



H2Key Gen

H2Tec

INTEGRATED HYDROGEN GENERATION & REFUELLING

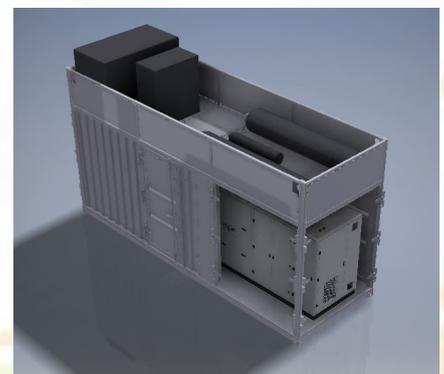


H2Tec's H2Key Gen is a self-contained, fully integrated hydrogen refuelling station for hydrogen vehicles. In its full format it generates hydrogen from local water and electricity supplies, and compresses, stores and dispenses it to provide an autonomous transport refuelling system.

The unit is equipped with both a hydrogen outlet to fill single cylinders or manifolded cylinder packs (MCPs) and hydrogen inlet from an external supply such as cylinder trailers, providing a flexible and resilient solution.

H2Key Gen has an ISO container footprint allowing it to be easily transported. The self-contained design removes the need for extensive site works keeping installation time and cost to a minimum.

H2Key Gen can be supplied in a combination of options to accommodate individual requirements. The normal provision includes hydrogen production by electrolysis, compression to 45MPa, on board HP storage, and dispensing for 35MPa refuelling. It can be supplied with optional 95MPa compression for 70MPa refuelling, and an electric vehicle charge point.



TYPICAL SPECIFICATION:

Hydrogen production:	21kg of H ₂ per day - sufficient to support 65 passenger vehicles*
Onboard storage capacity:	~1 Nm ³ : ~30kg @ 45MPa (450barg) - 95MPa (900barg) Refilling pressure 35MPa (350barg) - 70MPa (700barg)

SIMPLE UTILITIES REQUIRED:

Ground works:	Level supports at four corner to support 5t minimum at each corner
Electricity:	85kVA 400V TPN&PE
Water:	Mains or treated water <2μS conductivity, <1NI/Nm ³
Earth point:	Two at opposing corners (<10Ω at each point)

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*Assuming average mileage for a passenger vehicle of 12,000km per year and 100km/kg of hydrogen.