AEM WATER ELECTROLYSIS

HXD-V1

Deliveries from end of 2026

Modular Hydrogen Dryer

A modular dryer that removes moisture from wet hydrogen to reach 99.999%.



KEY RATINGS

99.999%	2.5 Nm^3/h	5 × HXB-V1
Hydrogen purity	Maximum flow	Units handled

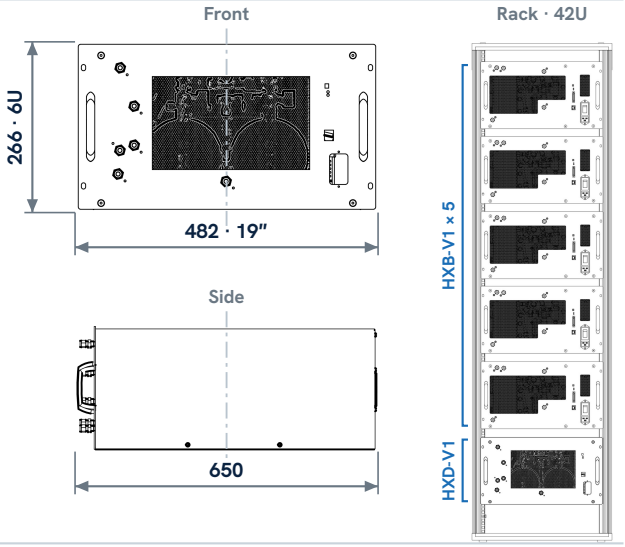
Product boundary · Standard supply

Dryer unit. Piping and installation are a separate scope of supply

HXD-V1 · ENGINEERING SPECIFICATIONS

Design specifications · operating range

Dimension drawing · rack layout



W × D × H 482 × 650 × 266

Performance

PERFORMANCE

Purity after drying	99.999%
Dew point	≤ -65 °C (atmospheric)
Maximum flow	2.5 Nm^3/h (5 × HXB-V1)
Operating pressure	10 barg standard · up to 35 barg on request
Regeneration H_2 loss	approx. 90 NL/h, regardless of unit count

Physical

PHYSICAL

Form factor	19″ rack mount · 6U
Size W×D×H	482 × 650 × 266 mm

Utility · safety

UTILITY · SAFETY

Adsorbent	Sealed · no replacement required
Regeneration method	Twin-tower alternating · heater purge
Power supply	AC 200-240 V · single-phase · 50/60 Hz
Power connection	IEC C14 inlet
Power consumption	approx. 300 W max
Regeneration cycle	Factory 12 h · heating 6 h · user-adjustable
Safety functions	Relief valve · overheat trip · leak sensor

Interfaces · Supply

INTERFACES · SUPPLY

H_2 inlet / outlet	1/4″ tube bulkhead
Required inlet pressure	min. 10 barg
Communication	Modbus TCP · MQTT/JSON
Firmware update	Wi-Fi OTA

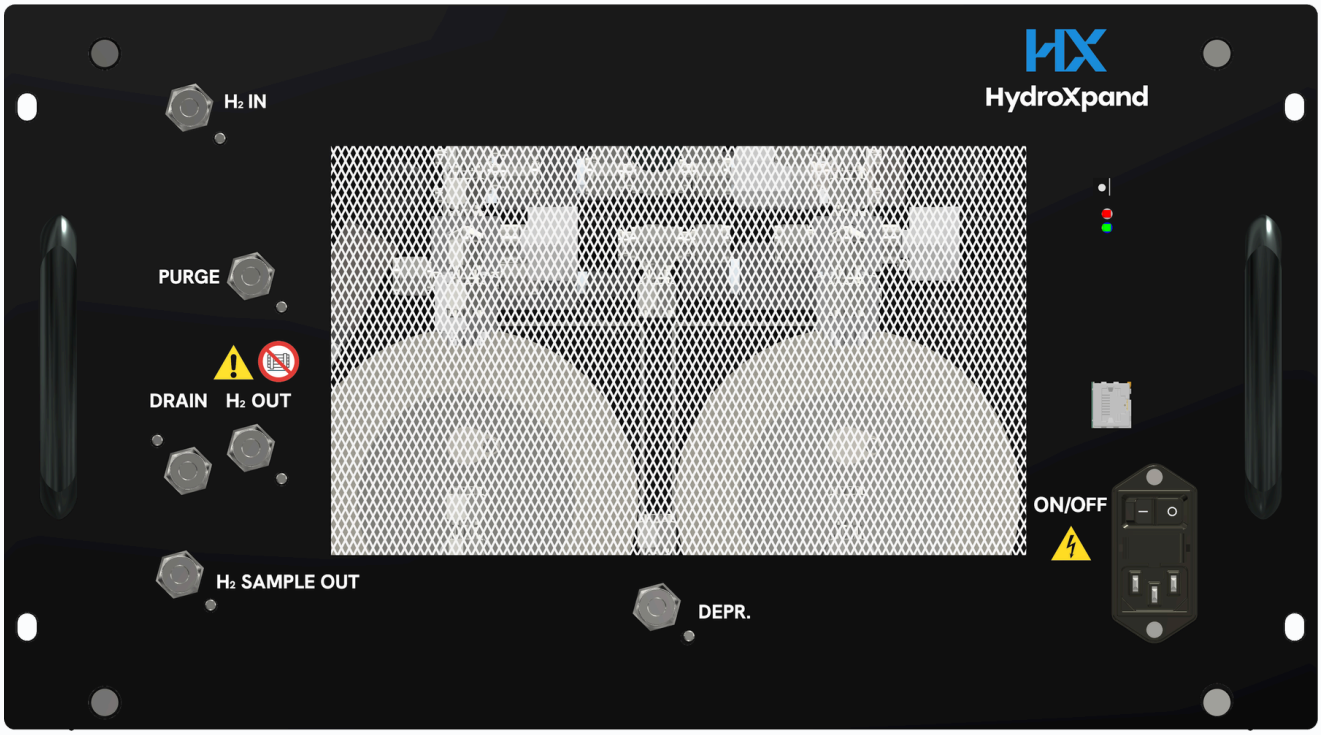
Notes

· Values are design values for a product in development and may change with the product version.
· Dew point is at atmospheric pressure, equivalent to about 5 ppm water.
· Power consumption is the maximum during regeneration heating.

HXD-V1 · PRODUCT VIEWS

Product views

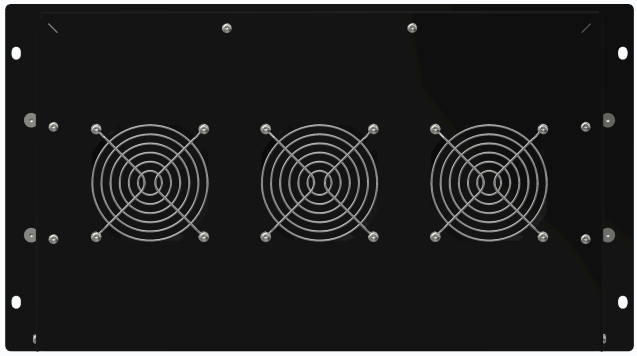
Front view, side depth and the rear ventilation fans are shown together for rack integration.



Front



Side



Rear

19-inch rack mount · 6U	482 × 650 × 266 mm	3D design rendering

Request a quote for HXD-V1 →

Specifications are subject to change without notice as products improve. Contract specifications will follow the quotation and approved drawings.