



H2Station™

Hydrogen Refueling Station



	HS004 2-stage	HS-ABB LP Duplex	HS-AAA HP Duplex
Region	Europe	Europe	US
COMPRESSOR PERFORMANCE AND ENERGY CONSUMPTION			
*Energy consumption for compression of Hydrogen			
Inlet Pressure @20 MPa	50 kg/h & 1.1 kWh/kg	102 kg/h & 1.2 kWh/kg	
Inlet Pressure @45 MPa			121 kg/hr & 1.3 kWh/kg
COOLING PERFORMANCE			
Ambient Temperature @15°C	T20 - 109 kg/h T40 - 73 kg/h	T20 - 231 kg/h	T40 - 141 kg/h
SAFETY EQUIPMENT			
Key RCS	CE Marked Functional Safety EN61511	CE Marked Functional Safety EN61511	UL Approved Functional Safety EN61511

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FUELING INFORMATION			
Ambient temperature	-20 to 40°C		
Storage pressure level	22.5, 45 and 93 MPa	45 MPa	45 and 93 MPa
Fueling pressure	70 MPa 35 MPa	35 MPa	70 MPa 35 MPa
Inlet pressure range	3 - 20* MPa *can be increased by using a pressure regulator	3 - 45 MPa	6 - 50 MPa
Flowmeter / accuracy	Coriolis mass flow meter		
Fueling protocols	SAE J2601-1 (SAE J2601 -2)*	SAE J2601-2 - Optifill	SAE J2601-1 SAE J2601-2 - Optifill
	*SAE J2601-2 is used for for H35 fuelings		
Nozzle design	WEH TK 17	WEH TK 16 High flow	WEH TK 17
Point-of-Sale (POS) interface	IFSFS 2.32 and Gilbarco Two-Wire Protocol		
UTILITY REQUIREMENT			
Voltage	400 VAC Three phase + N	400 VAC Three Phase + N	480 VAC Three Phase + N
Current	150 A	225 A	250 A
Power factor	> 0.9	> 0.9	> 0.9
Inlet connection	Hydrogen Connection = 9/16" C&T MP or 13/16" - 16 UNF - C&T MP or 3/4" BSPT-M Pneumatic Connection = 12 mm hose RSI06.2100/RSI06.2101		
DIMENSIONS			
	Length	Width	Height
Station Module	3.3 m	2.2 m	3.6 m
Dispenser	0.5 m	0.7 m	2.5 m
Swap Panel	1.3 m	1.2 m	2.0 m
Storage Vessels	7 - 12.3 m	0.6 - 2.4 m	0.6 - 2.4 m



*Specifications are subject to change. Please contact Nel Hydrogen for solutions to best fit your needs.

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