



Chemtec
NEW ENERGIES



MODULAR ADVANCED HYDROGEN REFUELING STATION



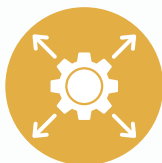
SAFE

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

INTERMITTENT FUELING

MAHRS-LTE Slow fill for H35, direct from higher compression pressure storage for smaller fleets.

BACK TO BACK FUELING

MAHRS-PRO 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



www.chemtecnewenergies.com



Andrew.Mahon@chemtecnewenergies.com

“Empowering tomorrow’s drives”

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.

“Empowering tomorrow’s drives”

Capabilities

- T20, T30, T40
- H35 & H70
- TK16, TK25 High Flow Nozzels
- Buffer storage can be added
- Consolidation capable
- Modular
- Strategic 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 pressures as low as 3 Bar



CHILLING

On demand chilling with low 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 and adherence to J2600, J2601-1 & J2601-2

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 controlled filling while still integrating controls to manage safety.



“Empowering tomorrow’s drives”



DISPENSING

Mechanical dispensing with optional HMI and PLC controls to fine tune dispensing needs for the application



FLOW RATE

Slow .5kg/min fill rate perfect for overnight filling



STORAGE AGNOSTIC

Compatible with permanent or modular based high-pressure storage.

Capabilities

- Regulated fill based on temp and pressure
- Reduced maintenance
- Small footprint
- Cost effective
- Reduced lead times
- IR Communications

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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
<.5 kg/min target avg fill rate	X	
1- 4 kg/min target avg fill rate		X
Destination vehicle comm's	X	X
Buffer storage compatible	X	X
J2600, J2601-1 & J2601-2	X	X
SAE J2799		X
Requires Water		X
Requires Electric 480V, 3PH, 50Amp	X	X
H2 & Flame detection	X	X



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🌐 ChemtecNewEnergies.com

✉ Andrew.Mahon@ChemtecNewEnergies.com