



FLOW

art of cryo

FLOW SYSTEM

Dynamic Pressure Technology for Structured
Regeneration and Performance Concepts

Pressure as a structured stimulus dimension

The FLOW System uses controlled pressure changes to create a clearly defined mechanical stimulus in the lower body area. Through software-controlled transitions between negative pressure, neutral pressure and positive pressure, a dynamic pressure environment is created that interacts with flow processes in the body.

The application is entirely contactless and is based exclusively on controlled pressure conditions within a closed pressure chamber. This creates clearly defined pressure cycles that can be controlled precisely and mapped in reproducible programs.

This structured control enables applications under constant system conditions and supports

reliable integration into professional spa, performance and regeneration concepts.

FLOW expands the Art of Cryo portfolio with an additional physical stimulus dimension: alongside temperature, pressure is also used as a structured stimulus that can be applied in a targeted and controlled way.



Contactless

Application inside a closed pressure chamber — without direct mechanical impact on the body.

Structured

Software-controlled pressure profiles with clearly defined programs and reproducible sequences.

Integrable

Suitable for professional spa, performance and regeneration concepts with predictable operational processes.



FROM RESEARCH PRINCIPLE TO PROFESSIONAL APPLICATION

The underlying technology is based on the principle of Lower Body Negative Pressure (LBNP).

This method was originally developed in aerospace and research projects to investigate and simulate circulatory responses under altered pressure conditions in a controlled way.

FLOW transfers this principle into a modern application for professional operator environments.

The pressure curves follow clearly defined programs and can be controlled precisely in terms of intensity and rhythm. This creates standardized processes that can be reliably integrated into daily operations.

The FLOW System can be used in a wide range of operator environments. FLOW can be offered both as a stand-alone application and in combination with other applications — for example as part of structured temperature or regeneration concepts.

Typical application areas:

- Hotels & Resorts
- Spa & Wellness Facilities
- Performance & Fitness Centers
- Cryo-Studios
- Private Luxury Installations
- Corporate Health & Special Projects



Alternating Deep Flow Technology

The FLOW System operates with software-controlled pressure change technology based on algorithm-controlled cycles.

During the application, multiple pressure phases alternate rhythmically. This creates a dynamic pressure environment that interacts with flow and vascular processes in the lower body area.



NEGATIVE PRESSURE PHASE

Reduced pressure in the application area creates a dynamic stimulus for peripheral flow processes.



NEUTRAL PHASE

Pressure equalization and stabilization of the pressure conditions within the system.



POSITIVE PRESSURE PHASE

A controlled pressure increase creates a mechanical counterimpulse and completes the respective cycle.

STRUCTURED PROGRAMS

The FLOW System operates with clearly defined program durations. These enable flexible integration into different operator concepts and provide a clear structure in daily operations.



8 minutes

- Compact pressure dynamics for short applications.
- Ideal for: First-time applications, spa or studio slots with high frequency.



12 minutes

- Balanced pressure cycles for regular applications.
- Typical use: Membership models, combined application concepts



24 minutes

- Extended pressure profiles for more in-depth applications.
- Suitable for: Premium positioning, combined applications.



The FLOW application experience

Passive, contactless application with rhythmic pressure cycles in the lower body area.

During the application, the user lies back and relaxes in the FLOW System. Automated programs create rhythmic pressure changes that are perceived as mechanical stimulation in the lower body area.

The application is entirely passive and comfortable — without active movement.

PERCEPTION DURING THE APPLICATION

- Pleasant mechanical stimulation
- A sensation of activation or movement in the tissue
- Relaxed, passive application

PERCEPTION AFTER THE APPLICATION

- A perceived sensation of warmth or circulation
- A feeling of lightness in the lower body area
- Activation or relaxation — depending on the selected program





FLOW System

– Dynamic Pressure Change Technology

Lower Body Pressure System | Non-contact single-use application



Algorithm-controlled negative and positive pressure phases create defined pressure cycles that generate a structured mechanical stimulus in the lower body area.

The application takes place in a lying position, with the lower body positioned inside the pressure chamber while the upper body remains outside the chamber. This creates reproducible applications that can be controlled precisely and

reliably integrated into professional operator concepts.

The FLOW System can be used both as a standalone application and as part of a structured regeneration or performance concept.

Defined pressure dynamics:

- Negative pressure up to –120 mbar
- Neutral pressure for stabilization
- Positive pressure up to +40 mbar

Equipment:

- Closed pressure chamber (feet to lower rib area)
- High-resolution control display

Control:

- Touchscreen user interface
- Predefined programs
- System monitoring and parameter control

Intelligent Program Control

Clearly defined program durations enable structured integration into professional operational processes.



Alternating Deep Flow Technology

Algorithm-controlled pressure changes create a dynamic mechanical stimulus in the lower body area.



Reproducible Application

Precisely controlled pressure conditions ensure standardized and reproducible applications.



FLOW as part of modern spa and regeneration concepts

FLOW expands spa, performance and regeneration offerings with an additional physical stimulus component and can be used both as a standalone application and within combined application concepts.

As a manufacturer, we support projects from planning through to integration into ongoing operations.

This includes, among other things:

- Spatial conditions and infrastructure
- System configuration and integration
- Operator structure and throughput
- Long-term scalability

Engineering dynamic pressure systems – Made in Germany

Development, engineering design and manufacturing are carried out in-house in Germany. This results in systems with stable operating conditions and reproducible applications for professional operator concepts.

**LET'S TALK
ABOUT YOUR
PROJECT.**



art of
cryo



Partner Switzerland

MTR - Health & Spa AG
Fällmisstrasse 64
8832 Wilen b. Wollerau | Switzerland
Phone: +41 44 787 70 80

Email: info@mtr-ag.ch

www.mtr-ag.ch

