

**CIMC ENRIC**  
中集安瑞科

**SHIJIAZHUANG ENRIC GAS EQUIPMENT CO., LTD**

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**CIMC ENRIC**  
中集安瑞科

# PRODUCT BROCHURE

石家庄安瑞科气体机械有限公司  
SHIJIAZHUANG ENRIC GAS EQUIPMENT CO., LTD





139 Patents



50+ Years Pressure Vessel  
Manufacturing History



18,000  
Cylinders of Annual Output



40+ Countries

Your Global Partner in Gas Industry.

# QUALIFICATIONS



- ISO 9001:2000

- ISO 14001:2004

- ISO 18001:2007

- ISO 11120 Factory Approval Certificate

- TPED(B)Certificate for tube as per ISO11120

- PED Certificate for tube

- PESO Certificate

- Inspection Certificate as per ISO11515

- Certificate of Factory Approval by BV

- DOT 3AA,3AAX,3T

- ASME U, U2&U3 for pressure vessels

- National Board registration for pressure vessels

- SAE J2343 test approval for LNG vehicle tank

- Canadian Registration Number for LNG storage tank

- TC(Transport Canada)3AAXM &3TM Certificate

- Gas Container (MEGCs)Certificate byABS

- KGS(Korea Gas Safety Corporation)Certificate

- Certificate of Approval For Portable Tank by CCS

- Russia TP TC Certificate

# Scope



## Hydrogen Station

### Product features:



Integrated on-site hydrogen



Capacity 100-500kg/d



Equipped with the integrated hydrogen refueling device, plug and fueling.



CO<sub>2</sub> liquid recollected and generate the methanol again with green hydrogen, achieving carbon free circulation.



## Storage

### Application in America



Working Pressure 48MPa, Design Pressure 50MPa

### Application in Europe



30MPa Type II application in EU

Working Pressure 100MPa, Design Pressure 100MPa

### Application in Korea



Working Pressure 10MPa, Design Pressure 55MPa

### Application in China



40MPa vessel service in Shanghai Expo

70MPa H2 Fueling station



70MPa cascade service for Bodo Forum in Hainan

National 863 project in 2015- Fully wrapped cylinder



The National 863 Project - the first 70MPa hydrogen refueling station in China. ENRIC 70 MPa carbon wrapped cascade had successfully passed the test, which reaches the world's leading level in technology. It is also the first company in the world to adopt carbon fiber full-winding reinforcement technology in seamless steel cylinder, and this product has obtained multiple invention and patents.



90MPa cascade service in Hainan

Design pressure (bar(g))	Operating Temperature (bar(g))	Compliance Code	Total Capacity (in water liter)	Tare Weight (in KG)	Gas Weight (in KG)	Vessel Size(OD*L length)
275	-40 to +60 Deg.C	ASME+PED	1530	3193	27	559 X 8235 MM
330	-40 to +60 Deg.C	ASME+PED	1910	3780	40	359 X 10100MM
552	-40 to +60 Deg.C	ASME+PED	860	4092	20	406 X 10975 MM
1030	-40 to +60 Deg.C	ASME+PED	501	4240	20	406 X 8500 MM

Transport



Linde



Messer



Pressure	Size	Tube	Water Volume	Gas Volume	Gas Weight	Loaded Weight	Codes
700bar	40ft	Type I	23.2m <sup>3</sup>	4175Nm <sup>3</sup>	148kg	26700kg	ISO11120, TPED, ADR, IMDG
250bar	20ft	Type I	11.7m <sup>3</sup>	3693Nm <sup>3</sup>	105kg	25480kg	ISO11120, TPED, ADR, IMDG
300bar	40ft	Type III	39.61m <sup>3</sup>	10100Nm <sup>3</sup>	843kg	25168kg	ISO11119-2, TPED, ADR, IMDG
350bar	40ft	Type III	30.51m <sup>3</sup>	8821Nm <sup>3</sup>	736kg	26651kg	ISO11119-2, TPED, ADR, IMDG

H2 MEGCs



20MPa MEGCs



30MPa MEGCs



30MPa MEGCs



30MPa MEGCs

2022 - Winter Olympics



Three hydrogen storage and transport trailers were the main operators of the fuel of the motor vehicle of the Winter Olympics

2010 National 863 project



10MPa Mobile Compressed Storage for Storage Caps

2011 Shenzhen Universiade



40MPa Mobile Fueling Station

# Application



Easy Line Oil, Gas and Hydrogen Comprehensive Energy Station



Oil, Gas, Hydrogen and Electricity Comprehensive Energy Station (Weifang Zhucheng)



2010 National 863 project



10MPa Mobile Compressed Storage for Storage Caps

2011 Shenzhen Universiade



40MPa Mobile Fueling Station

## Industrial & Specialty Gas Product

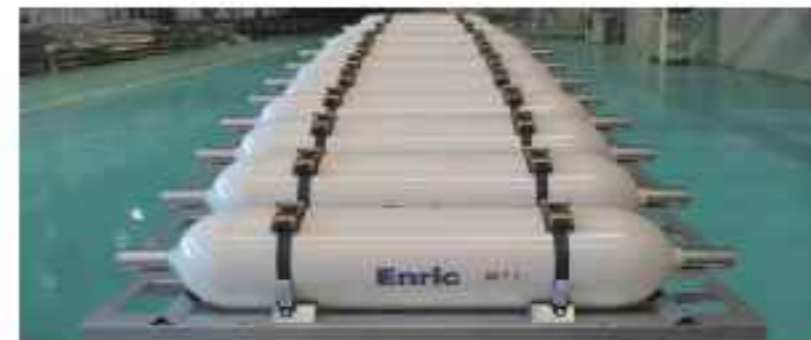


### MEGCs FOR SPECIAL GAS



Item	Parameters
Nominal Working Pressure Mpa	16.6/20
Working tempe °C	-10~60
MEGC Length feet	20/40
Suitable Medium	
Permanent Gas	Fluorine nitrogen mixture, carbon monoxide, carbon monoxide and hydrogen mixture, phosphane and hydrogen mixture, etc.
Liquefied Gas	Hydrogen chloride (HCL), phosphine hydrogen (PH <sub>3</sub> -H <sub>2</sub> ), nitrous oxide (N <sub>2</sub> O), silane (SiH <sub>4</sub> ), nitrogen trifluoride (NF <sub>3</sub> ), tetrafluoromethane (CF <sub>4</sub> ), sulfur hexafluoride (SF <sub>6</sub> ), boron trifluoride (BF <sub>3</sub> ), trifluoromethane (CHF <sub>3</sub> ), etc.
Manufacture Standard	1. MEGCs inspection specification - multiple classification societies - export boxes or intermodal boxes 2. Enterprise standard + gas cylinder safety technical supervision regulations + mobile pressure vessel safety technical supervision regulations + CCS container inspection specifications - domestic low boxes

## Y cylinders



Item	Parameters
Nominal Working Pressure Mpa	16.6
Working Temperature °C	-40~60
Design thickness of wall mm	15
Classis volume L	400/470
Suitable Medium	
Permanent Gas	Fluorine nitrogen mixture, carbon monoxide and its mixture with hydrogen, phosphane and hydrogen mixture, etc.
Liquefied Gas	High pressure liquefied gas: anhydrous hydrogen chloride, nitrous oxide, silane (SiH <sub>4</sub> ), nitrogen trifluoride, tetrafluoromethane, sulfur hexafluoride, silicon tetrafluoride, boron trifluoride, hexafluoroethane, carbon dioxide, vinylidene fluoride, xenon, trifluoromethane, etc. Low pressure liquefied gas: ammonia, chlorine, octafluoropropane, octafluorocyclobutane, boron trichloride, hydrogen bromide, etc.
Manufacture Standard	1. ADR, RID, TPED, ISO, DOT/UN - export cylinders or intermodal cylinders 2. Product standard + gas cylinder safety technical supervision regulations - domestic use of gas cylinders

## Others-CNG Carrier

The World's First CNG Carrier



## Others-CNG



## Others-LNG

Cryogenic Product—LNG Container



## LNG Tank Semi-Trailer



## Others – LPG, Ammonia Transport

