MAXIMATOR®
HYDROGEN

Data sheet

MAX Dispenser 1.5

Fueling the Future.

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developed with the experience of more than 75.000 fuelings

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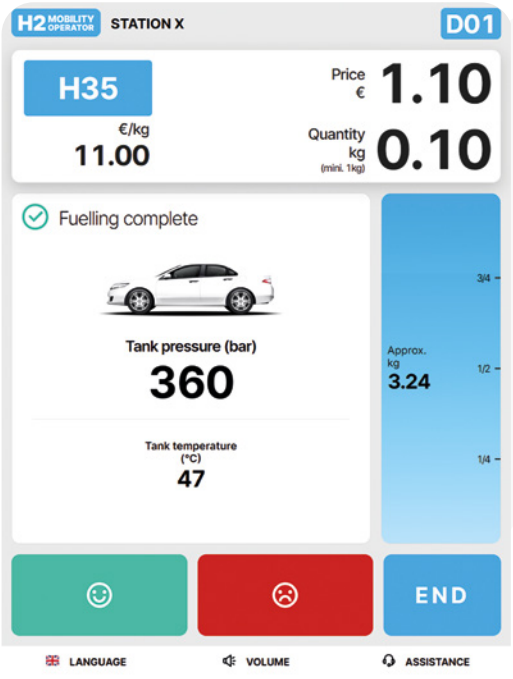
Conclusion

For station owners and operators

- Single set-up & back-to-back configuration
- Outstanding accessability & maintainability
- Integrated analytics solution with MAXIMATOR Hydrogen Cloud
- Customizable branding
- Fueling of 700 bar trucks with > 10 kg fill quantity possible
- Dispenser types: H70-F60, H35-F120 & F60 (incl. or excl. pre-cooling) and H70-F300



For users

- Cutting edge user interface by FillnDrive
- Island orientation for dual-lane-usability
- Industry leading safety measures
- Seamless user experience with proven technology, digital instructions and supporthotline

All information is provisional and non-binding.
Changes are possible at any time.

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Preliminary Data Sheet: General Features

General Features

Chassis Design	Maximator Hydrogen GmbH & Henssler und Schultheiss Design
Set-up	Single & Back-to-Back
Orientation	• Single: Island- or lane oriented • Back-to-Back: Island oriented
Dimensions	700 mm x 600 mm x 2750 mm
Power	220 VAC, 50 Hz, 16A
Operating temperature	-40 °C to +50 °C
Documentation	• Holistic operating manual including installation, operation & maintenance • Complete package for local authorities (permitting), notified bodies (certification) and operators (operating manual) • Factory acceptance test (FAT) including fueling performance test • Site acceptance test (SAT) including fueling performance test
Point of Sale connection protocol	IFSF LON
User Interface	• FillnDrive 15" Versatile Calculator with Indicating Device (VCID) • Integrated speakers and microphone for first-level support • Touchscreen for operational commands and customer journey • NFC reader • Prepared for integration of banking card reader, PIN-pad & receipt printer
Fueling equipment	WEH, Walther, Stäubli, Elaflex and others
Vehicle communication	Infrared acc. to SAE J2799
Protection marking	• Integral electrical cabinet IP54 • Complete cabinet IPX3 / IK09
Suitable regions	EU & Switzerland
Type portfolio	• H70-F60 pre-cooled (primarily Light Duty, usable f. Heavy Duty) • H35-F120 pre-cooled (Heavy Duty 350 bar) • H35-F120 non-pre-cooled (Heavy Duty 350 bar) • H35-F60 pre-cooled (Light Duty 350 bar) • H35-F60 non-pre-cooled (industrial trucks, forklifts, etc.) • H70-F300 pre-cooled (max 300 g/s; Heavy Duty 700 bar) (pending standardization)

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Preliminary Data Sheet: H70 Configuration

H70 Configuration

Working pressure (NWP)	700 bar
Refueling temperature	-17,5 °C to -40 °C
Fueling protocol	SAE J2601 (2020) – MC formula-based fueling protocol
Vehicle tank sizes	Light duty vehicles & Heavy duty vehicles with H70 receptacle (ISO 17268)
Chilling	Integrated heat exchanger and control elements for CO2 circuit
MOP (Pw)	Inlet section 920 bar / Fueling section 875 bar
MAWP (Ps)	Inlet section 1034 bar / Fueling section 962,5 bar
Inlet gas temperature (Ts)	-40 °C to +65 °C
Conformity with codes and standards	CE marking; PED 2014/68/EU; ATEX 2014/34/EU; SAE J2601; ISO 19880; EN17127; DIN EN 61511; OIML R139
Interfaces	• Hydrogen supply • Venting lines • Power supply • Communication to HRS • Cooling circuit lines (CO2) • External emergency shut down options
Maintenance access	• 4 side panels, 1 front panel, hood removeable • Multimedia-display enabled for operating MAXIMATOR's maintenance HMI
Installation	• Base frame with interface hole pattern for site-groundworks • Piping connections interfaces are designed with bulkhead connections. Quick, simple and no need for hot-work permits.
Selected safety measures	• Double-Block-And-Bleed • SIL functions protecting against gas concentration, overpressure, overtemperature and exceeding max. flow rate • Tilt sensors for vehicle impact scenarios • Combination of chassis-design and hose-break-away function allows for wide angle of drive-away-scenarios • No hose-entanglement due to single hose set-up • 5 micrometer coalescing inlet-filter
Additional engineering features	• Combined connection for nitrogen flushing, test sensor connection (re-calibration of SIL functions) and external venting (3rd party commissioning and calibration equipment)

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10/2023