CryoStar

WHOLE-BODY
CRYOTHERAPY CHAMBER

Antarctica WBC Nitrogen

Advanced Whole-Body Cryotherapy Technology



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What Is Whole-Body Cryotherapy?

Whole-body cryotherapy uses short, controlled exposure to extremely low temperatures, cooling the entire body, including the head, inside an enclosed chamber.

Using nitrogen vapor, the chamber creates a dry-cold environment designed for comfortable and efficient cryostimulation. Sessions typically last 1–3 minutes, making the technology suitable for modern wellness and recovery programs.

1-3 min
Session Duration

Whole Body
Full-Body Cooling

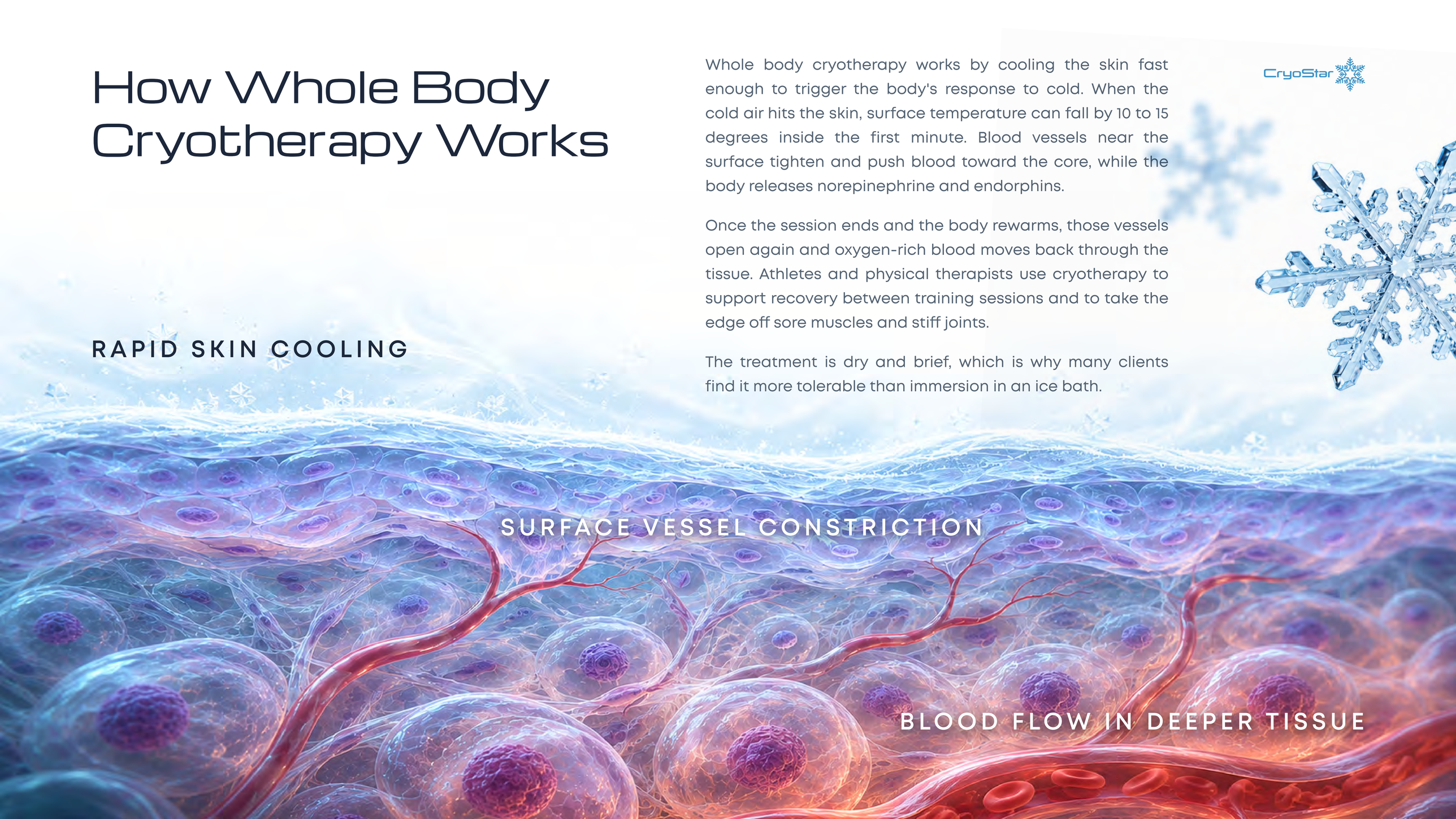
Dry Cold
Nitrogen Vapor Cooling

How Whole Body Cryotherapy Works

Whole body cryotherapy works by cooling the skin fast enough to trigger the body's response to cold. When the cold air hits the skin, surface temperature can fall by 10 to 15 degrees inside the first minute. Blood vessels near the surface tighten and push blood toward the core, while the body releases norepinephrine and endorphins.

Once the session ends and the body rewarms, those vessels open again and oxygen-rich blood moves back through the tissue. Athletes and physical therapists use cryotherapy to support recovery between training sessions and to take the edge off sore muscles and stiff joints.

The treatment is dry and brief, which is why many clients find it more tolerable than immersion in an ice bath.



Benefits & Applications

Cryotherapy is incorporated into professional wellness, fitness, and recovery programs to support physical comfort, post-exercise recovery, and overall well-being.



Muscle Recovery

Supports post-exercise recovery routines and physical comfort.



Pain Management

May provide temporary relief from muscle soreness and discomfort.



Sports Performance

Complements athletic recovery and conditioning programs.



Wellness & Relaxation

Offers a refreshing experience as part of a wellness routine.



Body Conditioning

Can complement regular exercise and body-care programs.



Recovery Programs

Can be integrated with physiotherapy and supervised exercise.

Meet Antarctica

Antarctica combines modern design, advanced nitrogen distribution, and intuitive digital controls in a professional open-head cryotherapy chamber. Its ergonomic construction keeps the client's head outside the cooling area while delivering controlled cold exposure to the body.

150 kg

Adjustable Platform

Automatic height adjustment accommodates different client heights, up to a 150 kg load.



Efficient Consumption

Approximately 3–5 liters of liquid nitrogen per three-minute session.

3-5 liters

Indirect Nitrogen Injection

Controlled vapor distribution through an integrated nozzle system.

Touchscreen Control

Antarctica features an advanced 10.1″ touchscreen interface for convenient management of cryotherapy sessions. Operators can select preset programs, adjust session parameters, and monitor treatment progress through an intuitive digital interface.

Key Features

- **3 Automatic Programs** — Preconfigured cryotherapy modes.
- **1 Manual Program** — Flexible session parameter adjustment.
- **Temperature Control** — Selection and monitoring of temperature settings.
- **Session Timer** — Precise control of procedure duration.
- **Easy Navigation** — User-friendly interface for daily operation.



Business Opportunities





Cryotherapy Centers



Wellness & Day Spas



Fitness Clubs



Sports Recovery Centers



Longevity Studios



Luxury Hotels & Resorts

Antarctica enables businesses to expand their service portfolios with professional cryotherapy. Short sessions and versatile applications make it a practical addition to various wellness and recovery environments.

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Nitrogen Supply & Installation

Antarctica operates with liquid nitrogen supplied through a dedicated connection hose. A properly configured nitrogen supply and ventilation system are essential for reliable operation.



Nitrogen Supply

Compatible with appropriately configured nitrogen storage tanks. Common Dewar capacities include 230–240 liters.

Operating Pressure

The source specifies a nitrogen supply pressure of 28–35 psi.

Ventilation

A dedicated 100 mm (4″) ventilation outlet is provided for nitrogen vapor exhaust.

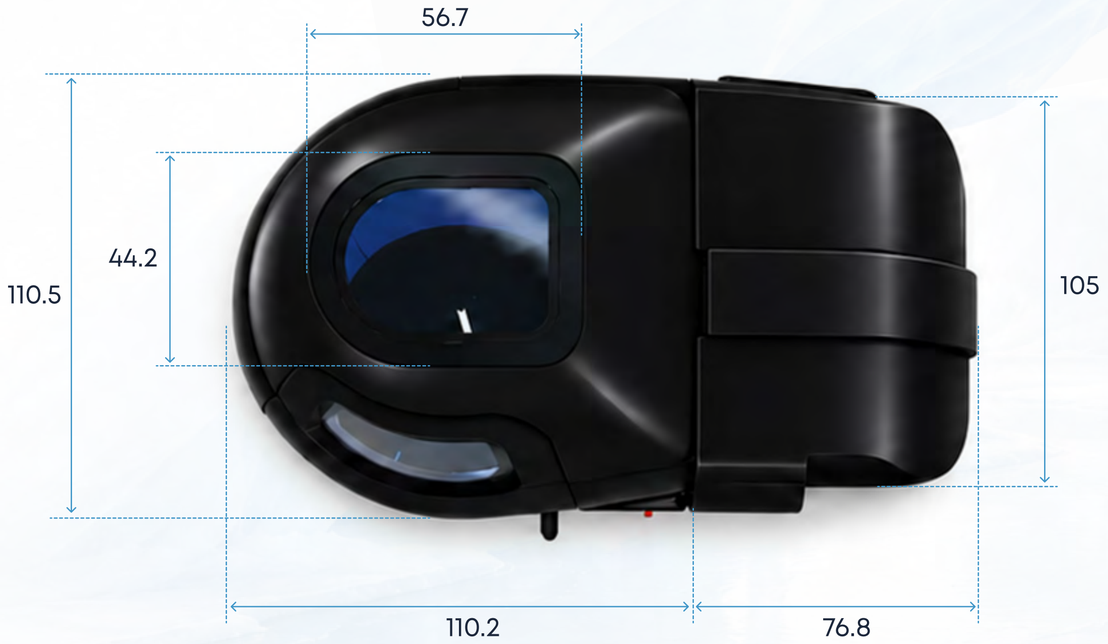
Room Requirements

The manufacturer recommends approximately 9 m² of floor area, subject to site assessment.

Installation requires appropriate ventilation, ambient oxygen monitoring, operator training, and compliance with applicable local safety requirements.



Dimensions in metric system





Installation, Training & Support

Installation & Training

Vacuactivus provides installation guidance and operator training to help businesses integrate Antarctica into their facilities. Remote assistance and optional on-site services are available worldwide.

Worldwide Support

Our team provides ongoing technical assistance, maintenance guidance, and post-installation support to ensure reliable equipment operation and a smooth customer experience.



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Antarctica WBC Nitrogen

WHOLE-BODY CRYOTHERAPY CHAMBER

Antarctica WBC Nitrogen is an advanced whole-body cryotherapy chamber designed to support recovery, rejuvenation, physical performance, and longevity through the power of extreme cold.

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