

Stranco[®] CO₂ Control System for clean efficient pH correction of swimming pools using CO₂

Carbon dioxide has long been an efficient and safe option for pH correction within swimming pools. Carbon Dioxide (CO₂), when added to water, forms Carbonic Acid (H₂CO₃), a mild but still very effective acid, and generates a natural carbonate buffer that helps maintain water alkalinity levels. However, the following must be taken into consideration when deciding to employ CO₂ for pH correction. Water features and flumes can expel CO₂ from the water, resulting in pH values rising, particularly where the source water is soft. As a general rule, CO₂ works best where alkalinity is less than 140 mg/l.

CO₂ Control Unit (1)

The control unit consists of 1 to 10 l/min gas meter and a solenoid valve housed within an ABS enclosure. The solenoid valve is energised via an automatic pool controller. The desired flow of CO₂ is adjusted via a needle valve on the gas meter. Once this setting has been determined additional adjustments should not be necessary.

Twinflow Automatic

Changeover Valve (2)

The model CV156 provides an uninterrupted supply of CO₂, both regulating pressure and providing an automatic switchover from duty to standby cylinders.

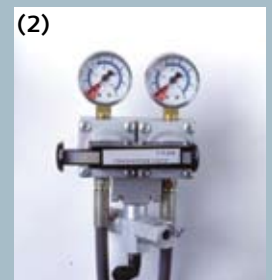
The CV156 connects to two CO₂ cylinders (option - four cylinders available) and draws only from the duty cylinder until it is empty, then draws automatically from the reserve cylinder. Where bulk storage of CO₂ is employed, the changeover valve is not required. The feed for CO₂ control unit would be taken directly from the bulk store.

Key Benefits

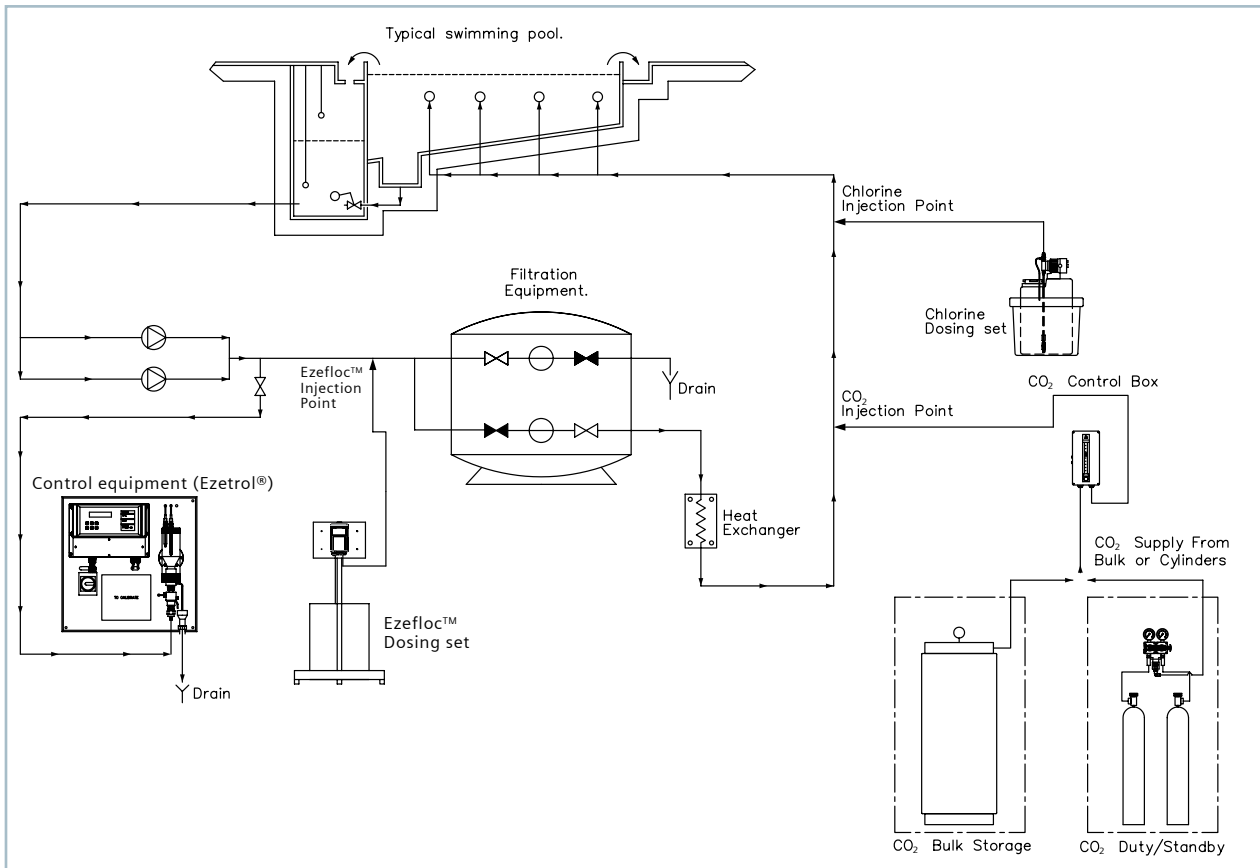
- The use of CO₂ eliminates acid handling hazards and removes the risk of accidental mixing of acid with hypochlorite
- The CO₂ system offers ease of installation and minimum space requirement
- Clean and convenient to use, practically maintenance free
- Adds alkalinity to water without secondary chemical addition
- Improved Water Quality

Diffuser Assembly (3)

A stainless steel diffuser for injection of CO₂ via the circulation system within the plant room. Consisting of a quill fitted with a non-return valve and a ball valve, the diffuser allows for local isolation for routine maintenance.



Product Sheet



Standard Configurations

3042 Single Pool CO₂ System

2 cylinder system comprising of:
 1 x CV156 Changeover valve
 1 x Diffuser assembly
 1 x 30 m roll dosing hose
 1 x Control unit
 1 x Two Cylinder wall bracket

3064 Single Pool CO₂ System - Twin Cylinder

As 3042 to suit twin banks of CO₂ cylinders

3043 Two Pool CO₂ System

2 x cylinder system comprising of :
 1 x CV156 Changeover valve
 2 x Diffuser assemblies
 2 x Control units
 2 x Two Cylinder wall bracket

3142 Pool CO₂ System - Twin Cylinder System

As 3043 to suit twin banks of CO₂ cylinders

3060 Bulk Storage CO₂ System

For use with bulk storage CO₂
 Comprising of :
 1 x Diffuser assembly
 1 x 30 m roll dosing hose
 1 x Control unit

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