

CHLORINSITU® II 50 g/h

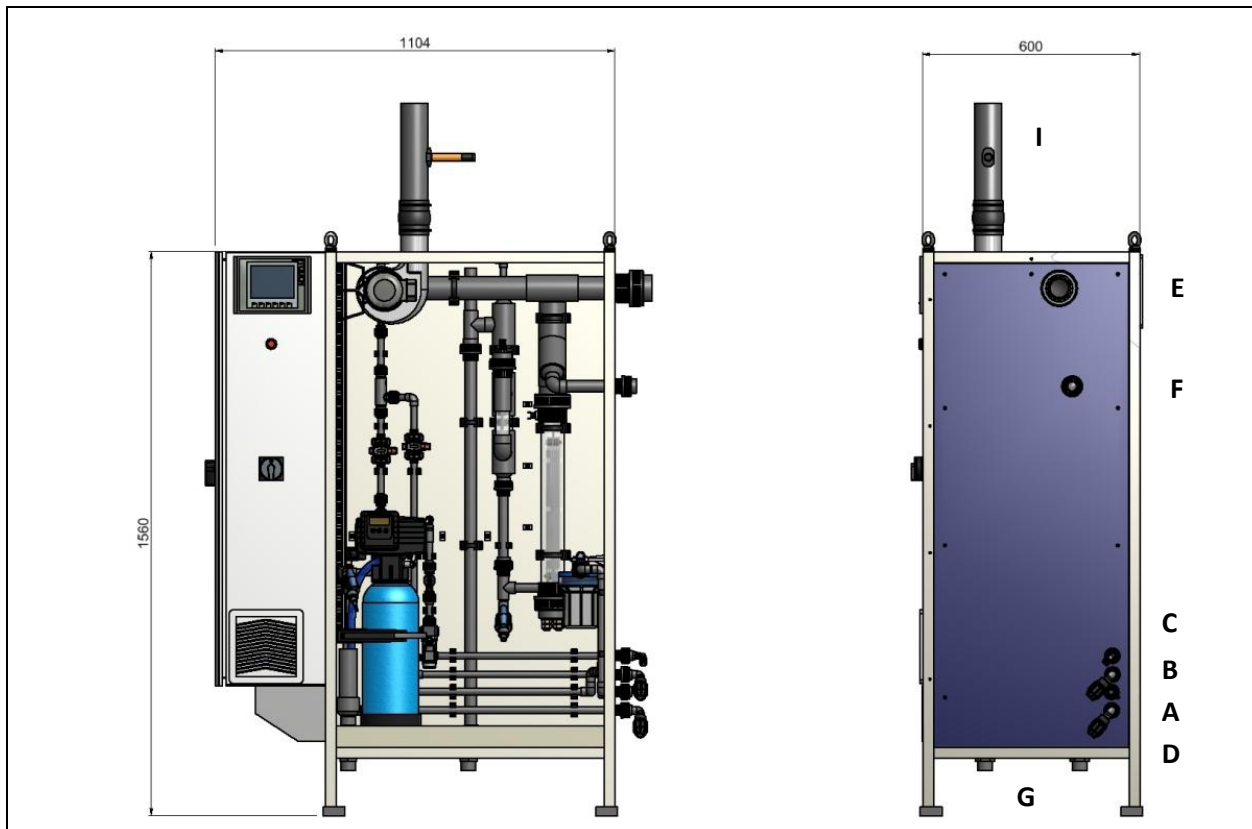
The CHLORINSITU® II is especially designed for the production of sodium- or potassium hypochlorite (NaOCl or KOCl). The CHLORINSITU® II product is used for disinfection of water in a broad variety of applications like swimming pools and potable water. The CHLORINSITU® II is based on open cell technology. The CHLORINSITU® II produces a highly pure sodium- or potassium hypochlorite disinfectant without any superfluous products. Due to the daily fresh production the hypochlorite product is not subject to ageing.

Installation capacity (FAC production)	50 g/h 1,1 kg/day
Production capacity	22 h/day ¹
Salt conversion	3,6 kg/kg FAC
Energy consumption	7,5 kWh/kg FAC
FAC concentration ²	5 g/l ± 10% (0,5% ± 10%)
pH product (approx.)	9,5
Hypo cell type	C33-2
Capacity ATEX Blower	200 m ³ /h
Product (NaOCl) volume IEC/EN901 regulation	10 l/h 220 l/day
Power supply	230Vac ± 10%, N, PE, 50 Hz
Nominal Energy use	1,2 kW
Installation fuse	1x16A
Salt consumption	180 g/h 4 kg/day
Salt requirements	Salt according to EN14805 ³
Max. ambient humidity	85%
Ambient temperature	10 - 35 ⁰ C
Ambient conditions	Ambient air non condensating, non corrosive and dust free air within the installation room
Storage tank (recommended)	1- day storage capacity
Brine tank	200 Liter (φ600x910mm)
Relevant regulations	IEC/ EN 2006/42/EC, 2004/108/EC, 2006/95/EC, ATEX 95, IEC/ EN 60204-1, IEC/ EN 61000-6.1- 6.2
Disinfection applications	Swimming pool, Cooling tower, Potable water (WRAS), Process water, Food & Beverage.

¹ Based on the regeneration of the softener ones a day for 80 minutes.

² The product quality is depending on water quality, water volume, temperature, salt specification.

³ EN14805 Chemicals used for treatment of water intended for human consumption - Sodium chloride for on site electrochlorination using non-membrane technology. Consult supplier when intended use of other types of generic salts.



	Connections to be made onsite	Installation side		Piping	Specifications		
A	Water supply (drinking water quality)	DN15	d20 mm	PVCU	>2,5 bar(g)	Max. 15 ⁰ dH	
Return valve is needed in water supply.							
B	Brine supply hypo cell	DN15	d20 mm	d16, Nylon			
C	Brine supply softener	DN15	d20 mm	d10, PE			
D	Filling brine tank	DN15	d20 mm	PVCU			
E	Aeration storage tank	DN50	d63 mm	PVCU	Connection between storage tank and the installation		
F	Product to storage tank	DN20	d32 mm	PVCU	1188 mm		
G	Drain	DN32	d40 mm	PVCU			
H	Aeration storage tank	DN50	d63 mm	PVCU	Connect to the outside		
I	Hydrogen discharge according to ATEX 95	DN50	d63 mm	PVCU	Max. 10 meter, horizontal, vertical and/ or rising	Max. 3 turns/ bends Connect to the outside	
J	Drain brine tank	DN20	d25 mm	PVCU			
	Ethernet cable	Connect in the electrical cabinet					

CHLORINSITU® II 100 – 500 g/h

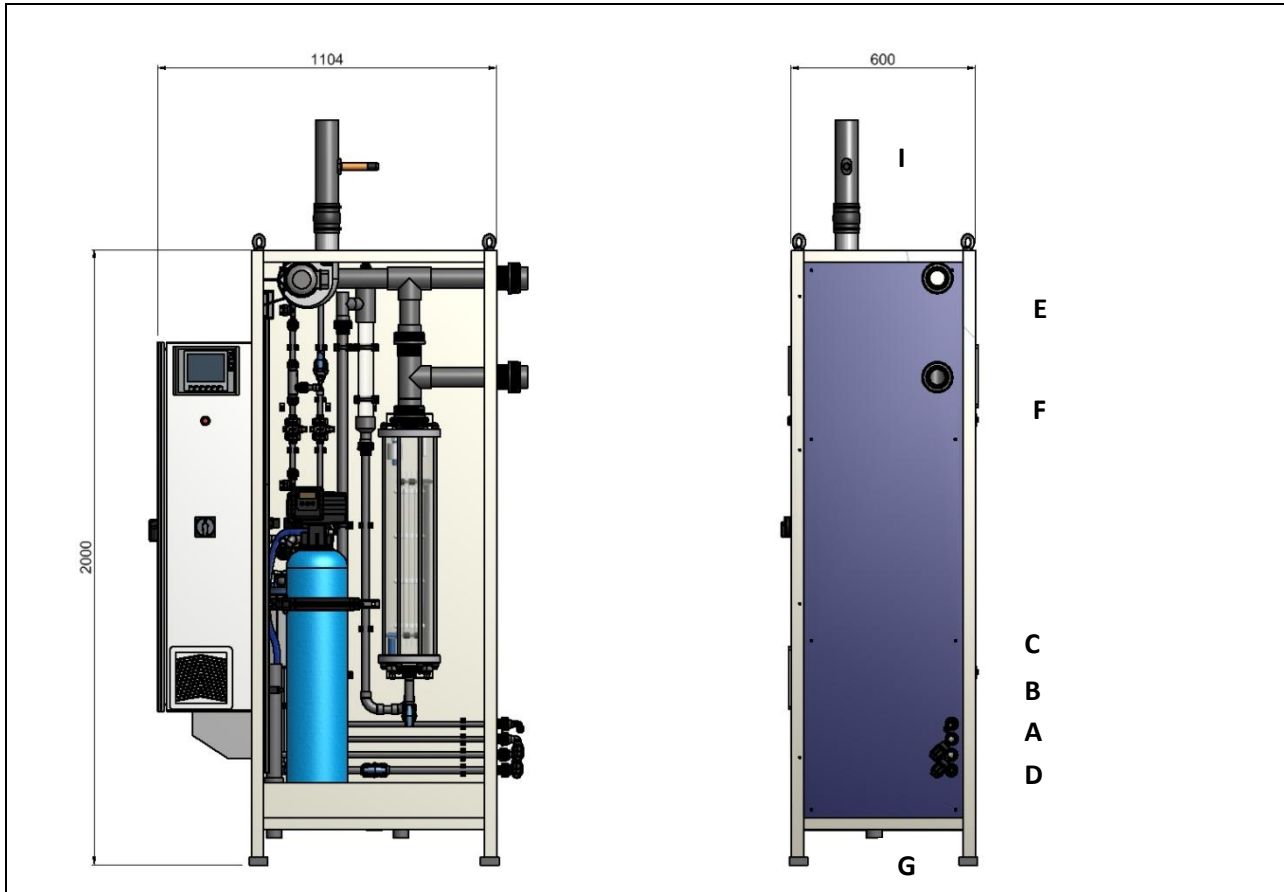
The CHLORINSITU® II is especially designed for the production of sodium- or potassium hypochlorite (NaOCl or KOCl). The CHLORINSITU® II product is used for disinfection of water in a broad variety of applications like swimming pools and potable water. The CHLORINSITU® II is based on open cell technology. The CHLORINSITU® II produces a highly pure sodium- or potassium hypochlorite disinfectant without any superfluous products. Due to the daily fresh production the hypochlorite product is not subject to ageing.

Installation capacity (FAC production)	100 g/h 2,2 kg/day	150 g/h 3,3 kg/day	200 g/h 4,4 kg/day	300 g/h 6,6 kg/day	400 g/h 8,8 kg/day	500 g/h 11 kg/day
Production capacity	22 h/day ⁴					
Salt conversion	3,6 kg/kg FAC					
Energy consumption	7,5 kWh/kg FAC					
FAC concentration ⁵	5 g/l ± 10% (0,5% ± 10%)					
pH product (approx.)	9,5					
Hypo cell type	C33-2	C33-3	C33-4	C33-5	C50-3	C50-4
Capacity ATEX Blower	200 m ³ /h					
Product (NaOCl) volume	20 l/h	30 l/h	40 l/h	60 l/h	80 l/h	100 l/h
IEC/EN901 regulation	440 l/day	660 l/day	880 l/day	1.320 l/day	1.760 l/day	2.200 l/day
Power supply	230Vac ± 10%, N, PE, 50 Hz			3x400Vac ± 10%, N, PE, 50 Hz		
Nominal Energy use	1,7 kW	2,3 kW	2,9 kW	4,0 kW	5,1 kW	6,2 kW
Installation fuse	1x16A			3x16A		
Salt consumption	360 g/h 7,3 kg/day	540 l/h 11 kg/day	720 g/h 14,6 kg/day	1.080 g/h 21,9 kg/day	1.440 g/h 43,8 kg/day	1.800 g/h 36,5 kg/day
Salt requirements	Salt according to EN14805 ⁶					
Max. ambient humidity	85%					
Ambient temperature	10 - 35 ⁰ C					
Ambient conditions	Ambient air non condensating, non corrosive and dust free air within the installation room					
Storage tank	1- day storage capacity					
Brine tank	200 Liter (φ600x910mm)					
Relevant regulations	IEC/ EN 2006/42/EC, 2004/108/EC, 2006/95/EC, ATEX 95, IEC/ EN 60204-1, IEC/ EN 61000-6.1- 6.2					
Disinfection applications	Swimming pool, Cooling tower, Potable water (WRAS), Process water, etc.					

⁴ Based on the regeneration of the softener ones a day for 80 minutes.

⁵ The product quality is depending on water quality, water volume, temperature, salt specification.

⁶ EN14805 Chemicals used for treatment of water intended for human consumption - Sodium chloride for on site electrochlorination using non-membrane technology. Consult supplier when intended use of other types of generic salts.



	Connections to be made onsite	Installation side		Piping	Specifications	
A	Water supply (drinking water quality)	DN15	d20 mm	PVCU	>2,5 bar(g)	Max. 15 ⁰ dH
		Return valve is needed in water supply.				
B	Brine supply hypo cell	DN15	d20 mm	d16, Nylon		
C	Brine supply softener	DN15	d20 mm	d10, PE		
D	Filling brine tank	DN15	d20 mm	PVCU		
E	Aeration storage tank	DN50	d63 mm	PVCU	Connection between storage tank and the installation	
F	Product to storage tank	DN50	d63 mm	PVCU	1589 mm	
G	Drain	DN40	d50 mm	PVCU		
H	Aeration storage tank	DN50	d63 mm	PVCU	Connect to the outside	
I	Hydrogen discharge according to ATEX 95	DN50	d63 mm	PVCU	Max. 10 meter, horizontal, vertical and/ or rising	Max. 10 meter, horizontal, vertical and/ or rising
J	Drain brine tank	DN20	d25 mm	PVCU		
	Ethernet cable	Connect in the electrical cabinet				

CHLORINSITU® II 600 – 1.600 g/h

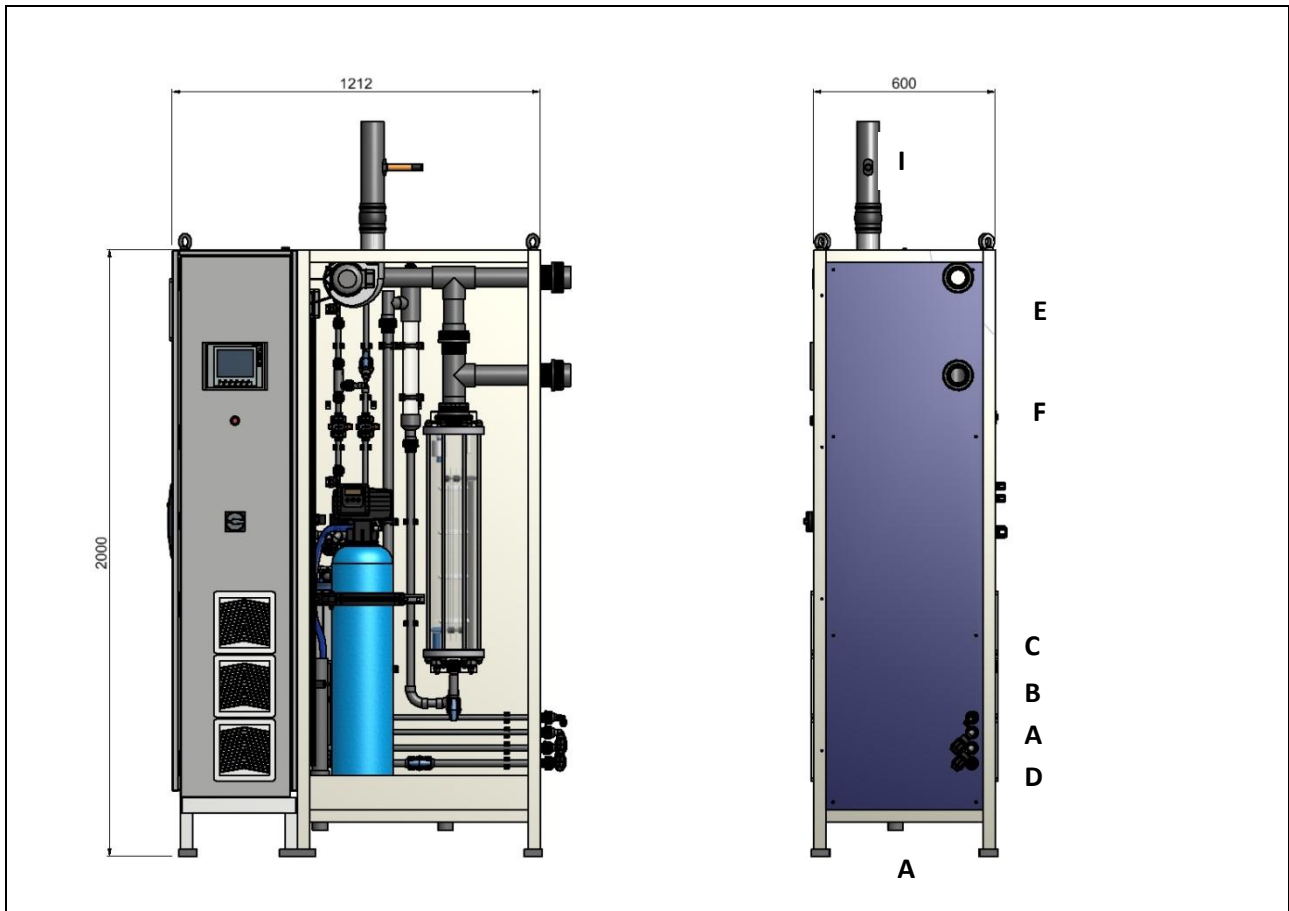
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Installation capacity (FAC production)	600 g/h 13 kg/day	800 g/h 18 kg/day	1.000 g/h 22 kg/day	1.200 g/h 26 kg/day	1.400 g/h 31 kg/day	1.600 g/h 36 kg/day
Production capacity	22 h/day ⁷					
Salt conversion	3,6 kg/kg FAC					
Energy consumption	7,5 kWh/kg FAC					
FAC concentration ⁸	5 g/l ± 10% (0,5% ± 10%)					
pH product (approx.)	9,5					
Hypo cell type	1 x C50-4	1 x C50-5	2 x C50-4	2 x C50-4	2 x C50-5	2 x C50-5
Capacity ATEX Blower	200 m ³ /h					
Product (NaOCl) volume	120 l/h	160 l/h	200 l/h	240 l/h	280 l/h	320 l/h
IEC/EN901 regulation	2.640 l/day	3.520 l/day	4.400 l/day	5.280 l/day	6.160 l/day	7.040 l/day
Water temperature	15 - 18 ⁰ C					
Power supply	3x400Vac ± 10%, N, PE, 50 Hz					
Nominal Energy use	7,4 kW	9,6 kW	11,9 kW	14,1 kW	16,4 kW	18,6 kW
Installation fuse	3x35A			3x50A		
Salt consumption	2.160 g/h 48 kg/day	2.880 g/h 63 kg/day	3.600 g/h 78 kg/day	4.320 g/h 93 kg/day	5.040 g/h 108 kg/day	5.760 g/h 123 kg/day
Salt requirements	Salt according to EN14805 ⁹					
Max. ambient humidity	85%					
Ambient temperature	10 - 35 ⁰ C					
Ambient conditions	Ambient air non condensating, non corrosive and dust free air within the installation room					
Storage tank	1- day storage capacity					
Brine tank	380 Liter (φ760x870mm)		520 Liter (φ925x1035mm)			
Relevant regulations	IEC/ EN 2006/42/EC, 2004/108/EC, 2006/95/EC, ATEX 95, IEC/ EN 60204-1, IEC/ EN 61000-6.1- 6.2					
Disinfection applications	Swimming pool, Cooling tower, Potable water (WRAS), Process water, etc.					

⁷ Based on the regeneration of the softener ones a day for 80 minutes.

⁸ The product quality is depending on water quality, water volume, temperature, salt specification.

⁹ EN14805 Chemicals used for treatment of water intended for human consumption. Sodium chloride for onsite electrochlorination using non membrane technology. Consult supplier when intended use of other types of generic salts.



	Connections to be made onsite	Installation side		Piping	Specifications	
A	Water supply (drinking water quality)	DN15	d20 mm	PVCU	>2,5 bar(g)	Max. 15 ⁰ dH
		Return valve is needed in water supply.				
B	Brine supply hypo cell	DN15	d20 mm	d16, Nylon		
C	Brine supply softener	DN15	d20 mm	d10, PE		
D	Filling brine tank	DN15	d20 mm	PVCU		
E	Aeration storage tank	DN50	d63 mm	PVCU	Connection between storage tank and the installation	
F	Product to storage tank	DN50	d63 mm	PVCU	1589 mm	
G	Drain	DN40	d50 mm	PVCU		
H	Aeration storage tank	DN50	d63 mm	PVCU	Connect to the outside	
I	Hydrogen discharge according to ATEX 95	d75mm d110mm	600 – 800 g/h 1000 – 1600 g/h	d63mm d110mm	Max. 10 meter, horizontal, vertical and/ or rising	Max. 10 meter, horizontal, vertical and/ or rising
J	Drain brine tank	DN20	d25 mm	PVCU		
	Ethernet cable	Connect in the electrical cabinet				

CHLORINSITU® II 1.800 – 2.400 g/h

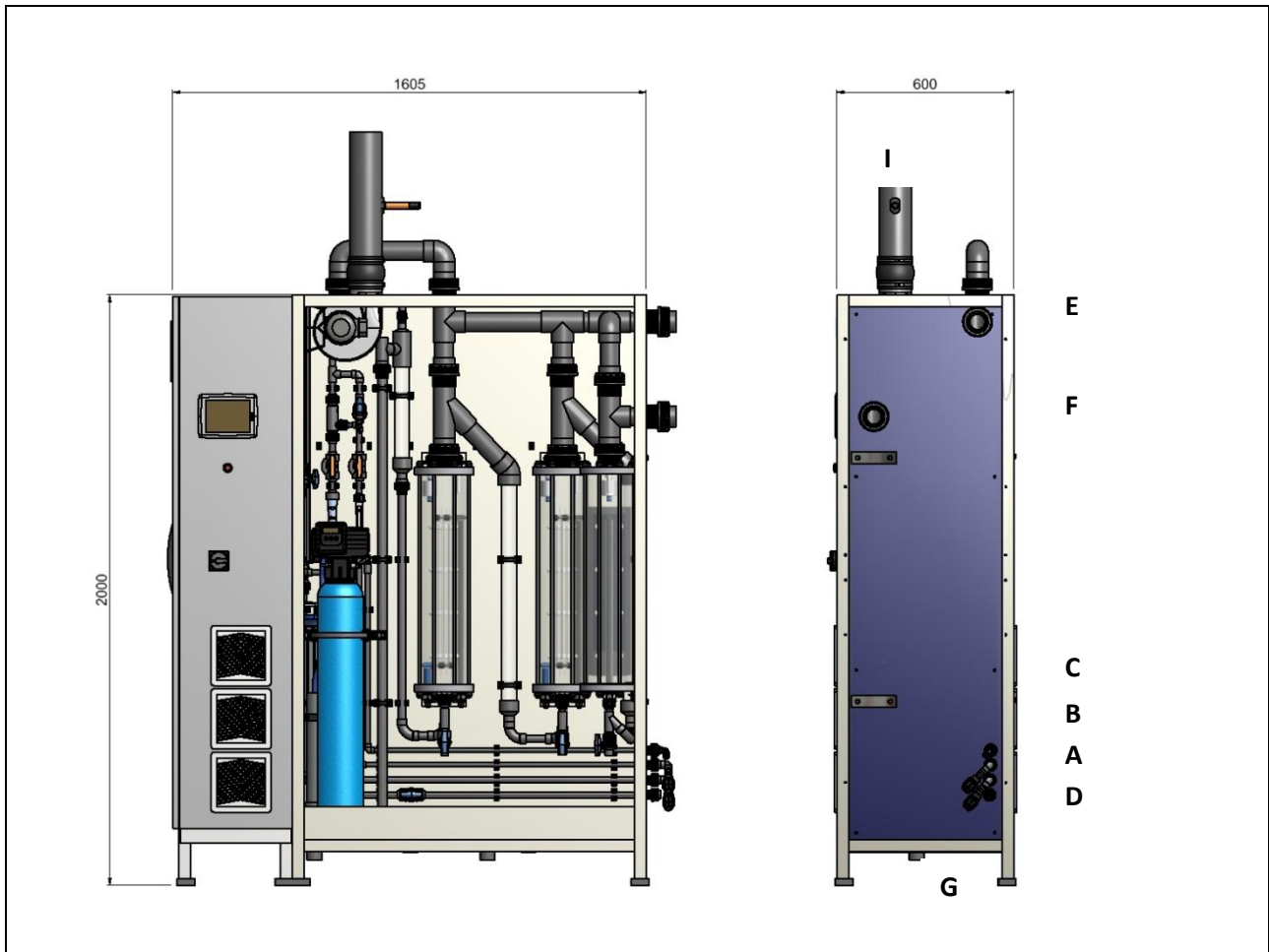
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Installation capacity (FAC production)	1.800 g/h 41 kg/day	2.000 g/h 44 kg/day	2.200 g/h 47 kg/day	2.400 g/h 51 kg/day
Production capacity	22 h/day ¹⁰			
Salt conversion	3,6 kg/kg FAC			
Energy consumption	7,5 kWh/kg FAC			
FAC concentration ¹¹	5 g/l ± 10% (0,5% ± 10%)			
pH product (approx.)	9,5			
Hypo cell type	3 x C50-4	3 x C50-4	3 x C50-5	3 x C50-5
Capacity ATEX Blower	500 m ³ /h			
Product (NaOCl) volume IEC/EN901 regulation	360 l/h 7.920 l/day	400 l/h 8.800 l/day	440 l/h 9.680 l/day	480 l/h 10.560 l/day
Water temperature	15 - 18 ⁰ C			
Power supply	3x400Vac ± 10%, N, PE, 50 Hz			
Nominal Energy use	20,9 kW	23,1 kW	25,4 kW	27,6 kW
Installation fuse	3x63A		3x80A	
Salt consumption	6.480 g/h 142,5 kg/day	7.200 g/h 158,4 kg/day	7.920 g/h 174,2 kg/day	8.640 g/h 190,1 kg/day
Salt requirements	Salt according to EN14805 ¹²			
Max. ambient humidity	85%			
Ambient temperature	10 - 35 ⁰ C			
Ambient conditions	Ambient air non condensating, non corrosive and dust free air within the installation room			
Storage tank	1- day storage capacity			
Brine tank	380 Liter (φ760x870mm)		520 Liter (φ925x1035mm)	
Relevant regulations	IEC/ EN 2006/42/EC, 2004/108/EC, 2006/95/EC, ATEX 95, IEC/ EN 60204-1, IEC/ EN 61000-6.1- 6.2			
Disinfection applications	Swimming pool, Cooling tower, Potable water (WRAS), Process water, etc.			

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A	Water supply (drinking water quality)	DN15	d20 mm	PVCU	>2,5 bar(g)	Max. 15 ⁰ dH	
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B	Brine supply hypo cell	DN15	d20 mm	d16, Nylon			
C	Brine supply softener	DN15	d20 mm	d10, PE			
D	Filling brine tank	DN15	d20 mm	PVCU			
E	Aeration storage tank	DN50	d63 mm	PVCU	Connection between storage tank and the installation		
F	Product to storage tank	DN50	d63 mm	PVCU	1589 mm		
G	Drain	DN40	d50 mm	PVCU			
H	Aeration storage tank	DN50	d63 mm	PVCU	Connect to the outside		
I	Hydrogen discharge according to ATEX 95	DN100	d110 mm	PVCU	Max. 10 meter, horizontal, vertical and/ or rising	Max. 10 meter, horizontal, vertical and/ or rising	
J	Drain brine tank	DN20	d25 mm	PVCU			
	Ethernet cable	Connect in the electrical cabinet					