

Non-contact Cooling System during laser procedures

**Most effective solution
against the thermal effect**

- Protects surrounding tissues from thermal effects
- Reduces inflammatory phenomena after the procedure, thereby accelerating healing.
- Protects against complications such as skin burns
- Provides patient comfort during the procedure.

COOLING SYSTEM



Dynamic Cooling System with CRYO-T ® Cooler

Comparison of contact and dynamic cooling methods ¹

86%

86% patients would choose non-contact Cooling for the second time

57%

57% observe better analgesic effect with cold air

74%

74% notice less erythema after cold air treatment

1. Comparison of contact and dynamic cooling methods (* Raulin, et al: Lasers Surg Med 2000: 27: 404)
https://www.researchgate.net/publication/12203332_Cold_a-ir_in_laser_therapy_First_experiences_with_a_new_cooling_system

Temperature



-35°C

CRYO-T ® Cooler device

Medical device for dynamic local skin cooling before, during and after the procedure.

- IR measurement without skin contact
- Alarm signal when skin reaches critically, low temperature
- 9 step air flow regulation according to actual skin temperature
- Guarantee of safer procedure
- Two working modes: automatic and manual



Perfect solution for laser procedures

Why CRYO-T ® Cooler is vital for laser procedures?

Laser skin treatments are based on the thermal effect of the laser pulse on the target. However, often in order to reach a dermivase or blood vessel in the skin, the pulse must pass through the epidermis or deeper layers of the skin (e.g., ND: YAG laser or Salsa 940 nm penetration into tissue reaches up to 5mm). Cooling is mandatory to protect the surrounding tissues from the thermal effects of the laser.

Quality Cooling performs the following functions:

- Anesthesia
- Protects surrounding tissues from thermal effects
- Reduces inflammatory phenomena after the procedure, thereby accelerating healing
- Protects against complications such as skin burns
- Provides patient comfort during the procedure
- The above features allow the physician to safely use the higher power laser energy thus ensuring better treatment results

A noticeable difference

Contact Cooling

when the cold is applied during direct contact.

Ice, sapphire crystal

- Ice cubes or ice pads cover the work area.
- Ice cushions need to be changed after each patient.
- When using frozen gel pads during the procedure, a difference in temperature creates frost, which dissolves and wets the skin. This causes discomfort to the patient and the doctor. Water on the skin during the procedure is undesirable because the laser waves used (e.g. ND: YAG) are intensively absorbed by the water. As a result, the water heats up and can cause varying degrees of burns to the epidermis.
- Large size of the frozen gel pads makes them improper for very selective and small areas especially face.

Dynamic Cooling System

when tissues are cooled remotely before, during and after the procedure.

Aerosols, cold air

- Do not cover the work area.
- Always at hand.
- No frost, which can cause varying degrees of burns to the epidermis.
- Proper for very selective and small areas especially face.





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