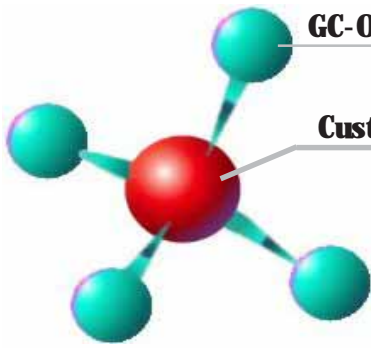


GC-O / GC/MS

Customer support



H Bank Hydrogen storage Specs



- **High Reliability & Safety**
- **Great Longevity**
- **Deliver ultra high purity hydrogen**

Hydrogen storage solutions - Specifications

Parameter	HB-SC-0050-Q	HB-SC-0100-Q
Hydrogen Storage Capacity (Liters)	50± 5%	100± 5%
Raw Hydrogen Purity (%)	> 99.99	> 99.99
Hydrogen Charge Pressure (MPa)	2.5 3.5 (25°C)	2.5 3.5 (25°C)
Charge Environmental temp (°C) (< 25°C recommended)	0 - 35	0 - 35
Hydrogen Discharge Pressure (Mpa)	>0.1, <1.0 (25°C)	>0.1, <1.0 (25°C)
Hydrogen Discharge Purity (%)	> 99.9999	> 99.9999
Hydrogen Discharge Flow Rate (L/min)	< 0.2 (25°C)	< 0.2 (25°C)
Environmental Temperature (°C)	5 to 20	5 to 20
Heat Exchange Method	Air Convection / Water Bath	
Valve Type	SS-QC4-B-400IS Swagelok quick connector (with 1/4" or 1/8" tube fitting)	
Dimensions (mm)	32 ^{OD} x 200 ^L	32 ^{OD} x 200 ^L
Total Weight (Kg)	0.65	0.65
Dimensions (inches)	O.D.x L 1 1/4 x 7 7/8	O.D.x L 1 1/4 x 7 7/8
Total Weight (Lb)	1	1

Parameter	HB-SC-0300-N	HB-SC-0600-N
Hydrogen Storage Capacity (Liters)	300± 5%	600± 5%
Raw Hydrogen Purity (%)	> 99.99	> 99.99
Hydrogen Charge Pressure (MPa)	2.5 3.5 (25°C)	2.5 3.5 (25°C)
Charge Environmental temp (°C) (< 25°C recommended)	0 - 35	0 - 35
Hydrogen Discharge Pressure (Mpa)	>0.1, <1.0 (25°C)	>0.1, <1.0 (25°C)
Hydrogen Discharge Purity (%)	> 99.9999	> 99.9999
Hydrogen Discharge Flow Rate (L/min)	< 0.7 (25°C)	< 0.5 (25°C)
Environmental Temperature (°C)	5 to 20	5 to 20
Heat Exchange Method	Air Convection / Water Bath	
Valve Type	Swagelok SS316 needle valve (with 1/4" tube fitting)	
Dimensions (mm)	60 ^{OD} x 280 ^L	75 ^{OD} x 360 ^L
Total Weight (Kg)	3.1	6.1
Dimensions (inches) O.D.x L	2 1/3 x 11	2 1/3 x 11
Total Weight (Lb)	7	13

Parameter	HB-FR02-0500-B	HB-PR 1800	HB-PR 2400
Hydrogen Storage Capacity (Liters)	500± 5%	1800± 5%	2400± 5%
Raw Hydrogen Purity (%)	> 99.99	> 99.99	> 99.99
Hydrogen Charge Pressure (MPa)	2.5 3.5 (25°C)	2.5 3.5 (25°C)	2.5 3.5 (25°C)
Charge Environmental temp (°C) (< 25°C recommended)	0 - 35	0 - 35	0 - 35
Hydrogen Discharge Pressure (Mpa)	>0.1, <1.0 (25°C)	>0.1, <1.0 (25°C)	>0.1, <1.0 (25°C)
Hydrogen Discharge Purity (%)	> 99.9999	> 99.9999	> 99.9999
Hydrogen Discharge Flow Rate (L/min)	< 0.5 (25°C)	< 1.5 (25°C)	< 2.0 (25°C)
Environmental Temperature (°C)	5 to 20	5 to 20	5 to 20
Heat Exchange Method	Air Convection / Water Bath		
Valve Type	Swagelok SS316 needle valve (with 1/4" tube fitting)		
Dimensions (mm)	185 ^L x 120 ^W . x 120 ^H	335 ^L x 345 ^W . x 160 ^H	335 ^L x 345 ^W . x 300 ^H
Total Weight (Kg)	7.5	20	27
Dimensions (inches) LxWxH	7 1/4 x 4 5/8 x 4 5/8	13 1/4 x 13 1/2 x 6 1/4	13 1/4 x 13 1/2 x 12
Total Weight (Lb)	17	44	60

BRECHBÜHLER
scientific analytical solutions
AG

Steinwiesenstrasse 3, CH-8952 Schlieren, Switzerland
Tel: +41 44 732 31 31 - Fax: +41 44 730 61 41
www.brechbuehler.ch - info@brechbuehler.ch

Brechbühler SA
Ch. de la Meunière 12, 1008 Prilly, Switzerland
Tel: +41 21 625 58 10 - Fax: +41 21 625 58 12

BRECHBÜHLER
scientific analytical solutions
INC.

3845 FM1960 RD W # 275 - Houston, TX 77068 - USA
Tel: +1 281 880-6963 Fax: +1 281 880-9496
www.brechbuehler.com - info@brechbuehler.com