

SAL-CHLOR-FUSION



Water Disinfection Solutions For Commercial Pools

Electrochlorination Equipment

Fusion Tubular HV Series

Sal-Chlor-Climax Group are proud to announce the new patented Fusion HV Series, an exciting development and a big step forward in the disinfection of Water Features and Commercial and Resort Swimming Pools.

The Fusion HV Series Cells consist of concentric tubes, where the water is effectively “squirted” through the annulus between the Titanium tubes, allowing scale cleaning by high flow velocity.

- Acid cleaning is not required.
- Polarity reversal is not required.

The Fusion HV Series is virtually “bullet proof” – install and forget – with almost no maintenance for the cells average 5-8 year life span. At the end of that life span, you simply exchange or re-coat the tubular cell. Delivering a more efficient lower cost commercial water purification system

Next Generation Commercial Swimming Pool Water Treatment Systems Sal Chlor Fusion



The Fusion HV Series is suitable for water salinities ranging from 1,500 – 40,000 ppm, with outputs ranging from 125 g/hr – 15 kg/hr. The Cell automatically senses the salinity level and varies the output and performance accordingly, meaning there is no problem should the pool salinity vary and no critical need for the pool operator to set and maintain a specific salinity level. In many cases the natural salinity of the water is sufficient and there is no need for any salt addition.

This innovative design means that apart from swimming pools, the Fusion HV Series can be used in a wide variety of process water treatment applications such as farm, agriculture, food and beverage, potable and wastewater disinfection.

In Operation

A branch line from the main filtered water return takes water to the Booster Pump, which ensures the flow and pressure through the Cell(s) is at the correct level. A pressure gauge is fitted and flow and temperature information is sent to the PLC for display and control via the 7" touch colour HMI. Electronic power supplies allow infinitely variable output, based on either operator setting, ORP, or Chlorine Analyser inputs. This allows very accurate control of the disinfection level with remote monitoring if required.

Sal-Chlor Fusion HV Series - Sample Specifications - Full Specifications on request

Electrochlorinator Model	Fusion HV2	FusionHV3	Fusion HV6
Electrolyser			
Salinity (mg/l)	1,000 - 40,000		
No. of Cells	1	1	1 - 12
Overall Cell Arrangement	Vertical Cells		
Cell Size	2"	3"	6"
Cell Length (mm)	1,000		
Rated Chlorine Output (g/hr)	125 - 200	200 - 350	350 - 15,000

Materials

Anode Material	SC10 Coated Ti Tube		
Cathode Material	Titanium Tube		
Expected Electrode Life	5 - 8 years		
Spacers / O Rings / Fasteners	PTFE / Viton / 316SS		
Enclosure / Frame	Powder Coated Steel		
Flow Lines (Sched 80) (mm)	40	50	80

Power Supply

No of Power Modules	1	1	1 - 6
Power Module Type	Electronic		
Rated DC Volts	12	24	24 - 96
DC Power (kWh/kg Cl ₂)	3.6 - 15.0		

Overall Specifications

Water Flow to Electrolyser (m ³ /hr)	7.5	9.7	18.0
Max. Operating Pressure (kPa)	800		
Temp. Increase (°C)	1.8		