



Cryotherapy

Effective and self-monitoring surface cooling
(local applications)



FRIGOSTREAM-Expert

Automated, sustainable and safe cryotherapy in a minimum of space



FRIGOSTREAM-Expert stands for proven cold therapy applied directly and locally to the patient's muscle tissue to be treated. The healing and palliative effect of the cold therapy can be ascribed primarily to the thermal and neurophysiological stimuli on the musculature and on the nervous- and vascular system.

In feedback mode the skin surface temperature to be attained can be selected between 12 °C and 26 °C. FRIGOSTREAM-Expert extracts the air from the environment and cools it down to -35 °C and reaches up to 1500 l/min. The cooled air stream is fed via a flexible hose and nozzle directly to the appropriate place on the body, without skin contact being required.

- Operating mode: constant skin surface temperature via infra-red sensor
- Real-time temperature feedback
- Supporting arm for safe and time-saving hands-free therapy
- Environmentally-friendly cooling agent
- Flexible hose is cold-insulated and fitted with an ergonomic light handle.
- Handle with 360° rotating coupling on hose. This means no turning pressure on the hose. Safe and pleasant working all day.

FRIGOSTREAM-Expert indications

- Rheumatology & internal medicine
- Myalgias, myogeloses, rheumatic arthrosis, chronic polyarthritits, tendinitis, tendosynovitis, periarthropathy
- Orthopaedics, trauma surgery & sports medicine
- Luxations, pulls, bruises, pre and post-operative stimulus conditions, arthritis, arthrosis, distortions, muscular lesions, nerve root syndrome, reflex dystrophy
- Neurology
- Neuralgias, spastic muscle reactions, nerve root compression syndrome
- Physiotherapy & occupational therapy
- Myorelaxation (reduction in the muscle's reflex activity), facilitating, relaxing, analgesic
- Dermatology
- Psoriasis, cellulitis

Technical data

Temperature	-35 °C air stream
Air stream	up to 1,500 litres/min. adjustable in 10 increments
Operating modes	Air - and surface temperature controlled
Temperature sensor	IR type
Refrigerant	R404A
Preset programs	Yes
Individual programs	Yes
Warning messages	for water, filter system, cleaning and de-icing
Operation	12.1" color touch TFT

Special Features

Treatment time from 30 secs to 30 mins.
Air stream: 10% to 100%, in 10 increments
Air temperature: -35 °C to +11 °C, in 1°C increments
Desired skin temperature: 12 °C to 26 °C, in 1°C increments
Hands-free operation via biofeedback sensor
Ready for use within a few minutes



Hands-free operation via biofeedback sensor

Dimensions (W x H x D)	500 x 1027 x 460 mm
Weight (unit, screen & trolley)	65 kg
Power consumption	920 VA
Voltage	230 V~ / 50 Hz
Fuses	2 x T6,3L250
IEC 60601-1 power switch	Yes

Standard accessories

- 1 Handpiece
- 1 Power cable



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Cryotherapy is based on surface cooling and thus local reduction of tissue temperature. Cold air therapy uses a continuously cooled stream of air within a constant temperature range, which results in a series of thermoregulatory effects that differ from other cold application forms (e.g. ice or cold packs) and are desirable for various indications, including acute and chronic pain (especially in sport physio therapy) and rheumatism. Cold air therapy is also used to cool the skin surface during laser treatment.

In detail, there are the following specific physiological effects of cryotherapy with cold air flow:

- Reduction in the sensitivity of sensory nerves
- Reduction in nerve conduction
- Immediate vasoconstrictive effect

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