



## XP RANGE

- Onsite Sodium Hypochlorite generator
- Available in three capacities 25g/hr, 50 g/hr and 100 g/hr
- Compact wall mounted design
- Integral hydrogen degassing
- Dual containment and force air ventilation of hydrogen containing components
- Sophisticated HMI provides operator with helps screens, system status and trending
- Brine management function

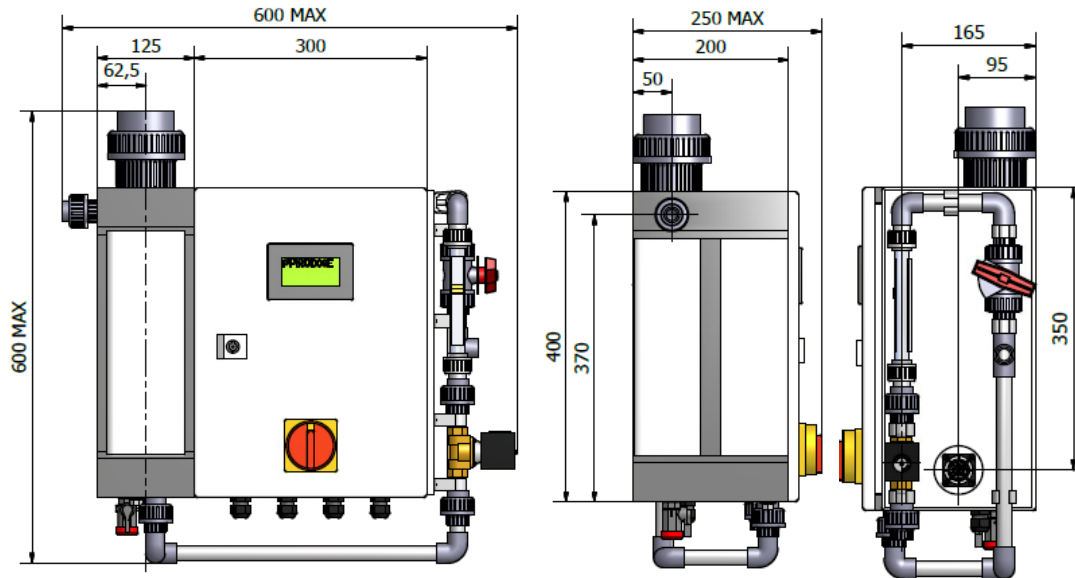
### SYSTEM DESCRIPTION

The XP RANGE of electrochlorinator provides an effective means of producing a sodium hypochlorite from salt, water and electricity for the disinfection of water in a wide range of applications. The wall mounted compact system can generate 0.7g/l concentration of sodium hypochlorite on-demand which flows freely from the system enabling it to be stored in a suitably sized tank.

The fully automatic system produces sodium hypochlorite by passing an electrical current through a low concentration brine solution. The flow of brine is carefully controlled by metering saturated brine solution into an adjustable soft water flow. The systems monitors the current in the cell to ensure the correct ratio of brine and water are being used. Mixed Metal Oxide coated titanium electrodes are used to provide the most efficient chemical reactions. As the sodium hypochlorite is produced it flows from the electrolytic cell into the degassing chamber where the hydrogen is naturally ventilated to atmosphere and the sodium hypodchlorite exits the system into the storage tank. The process is automatically start and stopped by either level switches fitted to the sodium hypochlorite tank or level sensors which feed a 0-10V signal back to the electrochlorinator.

A colour Touchscreen HMI provides operators with access to various screens allowing them to monitor the status of the systems, check the trending screen and access the help menus in case of an issue.

## SYSTEM DRAWING



CONNECTION	DESCRIPTION
SOFT WATER INLET	½" uPVC SOLVENT WELD
BRINE INLET	6mm X 4mm HOSE
SODIUM HYPOCHLORITE OUTLET	½" uPVC SOLVENT WELD
HYDROGEN VENT LINE	6mm X 4mm HOSE
HYDROGEN DUAL CONTAINMENT	63mm uPVC SOLVENT WELD

## OPERATING CONDITIONS

INCOMING WATER TEMPERATURE	RECOMMENDED WATER TEMPERATURE 5°C to 25°C*, Maximum 35°C
INCOMING WATER PRESSURE	2 TO 6 BAR AT INLET OF WATER SOFTENER.
INCOMING WATER QUALITY	POTABLE WATER QUALITY
ELECTRICAL SUPPLY	240 VAC, 1 ph, 50Hz
AMBIENT TEMPERATURES	5°C to 25°C <sup>2</sup>

\*Higher water temperature can reduce the concentration of the sodium hypochlorite produced.

## PERFORMANCE DATA

	XP-025	XP-050	XP-100
SYSTEM CAPACITY	25 G/HR	50 G/HR	100 G/HR
SALT CONSUMPTION RATE	120 g/hr at maximum output rate	240 g/hr at maximum output rate	480 g/hr at maximum output rate
CONCENTRATION OF SODIUM HYPOCHLORITE**	AVERAGE OF 7G/L CONCENTRATION		
SYSTEM INPUT FLOWRATES			
SOFT WATER	4.5 l/hr	7.5 l/hr	15.5 l/hr
BRINE	0.45L/HR	0.75 L/HR	1.5L/HR
SODIUM HYPOCHLORITE FLOWRATE	7 L/HR	8.25 L/HR	17 L/HR
POWER CONSUMPTION			
WEIGHT	20 KG		

\*\* Concentration of Sodium Hypochlorite can vary with salt and water quality, and water temperature.

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