The Plug TL-5000K

As the leading manufacturer of expertly engineered cryogenic trailers, Plug's liquid hydrogen trailers provide the highest level of performance, safety, thermal efficiency, and product longevity.



Plug Sets a New Standard for Liquid Hydrogen Distribution

Plug's TL-5000K is a vacuum-insulated, cryogenic tandem semi-trailer optimized for transporting liquid hydrogen over US highways at 80,000 lb MGVW.

Our custom design approach, focused on maximizing payload for specific customer applications, has propelled us to the forefront of mobile cryogenic trailer design. We are industry leaders, and our commitment to continuous improvement is a key factor in our success.

Our cryogenic trailer furthers Plug's mission of providing low-cost liquid hydrogen, reducing cost-of-ownership, and driving higher earnings for every client.

Product Specifications

Largest Volumetric Capacity
Our liquid hydrogen trailers are the lightest on the market, which allows us to achieve superior volumetric capacities of 80,000 lb MGVW.

Superior Payloads
Plug's innovative design approach elevates the transportation of hydrogen by providing best-in-class payloads of 9,923 lb at 17 psi fill density.

Exceptional Experience
After 11 years of refining our design and manufacturing expertise, Plug offers unmatched, high-quality solutions to the rapidly evolving market.

Product Specifications:	**TL-5000K**
Performance	
MAWP:	155 psig (10.69 bar)
DOT Max Operating Pressure:	170 psig (11.72 bar)
Warm Water Capacity:	18,234 US gal (69,023 L)
Cold Water Capacity @ Vent Inlet	18,052 US gal (68,338 L)
Design Temperature:	-423°F to 150°F (-252.8ºC to 65.55ºC)
Maximum permissible weight of liquid at 17 PSI:	9,923 lb (4,501 kg)
Tare weight (+/-3%):	46,123 lb (20,921 kg)
Physical	
Length	52 ft 11.5 in (16.14 m)
Height	12 ft 11in (3.94 m)
Other	
Design codes	ASME SEC VIII, DIV 1
Compliance/certifications	49CFR 178.38 (MC-3388), CA 40' KPRA
Normal Evaporation Rate (NER)	0.5% / day