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# CRITICAL EQUIPMENT FIRE SUPPRESSION SYSTEMS

## TRANSFORMERS

**“A fire outbreak can catch you offguard when least expected. Your Transformers are highly vulnerable to a fire outbreak.”**

### CAUSES OF FIRE

- Excessive overheating
- Extremely severe short circuits
- Lightning strokes
- Faulty coils
- Oil leakage



### CAUSING

- Business downtime
- Production loss
- Revenue loss
- Infrastructure loss
- Loss of human life

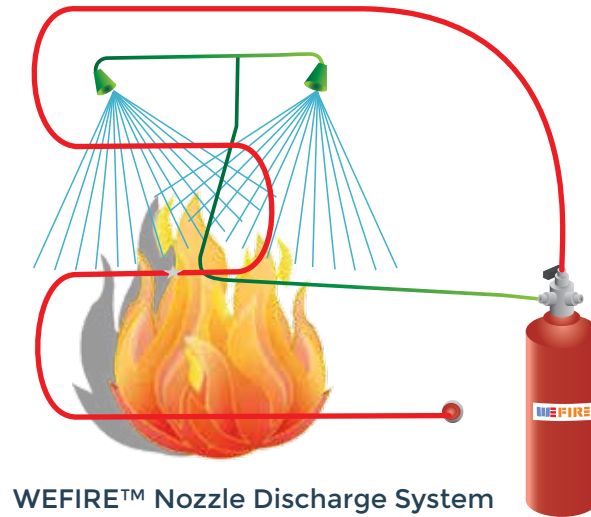
### IF, A FIRE IGNITES, THEN :

- Transformers involved in a fire will most likely be destroyed within minutes or even seconds
- Unprotected or without a Fire wall, the fire will spread rapidly to adjacent transformers and equipment

**REDUCE YOUR INSURANCE PREMIUM ON CAPITAL GOODS**

## WEFIRE™ Solution

- A linear pneumatic WEFIRE™ Heat Detection Tube is routed near the fire hazard which senses the heat of the fire in its incipient stage
- This immediately activates clean agent gas discharge through discharge nozzles, suppressing the fire where it started
- The gas is non-conducting, non-toxic and leaves no residue; hence does not contaminate the oil, neither does it spoil expensive electronics



WEFIRE™ Nozzle Discharge System

### Working principle on Transformer (Oil) - WEFIRE™ Nozzle Discharge System

For outdoor Transformers we propose our Dual Agent system- using Dry Powder and Foam simultaneously. WEFIRE™ Heat Detection Tube is routed through out the hazard. Dual Agent systems make for an outstanding fire suppression method due to combining the individual features of Dry Powder & Wet Chemical into one extremely effective solution. Not only can the system provide the rapid flame knockdown of Dry Powder but also attain the cooling & blanketing properties of Wet Chemical. The system is economical and significantly smaller than that of a Nitrogen injecting/CRT system.

Dry Powder provides a large suppression area due to its particle size; it can quickly cause a fire to expend its energy heating up the particles and therefore provide a “cooling effect”. The Dry Powder will also provide chemical inhibition, reacting with the radicles and arrest the chemical combustion process.

Optionally, the WEFIRE™ system can also be connected to a Manual Actuator.

### Working principle on Transformer (Dry) - WEFIRE™ Nozzle Discharge System

WEFIRE™ recommends the use of FK-5-1-12 based extinguishing agent for a dry type transformer in an enclosed location. WEFIRE™ Heat Detection Tube is routed around the transformer canopy for an early detection.

This tube is connected with the Nozzle Discharge System cylinder containing the extinguishing gas. Nozzles for gas discharge are installed in corners providing even discharge throughout the hazard.

Optionally, the WEFIRE™ system can also be connected to a Manual Actuator.

## ADVANTAGES



Simple & uncluttered design



Quick detection



24/7 Unsupervised fire protection



No electricity required



- No clean up in the equipment required post gas discharge
- Turnaround time to re-instate the system is a few hours so minimal damage and downtime
- Virtually ZERO maintenance
- Can be integrated with the BMS, Fire alarm system, SCADA

## ABOUT US

WEFIRE™, a brand owned by Warriar Electronics® has an experience of installing several hundreds of WEFIRE™ critical component fire suppression systems across India and parts of Malaysia.

Established in the year 2010 in Pune (India), a period when startups were looked at ambiguously, Warriar Electronics® did not just survive, but thrived and achieved various growth milestones from being a sub-dealer to a dealer to a manufacturer within a decade; and has become the default choice of various OEM's for WEFIRE™ critical component fire suppression systems, serving across India.

At the heart of the company, lies its core values viz Excellence, Innovation, Integrity and Respect. These values not only translate into a niche & a reliable end product but also in the way its team reciprocates to client needs at every step. A company is only as good as its people & product and its product reflects the quality, intelligence and excellence of its people!



# WE FIRE®

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**WARRIER ELECTRONICS**

“Sticker House”

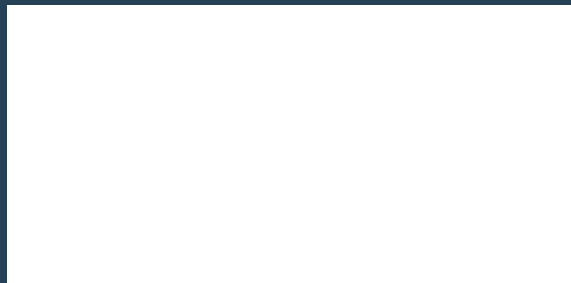
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& WE ACHIEVE WHAT WE COMMIT**