



Low Pressure Carbon Dioxide System

Protection for non-occupied hazards

- Large capacity on demand
- Fights A, B and C fires
- No residue to clean up
- Multiple discharge capabilities
- Integral refrigeration system

ANSUL® Bulk and Mini-Bulk Low Pressure, Carbon Dioxide Systems are designed for non-occupied fire hazards and offer an economical solution that provides automatic or manual protection for Class A, B and C fires. Carbon dioxide suppresses fire without damaging electrical equipment or leaving behind agent residue to clean up after discharge, thus minimizing downtime following a fire incident.

Bulk Storage in Limited Space

The ANSUL Bulk Low Pressure, Carbon Dioxide System is ideal for non-occupied fire hazards requiring large amounts of agent with limited storage space. A single bulk tank can store from 3.75 to 46 tons (3,402 to 41,730 kg) of carbon dioxide, which is maintained in a stand-by, fire-ready state that allows the system to provide effective distribution of agent on demand. This system offers multiple discharge capabilities between recharges as an economical option.

The liquid carbon dioxide is stored in an ASME-coded pressure vessel equipped with its own refrigeration system. Valve control is electro-pneumatic or manual. Each master and selector valve assembly consists of either a ball valve or a butterfly valve, a spring-return pneumatic actuator and a three-way electronically operated, solenoid valve.





APPLICATIONS FOR LOW PRESSURE CARBON DIOXIDE SYSTEMS

Coal silos
Coating machines
Dip tanks
Dust collectors
Electric generators
Electric generating equipment
Electrical panels
Exhaust and fume handling systems
Flammable gas or liquid storage
Gas turbines
Generators
Hazardous material storage
Inerting applications
Machining operations
Open pits
Ovens
Paint lines
Printing presses
Process equipment
Quench tanks
Rolling mills
Semiconductor wet benches
Spray booths
Transformer vaults
Waste disposal equipment
Wave solder machines

NOTE: Areas protected by CO₂ Systems must be evacuated prior to discharge.

Flexible Mini-Bulk System Option

Bridging the gap between high pressure containers and low pressure bulk tanks, mini-bulk tanks offer capacities of 1,000 and 1,500 lb (454 and 680 kg). The ANSUL Mini-Bulk Low Pressure, Carbon Dioxide System tanks are configured vertically to save valuable floor space and can be manifolded together for rapid simultaneous discharge. Mini-bulk tanks provide protection for non-occupied total flooding or local application as well as hose reels or custom designs such as inerting or spurt systems.

Each mini-bulk tank is equipped with a low-cost, high-efficiency, air-cooled refrigeration unit using an environment-friendly refrigerant. Most system components are interchangeable between the mini-bulk system and the larger bulk storage tank systems. Master/selector valves operate on 24 VDC, which is compatible with most approved releasing panels. Mini-bulk tanks can be filled in place by setting up remote fill piping or they can be removed from the system and moved to a more accessible location for filling by using the fork pockets provided.

The Ultimate Fire Suppression Solution

The ANSUL brand promises a full range of quality fire protection solutions — from automatic detection and suppression systems to a complete line of wheeled and hand portable fire extinguishers and more. Plus, our extensive network of Authorized ANSUL Distributors provides factory-trained professionals to serve our customers virtually anywhere in the world.

A Passion for Protection

Dedicated customer support. Extensive product portfolio. Engineering excellence. Trusted, proven brands. Tyco Fire Protection Products offers all of these attributes, plus a passion for protection. It's what drives us to create solutions to help safeguard what matters most — your valued people, property and business.