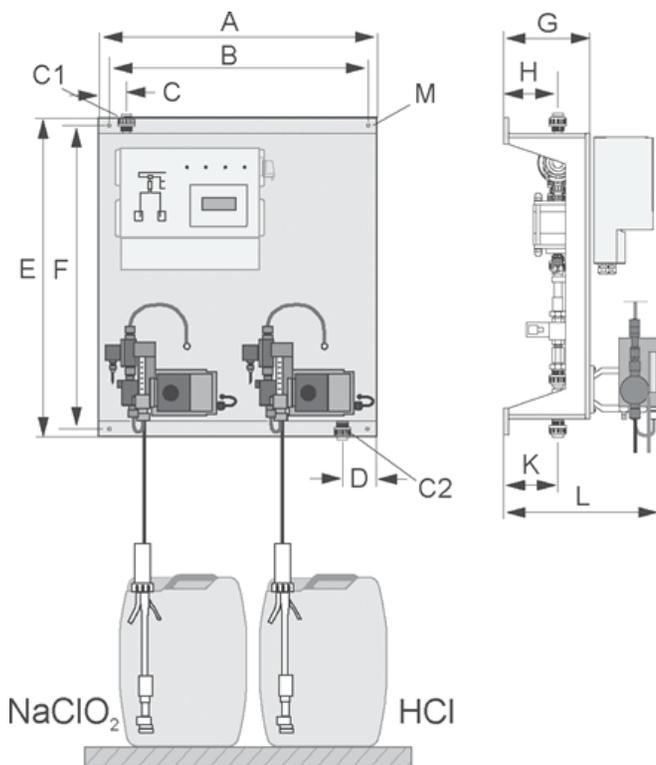


GI-DOS (ClO_2 SYSTEM)





Overview

The Grundfos GI-DOS is an on-site chlorine dioxide generation system. ClO₂ is one of the most powerful oxidizing agents applied in water and wastewater treatment. It is commonly used to reduce biofilms, algae growth, foul odor, and in the formation of aerobic and anaerobic bacteria counts.

Measurements in mm

A	B	C	D	E	F	G	H	K	I	M	Connections C1 & C2	Type
700	650	40	90	800	760	230	148	148	410	9	DN 20	30D
700	650	40	90	800	760	230	148	148	410	9	DN 20	120D
700	650	40	90	800	760	230	148	148	410	9	DN 20	220D

System Types

ClO ₂ Preparation Capacity g/hr		Consumption of Components [l/h]		Consumption of Bypass Water [l/h] {Input Pressure < Pmax}			Weight kg
		HCl	NaClO ₂	Continuous Operation	Batch Operation*		
		9%	7.50%		0.5-2 g/l	2-3.3 g/l	
30	9	0.7		420	-	-	40
120	9	2.9		420	55	55-31	42
220	7	5.2		420	100	100-56	44

*) In batch operation the concentration is freely adjustable between 0.5 and 3.3 g/l
Between 2 and 3.3 g/l the system operates at full capacity. From 2 down to 0.5 g/l the system reduces the capacity continuously, because the dosing quantity of the chemical components is regulated if the bypass water quantity is set to constant.

Adjustment of the preparation capacity	Manual by menu-controlled operator prompting automatic by input signals	
Protection level	<ul style="list-style-type: none"> • IP 65 dosing pumps, solenoid valve (option), flow meter • IP 55 - Controller 	
Admissible concentration of chemical	<ul style="list-style-type: none"> • HCl 9 percent by weight • NaClO₂ 7.5 percent by weight 	
Admissible <ul style="list-style-type: none"> • Ambient Temperature • Operation water temperature • Chemical Temperature 	<ul style="list-style-type: none"> • 5 to 45 °C • 2 to 30 °C • 2 to 30 °C 	
Admissible relative air Humidity	Max. 80% at 40 °C, not condensing	
Connection dilution water inlet	PVC pipe DN 20	
Connection ClO ₂ Solution	PVC pipe DN 20	
Safety Equipment	Parallel Monitoring of capacity via dosing controller and internal Ha II sen	
	<ul style="list-style-type: none"> • Supporting rack • Fastening • Reactor • Post mixer • Pipes • Gaskets 	<ul style="list-style-type: none"> • PP • Stainless steel • PVC grey • PVC grey • PVC grey • FPM/PTFE

Electrical / Electronic data

- Mains Voltage: 220 VAC / 50 HZ
- Control: Embedded Controller Controlled System
- Membrane Push Buttons with 4x20 LCD Display
- Menu Controlled Operator Prompting
- Flow Scheme for the Whole System with each Component changing colours for showing the status - Running, Faulty and Ready to Run

Power consumption	300 VA
Analog inputs	0(4) - 20 mA input or free configuration, charge 50 Ohm 4-20 mA input
Digital inputs	<ul style="list-style-type: none"> • Remote On / Off • Error - Gas warning device • Tank Level(Low & Empty) for HCl & NaClO₂ • Water Contact Low • Pump Alarm for HCl & NaClO₂
Analog outputs	4 - 20 mA Output
Potential - free outputs	<ul style="list-style-type: none"> • System Working • System Healthy • NaClO₂ Pump Faulty • HCl Pump Faulty

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