



	Fresh Water	Pool Water	Sea Water	220-240 V	400 V	110-120 V	50 Hz	60 Hz
Clear Lake System CLS 250	✓	✓	✓	✓	✓	✓	✓	✓
Clear Lake System CLS 500	✓	✓	✓	✓	✓	✓	✓	✓
Clear Lake System CLS 5000	✓	✓	✓	✓	✓	✓	✓	✓
Clear Lake System CLS 20000	✓	✓	✓	✓	✓	✓	✓	✓

CLEAR LAKE SYSTEM 250/500/5000/20000

Clear Lake System stands for cost-efficient, safe and resource-conserving water treatment, which was developed for application in natural and near natural water bodies.

A concentrated mixture of gas, called Di-Oxylyd, is produced from softened drinking water and salt. This gas destroys algae, kills bacteria and viruses, and thereby cleans and clears the water.

It is also applicable in private and public ponds and lakes, fish breeding plants, fountain systems and zoological and architectural water bodies and lakes.

The system consists of

- Softener
- Storage tank for the regeneration salt
- Power unit (except for CLS 250 and 500)
- Electronic steering
- Membrane-electrolysis
- Special-ventilation for hydrogen-gas (except for CLS 250 and 500)
- Venturi injection unit (Bypass)

Product characteristics at a glance

- Temperature controlled power units
- Control unit
- Display of the power output
- Potential free contact for external failure indicator
- Regulation of the cell-power 5% – 100%
- Automatic AirControl with emergency off (except for CLS 250 and 500)
- Special-ventilation for the hydrogen-gas (except for CLS 250 and 500)
- Electrolysis cells with titan-electrodes
- Low operation costs
- Compact design

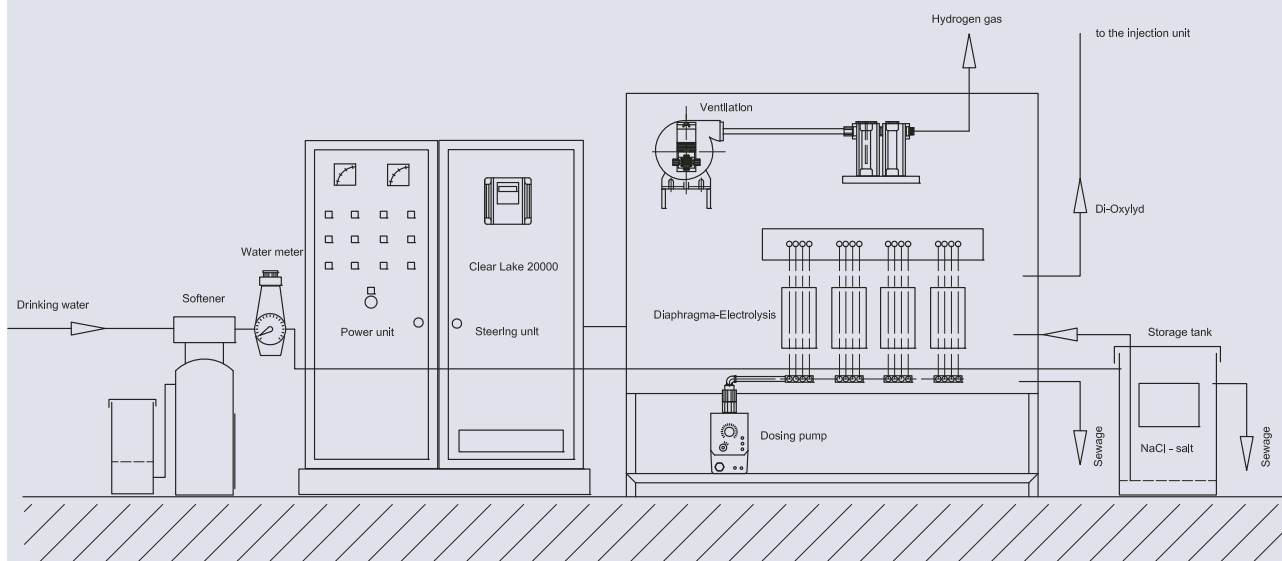
Options (on request)

- Individual measurement and control technology
- Filtration systems

All Clear Lake Systems can be used in multiples!

Schematic setup

Example: CLS 20000



Clear Lake System softener

- Low-maintenance
- Regenerative
- Tap for soft water testing
- Performance-related magnetic valve
- Pressure reducer with manoscope and strainer



Example of use:

CLS 500



Display

Storage tank for the regeneration salt		CLS 250	CLS 500	CLS 5000	CLS 20000
Storage tank for the brine	[litre]	100	100	500	500
Brine-dosing pump	[l/h]	1.1 at 16 bar	1.1 at 16 bar	12.3 at 4 bar	32 at 2 bar
Dimensions	[mm]	(L x W x H) 300 x 400 x 800	(L x W x H) 300 x 400 x 800	(ø x H) 380 x 860	(ø x H) 490 x 870

Clear Lake System		CLS 250	CLS 500	CLS 5000	CLS 20000
Power supply unit	[A/V]	20/5.5	40/5.5	500	500
Control by the measurement system	[mA]	0 – 20	0 – 20	0 – 20	0 – 20
Impulse entrance max.	[Imp./min]	120	120	120	120
Electrical power input max.	[kVA]	0.2	0.3	4	16
Voltage	[V/Hz]	230/50	230/50	400/50	400/50
Salt consumption of electrolysis cell	[kg/h]	0 – 0.125	0 – 0.25	0 – 1.0	0 – 4.0
Fresh water supply max.	[l/h]	10 – 30	20 – 60	180 – 500	500 – 2000
Produced amount of Di-Oxylyd max.	[l/h]	25	50	500	2000
3% of caustic soda solution (liquid waste)	[l/h]	1.5	3	12	48
Conditioning of water volumes up to	[cbm]	250	500	5000	20000
Total weight (incl. storage tank) ca.	[kg]	25	40	380	750
Dimensions CLS (W x H x D)	[mm]	1000 x 800 x 300	1000 x 800 x 300	1600 x 1900 x 500	800 x 1900 x 500
Dimensions of the softener (ø x H)	[mm]	integrated	integrated	185 x 1180	210 x 1345
Mounting plate of electrolysis cells (W x H x T)	[mm]	–	–	–	2400 x 2000 x 650
Order no.		58960	58960	58960	58960