

# MULTI UNIT HYDROGEN FUELER (MUHF)

The MUHF revolutionizes the hydrogen fueling with its versatile connection and control system, designed to adapt to evolving demands. It ensures hydrogen refueling for a variety of vehicles.

- Integrated heat exchanger to be combined with high performance chillers for T20, T30, or T40 refueling.
- Can be combined with compressors of different compression capacity and with buffers of different storage size for high performance refueling stations.
- Designed to refuel a wide range of vehicles, including trains, trucks, buses, cars, forklifts and boats.
- Works with one or two dispensing points in varied combinations (350, 700, 350/350, 350/700, 700/700).
- Broad refueling protocol support: SAE J2601, CEP, and custom options for all cooling scenarios.
- Designed for easy transportation and installation.

MODULAR  
UPGRADES BASED ON  
DEMAND CHANGES

## ONE SOLUTION TO MANAGE A COMPLETE REFUELING STATION:

1. **Connect** up to 3 hydrogen sources for cascade refueling.
2. **Standalone technology.** Can be easily adapted to changing demand and needs.
3. Able to **control** most compressors and storage.
4. 350 or 700 bar version available, based on **demand**.
5. Can **incorporate** a pneumatic compressor up to 920 bar.
6. **Easy and quick adaptation** to storage, compressor and chiller.



PATENT PENDING

## AVG. DAILY PERFORMANCE BY VEHICLE



50 CARS



20 BUSES



100 FORKLIFTS

Performance can increase or decrease based on selected configuration.



## GENERAL SPECS:

|                              |  |
|------------------------------|--|
| Dimensions (W x L x H)       | 2,4 m x 2,8 m x 2,2 m  |
| Weight (basic configuration) | Approx. 1700 kg  |
| Operating display            | 7" HMI on the electrical cabinet for complete system visualization   |
| Operating display            | 7" HMI daylight viewable on dispenser  |
| Frame and wall               | Steel (powder coated)  |
| Ambient temperature range    | -20°C bis +40°C  |
| Standards, guidelines        | Machinery Directive 2006/42/EC<br>Low Voltage Directive 2014/35/EU<br>EMC Directive 2014/30/EU<br>ATEX Directive 2014/34/EU<br>Pressure Equipment Directive (PED) 2014/68/EU<br>IEC 61508 - Functional safety of electrical/electronic/programmable electronic safety-related systems<br>ISO 19880-1 |
| Control system               | Siemens S7-1500 (failsafe)   |
| Refueling protocol           | 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 750 bar                         |
| Payment system                             | OPTIONAL *  |
| Authentication                             | OPTIONAL *<br>(e.g., Login via RFID, Password, ...) |
| Remote maintenance                         | OPTIONAL (integrated GSM router or hardwired)       |
| Calibrated flow control                    | OPTIONAL *  |
| Infrared communication according SAE J2799 | OPTIONAL *  |

## RESOURCES REQUIRED

|  |  |
|--|--|
| Electrical power                             | 230 VAC, 50 Hz, 500 W  |
| Air supply                                   | Instrument air, dry and oil-free<br>6 to 10 bar, 15 NI per refueling process |
| N° of H <sub>2</sub> supply inlet connectors | 2 (200 up to 500 bar) *  |
| Additional resources                         | Defined by the installation permit   |



\* Selection required

\*\* Custom branding option available. Basic Wolftank brand rules apply.