



helmate

HELMET & FOOTWEAR HYGIENE SYSTEMS

“Safe head, fresh start”

NEXT-GEN HYGIENE SYSTEM FOR HELMETS, SHOES & SOCKS

Advanced Dual-Chamber Sanitization, Drying & Deodorizing Technology



- | | | |
|--|--|---|
|  99.9% UVGI
Germicidal
Sterilization |  110°C Thermal
Aerosol
Deodorization |  Smart Hot-Air
Thermal Drying |
|  High-Power Vapor
Vacuum Extraction |  Independent Dual-
Chamber Smart EM
Lock |  Eco-friendly,
Chemical-Free
Cleaning |

PART 1 · BROCHURE

1 A Smarter Way to Everyday Personal Hygiene

Introduction

In today's fast-paced mobility ecosystem, **helmets and safety footwear** are essential daily gear. However, continuous wear traps sweat, heat, and humidity inside — creating an ideal breeding ground for harmful bacteria, fungi, and unpleasant odors.

At **HELMATE**, we believe personal safety should never come at the cost of personal hygiene, scalp health, or comfort. Our mission is to transform how people care for their everyday safety gear through intelligent, automated, and chemical-free sanitization technology.



Scalp & Skin Health

99.9% bacteria & fungi eliminated



Helmet Compliance

Encourages consistent, comfortable use



Workplace Wellness

Hygiene infra for teams & riders



Chemical-Free

UV, heat & air — zero residue

2 Key Features & Advantages

Engineered for performance, safety and ease of use



4-in-1 Deep Cleaning Technology

Seamless integration of UVGI light, 110°C thermal aerosol fogging, hot-air drying, and high-power vacuum extraction.



Dual Independent Control Chambers

Separate chambers for helmets and shoes/socks with individual controls and digital timers.



Automatic EM Locks with Safety Pause

Electromagnetic locks secure doors during operation. Opening doors mid-cycle triggers an instant safety pause.



110°C Thermal Aerosol Fogging

Activates strictly at 110°C to penetrate deep padding fibers and eliminate stubborn odors.

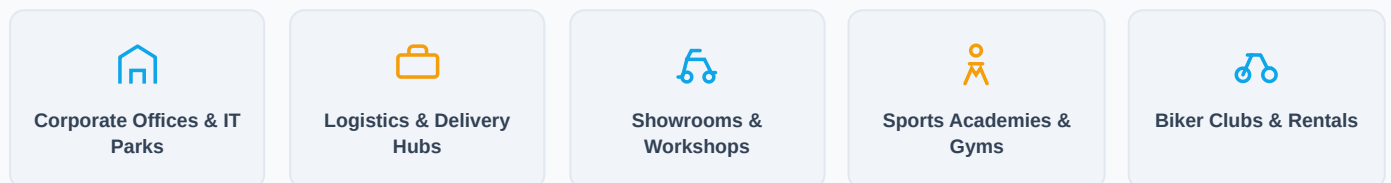


Did you know? Helmet interiors can harbour more bacteria than a toilet seat within a week of daily use. HELMATE's 4-in-1 cycle is designed to break that cycle every single day.

PART 1 · BROCHURE

3 How HELMATE Works

The 4-Stage Sanitization Workflow

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+91 75109 92919HELPLINE
+91 62384 41774EMAIL
info.helmate@gmail.com

PART 2 · USER MANUAL

1 Machine Components & Controls

Section 1 — Know your device



This section introduces the main hardware components of your HELMATE unit. Familiarize yourself with each part before first use to ensure safe and efficient operation.

A

Chamber A — Helmet Module

Custom internal mounting fixture designed to fit all helmet sizes securely.

B

Chamber B — Footwear & Socks Module

Dual-stand arrangement for shoes and socks.

C

Control Panel & Display

Independent digital timers and process mode selectors for each chamber.

D

Electromagnetic (EM) Door Locks

High-security automatic locking system that engages during active cycles.

E

Vapor Extraction System

Integrated suction vents for rapid moisture and vapor removal.

PART 2 · USER MANUAL

2 Operating Instructions

Section 2 — The 4-stage sanitization cycle, explained

STAGE REFERENCE TABLE

STAGE	NAME	FUNCTION & TEMPERATURE
Stage 1	UVGI Sterilization	UV-C germicidal irradiation eliminates 99.9% of micro-organisms.
Stage 2	Aerosol Disinfection	Thermal fogging activates at $\geq 110^{\circ}\text{C}$ to neutralize deep-set odors.
Stage 3	Thermal Drying	Heated air circulation quickly dries sweat and moisture.
Stage 4	Vapor Extraction	High-powered vacuum evacuates residual smoke and moisture.

STEP-BY-STEP OPERATION GUIDE

11 Load Gear

Place the helmet or footwear inside the respective chamber and shut the door securely.

22 Select Mode

- **Auto Cycle:** Press START for a complete sequential 4-stage cleaning cycle.
- **Manual Cycle:** Select a specific stage (e.g. Drying only) and adjust the required duration.

33 Completion

EM locks engage automatically during the cycle. An audio beep signals process completion and unlocks the doors.



Always ensure the chamber door is fully closed before starting a cycle. The EM lock will not engage — and the cycle will not begin — until the door is securely shut.

PART 2 · USER MANUAL

3 Troubleshooting & Maintenance

Section 3 — Quick fixes for common issues

ISSUE	POSSIBLE CAUSE	RESOLUTION
System won't start	Door open / reed switch disengaged	Ensure the door is firmly shut until the panel displays "Ready".
No aerosol fogging	Temperature threshold not reached	Wait for the heater to reach 110°C (status visible on panel).
Door cannot be opened	EM lock active mid-cycle	Wait for cycle completion or press the STOP button.
Cycle paused unexpectedly	Door opened during cycle	Close the door firmly to automatically resume the cycle.

CUSTOMER SUPPORT & WARRANTY


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 EMAIL SUPPORT
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Maintenance tip: Wipe down chamber interiors weekly with a dry microfiber cloth and keep vapor extraction vents free of dust for consistent long-term performance.

"Safe head, fresh start"

Bring HELMATE to Your Space

Partner with us to offer smarter, safer, and fresher gear-care for your team, riders, members or customers — with zero chemical residue and full automation.



SALES & ENQUIRIES

**Sufiyaan · +91 75109
92919**

Muslih · +91 79077 85860



EMAIL

info.helmate@gmail.com



24X7 HELPLINE

+91 62384 41774

Corporate Offices

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99.9% UVGI STERILIZATION · 110°C THERMAL DEODORIZATION · ZERO CHEMICAL RESIDUE