



A NEW MODALITY FOR LUXURY HOSPITALITY

Hydrogen Bath Therapy

*Featuring the WZ-1 Hydrogen Bath System — for the world's leading
spas, hotels & resorts*

THE SYSTEM

WZ-1 — the world's first spa-ready
hydrogen bath chassis

THE SCIENCE

99.991% independently lab-verified
hydrogen purity

THE OPPORTUNITY

A top-of-menu treatment category,
built for daily use



A new category in spa wellness

Hydrogen bath therapy is a premium, full-body immersion — an entirely new treatment category alongside massage, infrared, hydrotherapy and cold plunge.

Nano-scale molecular hydrogen is dispersed into the bathing water, transforming a standard bathtub into a silky, milk-white hydrogen environment. Guests spend twenty to forty-five minutes fully immersed in a bath that is both visually and sensorially distinct from any existing spa treatment.

The WZ-1 Hydrogen Bath System is the world's first spa-ready hydrogen bath chassis — engineered specifically for daily commercial use inside luxury spa, hotel, resort and recovery environments.

The WZ-1 is sold as a general wellness device. Certifications and specifications describe hardware and manufacturing quality, not medical device status, regulatory clearance or therapeutic claims.



What is hydrogen bath therapy?

A full-body hydrogen wellness experience delivered through the bathing vessel itself — not a topical treatment, not an inhalation session, but a complete immersion in hydrogen-rich water.

01 **Full-tub hydrogen saturation**

The entire bathing volume is saturated with molecular hydrogen in three to five minutes.

02 **Nano-scale hydrogen water**

Sub-micron hydrogen bubble generation drives H₂ uniformly through the water column.

03 **A silky, milk-like bath environment**

Dense hydrogen dispersion produces a visibly opalescent, signature spa experience.

04 **Sensory and experiential**

A memorable, photographable treatment room modality that guests book directly.



The WZ-1 Hydrogen Bath System

The flagship hydrogen bath chassis — engineered for spa integration, silent operation, and rapid session turnover between guests.

SATURATION Full-tub hydrogen saturation in 3–5 minutes

TECHNOLOGY PEM / SPE membrane electrolysis, physical gas separation

PURITY 99.991% — independently lab-verified

OUTPUT Zero ozone · zero chlorine · zero HHO / Brown's Gas

POWER Standard single-phase supply

OPERATION Compact chassis, silent running

SESSION-READY BETWEEN GUESTS

INDEPENDENT LAB VERIFICATION

ENGINEERED FOR SPA INTEGRATION

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Built for continuous, unattended operation

CLINICAL-GRADE ENGINEERING

PEM / SPE membrane — a proton exchange membrane physically separates hydrogen and oxygen inside the stack.

Multi-stage conditioning — internal water and gas conditioning stabilises output across long sessions.

Gas separation integrity — no mixed-gas stream, no combustible output, no oxyhydrogen.

Independent verification — purity, casing and electrical safety certified by independent test laboratories.

SAFETY & RELIABILITY

Layered monitoring — thermal, current, water-level and pressure sensors across the stack.

Automatic shutoff and overheat / overcurrent protection on every session.

No ozone, no chlorine — no harmful byproducts in the bathing water.

Multi-year service interval on the electrolytic stack.

99.991% VERIFIED PURITY

AUTOMATIC SHUTOFF

OVERHEAT PROTECTION

OVERCURRENT PROTECTION



Transform the guest experience

ON THE TREATMENT MENU

Immersive full-body sessions, twenty to forty-five minutes.

Warm, silky water and quiet operation — a deeply restorative treatment.

The milk-white opalescence and skin-feel is directly bookable.

A category no hydrotherapy, infrared or cold-plunge modality currently offers.

THE COMMERCIAL CASE

Supports premium, top-of-menu pricing rather than commodity hydrotherapy rates.

No proprietary consumables, no cartridge subscription — distilled-water refill only.

Multi-year service interval on the electrolytic stack.

Session-ready turnover matches existing spa scheduling.

Guest demand for hydrogen wellness is compounding across luxury hospitality and recovery segments, driven by the sensorial signature of the treatment and its position at the front edge of the wellness category.



Designed to fit the spaces you already have

Standard bathtub compatibility — works with existing acrylic, steel and stone vessels; no proprietary tub required.

Simple installation — standard single-phase power and a distilled-water refill point; no plumbing modifications.

No structural modifications — the chassis sits alongside the bathing vessel, or concealed within millwork.

Fits private suites — hydrotherapy rooms, wellness zones and couples suites alike.

DEPLOYMENT CONCEPTS

Luxury Hotel Spa

A signature treatment room inside a five-star hotel spa, booked as a premium sixty-minute session alongside the existing massage and hydrotherapy menu.

Resort Hydrotherapy Suite

Integrated into a destination resort's hydrotherapy circuit, sequenced between sauna, cold plunge and hydrogen inhalation stations.

Urban Wellness Centre

A single hydrogen bath room within a high-turnover booking model, session-ready every forty-five minutes.

Illustrative deployment concepts. Individual property specification is confirmed at the point of engagement.



SECTION 07 — PARTNERSHIP

Begin a partnership conversation

To arrange a spa partnership consultation, request specification documentation, or schedule a WZ-1 demonstration, contact the Hydrogen Machines partnership team.

AUSTRALIA & ASIA-PACIFIC

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SPA INTEGRATION GUIDE

hydrogenmachines.com.au/spa-hydrogen-therapy

UNITED STATES

hello@hydrogenmachinesusa.com

PRODUCT REFERENCE

hydrogenmachines.com.au/products/wz-1

VIDEO DEMONSTRATIONS

Full-Tub Saturation Demonstration — how the WZ-1 transforms a standard bathtub in 3–5 minutes.

youtube.com/watch?v=0VSx4U8Jq2M

How PEM Electrolysis Works — hydrogen and oxygen separation, explained.

youtube.com/watch?v=MoCK7qVYhc0

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