

Celly



MODULAR ADVANCED HYDROGEN REFUELING STATIONS



SAFE

Compliant to HGV 4.1:20 & 4.9:20, and NFPA2 with J2601-1 & J2601-2. Including: IR communications, integrated venting, and fire detection protocols



RELIABLE

System component monitoring for maximum uptime and extended component life



SCALABLE

Turnkey systems engineered to fit your application and H2 fueling needs, H35, H70, T20-T40, and storage options

MODELS

MAHRS-LTE

INTERMITTENT FUELING

Temperature controlled regulated fill for H35, direct from higher pressure storage for smaller fleets

MAHRS-PRO

BACK TO BACK FUELING

H35 & H70 applications with compression and chilling for increased flow rates and faster fills. Chilling capabilities to T20, T30 and T40.



281-299-4180



11745 Cude Cemetery Rd, Willis, TX 77318



www.cellyh2.com



sales@cellyh2.com

“Revolutionizing the energy industry with low-carbon hydrogen”

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MAHRS-PRO

MAHRS-Pro is an advanced turnkey hydrogen refueling system with simplicity in mind. Designed to fit your application specific needs, with capabilities that can support any fueling requirements.



“Fueling the Future”

CAPABILITIES

- T20, T30, T40
- H35 & H70
- TK16, TK17, TK25 High Flow Nozzles
- Buffer storage can be added
- Consolidation capable
- Modular
- Strategically zoned classification areas
- Dual dispensing/redundant nozzles
- Back to back vehicle fills
- Upgradable logic for resilience against changing regulations

WHY CHOOSE US

- Industry leading components
- Decades of integration experience
- Designed for your specific needs
- Safety centric



COMPRESSION

Capable 350 Bar up to 700 Bar with inlet pressure as low as 3 Bar



CHILLING

On demand chilling with low Global Warming Potential(GWP), closed loop cooling media. No system recovery requirements



STORAGE AGNOSTIC

Compatible with permanent, buffer and modular or trailer-based storage at varying pressures



FLOW RATE

Components supporting avg 1-4kg/min, flow increasing options such as buffer & consolidation



DISPENSING

Multiple options from mechanical to fully automated accommodating for varying rates of fill, POS, and adherence to J2600, J2601-1, J2601-2 & J2601-5

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MAHRS-LTE

MAHRS-LTE is a modular take on dispensing in its simplest form. This solution can fill directly from storage without the need for a chiller. Its rudimentary design enables regulated filling while still integrating controls to manage safety.

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DISPENSING

Dispensing with HMI and PLC controls to fine tune the filling protocol for the application. Cascade and direct fill dispensing capable



FLOW RATE

2kg/min based on inlet pressure and ambient temperatures. Consolidation flow rates up to 20kg/hr based on inlet pressure



STORAGE AGNOSTIC

Compatible with permanent or modular based high-pressure storage. Simultaneous fill and consolidation optional with Celly Smart Storage & buffer solutions

Capabilities

- Reduced maintenance
- Compact
- Cost effective
- Reduced lead times
- IR Communications
- Booster option allows for consolidation up to 20 kg/hour
 - *Consolidation requires smart buffer solution

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CALL US 281-299-4180

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Modular Advanced Hydrogen Refueling Stations



MAHRS Capabilities	LTE	PRO
NFPA2, HGV 4.1:20 & 4.9:20	X	X
H35	X	X
H70		X
Compression	X	X
Chilling (T20,T30,T40)		X
Consolidation	X	X
IR Communication Capable	X	X
J2600 & J2601-1 & J2601-2	X	X
SAE J2799		X
Requires Electric 480V, 3PH, 50Amp	X	X
H2 & Flame detection	X	X

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