



شركة المصنع السعودي لأجهزة الإطفاء
SAUDI FACTORY FOR FIRE EQUIPMENT Co.

Don't Compromise on Fire Safety...
Choose Certified Quality Products...

THERMO-ACT

AUTOMATIC FIRE DETECTION
AND SUPPRESSION



Quick, Automatic Fire Detection
and Suppression

Superior Coverage and
Suppress Fires & Prevents Reflash

24/7 Continual Fire Protection

SFFECO
since
1983

We are Very Proud to be a Vital Part of the
Development of Saudi Arabia & Middle East
since 1983
in the Fire Protection Industry



Rev: 11: 09/2019

THERMO-ACT SYSTEM



Automatic Fire Detection and Suppression

Introduction

SFFECO Thermo-Act systems are the advanced technology of automatic fire suppression systems. The systems provide a self activating suppression system that suppresses fires in seconds. They are simple design and installation with low maintenance, highly cost effective and reliable. The electrical or pneumatic sources shall not be required to our Thermo-Act systems. The systems can be used in the presence of an increased risk of fire.

SFFECO Thermo-Act systems utilize fire flexible tube for fire detection. Thus, the fire detection and extinguishing system is not required to detect and discharge.

SFFECO Thermo-Act systems can be designed with commercial available agents including clean agent, wet chemical, Foam, and dry powder.

Where to use THERMO-ACT



All Pictures and Drawings shown in this document for presentation purpose only. Actual may vary.

In line with our policy of continuous product improvement SFFECO reserves the right to modify specifications without prior notice.

THERMO-ACT SYSTEM



Automatic Fire Detection and Suppression

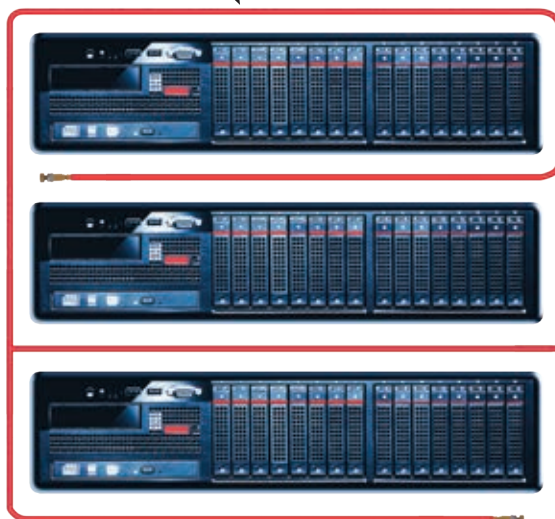
Advantages of Thermo-Act System

- Linear detection line.
- Rapid reaction time.
- 24 hours a day ready for use.
- No external power supply.
- Flexible positioning of the flexible tube.
- Can be installed into inaccessible areas.
- Minimal environmental damages.
- No accidental discharges through a disruption of the fire detector
- Can be used in every environment (marine, industrial atmosphere)
- Governmental and insurance approvals
- Not affected by vibration or knocks
- Quick and simple installation in new or existing cabinets
- Low price - high performance relationship
- Minimum maintenance.
- Easy maintenance & checking
- Short delivery
- Easy replacement
- Different Sizes

SF FECO Thermo-Act systems are mainly categorised as:

Direct System

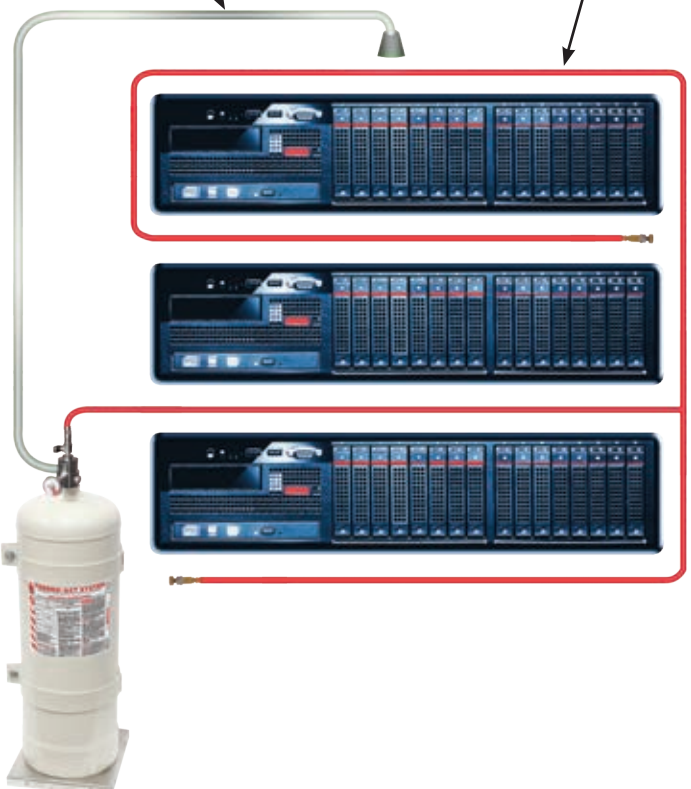
Sensing & Discharging Tube



Indirect System

Discharge Pipe

Sensing Tube



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Jeddah Branch:

T: +966 12 670 6009 | F: +966 12 676 0307

jeddah@sffeco.com.sa

Dammam Branch:

T: +966 13 835 1961 | F: +966 13 835 1968

dammam@sffeco.com.sa

Madinah Branch:

T: +966 14 866 0959 | F: +966 14 866 0969

madinah@sffeco.com.sa

www.
SF FECO.com

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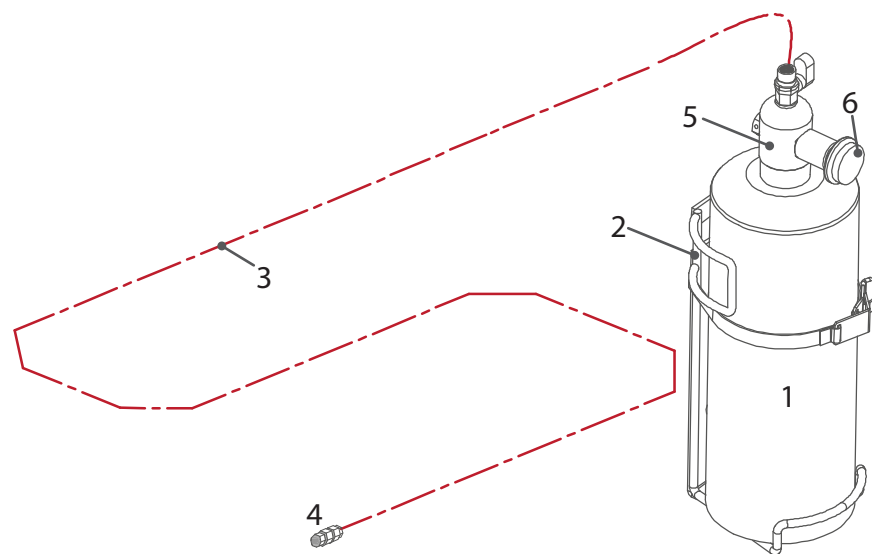


Direct System



Valve for Direct System

SFECO Thermo-Act direct system for low pressure agent as shown below uses the flexible tube as both the detection device and extinguishing discharge system. In case of fire, the section of tube most exposed to heat will rupture forming a discharge nozzle. The suppressant agent is then completely released due to pressure drop in the tube.



- 1) Storage cylinder
- 2) Cylinder bracket
- 3) Fire detection tube
- 4) End of Line adapter
- 5) Valve
- 6) Pressure gauge

THERMO-ACT SYSTEM

Automatic Fire Detection and Suppression



Indirect System

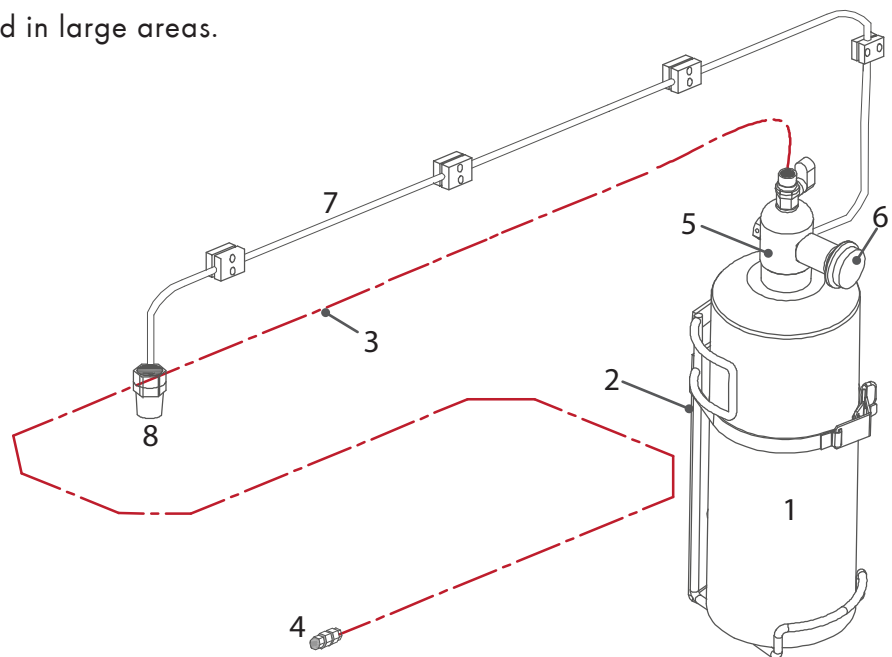


SFFECO Thermo-Act indirect system for low pressure agent as shown below uses the tube as a fire detection device only. The fire suppression agent is delivered through a special copper or stainless steel tubing system. Once the tube ruptures due to heat exposure, the drop in pressure activates the indirect valve to direct the flow of suppression agent to diffuser nozzles via a fixed tubing system. This system is usually used in large areas.



Valve for Indirect System

- 1) Storage Cylinder
- 2) Cylinder bracket
- 3) Fire detection tube
- 4) End of Line adapter
- 5) Valve
- 6) Pressure gauge
- 7) Discharge pipe
- 8) Discharge nozzle



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THERMO-ACT SYSTEM



Automatic Fire Detection and Suppression

Flexible Tube

- Acts as a multi-sensor
- Made of a high-tech polymer
- When bursting at the hottest spot, it ruptures as a nozzle shape opening
- Long-time resistance
- Flexibility
- Temperature sensitivity
- Different temperature rating



Applications of Thermo-Act System

- Residential Kitchenhood
- Medical / laboratory equipment.
- Electrical control panels. & Small electrical rooms
- UPS units.
- Computer / Data storage cabinets.
- Small Generator rooms.
- Small Storage areas.
- Switchgear.
- Cable duct.
- Escalator.
- Transmitters.
- Motor vehicles.
- Goods in transit.
- Display cabinets.
- EDM & CNC machining centers.
- Test / Production equipment.
- Fume hoods and cabinets for laboratories.
- Vending machines.
- Automated machinery.
- Cleaning Tanks



Note: Other applications that are not mentioned above may also utilize SFECO Thermo-Act system. Please contact our technical personal for more details.

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THERMO-ACT SYSTEM



Automatic Fire Detection and Suppression

System Cylinders & Available Models



Cylinder:

The cylinders are used to store the extinguishing agent

Colour:

Available in Red / White colours

Note: Cylinders can be provided in other capacities or agents upon request; Please contact our technical people for further information.

Model Number Code:

THD: Thermo-Act Direct System
THS: Thermo-Act Indirect System
CA: Clean Agent (Extinguishing system)
3: 3 LBS (Capacity)
THD/S - CA - 3

Agent & Type of System	Models	Max. Fill (LBS)	Agent Weight (KG)
Clean Agent Direct System	THD-CA-3	3	1
	THD-CA-6	6	2
	THD-CA-12	12	5
	THD-CA-15	15	6
	THD-CA-18	18	8
Clean Agent Indirect System	THS-CA-3	3	1
	THS-CA-6	6	2
	THS-CA-12	12	5
	THS-CA-15	15	6
	THS-CA-18	18	8

Agent & Type of System	Models	Max. Fill (LBS)	Agent Weight (KG)
Wet Chemical Direct System	THD-WC-3	3	1
	THD-WC-6	6	2
	THD-WC-12	12	5
	THD-WC-15	15	6
	THD-WC-18	18	8
Wet Chemical Indirect System	THS-WC-3	3	1
	THS-WC-6	6	2
	THS-WC-12	12	5
	THS-WC-15	15	6
	THS-WC-18	18	8

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 dammam@sffeco.com.sa

Madinah Branch:
 T: +966 14 866 0959 | F: +966 14 866 0969
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CONTACT US

Factory & Head Office - Riyadh

2nd Industrial Area, Al-Kharj Road, Riyadh, KSA
Wasel: 7275, Code: 14334, Addition Number: 4441
Tel : +966 11 2650070, Fax: +966 11 2652190
E-mail: riyyadh@sffeco.com.sa

SFFECO GLOBAL Office

JAFZA (South), Dubai, UAE, P.O. Box 261318
Tel: +971 4 880 9890, Fax: +971 4 880 9822
E-mail: sales@sffecoglobal.com

Jeddah Branch

P.O. Box: 16769, Jeddah – 21474, KSA
Tel : +966 12 6706009, Fax: +966 12 6760307
E-mail: jeddah@sffeco.com.sa

Dammam Branch

P.O. Box: 7162, Dammam – 31462, KSA
Tel : +966 13 8351961, Fax: +966 13 8351968
E-mail: dammam@sffeco.com.sa

Madinah Branch

Tel : 0148660959, Fax: 0148660969
E-mail: madinah@sffeco.com.sa

SFFECO is an ISO9001 certified manufacturing company

SFFECO is a market leader and specialized in manufacturing of fire fighting equipment in the world since 1983.

SFFECO is an One-Stop-Shop company believes in quality and exceptional service standards.

SFFECO is represented globally in over 100 countries worldwide with its highly knit distributor and dealer network.

SFFECO has its own state-of-the-art manufacturing plants in Riyadh and Dubai producing end-to-end range of products for the fire fighting industry matching international standards in quality.



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