



cryoalfa@cryoswiss.com

FAQs on CRYOALFA

1. Can CRYOALFA (working with Liquid freezing system by N_2O) be used instead of the liquid nitrogen in every case?

*Descending from abstract "Liquid freezing in Aesthetic Dermatology" by Prof.Dr.Hundeiker: and especially N_2O must not be underestimated simply because it does not reach temperatures as low as those reached by N_2 .
The range, not the effect within the effective range, is smaller.
Our newest development – bundling of micro-capillaries means that the cryogenic capacity can be increased by a corresponding multiplicity, bringing it close to the cryogenic capacity of N_2 .*
2. Is the indication for treatment with CRYOALFA the same as the indications for treatment with liquid nitrogen?

*Descending from abstract "Simplified technology for cryotherapy"*** by Prof.Dr.Hundeiker: The method is as comparably effective as therapy with N_2 in important dermatological day-to-day indications, e.g. small capillary hemangiomas, papillomas, keratoses, basilomas, naevis, verrucae vulgares, angiomas.*
3. Who is likely to be the customer to buy these products? Only dermatologist and gynecologist?

The buyers our CRYOALFA devices are dermatologists, urogynecologists, general practitioners, veterinarians, aesthetical surgeons, medical chiropodists, practitioner of medicine, pediatricists, and as well for the dentists.
4. Does CRYOALFA have to be handled by professional doctors or can it be done by patients themselves?

Cryotherapy belongs in the hands of physicians. If the diagnosis' physician is secured and there are no cancer cells areas, can also be treated by medically trained personnel.
5. Who are your major competitors?

Our CRYOALFA devices based on our "Liquid freezing"-system with N_2O is patented worldwide. Cryoswiss is the sole owner of all industrial property rights and commercial rights for the "Liquid freezing"-system with N_2O and exclusive distributor of the different small N_2O cartridges with an inbuilt filter and/or cartridges with inbuilt filter and valve in each cartridge produced solely for Cryoswiss/Switzerland by LINDE AG.
6. How many treatments can be implemented with one cartridge of 16g N_2O ?

*With one cartridge several lesions or patients can be treated at a relatively low cost.
One cartridge provides approx. over 8 minutes cooling power without interrupting the N_2O flow.*
7. Why is treatment with Liquid freezing more favourable than laser treatment in many cases of every-day skin lesions?

FAQ's on Cryoalfa

Most every-day skin lesions can be treated at least so well, better or more simply than with laser. Expectations of the physician and patient should not be set too high. Laser is not a miracle drug. For example, laser therapy is not suitable with pigmented skin changes, in the preliminary stage of skin cancer (precancerous tissue) and skin cancer.

8. What technical set-up do CRYOALFA devices offer in getting reproducible results ?

CRYOALFA works with the following parameters in getting reproducible results:

- a) constant temperature of -89°C/-128 °F ****
- b) refrigerating capacity around 18-22 watt*
- c) freezing speed around 100k/min*
- d) constant pressure about 50 bar till the cartridge is empty*

9. How many treatments will it takes to remover a lesion?

As a rule only one freezing is sufficient to remover a lesion.

10. What is the shelf life of cartridges?

Supply and storage of small cartridges is simple; store at room temperature (not above 50 °C), not much space is required, problem-free unlimited storage of coolant cartridges.

After storage of one year the cartridges have a gas loss of about 5% due to technical reasons.

11. What are the main advantages of both models devices "CRYOALFA CONTACT" and the other models of CRYOALFA therapying with the liquid phase of N₂O instead of having all in one?

If you are in possession of a CRYOALFA CONTACT device or CRYOALFA LUX or Cryoalfa-S ,you can purchase the corresponding dispenser you need separately.

- 12 . Are training programs and after sales services provided ?

We have a training/procedure video (in preparation). Cryotherapy with CRYOALFA is a simple practised art of treating and with your increasing experience, you will soon get good results .

13. Which purity does the refrigerant N₂O use for CRYOALFA devices?

Our cartridges with an inbuilt filter contain sterile gas (medicinal gas sterile-filtered to 5µ, free of Detritus).

These are produced by LINDE AG exclusively for Cryoswiss/Switzerland .

14. Is there any scarring after treatment ?

*Skilled cryotherapy is often impressively scar-free and brings inconspicuous results .**

15. How long is the treatment?

It is a matter of experience. When first using CRYOALFA therapying on yourself, on your handback for 1-2 seconds to see and feel the results.

To consider: we archieve after freezing for 12 sec a diameter of 10 mm and a tissu's depth of 3 mm. There are -40°C by 100 k/min freezing speed.

This temperature is necessary for the wanted tissu's destruction (maligne or benigne cells).

16. Why was the treatment not successful ?

The N₂O was not in contact with the tissue to be treated long enough .

FAQ's on CRYOALFA

To Consider: The white ring (halo) of frozen tissue should remain visible for 2-3 seconds after the treatment.

17. Why did blisters formed after the treatment ?

The treatment was probably too deep and too long. Cover the blister with a plaster.

18. Why is a "second freezing" necessary?

It is recommendable to repeat the treatment after 1 minute.

To consider: the ice ring will form faster, therefore the treatment time should be reduced.

19. What is to do when the patient is feeling extreme pain?

If the treatment was too deep and too long. Oversensitive patients may report that they are in pain.

To consider: Tell and reassure them that a few seconds after the treatment the stinging (burning) situation will be gone and that they don't scratch.

20. Why don't the other cryotherapeutical products (Histofreezer, Freeze off, Freeze away, Wartner) based on evaporation liquid cryogenics gas mixture effect successfully ?

The specified of temperature of $-55\text{ }^{\circ}\text{C}$ is completely theoretical. At best, this temperature is reached only one second after the dabber impacts the skin surface. Immediately after the Histofreezer's liquid cryogenic gas mixture impacts the surface, the temperature quickly rises to $0\text{ }^{\circ}\text{C}$. The bottom line: users do not have a fixed temperature parameter, which is a prerequisite for obtaining repeatable results. An attempt has been made to iron out this dilemma by increasing therapy times to 20 seconds and repeating the therapy any number of times. Professor Hundeiker's reaction to this is very clear: nonsense, irresponsible propaganda!

References:

* Der Deutsche Dermatologe 1.2003 - Cosmetic Corner **Attention ! Copyrights !**

** tägl.Praxis. 42 +-++(2001) Hans Marseille Verlag GmbH München

Attention Copyrights !

*** Hundeiker M, Sebastian G, Bassukas ID, Ernst K – **Cryotherapy in the dermatology** –

In: Koring HC, Callies R, Reusch M, Schlaeger M, Schöpf E, Sterry W (Hrsg.)

Dermatological Quality Assurance - Guidelines and Recommendations

5. issue 2006, 468-478 W. Zuckerschwerdt Verlag München – Bern – Wien – New York