

Commercial deliveries have started

Electrochemical Hydrogen purification and compression

No moving parts

High reliability and availability

Low energy consumption

No vibrations

Compact

Silent

THE NEW STANDARD IN HYDROGEN COMPRESSION

HyET HCS100 H₂ Compression and Purification systems

2, 10 and 120 - 600 kg/day standard systems

Modular design: more stacks = more capacity

Up to 875 bar in a single stage, throughput from 0-100%

Proprietary highly efficient power electronics



	MoHyTO	Skid	Refueling station
Throughput (kg/day)	2	10	120
Input pressure (barg)	3-200	3-200	3-200
Output pressure (barg)	0-410	0-900	0-950
Footprint (m ²)	0.4	1.4	7.8
Weight (kg)	175	750	5000
Power Consumption (kW)	0.7	3.5	33
Number of stacks	1	1	12

RELIABLE
SILENT
COMPACT

HyET is now taking orders for delivery of EHC systems. Purchase and rental units available. Please contact info@hyethydrogen.com for more information.

MODEL	Skid 10kg/day
Operating input pressure	3 – 15 barg
Operating output pressure	410 barg/6000 PSI (900 barg/13000 PSI as an option)
Nominal hydrogen flow rate	4.65 m ³ /h (at STP)
Maximum hydrogen flow rate	7.23 m ³ /h (at STP)
Required input purity	99.9%; H ₂ O saturated, CO < 1ppm, CO ₂ < 2%, (0-100% H ₂ input purity as an option)*
Inlet connection	1/4 inch Swagelok tube fitting
Hydrogen purity output	99.999%
Hydrogen output temperature	35°C
Outlet connection	1/4 inch Swagelok medium pressure IPT fitting
Nominal compression energy consumption	8.5 kWh/kg (at nominal flow rate)**
Maximum compression energy consumption	13.2 kWh/kg (at maximum hydrogen flow rate)
Installed power	15 kW
Voltage	3 phase 400 VAC 50 Hz
Coolant	Demineralized water, other options possible
Ambient temperature range	+5°C to +30°C
Installation area	Indoor, non-ATEX zone (outdoor non-ATEX zone as an option)
Size (L x W x H)	1.5 x 0.9 x 2.0 m

Notes

* A CO/CO₂ tolerant membrane is under development

** Current developments will lead to significantly lower energy consumption rates.