Wide Power Range Adjustable Electrolyzer and Separation & Purification Unit



Product Parameters

MAIN PERFORMANCE INDICATORS OF 1,000 NM3 ELECTROLYZER

1,000 Nm3/h electrolyzer Technical indicator parameter Rated DC voltage 720V Rated DC current 6600A 1.6MPa System pressure ≤5min (@ 50°C) Hot start time Hydrogen purity after drying and purification 99.999% 800-1000L/h Demineralized water consumption ≥1000Nm3/h Hydrogen output ≥500Nm3/h Oxygen output ≤4.4kWh/Nm3H2 DC power consumption 25%-110% Operating range

TECHNICAL OPTIMIZATION

- Small zero-gap chambers are used to optimize the design of bafflesand flow chan-nel structures, improving the uniformity of flow and temperature fields; Explosion-proof design
- Unique alkali solution distribution structure is designed to ensure consistent tempera-ture control among individual small chambers along the axial direction of the electro-lyzer, with a temperature difference of less than 5'c between the inlet and outlet.
- Ternary electrodes with high activity and large specific surface area are used toreduce overpotentials for both HER and OER, resulting in a 10% increase in currentdensity;
- Dual-valve parallel regulation is integrated for system pressure, enabling precise control of system pressure at low load.