



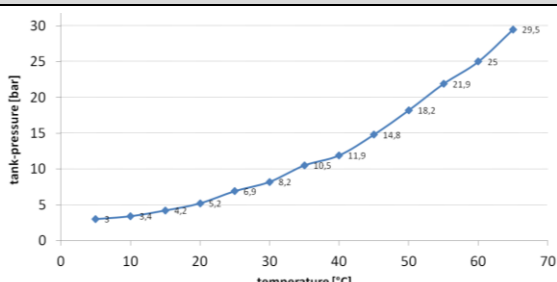
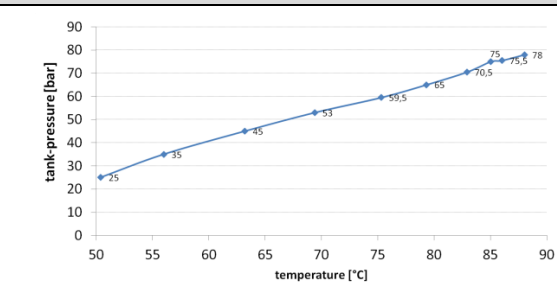
H2Tank2Go®

solid state Hydrogen tank powered by RT-MH Hydrolium®
 core unit of Power to Gas to Fuel - P2G2F®

refueling at home or replacing at any home-depot / tank vending machine
 Nanostructures for Zero Emission Future Transportation & Energy

H2Tank2Go®	at a glance
	<ul style="list-style-type: none"> • high energy storage capacity at low volume • safe hydrogen storage by solid state absorber • virtually pressure-less, MOT-approval pending • replacing tanks in seconds by “click'n'go system” • flexible multi-tank-operation, brilliantly simple • for mobile & stationary use, existing infrastructure • sustainable, clean and cost effective

technical data	handling & application
H ₂ -capacity (50g guaranteed; future target 100g)	50g, 556 NL, 1,67 kWh
operating temperature	0 - 80°C
REC charging max. pressure	15 bar 30 bar
operating pressure	< 10 bar
dimensions	D70 x L330 mm
total weight volume	4,2 kg 0,95 l
quick connector valve	Zoz-H2G1
burst pressure tolerance	84 - 96 bar (at 20°C) 78 - 90 bar (at 85°C)
material valve	brass
material vessel	stainless steel
metal hydride material	Hydrolium®
storage capacity (Hydrolium®)	ca. 1,8 wt%
REC H ₂ quality for charging	3.0 (or better)
lifetime (proper handling assumed)	> 20 years
	 <p>replaced at a tank vending machine, six on the IronBird PowerBox</p> <p>two on a kickboard isigo®H2.0, six on a ZEV trunk or a small aircraft</p>

pressure curve without “on-top pressure”	pressure curve with “on-top pressure” of 15 bar
 <p>Graph showing tank-pressure [bar] vs temperature [°C] without on-top pressure. The curve shows an exponential increase in pressure with temperature, reaching 29.5 bar at 70°C.</p>	 <p>Graph showing tank-pressure [bar] vs temperature [°C] with an on-top pressure of 15 bar. The curve shows a more linear increase in pressure with temperature, reaching 78 bar at 90°C.</p>

charging with hydrogen, heat-removal, on-top pressure release
<p>Charging is recommended at 15 bar hydrogen pressure. For heat removal during the same, keeping the H2Tank2Go® in a water bath is sufficient. It is advised to remove the 15 bar “on-top-pressure” right after charging in order to guarantee better handling of the quick connector (click'n'go). In order to keep the H₂-desorption constant even at higher consumption rates, the tank shell temperature shall be at above 50°C (use e.g. hot water bath, waste heat of fuel cell, etc.).</p>

P2H® | P2G2F® | Hydrolium® | H2Tank2Go® | isigo® | are registered trademarks of Zoz Group

technical data subject to alterations