

Hhuhu

velta

BREATH-SYNC™ TECHNOLOGY

Hydrogen, delivered with your breath.

HHUHU 500 PLUS

Intelligent hydrogen inhalation system



HYDROGEN INHALER

500 cc/min

41 dBA quiet

UP TO 16 H / TANK

Breath-Sync™ intelligence

The smallest molecule. A powerful new frontier in wellness.

H₂

WHY RESEARCHERS ARE LOOKING CLOSER

Researchers are actively studying molecular hydrogen because early laboratory and human findings point to positive effects on oxidative stress, inflammation, recovery and metabolic health. Unlike broad-spectrum antioxidants, hydrogen may reduce highly damaging hydroxyl radicals while preserving reactive species used in normal cell signalling. Its links to Nrf2, mitochondria and inflammatory pathways give one tiny molecule unusually broad biological relevance.

500 Plus generates molecular hydrogen from pure water and delivers it through a soft nasal cannula—while you relax and breathe normally.



Free radicals are everywhere.

**Food. Air. Stress.
Even metabolism.**

Your body creates reactive species naturally—and meets more through everyday life.

FOOD

Processed Foods · Excess Sugar
Alcohol · Pesticide Residues
Fried Foods · Eating Out Often

AIR

Haze · Traffic Fumes
Cooking Smoke · Dust
Indoor Pollution · Poor Ventilation

LIFE

UV Exposure · Poor Sleep
Stress · Overwork
Normal Metabolism · Intense Exercise



WHEN PRODUCTION OUTPACES DEFENCE

Oxidative stress can damage lipids, proteins and DNA.

YOUR BODY HAS ANTIOXIDANT DEFENCES

Can they keep pace—every day?

HHUHU 500 PLUS

WHY HYDROGEN MATTERS

Less oxidative stress. More room for the body to recover.

By helping control highly reactive free radicals, molecular hydrogen supports the systems that protect, repair and energise your cells.

01 CELLULAR PROTECTION + REPAIR

Supports cellular defence and natural repair against oxidative stress.

02 BETTER REST + RECOVERY

Supports restful sleep and recovery from daily exposure and stress.

03 MORE EVERYDAY ENERGY

Supports mitochondria that turn nutrients into cellular energy.

04 HEALTHIER, YOUTHFUL-LOOKING SKIN

Supports collagen and skin-cell protection through antioxidant balance.

A tiny molecule with a simple job.

H₂ reaches the cell, helps calm aggressive radicals, then supports your body's own protective response.

01 REACHES DEEP

Diffuses through cell membranes and can cross the blood–brain barrier.

02 ACTS SELECTIVELY

Helps neutralise damaging hydroxyl radicals (•OH). Water is formed during the reaction.

03 SWITCHES ON DEFENCE

Helps activate Nrf2—a cellular signal that turns on antioxidant defence and helps regulate inflammation.

WHAT THAT CAN MEAN FOR YOU

Skin. Sleep. Recovery. Energy.

Support for how you look, feel and live—every day.

Traditional continuous output

Old machines keep producing hydrogen whether you breathe in or out. During exhale and pauses, that hydrogen is not inhaled.

SOME HYDROGEN IS WASTED BETWEEN BREATHS.

THE NEW GENERATION

Breath-Sync™ Technology

HHUHU-EXCLUSIVE INNOVATION

Stores between breaths.

Ready for your inhale.

An integrated sensor coordinates the stored hydrogen with the moment airflow begins.

PAUSE + EXHALE: HYDROGEN ACCUMULATES

Same 500 cc/min
generation.
Focused delivery.

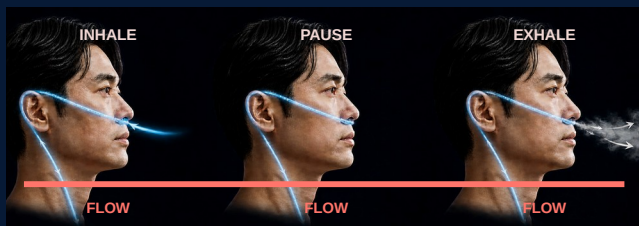
MADE TO FOLLOW YOUR NATURAL RHYTHM

Continuous flow runs nonstop. Breath-Sync™ Technology responds.



TRADITIONAL CONTINUOUS SYSTEM

Same output across every stage.

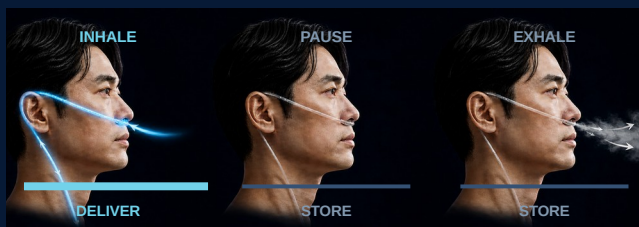


The machine cannot distinguish the useful moment from the rest of the cycle.

✓ **Hhuhu**

BREATH-SYNC™ TECHNOLOGY

A sensor responds to the start of airflow.



Hydrogen accumulates between breaths, ready for the next inhale.

LESS WASTE. MORE OF THE SESSION REACHING YOU.

3.52× more hydrogen in each inhale.

Illustrated with a typical 4-second breathing cycle

ONE TYPICAL BREATH · 4 SECONDS

INHALE

1.14 s

EXHALE

1.71 s

PAUSE

1.14 s

HYDROGEN GENERATION · 500 cc/min = 8.33 ml/s

TRADITIONAL CONTINUOUS

9.49 ml

Only the 1.14-second inhale
reaches you

8.33×1.14

500 PLUS · BREATH-SYNC™ TECHNOLOGY

33.32 ml

The full 4 seconds accumulate
for the next inhale

8.33×4

THE REAL ADVANTAGE

Not higher output. Better use of the same output.

Both systems generate 500 cc/min. Hhuhu stores hydrogen between inhales so more of that same output reaches you.

Illustration based on a typical four-second breathing cycle; individual breathing patterns and delivered concentration may vary.

Three technologies. One protected hydrogen path.

CORE ELECTROLYSIS

01

PEM-MEA

DUPONT™ NAFION® MEMBRANE

Pure water is electrolysed through a solid polymer proton-exchange membrane to produce a stable hydrogen stream.



99.999%

SGS-TESTED PURITY

HHUHU SIGNATURE TECHNOLOGY

02

APWS Technology™

AUTO-PHYSICAL WATER SEPARATION

Separates moisture before hydrogen reaches the nasal tube —helping keep delivery clean and comfortable.



HHUHU SIGNATURE TECHNOLOGY

03

AMD Platform™

ADVANCED MODULAR DESIGN

Integrates sensing, water-level detection, thermal management and automatic safeguards into one compact platform.



DESIGNED FOR STABLE DAILY USE

Clean generation. Dry delivery. Automatic protection.

Quiet enough to disappear into your evening.

Read. Work. Unwind. Breathe normally.

ONE BUTTON

Simple control

41 dBA

Quiet operation

500 cc/min

Stable hydrogen output

COMPACT DESIGN

Modern minimalist form

Technology that recedes into the routine.

Verified where it matters.

Purity. Electrical conformity. Measured flow.



SGS-TESTED

99.999%

HYDROGEN PURITY (v/v)

Formaldehyde, SO₂, Ar, CO₂ and CO:
NOT DETECTED

SGS Test Report DNG23B00017. The report details the analysis of hydrogen purity. The test results show a purity of 99.999% (v/v), which is within the specified range of 99.995% to 99.999% (v/v). The report also includes a table of test results for various impurities, all of which are not detected.

Test Item	Test Method	Test Result	Unit	Limit
Formaldehyde (HCHO)	Impurity rate and impurity detection limit	< 0.01	g/m ³	g/m ³
Sulfur Dioxide (SO ₂)		< 0.01	g/m ³	g/m ³
Argon (Ar)	Impurity rate and impurity detection limit	< 0.01	g/m ³	g/m ³
Nitrogen (N ₂)		< 0.01	g/m ³	g/m ³
Carbon Dioxide (CO ₂)		< 0.01	g/m ³	g/m ³
Carbon Monoxide (CO)		< 0.01	g/m ³	g/m ³
Purity	99.999% (the sum of all above items is specified)	99.999	%	99.995-99.999

REPORT DNG23B00017



EMC CONFORMITY



Assessed against the applicable
EMC standards listed in certificate
ISL-20LE142CE-R2.

532.08

ml/min

ITRI-MEASURED AVERAGE
FLOW

40 READINGS

SD 3.89 • RSD 0.73%

Measured on the submitted SE500
sample with an electronic
flowmeter.

REPORT G4-11207C03823

FULL REPORTS AVAILABLE FROM VELTA MALAYSIA

SGS DNG23B00017 • ISL-20LE142CE-R2 • ITRI G4-11207C03823

HHUHU 500 PLUS

Advanced hydrogen. Made simple.



DESIGNED FOR
SIMPLICITY



LIFT-UP ACCESS COVER

Access to water
tank

01 LIFT COVER

02 REFILL

03 CLOSE

BUILT FOR MODERN LIFE

Life asks a lot of you. Give your body time to recover.

Long hours, daily exposure and constant demands can add to oxidative stress. Hydrogen supports antioxidant balance—helping you reset and stay ready for what comes next.

SUPPORT FOR EVERY PART OF YOUR DAY

MORNING RESET

Start the day feeling refreshed and ready.

DAILY RECOVERY

Help your body recover from daily exposure and physical demands.

CLEARER FOCUS

Take a quiet pause to reset between busy moments.

EVENING WIND-DOWN

Settle into a calmer evening and prepare for restful sleep.

Precision you can see. Quality you can trust.

FLOW

500 cc/min

PURITY

99.999% — SGS
tested

WATER

Pure / distilled
TDS ≤ 2

TANK

600 ml tank
400 ml operating fill

POWER

AC 100–240 V
<240 W

RUN TIME

Up to 16 h / full tank

SIZE

260 × 229 × 280 mm

WEIGHT

5 kg main + 2 kg
accessories

ENVIRONMENT

Indoor; 5–30 °C

WARRANTY

2 years



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production.

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WHAT COULD A BETTER DAILY RHYTHM FEEL LIKE?



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