

Strantrol® CO₂ Chemical Feed Systems

Precise pH Control is Essential

Precise control of pH is a necessary element in the disinfection of swimming pool and spa water, as it maximizes the potential for oxidation of organic matter. Also, precise pH balance, within proper ranges, will maximize the life of the pool and spa structure and the components of the recirculation system. Muriatic acid and carbon dioxide (CO₂) are the two most common products used to reduce or lower the pH of pool and spa water. CO₂ may be considered the chemical of choice.

CO₂ Versus Acid

CO₂ is considered to be easy to use — very safe to handle and store. Its use alone makes it virtually impossible to lower the pH of pool and spa water below 6.0. Extreme caution must be used to ensure safe handling and storage when using acid. Telltale signs of pool and spa facilities that employ acid as the method of pH adjustment are:

- Roughening or eating away of pool/spa finish surfaces
- Corroding/leaking plumbing
- Shortened life for recirculation pumps
- Shortened life of filter systems
- Shortened life of heat exchangers
- Corroding electrical devices, conduit, and mechanical room structural supports
- Etching and destruction of equipment room concrete floors.

CO₂ is normally delivered to a facility in bulk form. However, if acid is employed, acid fumes and vapors are ever present and the potential for spillage exists. For prudent, safe storage practice, double containment of acid storage tanks is a must, and in many states is mandatory. The potential reaction of chlorine with acid will create a lethal gas. Our CO₂ feed systems will resolve the problems associated with storage and use of acid.

Key Benefits

- CO₂ creates a natural bicarbonate buffer
- pH stability
- Simple to install and easy to operate
- Less maintenance and less space required
- No spills
- Safer to use

Siemens — The Industry Leader

We are the only manufacturer of a complete line of Strantrol® CO₂ feed equipment. We offer both high and low volume CO₂ feed devices, including a high efficiency, high volume CO₂ feed system. We have invested in research and development dedicated to CO₂ feed systems that meet the special needs of the commercial recreational water industry.



Product Line Sheet

Basic CO₂ Feed Units

The Stranrol® CO₂-3 and CO₂-9 feed systems feature rate of gas flow meters with adjustable flow control. The Stranrol® CO₂-7 and CO₂-8 feed systems are also available with heater elements to prevent regulator freeze up that may occur in high use applications using single or dual high pressure storage tank systems. All Stranrol® CO₂ feed systems are provided with our advanced eductor technology, guaranteeing the maximum gas-to-water transfer efficiency.

Stranrol® CO₂ Feed Systems for Use on All Commercial Pools and Spas

In the past, some facility operators have been told that carbon dioxide can't be used at their facility, thus forcing them to cope with the difficulties associated with the handling and feeding of muriatic acid. The reason most often given is that local water is high in alkalinity and the use of CO₂ will worsen this condition, making the water "stubborn" or more difficult to control the shift of pH levels. Siemens offers an advanced CO₂ feed system technology which controls alkalinity in addition to pH. That's why the Stranrol® CO₂-2000 feed system is available with an optional alkalinity reduction unit. This option is designed for the pool or spa that routinely experiences abnormally high alkalinity levels. The high efficiency design of this unit results in low chemical cost, minimal handling, and greatly reduced chemical storage.

Bulk Storage Systems

The Stranrol® CO₂ Bulk Storage Systems from Siemens Water Technologies are available in 450 and 750 pound capacities. The systems operate at a low pressure and come complete with a feed supply adjustable regulator and gauges. These storage systems are designed to supply CO₂ continuously, even under high demand situations. The systems are fully automatic and require no electrical connections or heaters. A protective coating, exclusive to Siemens.



Stranrol® CO₂ Regulators and Switchover Systems

Choose from a group of accessories for all your application needs: heaters, regulators, switchover packages (manual and automatic), and bulk storage systems.

The Stranrol® CO₂-5 adjustable single tank regulator is equipped with tank and output pressure gauges. The Stranrol® CO₂-6 manual switchover system for use with dual CO₂ pressure cylinder systems are equipped with tank and output pressure gauges.

The Stranrol® CO₂-10 fully automatic switchover system is for use with dual CO₂ pressure cylinder systems. It is equipped with tank pressure gauges. The Stranrol® CO₂-10 switchover system may be used in conjunction with Stranrol® CO₂-5 tank regulators.

Electric line heaters are provided with Stranrol® CO₂-7 and CO₂-9 systems. Line heaters allow for high volume feed rates of 20-200 SCFH, which prevent CO₂ feed lines from freezing

Dedicated Service Professionals

Our factory-trained, certified service technicians are located throughout the world. They are dedicated to providing solutions to problems associated with recreational water facilities by utilizing state-of-the-art technologies and ongoing client education and support to assure product satisfaction.

Every technician has demonstrated superior ethical business techniques, making them industry leaders. They attend frequent meetings held around the world to keep up with the very latest technologies in construction, chemistry, recreational water facility design, equipment selection requirements and performance levels. Our technicians work closely with a community of experts consisting of health department officials, design consultants, competitive coaches and recreational leaders.

The cumulative experience of thousands of commercial recreational water facilities gives our technicians a bank of ideas which is unrivaled in the industry.

Siemens Quality Products

Stranrol® CO₂ Feed Systems are part of a full line of Siemens water treatment and energy conservation products. We provide water chemistry controllers and many other quality items.

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