

# PIONEER HYDROGEN REFUELLING STATION



NanoSUN's innovative Pioneer™ Mobile Hydrogen Refuelling Station offers the lowest cost path to delivery and dispensing of transportation grade fuel at point of use.

Based on industry standard transport modules and incorporating NanoSUN's proprietary multi-stage cascade and hydrogen conditioning technologies, the Pioneer™ mobile HRS is capable of refuelling vehicles at up to 350 bar.

## Key Features

**Low cost:** capital cost <40% of fixed HRS as no compressor required at point of delivery

**Inherent reliability:** mobile nature means units can back each other up resulting in a more reliable refuelling network

**High utilisation of hydrogen payload,** at high fill pressures

**Requires no fixed utilities** so ideal for in-the-field applications



## System Specification

Low cost, light weight, type-4 cylinders for storage

Built into easily handled, containerised units (ISO or hook-load units of standardised sizes)

Maximum pressure of 350 bar

Filling time < 5 minutes

Dimensions: both 20ft and 40ft refueller containers available

*\*Filling time based on modelling for cars. Contact NanoSUN for information on filling time for trucks and buses*

## An ideal solution for deployment of growing fleets

Hydrogen Fuelled Product	Refueller Size (ft)	Number of Refuels		Total Hydrogen Delivered (kg)	
		>90 %	>70 %	> 90 %	> 70 %
Train	40	1	3	156	401
Bus	20	6	10	142	216
Generator	20	33	41	206	241
Car	20	72	101	173	272
Forklift	20	225	316	175	275

*\*Modelling available for customers to suit specified applications*

## Compliance

The Pioneer™ Mobile HRS is built in accordance with:

CE Marking

Transportable Pressure Equipment Directive (2010/35/EU, EN 12245-3, EN 13807)

Explosive Atmospheres Directive (2014/34/EU, EN 60079)

SAE Standards (J2600, J2700)

## Ordering Information

Part No	Description
R-350-14850-9GFV	Pioneer™121 Mobile HRS
R-350-29700-18GFV	Pioneer™141 Mobile HRS

Get More Information:



[www.nanosun.co.uk](http://www.nanosun.co.uk)