

HYDROGEN ON THE-GO

Technology & Design
Made in Germany

Re-Fueling Station

PRODUCT NAME

HydroFlow Refuel

PRODUCT CODE

HFS-20-LH-P

PRODUCT TECHNOLOGY

Compressed hydrogen dispensing

PRODUCT PACKAGE

Re-Fueling Station



Definition of the System

Our Hydrogen Re-Fueling Systems offer efficient, safe, and reliable solutions for refueling hydrogen-powered vehicles. Designed to meet the highest standards, these systems ensure fast re-fueling times, robustness and long-lasting durability.

System & Product Certificates



EFFICIENT, RELIABLE, & SCALABLE HYDROGEN PRODUCTION

Key Features



Rapid Refueling Time

5 minutes



Environmental Sustainability

Reduction of greenhouse emission



Scalable Design

Seamless integration of hydrogen compressors, storage tanks, dispensing units



Safety Standards

Adheres to rigorous European safety standards

The details and main characteristics outlined in this datasheet may exhibit minor variations. In light of continuous innovation and research and development improvements, RCT GH retains the authority to modify the information provided here at any time without prior notice.

Re-Fueling Station

HydroFlow Refuel



*Equipment parameters can be customized based on input pressure and re-fueling requirements

Technical Parameters*

Item	Value	Unit
Compressor Hydraulic Driven		
Power	55	KW
Inlet pressure	14~16	Bar
Discharge pressure	500/950	Bar
Capacity	200	Nm ³ /h
Dispenser		
Power	15	KW
Inlet pressure (H35)	≤ 500	Bar
Inlet pressure (H70)	≤ 950	Bar
Design pressure (H35)	482	Bar
Design pressure (H70)	950	Bar
Maximum Flow Rate	≤ 3.6	Kg/min
Measure accuracy	≤ ± 1.5	%
Refueling protocol	Meet SAE J2601-02;	
Compressor Chiller		
Outlet temperature of chiller	5~15	°C
Cooling capacity	60	KW
Inlet pressure	14~16	Bar
Discharge pressure	500/950	Bar
Capacity	200	Nm ³
Refrigerant	R410a	
Coolant	Deionized water	
Accumulator Type I 500/950 Bar		
Design pressure	552/1030	Bar
Working pressure	500/950	Bar
Water volume	4.145/0.5	m ³
Hydrogen storage capacity	~129.6/ ~24.2	Kg

Block Flow Diagram

