

FIRE LINE DO NOT CROSS



CINDER SCHEMATIC LLP



CINDER SCHEMATIC LLP

Add : B- 46 Basement Mangolpuri industrial area  
phase 2 New Delhi - 110034  
Email : cinder.schematicllp@gmail.com  
Website : www.cinder.co.in  
Tel : 6290146090, 9205123462



## COMPANY PROFILE

Cinder Schematic LLP is a proud Indian Company that offers a comprehensive range of fire fighting solutions through a vast network of distributors worldwide. Manufactured in our own state-of-the-art facilities, this allows us the flexibility to produce products that cater to specific needs and standard. Fire Fighting is responsibility and inventive - with this slogan we want to make an active contribution to the safety of people, property and productivity to the world. In order to fulfill this responsibility and invention we constantly work and promote the innovative ideas and expertise of our motivated team. We are a reliable, flexible and innovative partner, providing high quality automatic fire suppression system in any active or inactive zone. Fire can be happened in any time off man or on man condition, day or night condition. Reason on this demand we have come out to serve the best technology for Kitchen suppression, HT/LT panel suppression, Server/CNC Machine suppression, Vehicle suppression Foam suppression etc. In line with our commitment in providing the most reliable firefighting solutions, we strive to continue delivering unrivalled protection through cutting edge technology and research to your people and property.

## CONTENT

DIRECT SUPPRESSION SYSTEM	1 - 2
INDIRECT SUPPRESSION SYSTEM	3 - 4
CO2 SUPPRESSION SYSTEM	5 - 6
ROOM FLOODING SYSTEM	7 - 8
MICRO FLOODING SYSTEM	9 - 10
FULL SUPPRESSION SYSTEM COMPONENTS	11 - 16



## DIRECT SUPPRESSION SYSTEM

1. CINDER Direct suppression system (CDSS) is a Pre-Engineered, Reliable, Customer Friendly and cost-effective Automatic Fire detection and suppression system for single and multiple equipment against fire.

2. CDSS detect quickly and suppressed fire within a second and prevent the fire to spread it to other flammable items.

3. The system is designed according to LPCB 1666 norms with different capacity of extinguisher

4. In (CDSS) the fire / heat detection sensor is used as the extinguishant release mechanism which ensures that the extinguishant agent is released directly at the root of the problem thus eliminating the chance of reignition.

## Application of Cinder Direct Suppression System

Being this versatile the CDSS can be used in variety of areas like

1. Main electrical panel
2. HT and LT panels
3. Server racks
4. Museums
5. Art Installations
6. Store/Locker Place

Available in 1 kg / 2 kg / 4 kg cylinders



## Benefits of CINDER Direct Suppression System

1. **Safety:** The extinguishant agent are non-toxic and non-corrosive in nature
2. **No Associated Damage:** Safe to use in application with sensitive technology, electronics and high value assets.
3. **No Clean Up:** The extinguishant used do not leave a residue
4. **Minimal Downtime:** With minimum damage and no clean up the downtime gets highly minimized
5. **Fast Acting:** The system actuates in seconds, most of the damage is limited to small area.



## INDIRECT SUPPRESSION SYSTEM

1. CINDER Indirect Suppression System (CISS) is designed to protect equipment, life and property.
2. CISS is a Pre-Engineered, Reliable, Customer Friendly and cost-effective Automatic Fire detection and suppression system for single and multiple equipment against fire.
3. In CISS the network for Fire / Heat detection is separately installed along with the extinguishant discharge pipeline network.
4. CISS uses different type of heat / fire sensors like, pneumatic detection, electro-mechanical detection and electrical detection, each with its uniqueness at different scenarios and site conditions.
5. CISS is installed in such a way that it flushes extinguishant agent within seconds after detection of fire

### Benefits of CINDER Indirect Suppression System

1. CISS is an automatic system hence do not need human to get close to the fire to extinguish it saving the danger it causes to human life
2. The control unit of the CISS is rugged and suitable for any condition, installed at a suitable location in order to access the danger from afar.
3. CISS comes with manual Release and Abort facility
4. Reduces the chance of spread of fire to a broad area by blanketing effect of the extinguishant.

Application of CISS provides flushing of high volume of extinguishant and as different type of extinguishant agent can utilized the system Is suitable for wide range of areas like

1. Commercial Kitchen in restaurants, hospitals and cloud kitchens
2. Dry transformers
3. Vehicle engine
4. CNC / VMC Machine
5. Chemical Testing Laboratories

Available in 9 kg / 12 kg / 18 kg / 25 kg cylinders



## CO2 Suppression System

1. CINDER CO2 Suppression System (CCO2S) is a specialized in cabinet fire suppression system utilizing CO2 as an extinguishant agent
2. CCO2S is a fire suppression system designed for specific application of protecting electrical cabinets and enclosure
3. CCO2S is installed and connected to DHP valve and routed throughout protected hazard area/closure.
4. CCO2S detect quickly and suppressed fire within a second and prevent the fire to spread it to other flammable items.



## Benefits of CO2 Suppression System

1. Intrinsically safe for electric charged areas. No External Power required to activate the system.
2. No "False Alarm" or Discharges as systems only activate in the event of an actual fire/heat impingement.
3. Post Discharge – Systems utilizing clean suppression agents require no post-discharge clean up.
4. Easy to install in any new or existing Equipment's.
5. Environmentally Friendly systems utilizing UL certified seamless cylinders not harmful to equipment or the environment.

## Application of Cinder CO2 Suppression System

Being this versatile the CDSS can be used in variety of areas like

1. Main electrical panel
2. HT and LT panels
3. Server racks
4. Museums
5. Art Installations
6. Store/Locker Place

**Available in 2.2 kg / 4.7 kg cylinders**

## ROOM FLOODING SYSTEM

1. CINDER Room Flooding System (CRFS) is a reliable solution with being highly efficient and space saving. Suitable for protecting valuable systems, data, people or the working environment.
2. In CRFS the extinguishant agent is calculated according to the three-dimensional enclosed space to achieve a concentration of the agent adequate to extinguish the fire.
3. CRFS can be operated automatically by detection and related controls or manually by the operation of a system actuator.
4. Manual intervention can be done anytime from the fire panel to manually activate System instantly or abort the activation of System at any time before the releasing signal is passed from the panel to device

## Applications

1. Hospitality Sector
2. Oil & Gas Industries
3. Server Room & Data Centers
4. Museums & Libraries

Available in 34 Ltr / 40 Ltr / 80 Ltr / 120 Ltr / 140 Ltr cylinders

## Benefits of CINDER Room Flooding System

1. Reduces risk of downtime and helps maintain business continuity in the event of a fire
2. Leaves no Residue
3. Safe for discharge into occupied spaces
4. Cost effective engineered systems, providing maximum protection
5. Sustainable technology providing an environment friendly solution.



## MICRO Flooding System

1. CINDER Micro Flooding System (CMFS) is a new and innovative solution, where safety and cost-effectiveness meet together.
2. CMFS is a new way of fire safety that can effectively suppress fire and limit the damage caused by fire.
3. CMFS is a combination of electrical detection and mechanical detection in case there is a blackout.
4. CMFS is a full proof system with minimal requirement of maintenance and human intervention.

### Benefits of MICRO Flooding System

1. **Safety:** The extinguishant agent are non-toxic and non-corrosive in nature
2. **No Associated Damage:** Safe to use in application with sensitive technology, electronics and high value assets.
3. **No Clean Up:** The extinguishant used do not leave a residue
4. **Minimal Downtime:** With minimum damage and no clean up the downtime gets highly minimized
5. **Fast Acting:** The system actuates in seconds, most of the damage is limited to small area.



### Applications of MICRO Flooding System

1. Hospitality Sector
2. Oil & Gas Industries
3. Server Room & Data Centers
4. Museums & Libraries
5. Storage Warehouse

**Available in 5 kg / 10 kg cylinders**



**ELECTROMAGNETIC ACTUATOR C TYPE**  
 M.O.C : Brass & Stainless Steel  
 VALVE CONNECTION : 1" / 25 mm  
 SUPPLY VOLTAGE : 24V DC



**ELECTROMAGNETIC ACTUATOR G TYPE**  
 M.O.C : Brass & Stainless Steel  
 VALVE CONNECTION : 1-1/4" / 32 mm  
 SUPPLY VOLTAGE : 24V DC



**GAS DISCHARGE VALVE G TYPE**  
 M.O.C : Forged Brass  
 ACTUATOR CONNECTION : Inbuilt 24V DC  
 DISCHARGE CONNECTION : 3/4" / 20 mm  
 CYLINDER CONNECTION : 1" / 25 mm



**FLOODING VALVE C TYPE**  
 M.O.C : Forged Brass  
 ACTUATOR CONNECTION : 1" / 25 mm  
 DISCHARGE CONNECTION : 1" / 25 mm  
 CYLINDER CONNECTION : 2" / 50 mm



**FLOODING VALVE G TYPE**  
 M.O.C : Forged Brass  
 ACTUATOR CONNECTION : 1-1/4" / 32 mm  
 DISCHARGE CONNECTION : 1-7/8" / 47 mm  
 CYLINDER CONNECTION : 2-1/2" / 63 mm



**MANUAL / PNEUMATIC ACTUATOR**  
 M.O.C : Brass & Stainless Steel  
 CONNECTION : 1-1/4" / 32 mm



**MANUAL ACTUATOR**  
 M.O.C : Brass & Stainless Steel  
 CONNECTION : 1" / 25 mm



**PNEUMATIC ACTUATOR**  
 M.O.C : Brass & Stainless Steel  
 CONNECTION : 1-1/4" / 32 mm



**DISCHARGE NOZZLE**  
 M.O.C : Brass  
 CONNECTION : 1" / 25 mm  
 DEGREE : 180°/360°



**PRESSURE GAUGE**  
 TYPE : Spring Tube Manometer  
 RANGE : 0 to 100 BAR  
 CONNECTION : 1/8" NPT



**DIRECT ACTING SOLENOID VALVE**  
 BODY : Forged Brass / SS304  
 END CONNECTION : 1/4" BSP(F)  
 OPERATION VOLTAGE : 24V DC



**DISCHARGE HOSE**  
 MAX. WORKING PRESSURE : 50 BAR  
 LENGTH : 500 mm Aprox  
 ELBOW INLET : 1-7/8" / 48 mm  
 OUTLET : 2" / 51 mm  
 SLAVE CONNECTION : 1/8" / 10 mm





**DIRECT VALVE**  
 M.O.C : Forged Brass  
 CYLINDER CONNECTION : M30×1.5  
 ACCESSORIES : Pressure Switch UL/ Non UL  
 Pressure Gauge



**INDIRECT VALVE**  
 M.O.C : Forged Brass  
 CYLINDER CONNECTION : M30×1.5  
 ACCESSORIES : Pressure Gauge  
 DISCHARGE CONNECTION : 1/4"



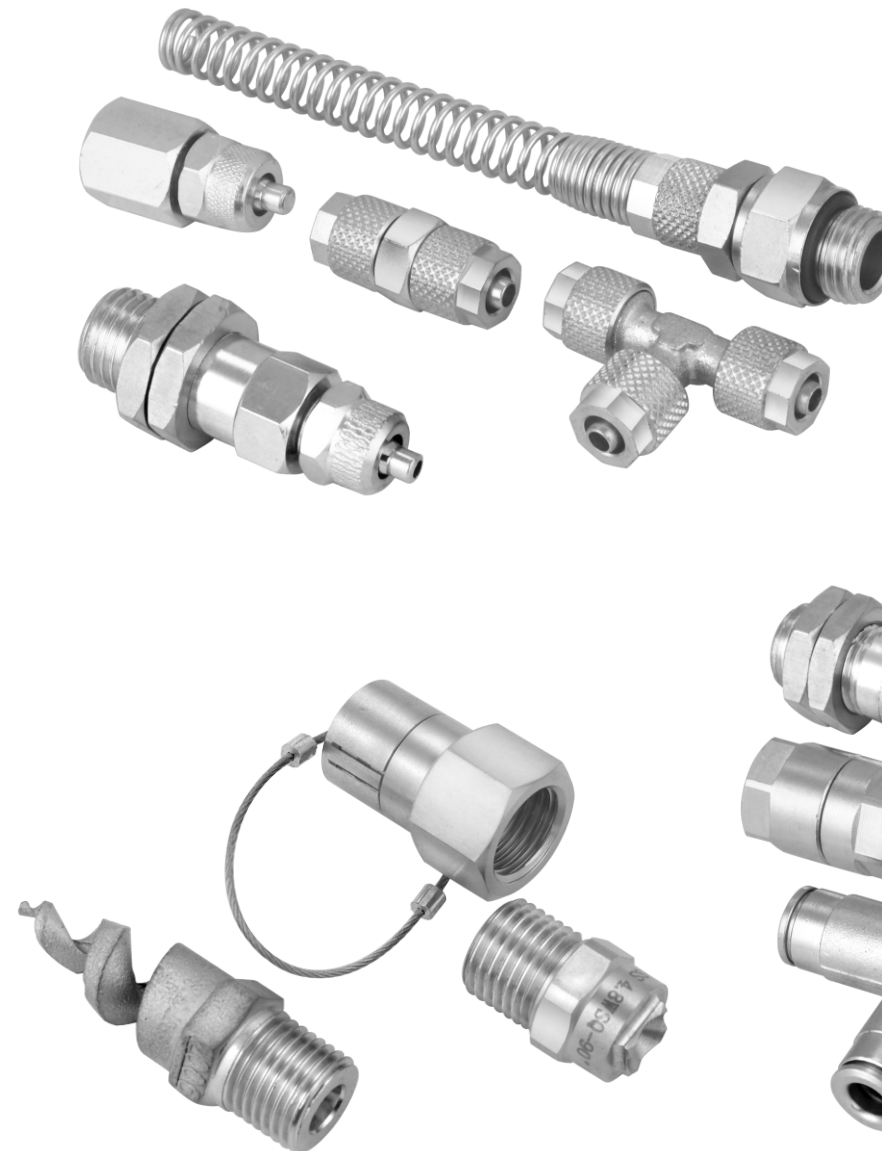
**HEAT SENSING TUBE (HST)**  
 COLOUR : Red  
 DIMENSION : 6×4mm(ODxID)  
 OPERATING PRESSURE : 15Bar  
 BURST TEMP : 130°C-141°C



**HEAT SENSING CABLE**  
 COLOUR : GRAY  
 DIMENSION : 1.5 mm 2 Core  
 DETECTION TEMP. : 97°C-187°C



**DIRECT HIGH PRESSURE VALVE**  
 M.O.C : Forged Brass  
 CYLINDER CONNECTION : 1" / 25 mm  
 ACCESSORIES : Push in Connector  
 Pressure Gauge



**6MM TUBE FERRULE FITTINGS**



**6MM TUBE PUSH IN FITTINGS**

**1/4" DISCHARGE NOZZLE**



**12.7MM PIPE FERRULE FITTINGS**

**GAS SUPPRESSION PANEL**  
 M.O.C : MS Box  
 TYPE : 2 / 4 Zones  
 MAIN POWER : 220V AC  
 STANDBY POWER : 24V DC



**MASTER CONTROL UNIT**  
 M.O.C : MS Box  
 TYPE : 1 Zones  
 MAIN POWER : 220V AC  
 STANDBY POWER : 12V DC  
 SOUND : Inbuilt Hooter & Flasher



**SMOKE DETECTOR**  
 M.O.C : ABS Plastic  
 OPS VOLTAGE : 10~32V DC  
 TEMP RANGE : 57° C



**HEAT DETECTOR**  
 M.O.C : ABS Plastic  
 OPS VOLTAGE : 10~32V DC  
 SENSOR TYPE : Infra Red Pair Sensor



**ABORT SWITCH**  
 M.O.C : ABS Plastic  
 OPS VOLTAGE : 18~24V DC  
 COLOR : Yellow



**MANUAL RELEASE SWITCH**  
 M.O.C : ABS Plastic  
 OPS VOLTAGE : 18~24V DC  
 COLOR : Green



**BATTERY**  
 TYPE : Lead Acid  
 POWER : 12V 1.3Ah



**BATTERY**  
 TYPE : Lead Acid  
 POWER : 12V 7Ah



**FIRE DETECTION ALARM**  
 BODY : Plastic  
 POWER : 24V DC  
 COLOUR : Red  
 SOUND O/P : 85db Aprox