



**VENGERANT**  
PROTECTS FOR THE FUTURE



# UL LISTED - VENGERANT CO2 SUPPRESSION SYSTEM



[vengerant.com](http://vengerant.com)

# UL LISTED - CO2 SUPPRESSION SYSTEM



VENGERANT CO2 Fire Suppression Systems are meticulously engineered to provide rapid and efficient fire suppression across a diverse range of applications. Our systems are ideally suited for data centers, electrical rooms, archives, industrial facilities silos and flammable liquid storage areas. Designed for swift and effective response, they ensure maximum safety with minimal operational disruption. VENGERANT's solutions are robustly built to endure challenging conditions, offering unparalleled reliability and assurance.



## Ultimate Safety and Reliability

Safeguarding your valuable assets is made seamless with VENGERANT's advanced fire suppression technology. Our systems are equipped with state-of-the-art detection mechanisms, guaranteeing prompt activation and effective containment of fires. VENGERANT's commitment to innovation ensures that our solutions stay ahead of industry standards, providing you with the peace of mind that your operations are protected by the best in fire suppression technology. With a focus on both performance and sustainability, VENGERANT CO2 systems deliver not only exceptional protection but also a minimal environmental footprint. Trust in Vengerant to safeguard your most critical assets and ensure the continuity of your business operations.



# UL LISTED - CO2 SUPPRESSION SYSTEM

## RAPID FIRE SUPPRESSION AND LOW MAINTENANCE COSTS

CO2 is highly effective in swiftly extinguishing fires by displacing oxygen, ensuring minimal damage and downtime, while also being cost-efficient with minimal maintenance requirements.

## RELIABLE PERFORMANCE

Engineered to operate effectively under the most challenging conditions, ensuring continuous protection.

## VERSATILE APPLICATIONS

Designed to protect a wide array of fire hazards across various sectors.

## NON-CONDUCTIVE AND ENVIRONMENTALLY FRIENDLY

Ideal for use on electrical fires, ensuring no conductivity risks. CO2 is a clean agent that leaves no residue and poses no harm to the environment.



## Designing the Future of Fire Safety: Excellence in Protection and Innovation

At the core of Vengerant CO2 Fire Suppression Systems are high-pressure cylinders designed to safely contain CO2, coupled with precision-engineered discharge nozzles that ensure even distribution for optimal fire suppression. Our advanced control panels provide reliable monitoring and control, while state-of-the-art smoke and heat detectors offer early fire detection. With CO2 concentration levels meticulously engineered to achieve effective fire suppression, rapid discharge capabilities to quickly control fires, and reliable performance across a wide range of temperatures and pressures, our systems stand as a testament to technical excellence and innovation.

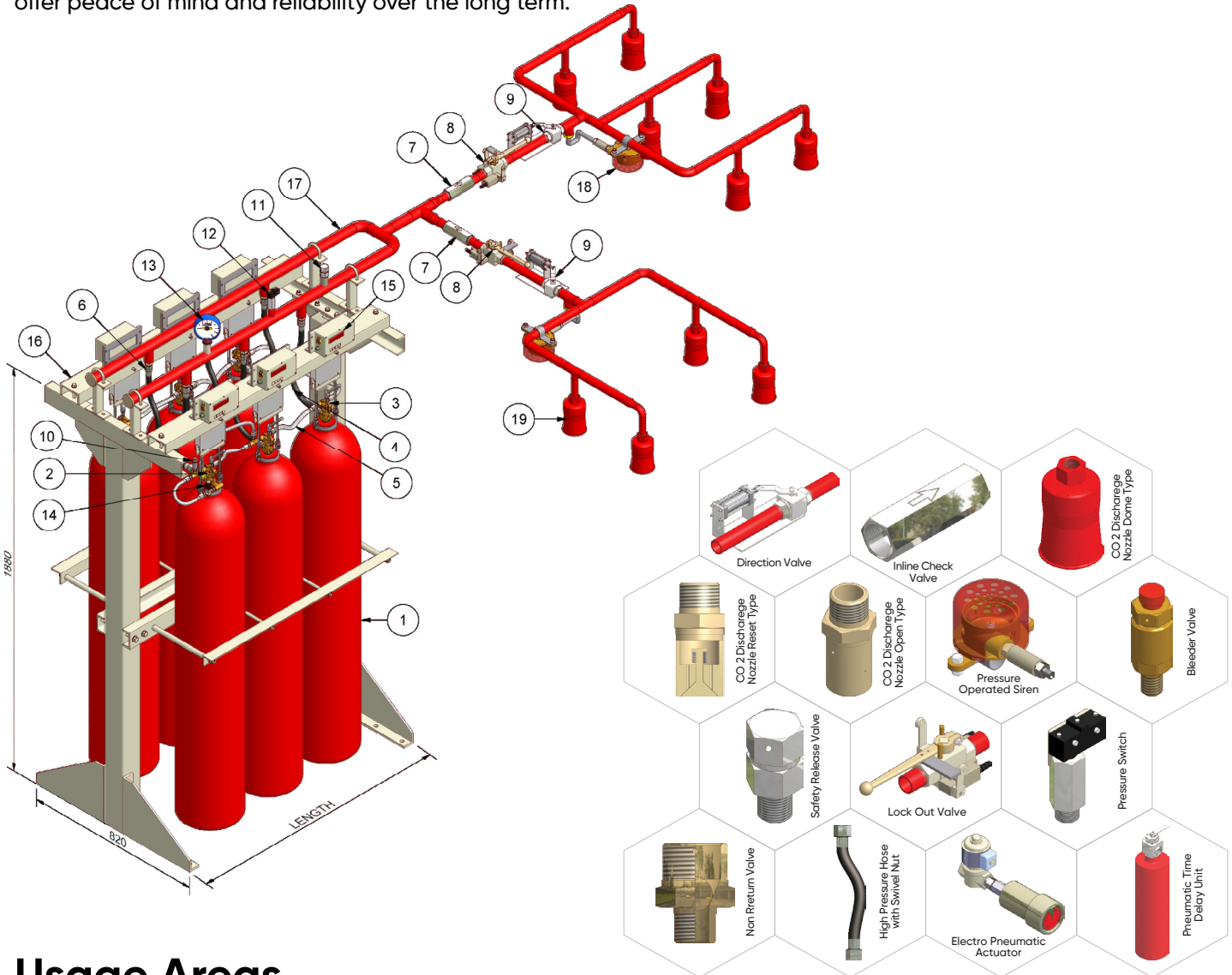
Furthermore, the cylinders of Vengerant CO2 Fire Suppression Systems can be securely fixed and stored in containers as per customer requirements, facilitating ease of maintenance, transportation, and installation. The CO2 master and pneumatic valves are built to rigorous specifications, ensuring robust performance even under the most challenging conditions. These features guarantee that Vengerant CO2 systems not only meet but exceed the highest industry standards, providing dependable fire suppression solutions that our clients can trust.

# UL LISTED - CO2 SUPPRESSION SYSTEM



## Protects Your Assets 24/7

In terms of maintenance and service, regular inspections are conducted to maintain system readiness, and customizable maintenance plans are available to ensure peak operational condition. We offer 24/7 support for any emergencies or queries, ensuring our clients are never without assistance. Our systems are designed for simple, hassle-free maintenance procedures, providing low maintenance costs and operational efficiency, which in turn offer peace of mind and reliability over the long term.



## Usage Areas

- Wind Power Plants (WPP), Hydroelectric Power Plants (HEPP)
- Solar Power Plants (SPP), Geothermal Power Plants (GPP)
- Electrical equipment (machines, transformers, etc.)
- Painting cabinets, industrial ovens, etc.
- Electronic control units and data processing centers
- Closed storage areas, dust pipes, and tunnels
- Closed frame spinning machines
- Silos, archives, flammable liquid storage areas

Sr. No.	Description
1.	CO2 Cylinder
2.	Master Valve
3.	Slave Valve
4.	Flexible Discharge Hose
5.	Flexible Inter Connecting Hose
6.	Non Return Valve
7.	Inline Check Valve
8.	Lock Out Valve
9.	Directional Valve
10.	Bleeder Valve

Sr. No.	Description
11.	Safety Release Valve
12.	Pressure Switch
13.	Pressure Gauge
14.	Solenoid Valve
15.	Digital Weight Loss Indicator
16.	Cylinder Mounting Frame
17.	Manifold
18.	Pressure Operated Siren
19.	CO2 Discharge Nozzle
20.	Weight Loss Indicator



# UL LISTED - CO2 SUPPRESSION SYSTEM

## Weight Loss Device Mechanical

A weight loss device is designed to track the leakage or discharge in cylinder weight. This cantilever mechanism includes a counterweight that becomes unbalanced when there is a leakage from the cylinders. A limit switch positioned near the counterweight sends a signal to the control panel when activated. For proper installation, the counterweight must be perfectly balanced with the cylinder's weight to maintain equilibrium and form with angle. The limit switch must be adjusted to change contact as it moves.

## Tailor Made Local Application for Maximum Safety for Special Projects

Localized fire suppression systems are specifically designed to detect and suppress fires at their point of origin. These systems use a combination of detection sensors and suppression agents to quickly respond to fire outbreaks, minimizing damage and ensuring safety. Installation typically involves strategically placing sensors and discharge nozzles in high-risk areas to ensure immediate response when a fire is detected.



- **QUICK RESPONSE**  
Rapid detection and suppression of fires at their origin significantly reduces damage and downtime.
- **MINIMAL DISRUPTION**  
Designed to operate efficiently with minimal disruption to daily operations.
- **TARGETED PROTECTION**  
Focuses on high-risk areas, providing enhanced safety where it is most needed..
- **COST-EFFECTIVE**  
Reduces the need for extensive fire damage repairs and replacements.
- **ENVIRONMENTAL SAFETY**  
Utilizes clean agents that are safe for the environment and leave no residue, ensuring the safety of both people and property.



# UL LISTED - CO2 SUPPRESSION SYSTEM



## Usage Areas

- **Data Centers:** Safeguards critical electronic equipment and data storage from fire damage.
- **Manufacturing Facilities:** Protects machinery and production lines from potential fire hazards.
- **Flammable Liquid Storage Areas:** Ensures the safe storage of hazardous materials by providing immediate fire suppression.
- **Electrical Rooms:** Prevents electrical fires by detecting and suppressing fires at their source.
- **Archives and Libraries:** Protects valuable documents, books, and historical records from fire damage.
- **Telecommunications Facilities:** Ensures the safety and functionality of critical communication equipment.
- **Chemical Laboratories:** Provides immediate fire suppression in environments with hazardous chemicals.
- **Hospitals and Healthcare Facilities:** Safeguards patients, staff, and sensitive medical equipment.
- **Energy Production and Supply Facilities:** Safeguards generators, transformers, and other critical power supply equipment from fire, ensuring uninterrupted operation.



# UL LISTED - CO2 SUPPRESSION SYSTEM

## COMPANY PROFILE

As VENGERANT, we set out with the mission of protecting the future in the world we live in. We aim to provide innovative solutions to fire protection systems. Our strong and determined stance is an indicator of reliability. Every step, every solution is an expression of our desire to provide a safe world to future generations.

As we look to the future, VENGERANT aims to expand our global presence and continue to set new benchmarks in the fire safety industry. We are dedicated to innovation, excellence, and the relentless pursuit of safety, ensuring that our clients can trust us to protect what matters most.

At VENGERANT, quality is paramount. Our products undergo rigorous testing and quality assurance processes to ensure they perform flawlessly in the most demanding environments. We adhere to international standards and continuously invest in research and development to stay ahead of industry trends and technological advancements

We are proud to be a pioneer in firefighting, and we are here to reflect this pride to our customers, business partners and every community. Because we, as VENGERANT, resolutely pursue the goal of "Protect for the future". The safety of you and our environment is our top priority for our goal.

## VENGERANT CO2 FIRE PROTECTION

In various industrial and commercial settings, the risk of fire is a constant threat due to the presence of flammable materials and critical equipment.

VENGERANT CO2 Fire Suppression Systems are meticulously designed to protect a comprehensive array of environments, including data centers, electrical rooms, archives, industrial facilities, silos, and flammable liquid storage areas. Our systems ensure a safe and secure operational environment by providing rapid and effective fire suppression at the source.

By integrating advanced technology, precise engineering, and an unwavering commitment to excellence, VENGERANT CO2 Fire Suppression Systems are renowned in the industry.

The system is developed according to the NFPA & UL Standards. It can be widely used in various settings such as data centers, manufacturing facilities, electrical rooms, and energy production facilities, including generators and transformers.

Our esteemed clientele includes a wide range of establishments, encompassing industrial plants, commercial buildings, healthcare facilities, educational institutions, and data centers.

## CERTIFIED CYLINDER

Stainless steel body available as 68 LT (+-5%)

## AGENT PROPERTIES

Under normal atmospheric temperature and pressures, carbon dioxide exists as a colorless, odorless gas which is about 1.5 times heavier than air. Carbon dioxide will not burn or support combustion and will not sustain life. When confined within a suitable pressure vessel and depending on temperature and pressure conditions, carbon dioxide can exist in any of three stages of matter; solid, liquid and gas.

## CLIENTELE



## CERTIFICATE

**UL Solutions** Safety. Science. Transformation.

**UL Solutions customer** VENGERANT MUHENDISLIK LIMITED SIRKETI  
Goztepe Mah. Bent Cd. No: 55/1  
Istanbul, Turkey

**UL Solutions customer file number and category** EX29379  
Carbon Dioxide Extinguishing System Units, General Use | FYJR

October 30, 2024

As of the above date, UL Solutions confirms that VENGERANT MUHENDISLIK LIMITED SIRKETI is the party associated with UL Solutions file number EX29379 that appears in the UL Product IQ platform. Public information contained in UL Solutions file number EX29379 can be viewed using the following link:  
<https://iq.ulprospector.com/en/profile?e=8157548>

The appearance of a company's name or a specific product/component designation in the UL Product IQ platform does not in itself mean that the product or component so specified or identified is subject to the UL Solutions surveillance program.

The manufacturer's products are covered by the UL Solutions surveillance program only when they bear the authorized UL Mark. Therefore, only those products bearing the appropriate authorized UL Mark or UL Recognized Component Mark, the authorized company name, tradename, trademark and product designation shall be considered as being covered by the UL Solutions Listing, Classification, or Recognition service.

If you have questions regarding this letter, please contact the UL Solutions customer care team at <http://www.ul.com/contact-us>.

Sincerely,  
UL Solutions

UL Solutions  
333 Pflingstein Road  
Northbrook, IL 60062

# PROTECTS FOR THE FUTURE



## VENGERANT

**VENGERANT ENGINEERING LIMITED COMPANY**

Göztepe Mh. Bent Cd. No: 55/1 Beykoz, İSTANBUL, TÜRKİYE  
+90 212 222 51 28 | info@vengerant.com

Marketing & Sales Representative  
(Asia/Middle East)

Rahil Ayoub Ansari

+92 345 3230843 | +971 55 158 6619

Email: rahilansari@eispak.com

www.eispak.com

