YBG GLOBAL · HORTICULTURE AGTECH

HERO Irrigation

Hydrogen Nano-bubble System — Technical Data Sheet



An industrial hydrogen nano-bubble system that dissolves hydrogen, generated on site from water, into irrigation water for greenhouse, nursery and horticultural operations.

Specifications

PERFORMANCE

Hydrogen water output	20 L/min
Dissolved hydrogen (sensor-verified)	3,000–5,000 ppb
Dissolved hydrogen (methylene-blue titration)	2,000–4,000 ppb
Hydrogen generation	On site from water (PEM/SPE electrolysis); nothing is added to the water
Output pressure	0–0.2 MPa
Input power	800 W
Voltage	100–240 V ±15%, 50–60 Hz

PHYSICAL

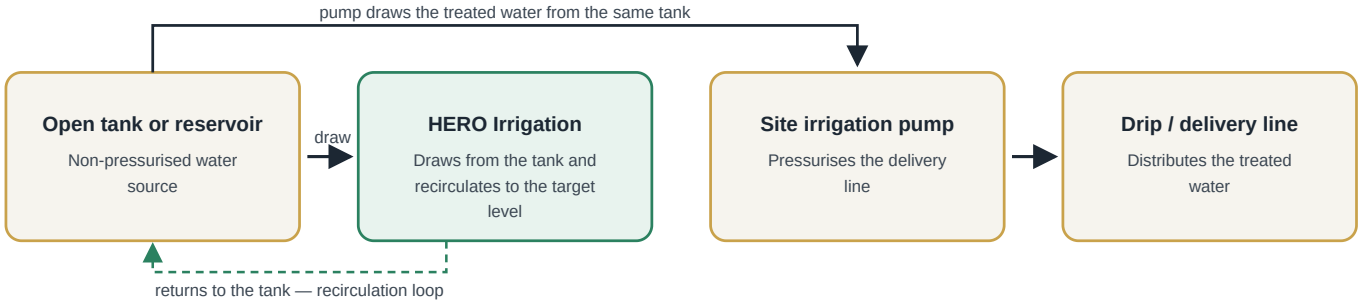
Product	HERO Irrigation Hydrogen Nano-bubble System
Form factor	Stainless-steel cabinet on casters, touchscreen HMI
Dimensions (W × D × H)	550 × 350 × 970 mm
Weight	83 kg (including accessories)
Protection	IP54 · Class I

INSTALLATION & OPERATION

Water connection	Draws from an open, non-pressurised reservoir and recirculates until the target dissolved-hydrogen level is reached; the site irrigation pump then pressurises the drip line. G1/2 thread, 8 mm push-fit outlet with valve, returning to the same tank. Do not connect the inlet to a pressurised supply or tap.
Electrolysis feed water (internal reservoir)	Distilled or RO water, TDS ≤ 50 ppm
Irrigation tank water	Suitability of your tank water — including bore, dam or fertigation solution — is confirmed with our engineers before order
Coverage	Up to ~10 ha of drip irrigation per unit, based on manufacturer guidance and reported deployments in China. Sizing for your operation is confirmed with our engineers before order.
Environment	Ventilated, away from heat sources and open flames — no direct sunlight
Placement	Horizontal, front panel facing the operator; properly grounded supply
Commissioning	Remote-guided commissioning included

Installation — open-tank method

The unit draws from an open, non-pressurised tank or reservoir and recirculates the water until the target dissolved-hydrogen level is reached; the site's irrigation pump then pressurises the delivery line.



Do not connect the inlet to a pressurised supply or tap.

Coverage: Up to ~10 ha of drip irrigation per unit, based on manufacturer guidance and reported deployments in China. Sizing for your operation is confirmed with our engineers before order.

What's included

Equipment	HERO Irrigation unit with its accessories
Commissioning	Remote-guided commissioning by our engineers

Warranty & returns

Warranty	24 months from delivery
Returns	90-day returns; customer pays return shipping

Delivery

DDP	Delivered Duty Paid — freight, import duties and taxes prepaid — to United States, Canada, Australia, New Zealand, Singapore, United Arab Emirates, Hong Kong, South Korea, Thailand
Other destinations	DAP — freight included; import duties, taxes and customs clearance payable by the buyer on arrival

Specifications are subject to change without notice. This document is for reference only and does not constitute a contractual offer. Where this sheet and the product page differ, contact us before ordering.