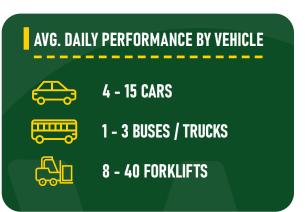


HYDROGEN SMART CONTAINER (HSC)

The HSC is a complete hydrogen refueling station in a 20" container. It contains compression, storage and dispensing. The small electrical connection load and the easy portability make it a perfect solution for small fleets as well as for mobile applications like shows, testcases or starting periods.

- Hydrogen dispensing system at 350 and / or 700 bar.
- To be used with different hydrogen sources (electrolyzer, bundles and trailers).
- O Cascade refueling.
- O Dispense cooled or uncooled at 350 and / or 700 bar.
- An external chiller and heat exchanger for T20, T30 or T40.
- Internal storage capacity of 70 kg.
- Option: additional external buffer storage can be added.
- O Different refueling protocols available (SAE J2601, JPEC, customized versions).

STATE-OF-THE-ART HYDROGEN REFUELING







HSC in use in Madrid, Spain.

REFUELING PERFORMANCE*	N° vehicles in a row	Refueling time (min.)	
HSC SUPPORTED BY 300 BAR H2 TRAILER	1	5-30	20-30
HSC SUPPORTED BY 300 BAR H2 TRAILER	1	10-25	40-120
		;	,

TECHNICAL DETAILS



GENERAL SPECS:

Dimensions (W x L x H)	20' (6,06 m x 2,44 m x 2,59 m)
Weight (basic configuration)	up to 9.000 kg
Operating display	7" HMI daylight viewable on dispenser
Frame and wall	Steel (powder coated)
Ambient temperature range	-20°C to +40°C
Standards, Guidelines	Machinery Directive 2006/42/EC
	Low Voltage Directive 2014/35/EU
	EMC Directive 2014/30/EU
	ATEX Directive 2014/34/EU
	Pressure Equipment Directive (PED) 2014/68/EU
	IEC 61508 - Functional safety of electrical/electronic/programmable electronic safety-related systems
	ISO 19880-1
Control system	Siemens S7-1500 (failsafe)
Refueling protocoll	All state-of-the-art protocols are implemented (SAE J2601, CEP, customized solutions are possible)
Branding	Wolftank branding**

INTEGRATED DISPENSING SYSTEM:

Nozzle & hose	TK-17, 350 and / or 700 bar
Flame detection system	Temperature sensor
Payment system	OPTIONAL *
Login via RFID	OPTIONAL * (e.g., Login via RFID, Password,)
Remote maintenance	OPTIONAL (integrated GSM router or hardwired) *
Calibrated flow control	OPTIONAL *
H ₂ cooling system	OPTIONAL * designed as an external system (e.g. container aside or rooftop system)
Infrared communication according SAE J2799	OPTIONAL*
H ₂ pressure supply Maximum Allowable Working Pressure (MAWP)	420 bar (H35); 920 bar (H70)

INTERNAL COMPRESSOR:

Compressor type	Hydraulic
Compressor range	20 to 900 bar
Compression rate	Up to 40 Nm3 / hr

INTERNAL H_2 Storage:

H ₂ supply pressure	at 550 bar 2 sections
Internal storage capacity 550 bar	2-3 sections at 700 ltr. each
Internal storage capacity 920 bar	1 section at 200 ltr.
Additional external sections	OPTIONAL *

RESOURCES REQUIRED

Electrical power (basic version)	400 V, 3 phase, 50 Hz, 100 A consumption, 125 A connection
N° of H2 supply inlet connectors	2 (30 up to 500 bar) *
Additional ressources	Defined by the installation permit



HSC from the inside.



Wolftank Group

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^{*} Selection required
** Custom branding option available. Basic Wolftank brand rules apply.