

A background image showing a close-up of water splashing, with a single droplet suspended in mid-air above the main splash.

BestFlow[®]
Chlorination without any
compromises, new and
innovative technology with
BestFlow[®]System



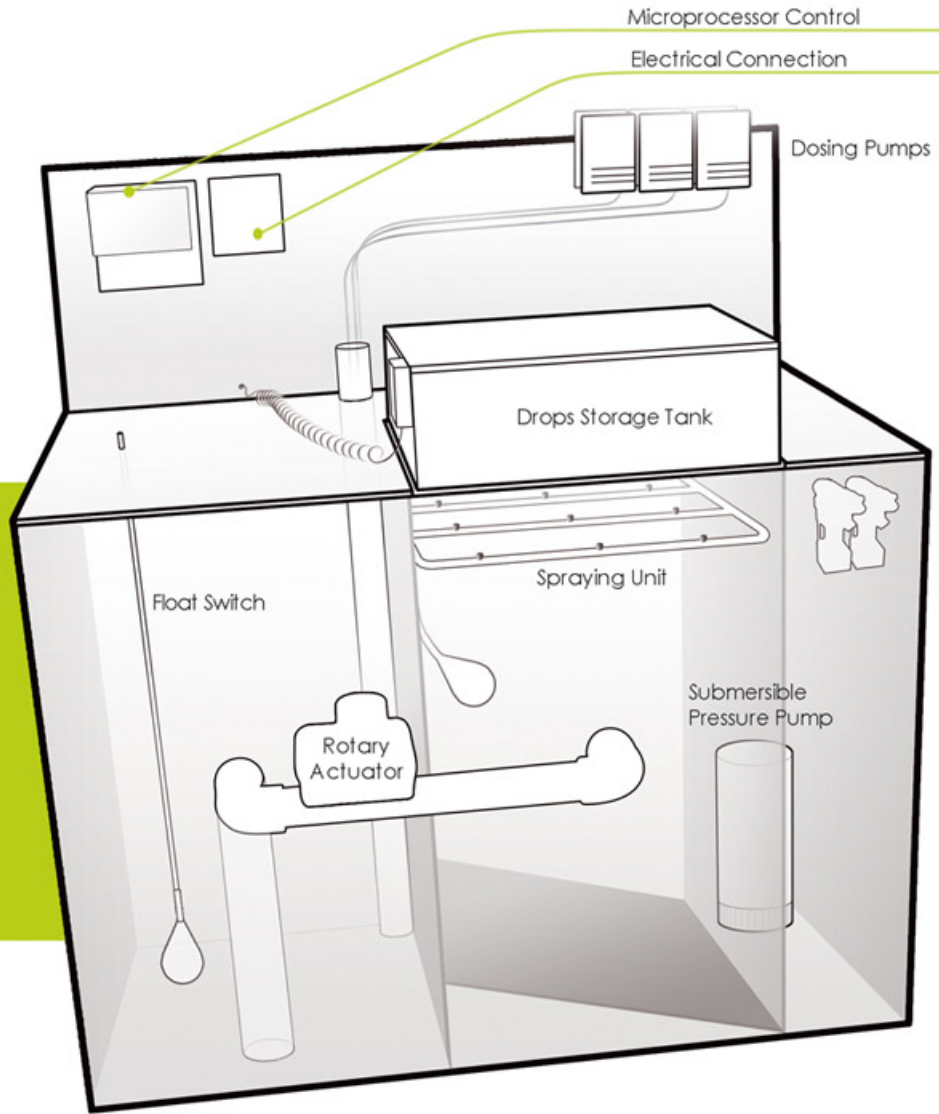
WATERTECNOLOGY AND POOLCARE

Fully automated production system
for calcium hypochlorite Drops

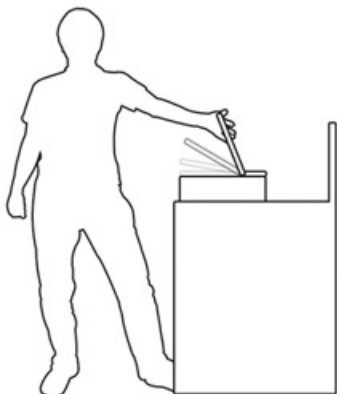
SAFE
PRECISE FUNCTION
EASY TO USE
MADE IN GERMANY
VOLTAGE FREE ALARM CONTACTS
e.g. FOR BUILDING CONTROL SYSTEMS
TÜV (TECHNICAL INSPECTION ORGANIZATION)

The BestFlow® System

An absolutely reliable and secure system. Guarantees a trouble-free continuous dosing of Calcium hypochlorite under harsh conditions. A direct addition of acid in the BestFlow® System is not required. Thus, a much higher safety potential is available. A possible formation of chlorine gas is completely eliminated. Together with our high demand on product quality for BestFlow® Drops, an above-average long life of the entire BestFlow® Drops is guaranteed.



options:
Measurement & Control Technology
 Chlorine and pH with Dosing Pumps



Bestpool BestFlow®
Chlorination plant for Calcium Hypochlorite

Capacity max. 2500 g free Chlorine / Hour
 Chlorine content in solution (titrated) c. 2.0%
 Disinfection plants for public swimming pools in accordance with DIN 19643

Double welded polypropylene Production Tank in acc. with DVS with integrated level detection and overflow control in acc. with WHG

Capacity for c. 30 kg of 70% calcium hypochlorite tablets to produce a disinfectant solution using an integrated water spraying unit and an automatic safety stop system for pausing production when the storage tank is opened

Water Storage Tank
 Production Tank
 Product Tank

Electrical rotary actuator with illuminated display, robust housing, overload protection, heating to prevent condensation, Screw conveyor drive, polyester-coated aluminium housing, manual override



Microprocessor Control

for the safe operation of the plant

With connection for Building Control

LED-backlit Graphical Display

Film Keypad

Menu controlled Text Display

Simple, logical text navigation for operation

220V Alarm contact for e.g. Building Control

Flush control to open the isolation butterfly valve

Display of current operating status

Protection Class IP 65

Power Rating 5W

Contact load max. 2,5 A / 230 V

Electrical Connection 230 V / 50 Hz

Ambient Temp. max. 40°C



Installation Requirements

Socket Connection 230V AC

Water connection ½"

min. flow pressure 1 bar

Optional Soft water Connection

Footprint Dimensions

L 120 x H 125 x W 80 cm

Spray and Dissolution Unit

Power Rating 800W

Max. Pressure 3,3bar

Pump Drive

Integrated Water Spray Tank

including float switch and

fully automatic filling of spray water

Robust Rotary Actuator

Shaft material 6k-Stainless Steel 13%Cr

Top flange ISO 05

Flange Connection PN10

Automatic filling of the product tank

based on demand using electrically

actuated Teflon-coated valve

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BestFlow® System in comparison with Sodium Hypochlorite System

Sodium Hypochlorite Dosing Plant

- High hazardous risk through confusing with acidic pH minus (Development of Chlorine Gas)
- Higher footprint through Tank Storage
- Requires safe Retention system/ Bunding
- Varying Chlorine concentration

Sodium Hypochlorite

- Less than 15% available Chlorine
- Strongly Alkaline (pH 12)
- Frequent corrosion caused by calcium deficiency
- Creates "gray / green" swimming pool water
- 1-3 month shelf life, highly temperature-and light-sensitive
- High space requirements (up to factor 6)
- High physical load through manual handling of heavy 30 kg containers
- More frequent and more expensive deliveries due to low shelf life
- Higher transport costs (Hazardous chemical directive plus tolls) due to 6-fold weight & storage volume
- Complicated schemes to return empty containers, sometimes with deposit payment policies

Sodium Hypochlorite System

- Low product shelf life prevents long storage
- Daily reduction of the chlorine concentration
- Strong product alkalinity, i.e. costly pH correction
- Remnants of unused product in every container
- Addition of Chalk or Limestone depending on the water quality
- Possible installation of limestone contactor or hardening required

BestFlow® System in comparison with Chlorine Gas System

Chlorine Gas Plants

- High hazardous risk
- Specialisation and experience necessary
- Chlorine gas storage room with special safety and warning systems required

- Manual dosing impossible during plant shutdown
- Complex, costly and safety relevant installation required

Chlorine Gas

- High hazardous risk when dealing with compressed gas cylinders
- Very small storage possibilities
- Production of a strong acidic chlorine solution
- Frequent corrosion caused by calcium deficiency

- Creates "gray / green" swimming pool water

Chlorine Gas System

- High maintenance costs
- High capital costs
- High installation costs
- Hire costs & pressure testing costs through TÜV (Technical Inspection Organisation) for chlorine cylinders, sometimes with a dedicated telephone line to the fire department
- Loss of residual product in the cylinder
- Large addition of acid, i.e. costly pH Correction
- Addition of Chalk or Limestone depending on the water quality
- Possible installation of limestone contactor or hardening required

BestFlow® System in comparison with Electrochlorination System

Electrochlorination Plant

- High hazardous risk through the production of Hydrogen and Chlorine Gas
- Costly maintenance, for the operation experienced specialists are required
- High space requirements (up to factor 3)

Chlorine from Electrochlorinator

- Strongly Alkaline (pH 12)
- Frequent corrosion caused by calcium deficiency

- Creates "gray / green" swimming pool water

Electrochlorination Plant

- High capital and installations costs, depending upon the required capacity (g Chlorine/h), between 2-20 times higher capital costs
- Expensive Electrodes must sometimes be replaced yearly (c. €4.000)
- Extensive and expensive maintenance
- Regular replacement of the expensive cell packet, c. every 4-5 years. The cost of each 500 g Chlorine/h cell packet is c. €10.000.
- Electrochlorination use a lot of energy
- Amortisation calculations are not guaranteed due to ever increasing energy prices
- Strong alkalinity, i.e. costly pH correction

Bestpool BestFlow® System - Advantages

- No hazardous risk as mix up with pH minus is practically impossible
- Less space requirement through compact dosing unit
- No requirement of retention systems
- Constant chlorine concentration production

Bestpool BestFlow® Drops - Benefits

- 70 % available Chlorine
- Less alkaline (pH 9)
- Less corrosion through induced calcium
- Product available calcium reduces loss of joint material
- Calcium allows the water to appear blue
- At least 1 year of shelf life
- Less space requirement for storing the Drops
- Easy handling through 10 kg containers
- Simple and a smaller amount of supply necessary (yearly storage possible)
- 1/6 of the transport costs and storage quantities
- Not relevant

Bestpool BestFlow® - Drops – Cost Reduction

- Annual supply is possible
- No loss of chlorine due to emissions
- Less pH correction due to minor pH changes
- 100 % of the purchased product is used
- No additional calcium necessary
- Limestone contactor or additional hardening is not required

Bestpool BestFlow® System - Advantages

- No hazardous risk
- No special experience is required
- Less space requirement. No special room and safety and alarm systems required
- Simple manual dosing in case of a failure
- Very simple and inexpensive installation

Bestpool BestFlow® Drops - Benefits

- Simple and safe handling (no pressure vessels)
- Very high storage capacity
- Production of a light alkaline chlorine solution
- Less corrosion through induced calcium
- Product available calcium reduces loss of joint material
- Calcium allows the water to appear blue

Bestpool BestFlow® - Cost Reduction

- Low maintenance costs
- Low capital costs
- Low installation costs
- No hire costs for the containers
- No significant cost to meet the required safety standards and no dedicated telephone line to the Fire department
- No loss of chlorine
- Less pH correction due to minor pH changes
- No additional calcium necessary
- Limestone contactor or additional hardening is not required

Bestpool BestFlow® System - Advantages

- Safe application
- Uncomplicated maintenance – very simple to operate
- Less space requirement (very compact plant)

Bestpool BestFlow® Drops - Benefits

- Less alkaline (pH 9)
- Less corrosion through induced calcium
- Product available calcium reduces loss of joint material
- Calcium allows the water to appear blue

Bestpool BestFlow® - Cost Reduction

- Less capital and installation costs
- No expensive wearing out parts installed
- Simple and inexpensive maintenance
- Almost no energy costs
- Less pH correction due to minor pH changes

Contact
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