# In-situ salt electrolyser



## In-situ salt electrolyser

### **ADVANTAGES**



The use of salts offers a lot of benefits for the health and safety of operators:

**SECURITY** 

- No delivery and handling of dangerous chemical products
- H2 detector integrated
- No chlorine vapor emanation (hermetic container)

QUALITY

- No product degradation: constant concentation
- On-site generation and production of chlorine
- One electrolysis system for several injection points using a common product storage tank and dosing pumps
- Less obstruction of injection point compared to sodium and calcium hypochlorites on the market because of the low mineral constant of the solution produced

EFFICIENCY

- Simple and low maintenance frequency
- Economical solution: salt cheaper than chlorine
- >5 years electrolyser long life span
- Simple, safe and reliable equipment: automatic process, open non-membrane system
- Mounted on skid
- Easy to install: "Plug and Play" sytem
- Simple supply of salt versus chlorine

# PRODUCT QUALITY - SIMPLE INSTALLATION AND USE ECONOMICAL SOLUTION - INCREASED SECURITY

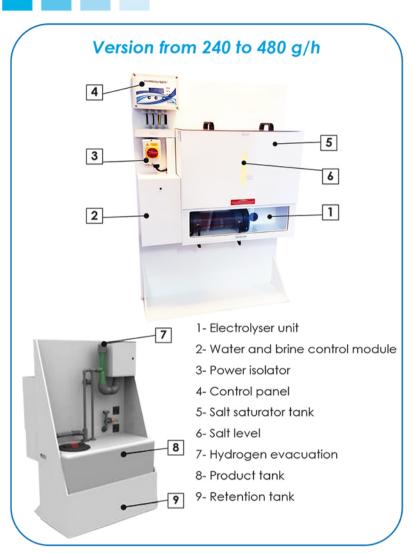




# From 30 to 2200 g/h

### **DESCRIPTION**

# 1- Control panel 2- Electrolyser unit 3- Salt saturator tank 4- Product tank 5- Softener







### Version from 560 to 2200 g/h

- 1- Brine control solenoid valve
- 2- Sampling point of diluted brine
- 3- Control panel
- 4- Fan for hydrogen extraction
- 5- Management of the softened water flow
- 6- Softened water solenoid valve
- 7- Product sampling point
- 8- Self-regenerating double softener
- 9- Electrolyser cell
- 10-Internal tank for product storage and degassing
- 11- Hydrogen evacuation outlet
- 12- Product output to external tank
- 13- City water supply
- 14- Softened water output to external saturator
- 15- External saturator brine arrival
- 16-Softened water sampling point

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From 30 to 2200 g/h

### **TECHNICAL FEATURES**



DESCRIPTION	Unit	ELECTROLYSER MODEL								
		30	60	90	240	480	560	1100	2200	
		Production features								
Production capacity	g/h	30	60	90	240	480	560	1100	2200	
Chlorine concentration	g/l	5-7								
Equivalent in concentrated sodium hypochlorite	L/day	4,8	9,6	14,4	38,4	76,8	92	183	366	
Production tank + degassing										
Volume	Liter	30 or 200   30 or 200   30 or 200   200   200   500 to 2000				j				
Material	Туре	PE	PE	PE	PE	PE	PE	PE	PE	
Monted on skid		✓	✓	✓	✓	✓	X	X	X	
Overflow safety		✓	✓	✓	✓	✓	✓	✓	✓	
Retention tanks		✓	✓	✓	✓	✓	X	Х	Х	
Diameter of degassing chimney	mm	20	20	20	63	63	63	63	63	
	Power supply									
Power consumption	Watts	150	300	450	1750	3330	2800	5600	12000	
Power supply	Ø	240VAC/1Ø/50-60Hz or three-phase three-ph							three-phase	
	Consumables									
Permissible pressure	Bar	2 à 8								
Nominal water consumption	l/h	5	10	15	40	80	98	196	392	
Nominal salt consumption	kg/h	0,1	0,2	0,3	0,7	1,44	1,8	3,6	7,3	
Protection class	IP	54 44								
Permissible ambient temperature	°C	+5°C to +45°C								
Permissible supply water temperature	°C	+8°C to +25°C								
Type of salt		special softener, certified biocide								
					Dimensions	;				
Dimensions (L x I x H)	mm	670 x 460 x 153			1500 x 950 x 700		853 x 752 x 1800			
Weight	kg/h	16	16	16	92	96	159	173	197	



Rue du Bruscos - 64230 SAUVAGNON - France Tel.: +33(0)5 59 33 70 36 / Fax : +33(0)5 59 33 70 37 syclope@syclope.fr / www.syclope.fr Retailer stamp

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