

**MAXIMATOR®**  
**HYDROGEN**

Data sheet  
**MAX** Dispenser 1.5



Fueling the **Future.**

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# MAX Dispenser 1.5

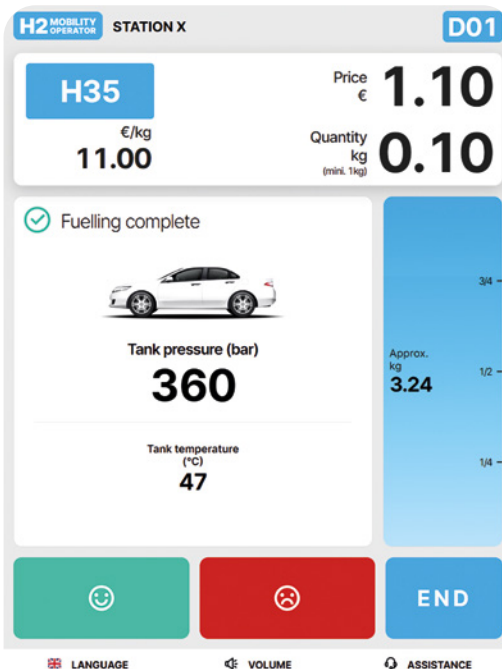
developed with the experience of more than 75.000 fuelings



## Conclusion

### For station owners and operators

- ✓ Single set-up & back-to-back configuration
- ✓ Outstanding accessibility & maintainability
- ✓ Integrated analytics solution with MAXIMATOR Automation 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 support hotline

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

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## Preliminary Data Sheet: General Features

|                                   |  |
|-----------------------------------|--|
| Chassis Design                    | Maximator Hydrogen GmbH & Henssler und Schultheiss Design  |
| Set-up                            | Single & Back-to-Back  |
| Orientation                       | <ul style="list-style-type: none"> <li>• Single: Island- or lane oriented</li> <li>• Back-to-Back: Island oriented</li> </ul>  |
| Dimensions                        | 700 mm x 600 mm x 2750 mm  |
| Power                             | 220 VAC, 50 Hz, 16A  |
| Operating temperature             | -40 °C to +50 °C   |
| Documentation                     | <ul style="list-style-type: none"> <li>• Holistic operating manual including installation, operation &amp; maintenance</li> <li>• Complete package for local authorities (permitting), notified bodies (certification) and operators (operating manual)</li> <li>• Factory acceptance test (FAT) including fueling performance test</li> <li>• Site acceptance test (SAT) including fueling performance test</li> </ul>                              |
| Point of Sale connection protocol | IFSF LON   |
| User Interface                    | <ul style="list-style-type: none"> <li>• FillnDrive 15" Versatile Calculator with Indicating Device (VCID)</li> <li>• Integrated speakers and microphone for first-level support</li> <li>• Touchscreen for operational commands and customer journey</li> <li>• NFC reader</li> <li>• Prepared for integration of banking card reader, PIN-pad &amp; receipt printer</li> </ul>   |
| Fueling equipment                 | WEH, Walther, Stäubli, Elaflex and others  |
| Vehicle communication             | Infrared acc. to SAE J2799   |
| Protection marking                | <ul style="list-style-type: none"> <li>• Integral electrical cabinet IP54</li> <li>• Complete cabinet IPX3 / IK09</li> </ul>   |
| Suitable regions                  | EU & Switzerland   |
| Type portfolio                    | <ul style="list-style-type: none"> <li>• H70-F60 pre-cooled (primarily Light Duty, usable f. Heavy Duty)</li> <li>• H35-F120 pre-cooled (Heavy Duty 350 bar)</li> <li>• H35-F120 non-pre-cooled (Heavy Duty 350 bar)</li> <li>• H35-F60 pre-cooled (Light Duty 350 bar)</li> <li>• H35-F60 non-pre-cooled (industrial trucks, forklifts, etc.)</li> <li>• H70-F300 pre-cooled (max 300 g/s; Heavy Duty 700 bar) (pending standardization)</li> </ul> |

General Features

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## Preliminary Data Sheet: 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                          | <ul style="list-style-type: none"> <li>Hydrogen supply</li> <li>Venting lines</li> <li>Power supply</li> <li>Communication to HRS</li> <li>Cooling circuit lines (CO2)</li> <li>External emergency shut down options</li> </ul>   |
| Maintenance access                  | <ul style="list-style-type: none"> <li>4 side panels, 1 front panel, hood removeable</li> <li>Multimedia-display enabled for operating MAXIMATOR's maintenance HMI</li> </ul>   |
| Installation                        | <ul style="list-style-type: none"> <li>Base frame with interface hole pattern for site-groundworks</li> <li>Piping connections interfaces are designed with bulkhead connections. Quick, simple and no need for hot-work permits.</li> </ul>  |
| Selected safety measures            | <ul style="list-style-type: none"> <li>Double-Block-And-Bleed</li> <li>SIL functions protecting against gas concentration, overpressure, overtemperature and exceeding max. flow rate</li> <li>Tilt sensors for vehicle impact scenarios</li> <li>Combination of chassis-design and hose-break-away function allows for wide angle of drive-away-scenarios</li> <li>No hose-entanglement due to single hose set-up</li> <li>5 micrometer coalescing inlet-filter</li> </ul> |
| Additional engineering features     | <ul style="list-style-type: none"> <li>Combined connection for nitrogen flushing, test sensor connection (re-calibration of SIL functions) and external venting (3rd party commissioning and calibration equipment)</li> </ul>  |

H70 Configuration

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