



Mobile Hydrogen Refueling Station



Whether you need to meet carbon intensity reduction goals or attain sustainability targets, Linde Service Inc. can assist with meeting your fueling objectives.

The future of hydrogen

Hydrogen has a wide variety of uses across industry and the economy as a whole. Those uses are expanding every day as we look to alternatives to lower the carbon intensity of the cars we drive, the trucks that haul goods, the electricity that powers our homes and the products that we use every day.

One way to decarbonize transportation is to replace fossil fuels, such as diesel, with hydrogen produced from renewable feedstock and/or lower-carbon power energy. The utilization of hydrogen fuel cell technology coupled with Linde low to zero carbon intensity hydrogen makes significant reduction of greenhouse gas pollutants a reality, creating a healthier environment for our people and our planet.

The mobile refueler concept

To facilitate this reality, Linde offers a complete portfolio of equipment to accommodate any size fleet. Linde realizes that scale takes time and has engineered a mobile refueler for small demo-size requirements.

The mobile fueler is designed to support 1 – 5 zero emission vehicles (350 bar) and consists of a 500-bar high pressure gaseous tube trailer that is coupled with a PLC controlled dispensing pod. The PLC provides industry leading safety and efficiency with fully automated cascade fills to zero emission vehicles..

Benefits of our mobile fueler include:

- Quick & flexible installation and removal
- Safe & Efficient operation
- No permanent infrastructure required
- Proof of concept
- Confidence in technology for permanent installations

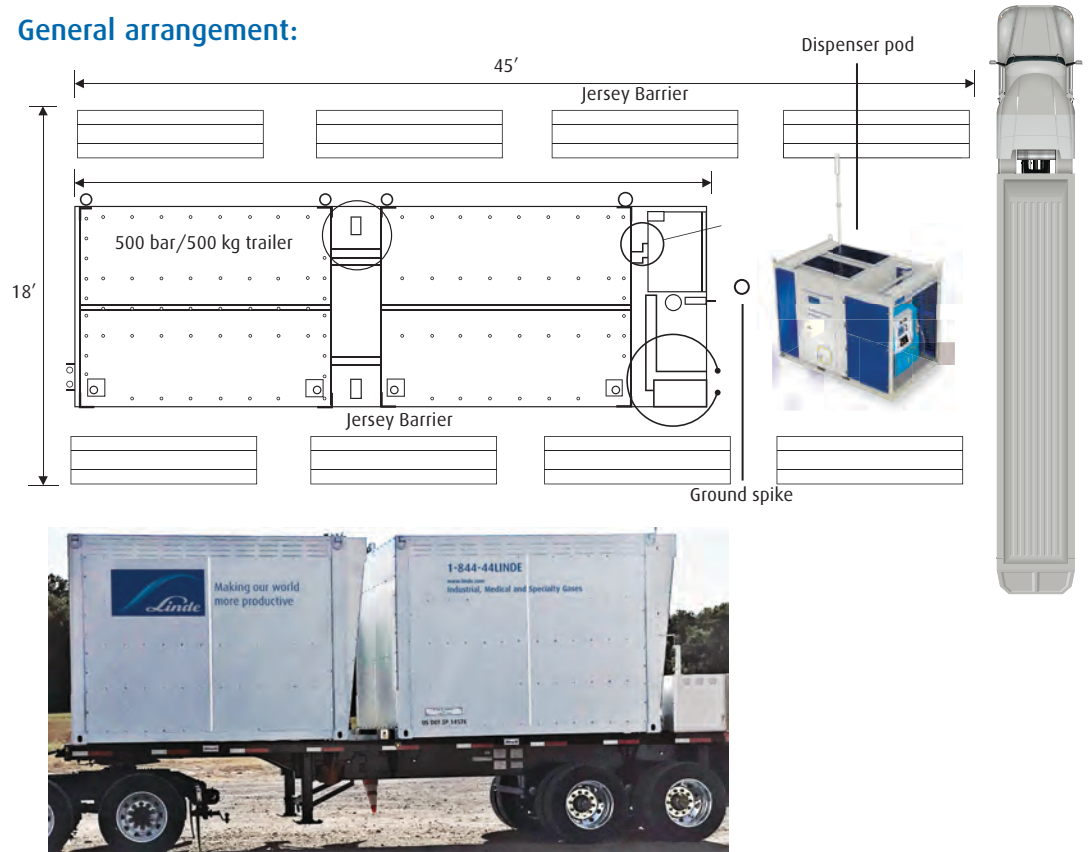
Hydrogen fueling, delivered

The refueling unit is delivered by trailer capable of holding two container units. The installation arrangement incorporates the dispenser unit container along with protection barriers and space for the hydrogen delivery trailer behind the refueler station container.

Specifications

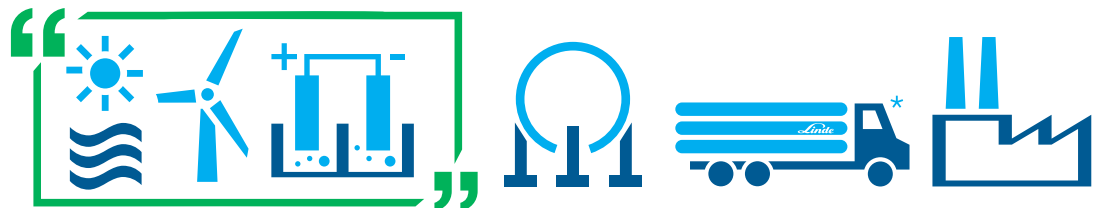
- Power requirement 110V/15A
- Automated cascade refueling
- Integrated SAE compliant dispenser
- Fuels up to 350 bar
- General footprint 18 ft x 45 ft

General arrangement:



Lower-carbon intensity hydrogen production

An example of lower carbon intensity production pathway utilizing carbon-free energy and electrolysis:



*no change to delivery mechanism using diesel-based fuels.

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