

HyQube 500 v2



The HyQube 500 is a modular, scalable and redeployable hydrogen refuelling system. Delivering improved energy efficiency and a compact, user friendly design for space optimisation, the newly updated HyQube 500 is ideal for companies to implement a small to medium sized refuelling station.

Key benefits

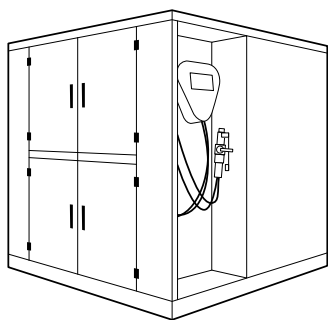
- Onboard variable speed air compressor and dryer
- User-friendly touchscreen interface
- Remote monitoring and control capabilities
- Built in safety shutdown systems
- Onboard air compressor and dryer
- Mass flow measurements (Coriolis)
- Compliance with updated ATEX safety standards

Applications

- Small-Medium Scale Hydrogen Fuelling Station
- Hydrogen Vehicle Testing
- Research and Development Projects
- Pairing with Green Hydrogen Electrolysis

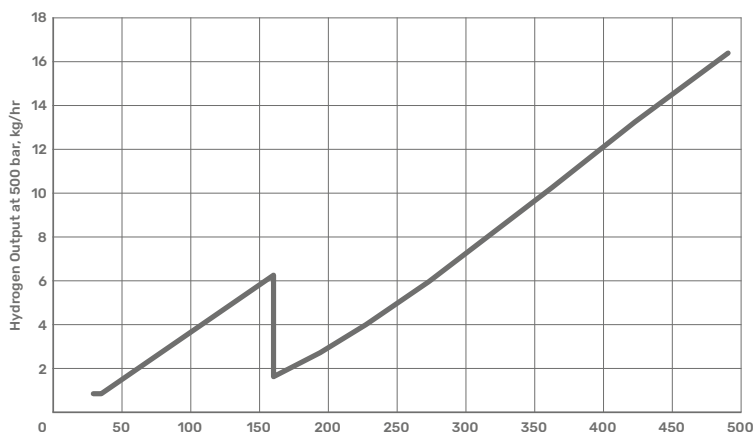
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SPECIFICATIONS



Operating Pressure	500 bar
Refuelling Pressure	350 bar
Refuelling Nozzle Options	350 bar / 350 bar with IR / 350 bar High Flow
Hydrogen Refuelling Capacity	Up to 45 g/s
Filling Protocol	SAE J2601 2010 / CEP TME
Input Pressure Range	30 - 500 bar
Hydrogen Compression Ratio	16:1
Hydrogen Compression Capacity	0.9 - 16 kg/hr
H2 Compressor Type	Air Driven
Ambient Temperature Range	1 to 55°C
Peak Current Draw	65A
Power Supply	400V AV, 50Hz, 65A 3P+N+E
Dimensions	2200 x 2200 x 2200 mm
Weight	1400 kg
Certifications	UKCA/CE, PESR/PED, BS EN IEC 60079-10-1:2021

HyQube 500 Compression Performance



HyQube 500 v2 Compression Rates

Input Pressure (barg)	35	100	200	300	400
Outlet Pressure (barg)	500				
Hydrogen Flow (kg/h)	0.88	3.73	3.00	7.24	12.14
Energy Consumption (kg of H ₂ /kW)	0.035	0.13	0.23	0.39	0.55

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