HERO 海 烙

COMPANY
» PROFILE



Think Tank Fire Protection, a high–tech enterprise, integrating R&D and manufacturing of gas fire extinguishing systems, has the qualification and capabilities of fire protection services such as design, construction, maintenance, inspection and safety assessment. As a practitioner of "Smart Fire Protection", it is committed to providing one–stop fire protection and security solutions for customers all over the world.

The company focuses on user experience, pays attention to technology and responsibility, reshapes the relationship between users and fire protection products and service providers, continuously innovates service formats to help improve the user's awareness of fire (security) responsibility and fire (security) management capabilities, customizes personalized fire (security) protection products and technical service solutions for more than 20 industries such as communications, electricity, transportation, finance and municipal administration, and provides big data support. The HERO gas fire extinguishing system and fire (security) technology services provided by our company have played an active role in safeguarding important projects such as APEC conference, G20 Hangzhou summit, Xiamen BRICS conference and Antarctic scientific research base.

Think Tank Fire Protection adheres to the enterprise core values of "BELIEVING IN FAITH AND ENDING IN PERFECTION", insists on the business philosophy of openness, collaboration and continuous innovation, strengthens the organization construction, strives to precipitate the enterprise culture, carries forward the inherited "craftsman spirit", continuously improves the service capabilities, and strives to build the enterprise into a model for the development of high–tech fire protection enterprises in China, a model for fire protection technology and service innovation, and a model for the combination of fire protection intelligent manufacturing and integrated IOT!

2022年8月，第1次修订印刷

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August 2022, 1st revised printed

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浙江制造 ZHEJIANG MADE

HERO 海 烙

IG541 Automatic Gas Fire Extinguishing System

Easy installation and maintenance, reliable performance.



Fire Think Tank® FIRE STOPPER 信达消防

Cohen Think Tank Fire(zhejiang)company

Product Features

- ☑ Valve components such as vessel valves, selector valves, and check valves are tested by 500 cycles of operation for better reliability.
- ☑ The hydraulic calculation software designed using the step iterative calculation method makes the calculation more accurate and more effective in protecting the protection zone.
- ☑ Through the decompression device and the nozzle, the decompression of the pipe network can be completed twice, ensuring the fire extinguishing effect and the spraying time requirements and reducing the impact of the outlet.
- ☑ Using the master–slave starting method, multiple slave bottles can be started after the master cylinder is started, and the gas in the slave cylinders can also be used as the gas for starting, thus ensuring the reliability of the starting pressure.
- ☑ To change the traditional mechanical starting method, there is no need to open the pilot valve of the slave cylinders, just open the selector valve and the active cylinder to open the slave cylinders corresponding to the selector valve.
- ☑ Compared with the heptafluoropropane system, the position selection between the cylinders is more free and the selection space between the cylinders is larger.

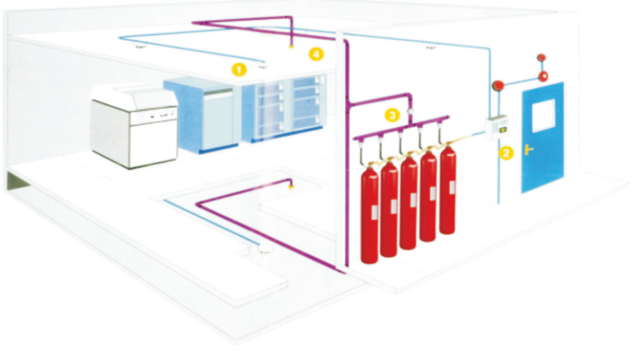
Working Principle

① The smoke and temperature detectors detects the fire in the protection zone and send alarm signals to the alarm system.

② The control panel triggers a series of alarm linkages and activates the HERO gas fire suppression system after a predetermined delay.

③ When the vessel valve is opened, the fire extinguishing agent is sprayed from the cylinder set into the collection pipe and reaches the protection area through the distribution pipe network.

④ Fire extinguishing agent quickly floods the protective area through the nozzle to extinguishes the fire.



Certification







Product Components



Vessel Valves

The valve is started by differential pressure, and micro-motor drive device or pilot valve can be installed to open the vessel valve electrically, manually or manually to release Pre extinguishing agent; The pressure gauge installed on the valve usually shows the pressure.



Signal feedback device

Feedback signal to the automatic Pre alarm controller when the extinguishing agent is released.



TLX Electromagnetic Drive Device

安装在电控选择阀上，用于启动电控选择阀。
Installed on the electronically controlled selector valve to activate the electronically controlled selector valve.



Pressure Reducing Device

Reduce the pressure of system pipe network and ensure the safety of system pipe network.



Nozzles and pressure –reducing orifice plates

The nozzle is used to spray the Pre extinguishing agent; the pressure reducing oriPce plate controls the nozzle outlet pressure and the spraying time.



Electronically controlled selector valve

In a combined distribution system for master-slave activation, the Pre extinguishing agent is delivered to the corresponding protection area and the corresponding slave cylinder set is opened at the same time.



Low relief valve

Installed in the collector or starting pipeline to prevent the Pre extinguishing system from malfunctioning.



Pneumatic check valve

Used in combined distribution systems, installed in pneumatic control lines to control the 8ow of gas.



Fire extinguishing agent check valve

Installed between the cylinder set and the collector tube to prevent the back8ow of the Pre extinguishing agent that has been released from the collector tube.

Application Scenarios

Industrial

- ➢ Power plants, electronic equipment production plants, automated production lines, clean plants
- ➢ Precision electronic equipment warehouse, flammable liquid storage, program control room, laboratory
- ➢ Process handling equipment, robotic systems, pigment handling, drying ovens

Traffic

- ➢ Railroad control center, subway control center, aviation control center
- ➢ Subway high and low voltage distribution room, railway and subway communication equipment room
- ➢ Ship power room and control communication center

Business / Commercial Organization

- ➢ Museums, libraries, art galleries, archives
- ➢ Information center, data processing center, computer room, central control room
- ➢ Hospitals, schools, hotels, restaurants, shopping plazas
- ➢ Banks, financial institutions

Communication

- ➢ TV stations, information data centers, base stations



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