

Compared to standard pressurized hydrogen storage, metal hydride tanks offer a large range of benefits:

- SAFE - hydrogen is stored in solid state
- HIGH STORAGE DENSITY - even higher than liquified hydrogen by volume
- PURITY - released hydrogen purity exceeds 5N
- CYCLE LIFE - more than 2000 cycles are guaranteed
- SIZE FLEXIBILITY - easy to change the tank size and more compatible to your system

Applications:

- Micro fuel cell systems
- Fuel cell education kits
- Portable hydrogen storage
- Lab instrument hydrogen supply

MINI-SIZE

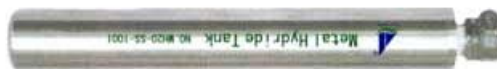
5NL



10NL



20NL



MIDSIZE

150NL -A



150NL -B



300NL -A



300NL -B



500NL



600NL -A



600NL -B



LARGE SIZE

2000NL



5000NL



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SPECIFICATION

Tank	Storage capacity	Discharge pressure (@20°C)	Flowrate (@25°C)	Recharge time (@20°C water bath)	Heat supply	Metal alloy	Dimensions	Gross weight	Life cycle
MH5	5NL	0,2MPa	0,1NL/min	< 20min	Air convection	AB ₅	Ø18xL62mm	75g	>2000
MH10	10NL	0,2MPa	0,1NL/min	< 20min	Air convection	AB ₅	Ø25xL48mm	115g	>2000
MH20	20NL	0,2MPa	0,5NL/min	< 30min	Air convection	AB ₅	Ø20xL158mm	400g	>2000
MH150-A	150NL	0,3MPa	0,5NL/min	< 30min	Air convection	AB ₅	Ø60xL165mm	1,85kg	>2000
MH150-B	150NL	0,3MPa	0,5NL/min	< 30min	Air convection	AB ₅	Ø54xL180mm	1,6kg	>2000
MH300-A	300NL	0,3MPa	2-3NL/min	< 30min	Air convection	AB ₅	Ø47xL360mm	3kg	>2000
MH300-B	300NL	0,3MPa	2NL/min	< 30min	Air convection	AB ₅	Ø59xL230mm	3kg	>2000
MH500	500NL	0,3MPa	3NL/min	< 30min	Air convection	AB ₅	Ø59xL370mm	5kg	>2000
MH300-1x2	600NL	0,3MPa	2-3NL/min	< 30min	Air convection	AB ₅	50x105x420mm	6,5kg	>2000
MH600-A4	600NL	0,3MPa	2-3NL/min	< 30min	Air convection	AB ₅	115x115x240mm	6,7kg	>2000
M2MP	2000NL	0,3MPa	30NL/min (30°C water bath)			AB ₅	480x180x180mm	25kg	>2000
MH5M	5000NL	0,3MPa	30NL/min (30°C water bath)		30-40°C water bath	AB ₅	Ø132xL700mm	48kg	>2000

ACCESSORIES

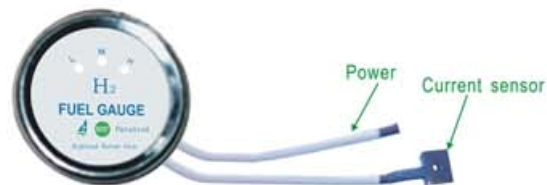
Water jacket (ref. HLWJ)

Sealed housing applicable to MH5M, the jacket is designed to optimize the water cooling/heating of the 5000NL MH tank.



Fuel gauge

- Fuel gauge for metal hydride tanks applicable to fuel cell systems.
- LED or digital display
- 12/24V DC power supply



Hydrogen pressure reducer

- Weight: 100g
- Dimensions: Ø27x36mm
- Inlet pressure: <10bar
- Outlet pressure: <0.3bar
- Flow rate: 2NL/min
- Connection: Ø4mm tube



Connectors

- HLCQ01 for MH5, MH10
- HLCQ02 for MH20, MH600-A, MH600-B
- HLCQ03 for MH150-B, MH300, MH500, MH5M

