

PH Control System – CO₂

The pH control system uses a LMI 5000 pH controller and probes integrated with carbon dioxide in 50 lb. or 600 lb. returnable containers to adjust the pH from basic to neutral (7.0 +/-). The process of adding carbon dioxide to water, gas diffuser(s), converts the carbon dioxide to carbonic acid in the water, thereby decreasing the pH. The system includes the pH controller, pH probe, gas regulator, cryogenic solenoid valve, and delivery/replacement of the CO₂ tanks as needed.

The system is easy to calibrate and uses 120-volt ac for power. The benefits as compared to acids are the following:

- non hazardous (documented inventory or manifests)
- no drum disposal costs
- no secondary containment needed
- no EC/TDS addition making the water reusable in many applications to higher cycles of concentration prior to discharge



* pH control unit can be purchased separately.

