SAND FILTER D600 / D800

Efficient water filtration significantly extends the interval between necessary cleaning tasks in spray fountains, ponds, and other systems.

The crystal quartz sand filter should be operated independently of and parallel to actual spray fountain and circulation technology. The filter can work during fountain operation, in periods when the fountain is not operating, or it can even work around the clock.

The filter system consists of a container made of fibre-glass reinforced plastic and a pump and a multi-port valve. Everything is compact and pre-mounted on a plastic pallet. The fill opening of the filter tank is sealed with a cover and an integrated manometer.

The tank is filled with crystal quartz sand or AFM filter medium and contaminated water is suctioned in by the pump. In the filter the water is forced through the filter material via an upper distributor with sieve and then it is fed back into the pool through a lower distributor with small open-seam pipe. If the filter capacity is exhausted the filter is simply rinsed in reverse and the debris is discharged via the wastewater channel.

Product characteristics at a glance

- **Efficient, mechanical water filtration**
- **Extends the cleaning interval**
- **Environmentally-friendly mechanical filtration**
- **Pre-assembled, easy-to install unit comprised of filter, pump, and multi-port valve**
- **Easy to clean**

NEW

Accessories (must be ordered separately)

Crystal quartz sand	25 kg sack
Grain	0.4 – 0.8 mm
Order no.	**53428**

NEW

AFM filter medium	25 kg sack
The activated filter material comes with catalytic and oxidizing characteristics. Resists biofilm accumulation and enhances the service interval.	
Grain	0.5 – 1.0 mm
Order no.	**50433**

Table with guide values for filter runtime control / maximum pool water contents at filter runtimes of:

Sand filter		D 600	D 800
At low contamination level			
Recirculations / day		2	2
9 hours / day	[m³]	50	120
15 hours / day	[m³]	70	200
24 hours / day	[m³]	120	300
At medium level of contamination			
Recirculations / day		4	4
9 hours / day	[m³]	30	60
15 hours / day	[m³]	45	100
24 hours / day	[m³]	60	150
At high level of contamination			
Recirculations / day		6	6
9 hours / day	[m³]	20	40
15 hours / day	[m³]	35	60
24 hours / day	[m³]	50	100

Sand filter		D 600	D 800
Dimensions (LxWxH)	[mm]	1000 x 870 x 1100	1000 x 1000 x 1250
Filter tank with base & lid			
Filter tank diameter	[mm]	630	830
Filter surface	[m²]	0.28	0.50
Recirculation capacity at 8 m wc	[m³/h]	13	25
Filter speed at 8 m wc	[m/h]	50	50
Reverse rinse speed	[m/h]	50	50
Reverse rinse duration	[min.]	ca. 2 – 4	ca. 2 – 4
Water requirement per reverse rinse	[l]	approx. 650 in 3 min.	approx. 1250 in 3 min.
Grain of the filter material	[mm]	0.4 – 1.0	0.4 – 1.0
Quantity of the filter material	[kg]	approx. 125	approx. 325
Max. operating temperature	[°C]	40	40
Max. operating pressure	[bar]	2.5	2.5
Suction line connection	[G]	2”	75 mm
Pressure line connection	[G]	1 1/2”	75 mm
Back wash connection	[G]	1 1/2”	2”
Nominal motor power	[kW]	0.65	1.3
Motor power consumption	[kW]	0.97	1.85
Nominal motor voltage	[V]/[Hz]	230/50	230/50
Nominal motor current	[A]	4.7	8.3
Motor protection class		IP x 4	IP x 4
Weight without sand	[kg]	40.0	72.0
Filter tank material		GFK (Polyester)	GFK (Polyester)
Pump material		PP TV 20/PP TV 40	PP GF 30/PP TV 40
Order no.		**50431**	**50432**

Clear Fountain System and Water treatment

Spray fountain technology requires optimal water conditions: Ideal pH value, no algae and no germs are the basic prerequisites. We use proven means to achieve this end. OASE has developed a special product range of dosing equipment and accessories for trouble-free treatment.

pH value (PHW-30)

Depending on the initial value the pH value of the water is maintained at a constant level of between 7.2 and 7.6 by the addition of acid or alkali. Dosing of the pH regulator is automatic.

Germ-free status (ADR 90)

Germicidal products ensure a virtually germ-free status. Chlorine products that are often used for swimming pools are problematic as they corrode metals and have irritating odours. Germicidal agents based on hydrogen peroxide or silver oxide can be used as an alternative.

Algae growth (ASS 100)

Unaesthetic algae growth in a fountain is usually controlled by adding an anti-algae agent.

Product characteristics at a glance

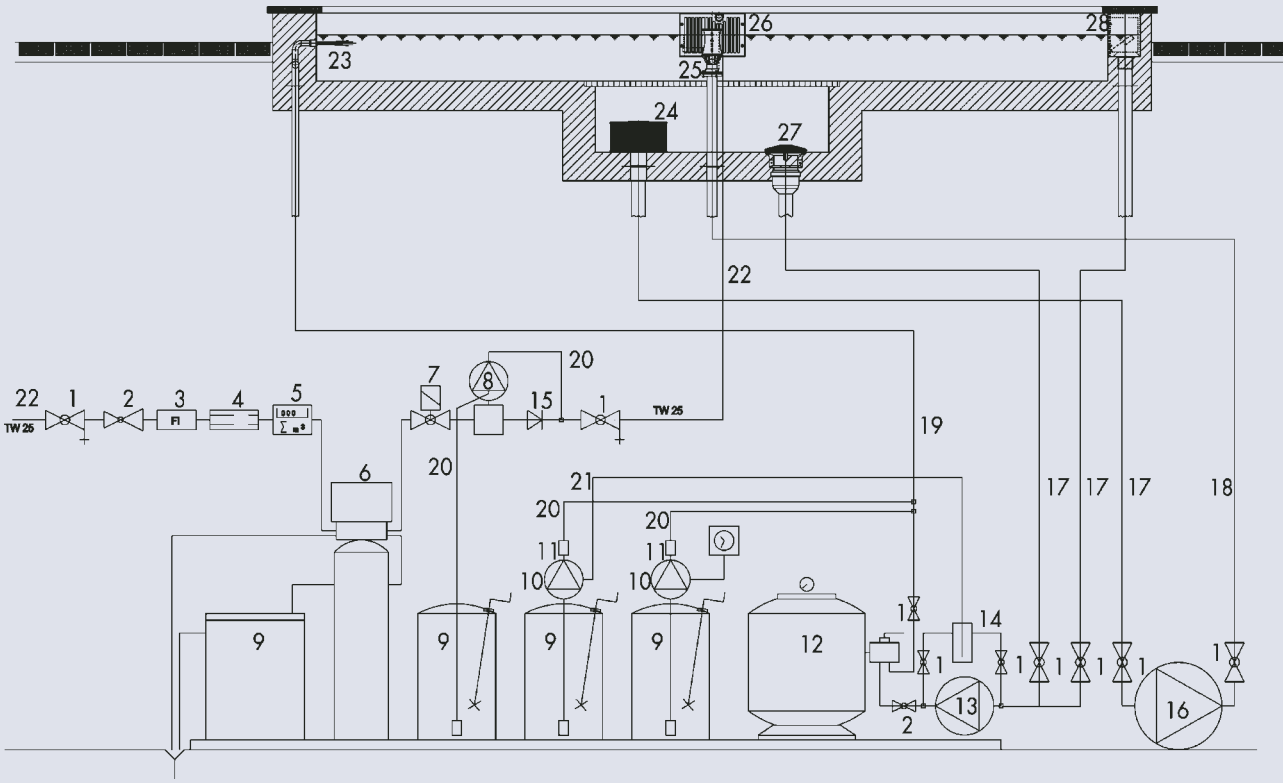
- Hygienically, visually, and technically clean water
- Perfectly matched system components
- High-quality components from a single source
- Easy to handle

Clear Fountain System

NEW

- Simple, reliable system in industrial casing with dosing pumps and control instruments.
- Password protected programming with user-friendly display and console.
- Proportional dosing via frequency modulation.

NEW



1 = Blocking/throttle slider
2 = Pressure reducer
3 = Filter sieve
4 = Pipe disconnector
5 = Water metre
6 = Water softener system
7 = Solenoid valve
8 = Water metre controlled dosing pump
9 = Dosing tank
10 = Dosing pump
11 = Pressure retaining valve
12 = Crystal quartz sand filter
13 = Filter pumps
14 = Electrode holder
15 = Backflow preventer
16 = Fountain pump
17 = Suction line
18 = Pressure line
19 = Filter pressure line
20 = Dosing line
21 = Measuring line
22 = Fresh water line
23 = Inflow nozzles
24 = Suction filter basket
25 = Fountain attachment
26 = Wall-installation combination armature
27 = Floor drain with sieve
28 = Skimmer

NEW

	Clear Fountain System	PHW 30	ADR 90	ASS 100 *
Dimensions (LxWxH) [mm]	900 x 300 x 500	380 x 280 x 400	380 x 280 x 400	200 x 200 x 400
Agent	compact dosing station	Sulphuric acid	Hydrogen peroxide	Ammonium chloride
Identification	–	Corrosive	Corrosive	Dangerous to the environment
Voltage [V/Hz]	100-240/50-60	–	–	–
Power consumption [W]	56	–	–	–
Litre	–	30.0	30.0	10.0
Weight [kg]	16.0	32.0	32.0	12.0
Order no.	**50434**	**53091**	**56866**	**51093**

* Utilise algicides safely. Always read the instructions and identifications before applying algicides.

Clear Lake System 500/5000/20000

Clear Lake System stands for cost-efficient, safe and environmentally sound 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 500)
- Electronic steering
- Membrane-electrolysis
- Special-ventilation for hydrogen-gas (except for CLS 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 500)**
- **Special-ventilation for the hydrogen-gas (except for CLS 500)**
- **Electrolysis cells with titan-electrodes**
- **Low operation costs**
- **Compact design**

Options (must be ordered separately)

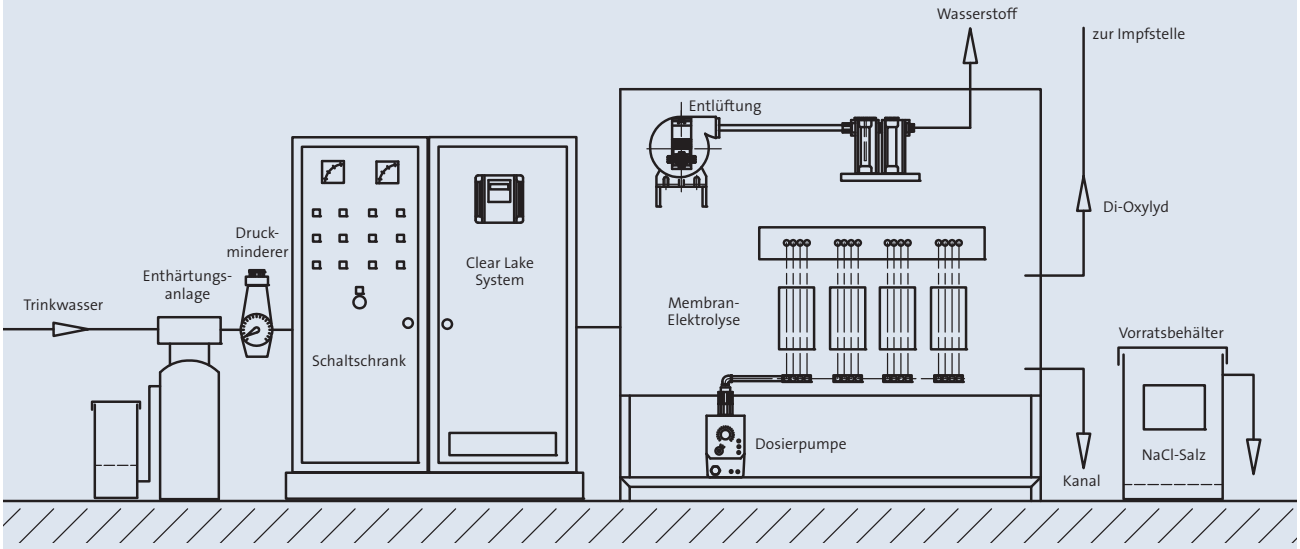
- Measurement System for the pH
- REDOX for the control unit

The technology complies with the Drinking Water Ordinance (TVO 2001), with DIN 19643, with the municipal health and safety regulations 8.15 (GUV) and with the Ordinance of Hazardous Substances §16, Chapter 2.

Schematic setup

NEW

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 500	CLS 5000	CLS 20000
Storage tank for the brine	[litre]	100	500	500
Brine-dosing pump	[l/h]	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	(ø x H) 380 x 860	(ø x H) 490 x 870

Clear Lake System		CLS 500	CLS 5000	CLS 20000
Power supply unit	[A/V]	40/5.5	2 x 60 /25	4 x 60 /50
Control by the measurement system	[mA]	0 – 20	0 – 20	0 – 20
Impulse entrance max.	[Imp./min]	120	120	120
Electrical power input max.	[KVA]	0.3	4	16
Voltage	[V/Hz]	230/50	400/50	400/50
Salt consumption of electrolysis cell	[kg/h]	0 – 0.25	0 – 1.0	0 – 4.0
Fresh water supply max.	[l/h]	20 – 60	180 – 500	500 – 2000
Produced amount of Di-Oxylyd max.	[l/h]	50	500	2000
3% of caustic soda solution (liquid waste)	[l/h]	3	12	48
Conditioning of water volumes up to	[cbm]	500	5000	20000
Total weight (incl. storage tank) ca.	[kg]	40	380	750
Dimensions CLS (W x H x D)	[mm]	1000 x 800 x 300	1600 x 1900 x 500	800 x 1900 x 500
Dimensions of the softener (ø x H)	[mm]	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**