

100 – 200 – 300S

# AES

Acta Energy's 100, 200 and 300S stacks produce dry, pure and compressed hydrogen at 30 bar. Innovative technology, patented by ACTA and using solid polymeric membrane, produces hydrogen of excellent quality at the low cost typical of liquid electrolyte electrolyzers. Acta's stacks can be used in electrolyzers for the distributed generation of hydrogen in domestic, industrial and vehicle applications, combined directly with intermittent renewable energy (wind and solar).

## FEATURES

- Produces compressed, pure, dry hydrogen at 30 bar
- Directly interfaced with renewable power sources
- Safe
- Compact
- Simple
- Low cost, competitive to liquid electrolyte systems

## HYDROGEN SPECIFICATION

H<sub>2</sub> Purity: 99.94 % @ 30 bar (without any purification system)  
99.999% with optional purification system  
Purity residual: H<sub>2</sub>O @ 30 bar 600 ppm

## WATER SPECIFICATION

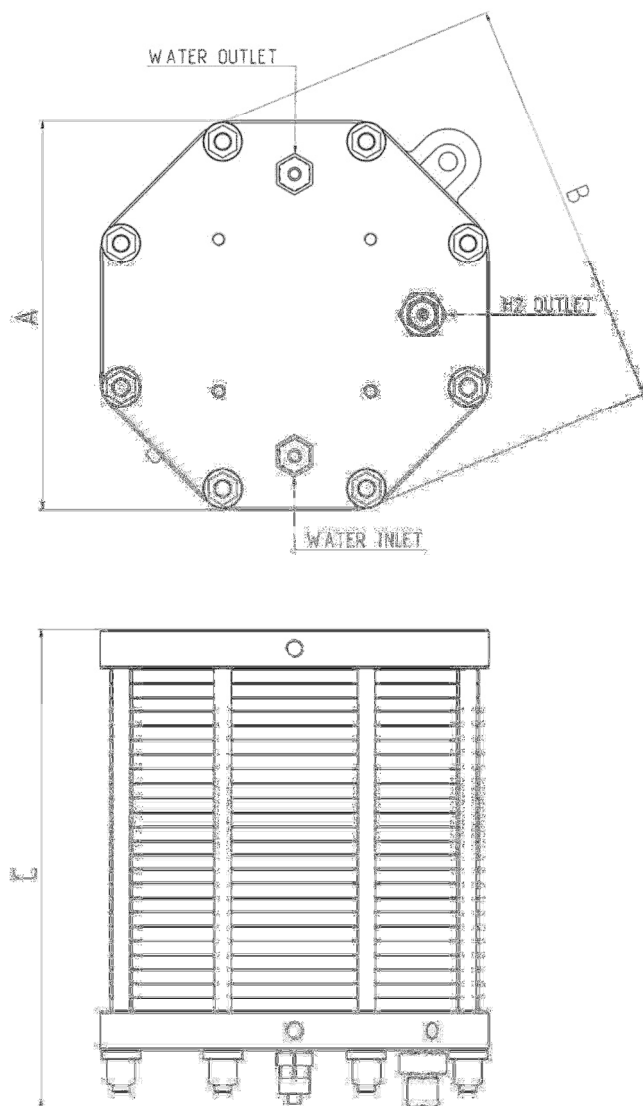
Distilled Water (Conductivity at 25 °C): 5 – 10 µS/cm  
only 1% Potassium Carbonate (non consumed)



TECHNICAL DATA		AES 100	AES 200	AES 300S
H <sub>2</sub> production rate	Nl/h	100	200	300
Standard working pressure	bar	15	15	15
Maximum allowable pressure	bar	30	30	30
Purity @30bar (1)	%	99.94	99.94	99.94
Purity with additional dehumifier	%	99.999	99.999	99.999
Water Consumption	l/h	0.08	0.16	0.25
Water Conductivity @ 25°C (2)	µS/cm	5-10	5-10	5-10
Power consumption	W	530	1060	1590
Dimension – (AxBxC)	mm	180x190x145	180x190x225	180x190x300
Weight (without water)	Kg	11.5	16.0	20.5

(1) Without any purification

(2) Demineralized / distilled water only



### Acta S.p.A.

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