

On the way to this challenging
journey towards decarbonisation
the role of clean hydrogen is crucial



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HYDROGEN PRODUCTION EQUIPMENT

Starting a safe, secure and practical journey to carbon zero

- ▶ provide on-site hydrogen production solutions
- ▶ ahead technology with high efficiency
- ▶ support customers to reduce carbon emissions
- ▶ focus on new technologies and new applications

CPU Hydrogen Power Technology (Suzhou) Co., Ltd.

www.cpuh2.cn



CPU Hydrogen

Own the core technology of electrolytic water hydrogen production

- Highly qualified R&D and engineering team
- Great advantage in hydrogen production system design
- Provide design, installation, commissioning, training and other services

CPU Hydrogen Production System



Basic Configuration

Rectifier and transformer

Regulate input voltage and convert AC to DC power

Gas-liquid separator

Separate hydrogen and oxygen from water

Optional hydrogen purification system

If required, hydrogen can be further purified in fuel cell quality (99.999%)

Electrolyser

Transfer water into hydrogen and oxygen

Feed water tank

Purify tap water to deionized water

Control room

Centralize plant logic control and safety control system

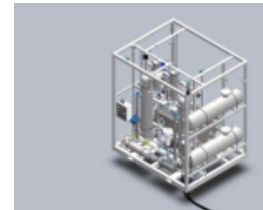
CE certification and multiple invention patents



Product series

➤ Serie-P

recommended for projects with a capacity of 50 Nm³/h



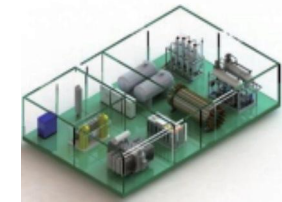
➤ Serie-C

recommended for projects with a capacity of 200 Nm³/h



➤ Serie-D

recommended for projects with a capacity of 1000 Nm³/h



The Main Technical Parameter

	Serie-P	Serie-C	Serie-D
Design capacity H2	50 Nm ³ /h	200 Nm ³ /h	1000 Nm ³ /h
Hydrogen Purity	≥ 99.9%	≥ 99.9%	≥ 99.9%
Hydrogen Purity (Purification)	99.999%	99.999%	99.999%
Oxygen Purity	≥ 98.5%	≥ 98.5%	≥ 98.5%
Temperature	85-90°C	85-90°C	85-90°C
System Pressure	1.60 MPa	1.60 MPa	1.60 MPa
DC Power Consumption	≤ 4.5 kW · h/(Nm ³ H2)	≤ 4.5 kW · h/(Nm ³ H2)	≤ 4.5 kW · h/(Nm ³ H2)
Dimension	3000*2000*3200 mm Cabinet design	40 ft Container design	approx. 500 m ² Plant design

