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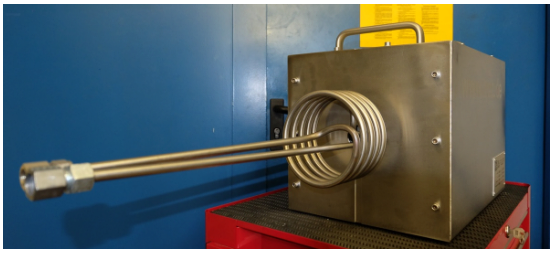
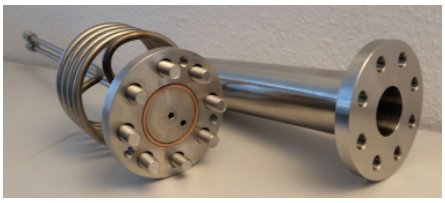
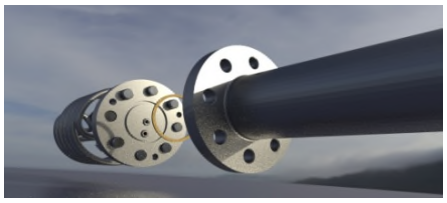
H2 pilot-tank system H2-HyEc

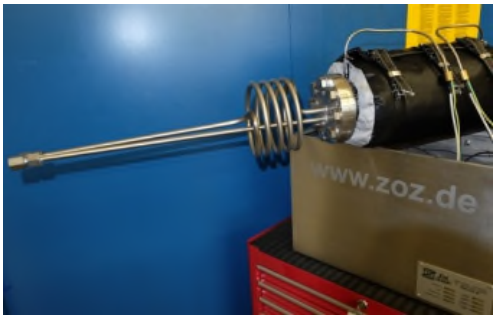
HySCORE & ECOSTORE

R/D-device • single module • solid state

for a fast, reliable and high capacity solid state hydrogen storage future

H2HyEc pilot-tank	at a glance
	• robust & reliable hydrogen storage tank for general research purposes • stationary use, multi MH-systems • safe hydrogen storage by solid state absorber • sustainable, clean and cost effective

technical data		handling
H2-capacity	for multi MH systems	
operating temp. | pressure	0 - 400 °C | 100 bar	
REC charging | max. pressure	50 bar | 100 bar	
dimensions over all	1000 x 400 x 360 mm	
tank weight | volume	10,2 kg | 648 ml	
tank box total weight	30 kg	
system control box	7 kg, separated	standard flange connectors (DIN-ISO)
target certification	AD2000 (TÜV-CEOC)	
material vessel and box	diff. steels, all stainless	
metal hydride material	multi	
H2-cyclability	choose MH system	
REC H2 quality for charging	3.0 (or better)	
lifetime (proper handling assumed)	> 20 years	

H2-HyEc	
	

handling & application
H2-HyEc tank system is designed for utilizing a variety of different H2-storage materials for testing and comparison. As each metal hydride material will react in a different manner, the boundary conditions are defined at a max. temp. and pressure of 400°C and 100 bar. Particular purpose of H2-HyEc are different approaches to handle MHs within a superordinate structure.