



USFilter

STRANTROL CO₂
CHEMICAL FEED SYSTEMS



CO₂ - CONSIDERED THE CHEMICAL OF CHOICE



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. CO₂ feed systems offer these benefits:

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

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

USFILTER STRANCO – THE INDUSTRY LEADER

We are the only manufacturer of a complete line of 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.





USFILTER STRANCO PRODUCTS CO₂ FEED SYSTEMS

BASIC CO₂ FEED UNITS



The CO₂-3 and CO₂-9 feed systems feature rate of gas flow meters with adjustable flow control. The CO₂-7 and CO₂-8 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 USFilter Stranco CO₂ feed systems are provided with our advanced eductor technology, guaranteeing the maximum gas-to-water transfer efficiency.

HIGH EFFICIENCY CO₂-2000 FEED SYSTEM

The CO₂-2000 is our premier carbon dioxide feed system. It is designed for larger commercial facilities that demand high CO₂ output and high efficiency. The CO₂-2000 is designed to accommodate the mass transfer of large volumes of carbon dioxide into a water stream. Its contact chamber, with a patented diffusion/blending

system, effectively achieves the lowest possible water pH level.

CO₂ 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. USFilter Stranco Products offers an advanced CO₂ feed system technology which controls alkalinity in addition to pH. That's why the CO₂-2000 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 USFilter Stranco Products CO₂ Bulk Storage Systems are available in 400 and 600 pound capacities. The systems operate at 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 USFilter Stranco Products storage systems, is applied to the stainless steel storage tanks to protect them from corrosive environments. The use of bulk storage systems typically affords a reduction in the cost of CO₂ by as much as 30%.

CO₂ REGULATORS AND SWITCHOVER SYSTEMS

Choose from a group of accessories for all your application needs:

- Heaters
- Regulators
- Switchover packages: manual and automatic
- Bulk Storage Systems

The CO₂-5 is an adjustable CO₂ single tank regulator equipped with tank and output pressure gauges.

The CO₂-6 is a manual switchover system for use with dual CO₂ pressure cylinder systems equipped with tank and output pressure gauges.

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

Electric line heaters are provided with 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.



Bulk Storage Tank and CO₂-2000 Feed System



DEDICATED STRANTROL 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.

LET PRODUCTS PAY THEIR OWN WAY

USFilter Stranco Products offers a unique *Rent-To-Own* program for all of our products. We require no up-front investment on your part. Now you can let monthly savings make your payments for automated, energy saving and high efficiency Stranco Products. All CO₂ feed systems are backed by our acclaimed, no-nonsense warranty.

USFILTER STRANCO QUALITY PRODUCTS

CO₂ Feed Systems are part of a full line of USFilter water treatment and energy conservation products. We provide water chemistry controllers, filtration systems, energy saving pool blanket systems, and many other quality items.



Water Chemistry Controllers, Filtration Systems, Energy Saving Pool Blankets

REPRESENTED BY:

To find out more about how to put USFilter to work for you, contact us at



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