

Station Module – SM001

Compression and fast fueling of hydrogen for H2Station®

- World's most compact hydrogen station with a footprint of only 7.3m².
- Multiple dispenser connection options for fueling of cars, heavy duty vehicles and forklifts.
- Proprietary and high capacity cooling technology for -40°C 70MPa fast fueling of cars.
- Advanced control system for safe, fast and complete fueling in accordance with SAE J2601-1 v2016.
- State-of-the-art Mechanical and Safety Instrumented System design according to IEC61511.
- Reliable and non-contaminating hydrogen compression with high capacity and efficiency.
- Connects to separate Hydrogen Supply and Fueling Storage modules (SS001 and FS001).

Specifications

Maximum capacity:	35kg/h @70MPa fueling SAEJ2601-1 v2016 T40 120kg/h @35MPa fueling SAEJ2601-2
70MPa pre-cooling:	-40°C proprietary cooling technology with climate-friendly and European F-Gas regulation 2020 compliant refrigerant.
Operating pressure:	Inlet: 2-70MPa Maximum operating: 100MPa
Dispenser options:	Multiple dispenser connection options: <ul style="list-style-type: none">- 70MPa for Cars 1-7kg (DI001)- 35MPa for Heavy Duty Vehicle 10-50kg (DI002)- 35MPa for Forklifts <10kg (DI003)
Noise level:	Day time: LP: 60dB (A) (5m distance from Lw) Night time: LP: 50dB (A) (5m distance from Lw)
Dimensions:	L:3300mm W: 2200mm H: 3600mm (without chimney)
Weather resistance:	Suitable for outdoor installation
Operating temperature:	-20°C to 40°C
Scope and interface:	Turnkey module ready for connection to external: <ul style="list-style-type: none">- Fueling Storage (SF001),- Supply Storage (SS001) and- Multiple dispenser(s).- Remote chimney (optional)
Safety equipment:	Mechanical and Safety Instrumented System IEC61511
Electrical power supply:	200A 3x400V N 50Hz TN-S
Approvals & certifications:	<ul style="list-style-type: none">- CE marked- PED (2014/68/EU) Notified body Bureau Veritas

