

Gas-Liquid Separation System

RCT HyMax



Hydrogen and oxygen exit the electrolyzer through their respective convergence channels along with the lye and enter the gas-liquid separator. Due to gravity, the hydrogen (or oxygen) and lye settle and separate. The separated hydrogen (or oxygen) exits from the upper part of the separator and moves to the hydrogen (or oxygen) heat exchanger, where it is cooled. Liquid droplets are removed from the top of the separator through the hydrogen washing separator. The hydrogen pressure is then regulated by a hydrogen regulating valve and directed downstream.

Technical Parameters

Item	Unit	200/1.6	500/1.6	1000/1.6
Hydrogen treatment capacity	Nm ³ /h	200	500	1000
Purity of hydrogen at the outlet	%	≥99.8	≥99.8	≥99.8
Purity of oxygen at the outlet	%	≥98.5	≥98.5	≥98.5
Temperature of hydrogen at the outlet	°C	<40	<40	<40
Dimensions of Gas-liquid separation skid	mm	3000*2700*3800	5400*3200*3950	4800*3600*5800
Weight of Gas-liquid separation skid	kg	8000	11000	20000