



Hyprolyser[®]

*Safe, reliable & efficient
on-site generation
of sodium hypochlorite*

www.hyprolyser.com

Hyprolyser®

Hyprolyser® electrochlorination systems provide an on-demand supply of < 1.0% sodium hypochlorite solution, generated through the electrolysis of diluted brine solution.

Applications

The sodium hypochlorite solution produced can be used as a disinfectant in many types of water treatment including swimming pools, spas, cooling towers, drinking water, industrial, food processing and cleaning in place (CIP) applications.

Key Benefits

■ **Safety:** The chlorine solution produced by a Hyprolyser system is below the 1% hazardous threshold, eliminating the regular auditing and management tasks that COSHH regulations would otherwise demand. Due to the low caustic and mineral content of the generated solution, injection point cleaning and descaling tasks are completely eliminated.

■ **Economy:** Taking into account the cost of using water, salt and electricity, the Hyprolyser method of producing chlorine is typically 30-70% cheaper than using commercially produced chemicals or chlorine gas. Although there is capital outlay to consider in purchasing a Hyprolyser system, the payback period can be very attractive.

■ **Effectiveness:** Commercial strength sodium hypochlorite can degrade quickly in storage, often losing up to 20% of its chlorine content. The <1.0% sodium hypochlorite solution produced by the Hyprolyser system does not require caustic buffer chemicals or additives to retain its chlorine content. It can remain at its original chlorine concentration for months.

■ **Environmental protection:** The hypochlorite product is generated and transferred automatically to the product storage tank ready for dosing, without any operator intervention being required. The combination of storing low strength solution, the avoidance of chemical deliveries, handling and operator involvement significantly reduce the likelihood of any accidental spillage or environmental pollution incidents occurring.





Operation

The operator is required to fill the salt saturator tank with salt. From this, the Hyprolyser system produces a concentrated brine solution which is then diluted to the correct strength for efficient electrolysis. The diluted brine is then delivered to the electrolytic cell where electric current is passed through the solution, producing sodium hypochlorite. The process is continued automatically until the product storage tank is filled.

Installation Requirements:

- A Hyprolyser requires a suitable power supply sized for the required model, a water supply (2 bar min. pressure), a floor or low level drain (for water softener backwash waste) and a ventilation duct terminating outside the building.
- The room where the Hyprolyser is to be installed should be provided with natural ventilation and a level floor/ plinth. Each Hyprolyser is equipped with a Hydrogen gas sensor and fail-safe system to prevent operation in the event that ventilation is compromised
- Consideration should be given to the location of the external product tank and suitable storage/ access for salt deliveries.

Optional Equipment:

- Standard translucent, graduated product tanks are available in sizes from 100 - 2,000 litres capacity.
- Each Hyprolyser system is equipped with an integrated salt saturator tank and water softener.* A range of external salt saturator tanks are available for high output systems.

**Optional item for Hyprolyser Compact models*



- Chemical dosing of the liquid product can be carried out using traditional dosing pump/s, suitably sized for the application, or by using the ultra-safe **Motive DS** vacuum powered dosing system, developed by Gaffey, specifically for swimming pool applications. The **Motive DS** eliminates the use of pressurised chemical feed lines in the plant room, further enhancing operator safety.

Motive VDS™



Hyprolyser®

Hyprolyser® Compact



Model Range

Hyprolyser®

Model	Max Weight kg	Available Chlorine Capacity g/hour	Available Chlorine Capacity kg/day	Power Consumption KWh	Water Consumption/ Product Output l/h	Salt Consumption kg/h	Power Supply 1Ø	Power Supply 3Ø
Hyprolyser® 180	94	180	4	0.9	25.3	0.6	Yes	No
Hyprolyser® 280	100	280	6	1.4	40	0.9	Yes	No
Hyprolyser® 560	102	560	12	2.8	80	1.8	Yes	No
Hyprolyser® 1100	108	1100	24	5.6	160	3.6	Yes	Yes
Hyprolyser® 2200	116	2200	48	11	310	7.3	No	Yes
Hyprolyser® 4250	n/a	4250	97	21.25	607	14	No	Yes
Hyprolyser® 8500	n/a	8500	195	42.5	1214	28	No	Yes

Hyprolyser® Compact

Model	Available Chlorine Capacity g/hour	Available Chlorine Capacity kg/day	Power Consumption KWh	Water Consumption/ Product Output l/h	Salt Consumption g/h	Power Supply 1Ø	Power Supply 3Ø
Hyprolyser® Compact 25	25	0.6	0.25	5	82	Yes	No
Hyprolyser® Compact 50	50	1.2	0.5	10	164	Yes	No
Hyprolyser® Compact 100	100	2.4	0.75	20	334	Yes	No

A range of product tanks, high capacity brine tanks and dosing systems are also available to suit virtually any application.

Hyprolyser sales, installation & service are available through a network of authorised agents.

Authorised Agent:



GAFFEY
technical services ltd

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