
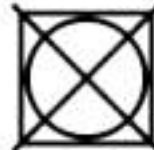





# Dr. Chill – Nano-Chill™ product specification



## Model: NC-002/ DrChill CRYO-ELITE

**Product overview:** Style NC-002/DrChill CRYO-ELITE with Nano-Chill™ Technology uses advanced super-absorbent materials (SAMs) that absorb and retain water to deliver rapid and long-lasting cooling through controlled evaporation. Integrated ChillLock™ Technology positions cooling elements for optimal body contact, airflow, and performance.

<p><b>1 Product Identification</b></p> <ul style="list-style-type: none"> <li>• Product Name: DrChill CRYO-ELITE</li> <li>• Style Number: NC-002</li> <li>• Product Type: Passive Evaporative Body Cooling Garment</li> <li>• Cooling Technology: Nano-Chill™ (Super-Absorbent Material Based)</li> <li>• Positioning System: Integrated ChillLock™ Technology</li> <li>• Intended Use: Heat stress mitigation</li> </ul>	<p><b>5 Cooling Performance</b></p> <ul style="list-style-type: none"> <li>• Immediate evaporative cooling upon activation.</li> </ul> <p><b>Optional pre-chill:</b></p> <ul style="list-style-type: none"> <li>• Refrigerator: 30 minutes for intensified initial cooling.</li> <li>• Freezer (follow instructions): 60 minutes for maximum initial cooling. After the pre-chill phase, the vest automatically returns to evaporative cooling mode</li> </ul> <p><b>Hybrid option:</b></p> <ul style="list-style-type: none"> <li>• Combine with active ventilation (Aero-Chill™)</li> </ul>
<p><b>2 Cooling Technology Description</b></p> <p><b>2.1 Nano-Chill™ Technology</b> Nano-Chill™ utilizes advanced Super-Absorbent Materials (SAMs) engineered to absorb and retain water. Cooling is generated through controlled evaporation when exposed to airflow and elevated temperatures.</p> <ul style="list-style-type: none"> <li>• Cooling Principle: Evaporative cooling</li> <li>• Activation Medium: Water only</li> <li>• Reusable: Yes</li> <li>• Non-toxic materials: Yes (subject to material supplier certification)</li> </ul> <p><b>2.2 ChillLock™ Technology</b> Integrated structural positioning system ensuring:</p> <ul style="list-style-type: none"> <li>• Optimized body contact</li> <li>• Balanced weight distribution</li> <li>• Maintained airflow pathways</li> <li>• Consistent cooling performance</li> </ul>	<p><b>6 Performance Characteristics</b></p> <ul style="list-style-type: none"> <li>• Cooling Duration: 24 to 48 hours (environment dependent)</li> <li>• Reactivation: Unlimited cycles (subject to proper care)</li> <li>• Optimal Conditions: High temperature + airflow</li> <li>• Performance Influencers:             <ol style="list-style-type: none"> <li>a. Ambient temperature</li> <li>b. Relative humidity</li> <li>c. Air movement</li> <li>d. Physical workload</li> </ol> </li> </ul>
<p><b>3 Material Specification</b></p> <p><b>3.1 Outer Fabric</b></p> <ul style="list-style-type: none"> <li>• Material: 100% NYLON TASLAN 228T</li> <li>• Fabric Weight: 135 g/m<sup>2</sup></li> </ul> <p><b>3.2 Cooling Core</b></p> <ul style="list-style-type: none"> <li>• Material Type: Super-Absorbent Material (SAM) polymer matrix</li> <li>• Encapsulation: Sealed multi-layer textile chambers under the registered Dr. Chill design architecture and ChillLock™ Technology</li> <li>• Activation: Water absorption</li> </ul> <p><b>3.3 Inner Fabric</b></p> <ul style="list-style-type: none"> <li>• Material: 100% NYLON TASLAN 228T</li> <li>• Fabric Weight: 135 g/m<sup>2</sup></li> </ul> <p><b>3.4 Knitted sidepanel(s)</b></p> <ul style="list-style-type: none"> <li>• Material: 90% Nylon - 10% Spandex</li> <li>• Fabric Weight: 220 g/m<sup>2</sup></li> </ul>	<p><b>7 Laundry instructions</b> ONLY USE NATURAL SOAP</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Hand wash only         </div> <div style="text-align: center;">  Do not dry clean         </div> <div style="text-align: center;">  Do not iron         </div> <div style="text-align: center;">  Do not wring         </div> <div style="text-align: center;">  Hang to dry         </div> </div>
<p><b>4 Activation guidelines</b></p> <p>SUBMERGE &gt; Fully immerse product in clean (tap) water.</p> <p>SOAK &gt; 30/45 minutes for full SAP hydration.</p> <p>GENTLY SQUEEZE &gt; Remove excess surface water. &gt; Do not wring or twist.</p> <p>TOWEL ROLL &gt; Roll in towel for 10 minutes. &gt; Hydrated, not dripping.</p> <p>READY TO USE &gt; Product is activated and ready to wear.</p> <p><b>WEIGHT after activation:</b> Approx. 550 – 650 g</p> <p><b>Reactivation</b> Re-immerses the product in water for 45 minutes, gently squeeze out excess water, roll in a towel to remove surface moisture, and reuse.</p>	<p><b>8 DRYING</b></p> <p>Hang to air dry Ventilated area Fully dry before storage ⚠ Do not machine dry unless label permits</p>
	<p><b>10 Storage</b></p> <p>Short-Term</p> <ul style="list-style-type: none"> <li>• Cool, dry place</li> <li>• Clean &amp; dry</li> </ul> <p>Long-Term</p> <ul style="list-style-type: none"> <li>• Fully dry first</li> <li>• Store flat or hung</li> <li>• Avoid sealed plastic when damp</li> </ul>
	<p><b>11 Safety</b></p> <ul style="list-style-type: none"> <li>• Non-toxic</li> <li>• Non-electrical</li> <li>• External use only</li> <li>• Do not puncture chambers/gelpockets</li> <li>• Discontinue if damaged</li> <li>• Keep away from children</li> </ul>
	<p><b>12 Declaration</b></p> <p>This product is designed as a passive evaporative cooling aid for heat stress mitigation. Compliance with specific international standards depends on final garment configuration and certified material selection</p>
	<p><b>13</b> Contact your authorized Dr Chill distributor or sales representative, or visit the DrChill website for more information.</p>

# Dr. Chill – Nano-Chill™ product specification



## Model: NC-002/ DrChill CRYO-ELITE

**Product overview:** Style NC-002 / DrChill CRYO-ELITE with Nano-Chill™ Technology is engineered for high-performance sport, delivering an ergonomic, lightweight fit with optimized airflow through its proprietary ChillLock™ chamber architecture for consistent, body-focused cooling.

### Size specifications



All measurements in cm

Measurements	XS	S	M	L	XL	2XL	3XL	4XL	5XL
Full chest	88	94	100	106	112	118	124	130	136
Full Length	42	42	42	42	42	42	42	42	42

**Design, size & Performance Philosophy :** Dr. Chill's size specifications, Chill Lock™ Technology, and registered pattern architecture form a protected proprietary design system. Built on the principle that human-body fit drives thermal performance, this anatomy-driven, sealed construction platform is engineered to optimize conformity, stability, and cooling efficiency in industrial environments.

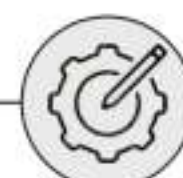


### Positioning



Where traditional cooling vests often appear bulky or industrial, DrChill CRYO-ELITE is engineered from a sports ergonomics perspective: Minimal, aerodynamic, and designed for consistent use during training and competition. While the DrChill CRYO remains the modular professional base model, the DrChill CRYO-ELITE represents the sport-optimized, cropped, zipper-free variant — fully focused on performance and freedom of movement.

### Customization Options — Dr Chill Cooling Vests



We tailor cooling garments to match your operational needs, brand identity, and safety requirements—without compromising performance.

Customization possibilities include:

- Company & team branding
- Custom colors and visual identity
- Private label production
- Fabric finishes such as:
  - AS (Anti-Static)
  - AB (Anti-Bacterial)
  - QD (Quick Dry)
- High-Visibility adaptations
- Certification support for regulated environments

The **Dr Chill Cryo-Elite (Sport Edition)** is a high-performance thermoregulation vest developed for athletes and active users who require maximum freedom of movement and controlled body temperature during physical exertion. Built on the same technological platform as the CRYO, this version is specifically optimized for sports applications. It features a shortened, sleeveless construction without a zipper, ensuring a seamless body fit and minimal interference during dynamic movement.

### Design & Construction



The vest has an anatomical, compression-inspired fit that follows the contours of the torso without restricting mobility. The cropped cut enhances ventilation and reduces weight, making it ideal for high-intensity training and competition environments.

Integrated thermoregulation panels are strategically positioned across the chest and upper back — key heat-generating zones — to optimize heat dissipation and temperature stability.

### Functional Features



- Lightweight, cropped performance fit
- Zipper-free construction for unrestricted movement
- Ergonomic body-mapped placement of thermoregulation elements
- Developed for high-intensity physical activity
- Suitable as a standalone piece or worn under sports apparel
- Durable, performance-oriented materials

### Applications



- Endurance and team sports
- Outdoor training
- Motorsport & cycling
- High-intensity interval training
- Warm-weather or heat-stress environments

### Key benefits Nano-Chill™ Technology:



- Immediate cooling relief
- Long-lasting cooling effect
- Targeted cooling zones
- Ventilation tunnel system for enhanced airflow
- Best-in-class cooling duration – up to 48 hours
- Lightweight & flexible design
- Reusable – reactivates with water
- Safe & eco-friendly (non-toxic, non-electrical)
- Compatible with ice-based cooling for enhanced performance

### Why it works



By combining targeted cooling zones, human-fit garment design, and lightweight flexibility, NANO-CHILL™ vests promote real-world wearability and compliance—ensuring cooling is not just available, but actually used.

### Dr Chill's Differentiation logic

