time.

To switch between Celcius and Fahrenheit, press simultaneously the “I” and “O” buttons.

4. On the front of the cryo diffuser device there is the infrared sensor and an adaptation head enabling the use of three interchangeable nozzles and of the treatment head for direct skin contact.
5. The three nozzles have different diameters (**small/gold, medium/grey and large/black**) which enable to adapt to all body parts.
6. On the back of the cryo diffuser device, there is the connection port for the battery charger.

## 2. TECHNICAL SPECIFICATIONS

### CRYO DIFFUSER:

- ✓ Dimensions: 4.3 in x 10 in x 2 in
- ✓ Weight: 1.2 lb
- ✓ Backlit alphanumeric LCD screen
- ✓ Infrared sensor for temperature
- ✓ Rechargeable integrated batteries Li-ion (7.2 V DC)
- ✓ Aluminum interchangeable nozzles
- ✓ Shielded cord in polyurethane: 15 ft
- ✓ Quick link in stainless steel secure high pressure
- ✓ Battery charger: 100/240V 50/60HZ -12v -1A

-  **WARNING: Only for use only with EASYCRYO battery.**

- ✓ Works with refills of medical carbon dioxide

### CONDITIONS OF STORAGE AND USE:

- ❑ **TEMPERATURE OF USE:** BETWEEN 59°F AND 95°F
- ❑ **TEMPERATURE OF STORAGE:** BETWEEN 67°F AND 300°F
- ❑ **HUMIDITY OF USE:** 45% to 85%
- ❑ **HUMIDITY OF STORAGE:** 5% to 95%

## 3- INSTALLATION

**Easy Cryo**, A box containing:

- A diffuser
- Three nozzles
- A charger
- A high pressure switch

### INSTALLATION OF THE CO2 TANKS

1. Check the conformity of the bottle, and find the label with the word siphon (siphon tube). In the absence of tube diver, your hardware will not work (except for the 5 lb tank using our tank holder). 2. Remove the safety lid from the top.
2. Screw in the high pressure connection with a washer in between the connection and the tank.
3. Clip the hose from the device to the high pressure connection already attached to the tank. 4. Open the cylinder valve a half turn, it is not necessary to open it completely, the cryo diffuser device is ready.

Once the installation of your EASYCRYO equipment is complete, It has been designed to make the practitioner autonomous and available for his/her patient.


 **WARNING: DO NOT DISCONNECT THE CRYO DIFFUSEUR FROM THE BOTTLE BEFORE CLOSING THE VALVE AND THEN DRAINING THE CO2 REMAINING IN THE HOSE BY TURNING ON THE DEVICE UNTIL ALL THE CO2 IS OUT.**

## 4- OPERATION

Take the Cryo diffuser in hand.

1. Before using the device, choose one of the three interchangeable nozzles or direct skin contact head depending on the type of care and area you want to treat. Simply screw the one you choose onto the front of the diffuser.
2. The first pulse on switch ( **I** ) turns the device on and allows a skin thermo diagnostic, without producing cold, by a sweep of the area, at a distance of about 6 inches.
  - a. The skin temperature detected by the infrared sensor is displayed on the screen, confirmation of an inflammation in this area is then detected.
3. Clicks on the ( **0** ) button will give you the choice of the session time ( 30s/60s/90s/massage/continuous )
4. A pulse on switch ( **I** ) allows the production of cold at -110 ° F simultaneously with the display on the screen lowering the skin temperature for continuous monitoring.
  - a. The screen also displays the processing time.
5. Automatic disconnection occurs after the end of the selected cycle
6. At any time, a pulse on switch **Q** will interrupt the spread of cold.
7. A long pulse on switch **Q** turns the unit off.
  - a. If unused for one minute, the device will transition to sleep mode.

**\*\*All commands and data are centralized on the cryo diffuser\*\***

 **WARNING: THOUGH THE SUGGESTED APPLICATION DURATION IS 30 SECONDS, THIS IS ONLY A BASE LINE. ACTUAL DURATION OF USAGE WITH PATIENTS DEPENDS ON, PATIENT REACTION AND SKIN TEMPERATURE. SOME AREAS REQUIRE MORE OR LESS APPLICATION TIME. THE USER MUST CLOSELY MONITOR THE RESPONSE OF THE PATIENT AND THE SKIN TEMPERATURE ON THE DISPLAY SCREEN. A THOROUGH READING OF PAGES 12 OF THIS MANUAL IS ESSENTIAL BEFORE DIRECT USE ON A PATIENT.**

The **EASYCRYO** device offers you a dry cold (110 °F) by the renowned phenomenon of physical relaxation using CO2 gas. The cold air made available allows for quick and efficient treatment or supplemental care. The uniqueness of this material is the versatile design permitting easy use for any situation. So, you can quickly convert your cryo diffuser into trolley mode for office use.

#### **THE CRYO DIFFUSER RUNS ON RECHARGEABLE BATTERIES.**

- The autonomy of using rechargeable batteries is approximately four hours of continuous streaming.
- The second line on the screen indicates the battery level, 4 blocks means 100%, 3 blocks 75%, 2 blocks 50% and 1 block 25%.
- The last line on the screen indicates the choose mode ( 30s, 60s, 90s, massage or continuous )
- The blue light turns on when you reach a therapeutic temperature
- The red light turn on continuously when the temperature gets below 32F
- The red light flashes when you are too close, if you stay too close for more than 3s, the spray will stop automatically.



**Before disconnecting the cryo diffuser from the CO2 tank, it is crucial to follow this procedure:**

You will know that your bottle is empty when the CO2 coming out of the diffuser is not white and therefore much less cold. A bottle is empty even though there is still transparent gas

1. Close the tank, then purge the remaining CO2 gas in the hose by giving two successive pulses on switch ( 1 ) until diffusion completely stops.
2. You can now disconnect the high pressure outlet at the end of the bottle safely.
3. **EVEN IF TANK IS EMPTY THE OBLIGATION TO PURGE BEFORE DISCONNECTING THE DIFFUSER IS REQUIRED.**

*Note: When changing bottles, do not forget to grab the high pressure fitting.*

## 5- USE ON THE PATIENT

**WARNING: BEFORE USING THE DEVICE, THE CONSUMER MUST READ THE SAFETY PRECAUTIONS AND WARNINGS LOCATED IN SECTION 4 (OPERATION).**

- A. Scope and dry the area to be treated.
- B. Give one pulse on switch ( I ) and the position cryo diffuser perpendicular to a skin area at a distance of about 6 inches. Once the displayed skin temperature reaches about 89 ° F (normal temperature). Perform a scan to explore the zone. If the temperature increases substantially it is a sign of inflammation. **This phase of thermodiagnosis is performed without producing cold.**
- C. While remaining perpendicular to the treatment area, the cryo diffuser should be at approximately 10 inches from the skin. Give a second pulse on switch ( I ). Spread the cold and always remain perpendicular, slowly bring the device closer to the skin until visualization of micro crystals. Then make a slow scan at about 4 inches from the skin.

The device is equipped with 2 Led, the blue one light up when you reach a therapeutic temperature ( 46.4F ), the red one light up when you are getting too cold (32F) and need to move to an other area or increase the distance from the skin.

- D. To stop the spread of the cold as soon as the desired temperature reduction is sufficient press switch ( O ).
- E. The duration of a typical application should not exceed one minute.
- F. The application does not have to be painful for the patient, if that is the case, stop the treatment.

### USE OF THE DIRECT SKIN CONTACT TREATMENT HEAD:

- Screw the contact head on the front of the cryo diffuser.
- Choose the massage option by clicking 3 times on the 0 button while the device is on
- Click once on the ( I ) button, with the contact head NOT in contact with the skin, it will cool it for 3s
- Check on the palm of the hand for the obtained temperature.
- Perform a massage of the concerned area with the head. Do not remain static and do not apply pressure .

**WARNING: NEVER STAY IN A FIXED POSITION AT ANY POINT AND NEVER ALLOW THE MICROCRYSTALS TO ACCUMULATE ON THE SKIN.**

## 6 - PRECAUTIONS FOR USE - WARNING

**EASYCRYO is safe and poses no risk under normal conditions of use. The technical requirements of control and security, the recommendations in this manual will enable an appropriate and effective use of this device.**

### SPECIFIC RECOMMENDATIONS:

- Check that the bottles are closed before connecting the cryo diffuser.
- Never disconnect the cryo diffuser without first closing the bottle and then draining the unit. ● Use only the supplied battery charger.
- Ensure maintenance of cables and various fittings. Do not bend the cable or subject it to shock or sharp surfaces (doors, car, boots etc.). If there is a leak in the cable or connectors do not try to repair it yourself, report it to the manufacturer.
- With prolonged use, you must aerate the room or provide ventilation.
- The CO2 should never be spread on mucous membranes or eyes.
- Check that you do not lower the skin temperature below 32°F during the treatment. ● Do not spread the cold in a static way, always spread by scanning and with respect for a minimum distance of 4 inches from the skin.
- Never leave the direct skin contact head on one point.
- Always use a clean contact head.
- Respect the cons: Allergies to cold, Raynaud's syndrome, Cryoglobulinemia, circulatory disorders, skin sensitivity, arthritis.

- Ensure that the treated areas are completely dry to avoid frostbite.
- Refer to the precautions described in the specifications of the CO2 medical provider, together with the operator manual.

**WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS OR INAPPROPRIATE USE OF THE DEVICE MAY LEAD TO SKIN INJURIES. THE MANUFACTURER INFORMED THE USERS THAT THIS UNIT MUST BE USED IN THE STRICT FRAMEWORK OF THEIR PROFESSIONAL QUALIFICATION. IN CASE OF USE BY UNAUTHORIZED PERSONS, THE MANUFACTURER DENIES ANY RESPONSIBILITY.**

## 7- MAINTENANCE AND SECURITY

**Maintenance operations are fast and common; however do not neglect to perform regular maintenance for the unit to ensure a proper working condition.**

- ❖ Please recharge your cryo diffuser regularly **USING ONLY THE BATTERY CHARGER** provided by the manufacturer.
- ❖ Using your device when batteries are low, allows for ineffective temperature treatment and control treatment, and does not match the intended use by the manufacturer.
- ❖ Cables and connections shall not be subject to shocks that could damage their reliability. However, if you notice damage or a leak do not try to repair yourself and do not use any part that is not provided by the manufacturer. Report any damages to our technical department.
- ❖ Cleaning the cryo diffuser can be done with soap and water. **Do not use solvents and do not immerse the device in water.**
- ❖ The cleaning of the contact head should be performed after each use with the usual cleaning agents in the medical field.
- ❖ Always drain the cable before disconnecting the cryo diffuser.
- ❖ When replacing tanks, check that valves are free of dust, twigs, metal chips, etc., which may block the system.
- ❖ Ensure to change the hose every 5 years to prevent leakage or appearance of pores. **Procedure performed by our customer service.**
- ❖ Make sure to report any unusual or significant drift of the accuracy of the displayed temperature for verification by our technical service.
- ❖ **ALL REPAIR OPERATIONS ARE PERFORMED ONLY BY OUR TECHNICAL SERVICE.**
- ❖ **EASCRYO PRODUCT IS NOT INTENDED TO BE REPAIRED OR MODIFIED BY PERSONS OTHER THAN AUTHORIZED STAFF BY COMPANY EASY CRYO.**

## 8- GENERAL CONDITIONS OF WARRANTY

**EASCRYO** is guaranteed against defects in construction or defects in materials to conditions set out below.

We guarantee our material for a period of 2 years for the first user, from the date of invoice from the manufacturer. During this period we accept to exchange or repair, free of charge, any defects we deem a problem, however the full exchange of the device can be required. Travel costs and the possible transportation for the departure and the return of the equipment or spare parts in the workshop of service sales are not part of this warranty. The warranty is valid if the completed component was shipped to us within fifteen days after the commissioning and for any country whatsoever.

### **THE GUARANTEE DOES NOT APPLY IF:**

- Damage sustained during transport. The devices travel at the risk of the recipient. It belongs to the consumer. Make sure it's in good condition.

- Failure to observe proper installation and use of this manual, default maintenance, using a charger other than the one supplied.
- Resale of the device.
  - Modification, accessories assembly or equipment disassembly and in general all information not provided in this manual and performed on equipment by a customer or a third party.
- Use of inappropriate consumables.
- Abnormal deterioration of cables and connectors.
- Fall, fire, immersion, lightning.

Changes and repairs under the warranty do not affect the length of the warranty. Replaced parts become our property. No compensation can be paid for loss of use.

The buyer is required to give us the time and the means to make all repairs and supplies parts replacement detached otherwise, we are released from our warranty obligations.

By express agreement, no liability is accepted for any use beyond the scope of vocational qualification or misuse of the device.

The Commercial Court of Montpellier (France) has exclusive jurisdiction in the event of different and this despite any assignment clause of different jurisdiction which may occur on commercial invoices of the contracting parties.

America Cryo

[www.AmericaCryo.com](http://www.AmericaCryo.com)

Need help? Call 818-934-4454

**BACK GUARANTEE VOUCHER**

**NAME** ..... **FORNAME** .....

**ADDRESS**.....

**CITY** ..... **POSTAL CODE** .....

**SERIAL NUMBER**.....

**DATE OF SALE** .....

**STAMP**