
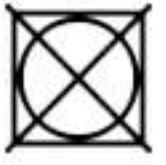





# Dr. Chill Aero-Chill™ Hybrid product specification



## Model: AC-001 / DrChill AERO-CRYO

**Product overview:** Aero-Chill™ HYBRID Technology integrates Nano-Chill™ cooling materials with lightweight active airflow fans and ChillLock™ Technology — Dr. Chill’s proprietary stitch-free assembly system. This dual-action system delivers accelerated, targeted, and long-lasting cooling performance while maintaining comfort, dryness, and optimal body function in high-heat and high-activity environments.

<p><b>1 Product Identification</b></p> <ul style="list-style-type: none"> <li>• Product Name: DrChill AERO-CRYO</li> <li>• Style Number: AC-001</li> <li>• Product Type: Active Evaporative Body Cooling Garment</li> <li>• Cooling Technology: Aero-Chill™ + Nano-Chill™ (Hybrid)</li> <li>• Positioning System: Integrated ChillLock™ Technology</li> <li>• Intended Use: Heat stress mitigation</li> </ul>	<p><b>STEP 2 – ACTIVATE AIRFLOW SYSTEM (Hybrid Function)</b></p> <ol style="list-style-type: none"> <li>1. Install the fan units securely onto the activated vest.</li> <li>2. Insert fully charged battery into the fan units.</li> <li>3. Switch on the fans.</li> <li>4. Select the desired fan speed for comfort and cooling intensity.</li> <li>5. Ensure a snug fit to optimize internal airflow circulation.</li> </ol> <p><b>WEIGHT activated + fans + battery:</b> Approx. 1050 – 1150 g</p> <p>Air circulates inside the vest, accelerating evaporation and enhancing cooling performance.</p>
<p><b>2 Cooling Technology Description</b></p> <p><b>Aero-Chill™ Integrated Active Airflow System</b> Lightweight fans enhance evaporation and air circulation inside the garment.</p> <p><b>Nano-Chill™</b> Advanced cooling materials engineered for sustained thermal regulation.</p> <p><b>Chill-Lock™ Technology</b> Proprietary stitch-free chamber construction for improved durability, airflow control, and structural integrity</p>	<p><b>5 Performance Influencing Factors</b></p> <p>Cooling performance depends on:</p> <ul style="list-style-type: none"> <li>• Ambient temperature</li> <li>• Relative humidity</li> <li>• Air velocity (natural or fan-assisted)</li> <li>• Physical workload / metabolic heat load</li> <li>• Garment fit and internal airflow dynamics</li> <li>• Fan speed setting (Hybrid models)</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>3.5 Mini Fans with speed controller</b></p> <ul style="list-style-type: none"> <li>• Model ZYC-7526R is a compact DC cooling fan designed for integration into wearable body cooling system, including body cooling vests. It offers reliable airflow performance, low-profile dimensions, and stable operation at low voltage.</li> </ul>	<p><b>6 Care Notice</b></p> <ul style="list-style-type: none"> <li>• Always remove batteries and fan units before cleaning/laundry.</li> <li>• Do not submerge fan components.</li> <li>• Follow storage and maintenance guidelines to ensure optimal performance and extended product lifespan.</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><b>STEP 1 – HYDRATE COOLING CORE (Passive Cooling System)</b></p> <p>Submerge</p> <ul style="list-style-type: none"> <li>&gt; Fully immerse the vest in clean tap water.</li> </ul> <p>Soak</p> <ul style="list-style-type: none"> <li>&gt; Allow to soak for 30–45 minutes to ensure full SAP hydration.</li> </ul> <p>Gently Squeeze</p> <ul style="list-style-type: none"> <li>&gt; Remove excess surface water.</li> </ul> <p>Do not wring or twist.</p> <ul style="list-style-type: none"> <li>&gt; Towel Roll</li> </ul> <p>Roll the vest in a towel for approximately 10 minutes.</p> <ul style="list-style-type: none"> <li>&gt; The vest should be hydrated but not dripping.</li> </ul> <p>Ready to Use</p> <ul style="list-style-type: none"> <li>&gt; The cooling core is now activated.</li> </ul> <p><b>WEIGHT after activation:</b> Approx. 700 – 800 g</p> <p><b>Reactivation</b></p> <p>Re-immerses the vest in water for 45 minutes, gently squeeze out excess water, roll in a towel to remove surface moisture, and reuse.</p>	<p><b>8 Storage</b></p> <ul style="list-style-type: none"> <li>&gt; Always remove batteries and fan units before</li> </ul> <p><b>Short-Term</b></p> <ul style="list-style-type: none"> <li>• Cool, dry place</li> <li>• Clean &amp; dry</li> </ul> <p><b>Long-Term</b></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>9 Safety</b></p> <p><b>Hybrid System (Fans &amp; Batteries)</b></p> <ul style="list-style-type: none"> <li>• Remove batteries and fan units before cleaning.</li> <li>• Do not submerge electrical components.</li> <li>• Use only approved batteries and chargers.</li> <li>• Do not modify or disassemble fan units.</li> </ul> <p><b>Nano-Chill™ Cooling Core</b></p> <ul style="list-style-type: none"> <li>• Non-toxic. Non-electrical. External use only.</li> <li>• Do not puncture chambers or gel pockets.</li> <li>• Discontinue use if damaged.</li> <li>• Keep away from children.</li> <li>• Inspect product before use.</li> <li>• Not a substitute for mandated workplace heat safety protocols.</li> </ul> <p><b>10</b> Contact your authorized Dr Chill distributor or sales representative for product support and technical information. Visit the official DrChill website for detailed specifications, documentation, and updates.</p>

# Dr. Chill Aero-Chill™ Hybrid product specification



## Model: AC-001/ DrChill AERO-CRYO

**Product overview:** Style AC-001/DrChill AERO-CRYO with integrated Nano-Chill™ Technology is designed for use as a standalone solution or under workwear, Aero-Chill™ HYBRID performs reliably in high-humidity conditions and across demanding professional and performance-driven applications.

### Size specifications



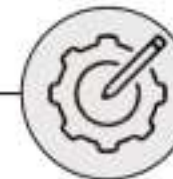
All measurements in cm

Measurements	XS	S	M	L	XL	2XL	3XL	4XL	5XL
Full chest	88	94	100	106	112	118	124	130	136
Full Length	54	56	58	60	62	64	66	68	70

**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.



### 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

### AERO-CHILL™ Hybrid Cooling Vests — Application Overview

AERO-CHILL™ Hybrid is an advanced cooling system engineered to deliver effective, long-lasting body cooling in environments where heat stress impacts performance, safety, and comfort. The system combines Nano-Chill™ evaporative cooling technology with integrated lightweight ventilators to enhance overall thermal regulation. The Nano-Chill™ core retains water and releases cooling through controlled evaporation, creating a sustained cooling effect at the body's primary heat zones. The integrated ventilators actively circulate air within the garment, accelerating evaporation, improving internal airflow, and increasing cooling efficiency—particularly in high-heat, high-activity, or high-humidity conditions.

### Where DrChill AERO-CRYO Makes the Difference:

#### Industrial use



Ideal for high-heat work environments and worn comfortably under PPE, AERO-CHILL™ Hybrid reduces heat strain and maintains performance—even in extreme humidity.

#### Professional & elite sports



Used for pre-cooling, recovery, and training in hot climates. Athletes benefit from regulated body temperature, delayed fatigue, and improved thermal comfort without restricting movement.

#### Emergency & defense services



Suitable for firefighters, military personnel, and first responders operating in protective gear where heat buildup is critical.

#### Outdoor & lifestyle activities



Perfect for hiking, cycling, motorsports, events, and recreational use in warm environments.

#### Medical & personal heat sensitivity



Provides non-electrical cooling support for individuals sensitive to heat, including elderly users or those managing heat-related conditions.

#### Why it works



DrChill AERO-CRYO combines Nano-Chill™ evaporative cooling with active airflow, targeted cooling zones, and ergonomic design to maximize cooling efficiency. Its lightweight construction ensures real-world wearability—so cooling is consistently used in demanding conditions.

### Key benefits Aero-Chill™ Hybrid Technology



- Rapid Chill – Fast, intense cooling response
- Precision Cool – Targets critical heat zones
- Stay Dry – Enhances evaporation, reduces moisture buildup
- Seamless Comfort – Lightweight, flexible, ergonomic fit
- Built Tough – Durable construction for demanding use
- Peak Performance – Supports focus and endurance in heat
- Hybrid Power – Cooling materials combined with active airflow
- Versatile Use – Suitable under workwear, in humid climates, and across multiple sectors

### Dr Chill's Differentiation logic


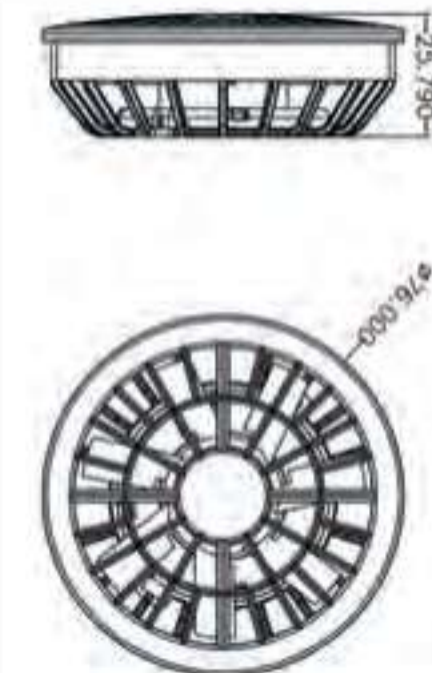


# Dr. Chill – DC Cooling Fan Datasheet



## Model: ZYC-7526R

**Product Description** The ZYC-7526R is a compact DC cooling fan designed for integration into wearable body cooling systems, including body cooling vests. It offers reliable airflow performance, low-profile dimensions, and stable operation at low voltage.

<p><b>A. General Information</b></p> <ul style="list-style-type: none"> <li>*Model: ZYC-7526R</li> <li>*Product Type: DC Axial Cooling Fan</li> </ul>	<p><b>G. Reliability</b></p> <p>Theoretical Lifetime: 300 hours at 25°C (MTBF based on 90% confidence level at rated voltage)</p>	
<p><b>B. Mechanical Specifications</b></p> <ul style="list-style-type: none"> <li>• Dimensions (L × W × H): 76 × 76 × 25.7 mm</li> <li>• Rotating Direction: Counter-clockwise (viewed from blade side)</li> <li>• Number of Poles: 2</li> </ul>	<p><b>H. Test &amp; Measurement Conditions:</b> Unless otherwise specified, all performance data is measured at 25°C, 65% RH, rated voltage, and free-air conditions.</p>	
<p><b>C. Electrical Specifications</b></p> <ul style="list-style-type: none"> <li>• Rated Voltage: DC 5V</li> <li>• Operating Voltage Range: DC 3.7V – 5.5V</li> <li>• Starting Voltage: ≥ 3.7V (Rated voltage, 25°C, 65% RH)</li> <li>• Rated Current: 0.5 A ±10%</li> <li>• Power Consumption: 2.5 W ±10%</li> </ul>	<p><b>I. Handling, Storage &amp; Usage Precautions</b></p> <ul style="list-style-type: none"> <li>• Do not touch the impeller or carry the fan by lead wires.</li> <li>• Specify the Model No. on every order for MIS purposes.</li> <li>• Do not use in corrosive gas or liquid environments.</li> <li>• Avoid high humidity storage and storage over 6 months.</li> <li>• For long-term storage, power on briefly every 6 months.</li> <li>• Do not lock or block the fan during operation.</li> </ul>	
<p><b>D. Performance Specifications</b></p> <ul style="list-style-type: none"> <li>• Speed: 4500 RPM ±10% (25°C, 65% RH, free air, rated voltage, after 5 minutes)</li> <li>• Airflow: 4.2 m/s ±10% (Rated voltage, standard condition, 25°C, 65% RH)</li> <li>• Static Pressure: 2.0 mmAq ±10%</li> </ul>	<p><b>J. Installation &amp; Safety Appendix (Body Cooling Vest Application)</b></p> <ul style="list-style-type: none"> <li>• Fans must be securely mounted in body cooling vests.</li> <li>• Ensure airflow is not obstructed by vest materials.</li> <li>• Fans must be removed before washing or cleaning the vest.</li> <li>• Wiring must follow the product manual routing instructions.</li> <li>• Verify correct polarity and DC 5V rated voltage.</li> <li>• Protect fans from sweat and water exposure.</li> <li>• Do not operate under restricted airflow conditions.</li> </ul>	
<p><b>E. Acoustic Specifications</b></p> <ul style="list-style-type: none"> <li>• Noise Level: 46 dBA ±10% (Rated voltage, non-echo chamber)</li> <li>• CNS 8753 Standard</li> <li>• ISO 3744 Test Condition</li> <li>• Measurement distance: 1 m from intake</li> </ul>	<p><b>K. Manufacturer &amp; Responsible Party</b></p>  <p><b>Manufacturer name:</b> Shenzhen Zeyucheng Technology Co., Ltd. <b>Address:</b> 2912C, Building 1, Fuji Land Building, 6018 Longgang Avenue (longgang Section), Nanlian Community, Longgang Street, Shenzhen, China.</p>	<p><b>Illustration</b></p> 
<p><b>F. Materials &amp; Components</b></p> <ul style="list-style-type: none"> <li>• Plastic Material (Blade &amp; Housing): ABS + 30% GF, Black</li> <li>• Bearing Type: Hydraulic Bearing</li> <li>• Lead Wire: No</li> <li>• Connector Type: DC Connector</li> <li>• Rotating Direction: Counter-Clockwise (viewed from blade side)</li> </ul>		

Designed, developed and engineered for Dr. Chill B.V. - Manufactured under controlled production standards in China



ELECTRICAL WASTE