



**WT Fire Protection and
Engineering Co., Ltd.**



Fire Protection Engineering

Company Profile

WT-Fire Protection and Engineering Co., Ltd. is a specialist in design, supply, installation, commissioning and maintenance of fire protection system. We provide various kind of fire protection products to support customer's requirement and budget, both import and local products from leading manufacturer.

WT-Fire Protection and Engineering also provides with complete turnkey capability in fire protection, also related civil works and utilities system. Our teamwork have more than 10 years of experience in fire protection. Especially in extra hazard industry, flammable and petrochemical products. Our project team also can do site surveying with customer's budgetary for all provinces in Thailand. This is to ensure that we intend to propose a good quality and continually improvement to satisfy our customers.

General Data :

Company Name : WT Fire Protection and Engineering Co., Ltd.

บริษัท ดับบลิวที ไฟร์โพรเทคชั่น แอนด์ เอ็นจิเนียริง จำกัด

Capital : 1 Million baht

Address : 88/95 Moo 10, T. Bangkaew A. Bangplee Samutprakarn 10540

88/95 หมู่ที่ 10 ตำบลบางแก้ว อำเภอบางพลี จังหวัดสมุทรปราการ 10540

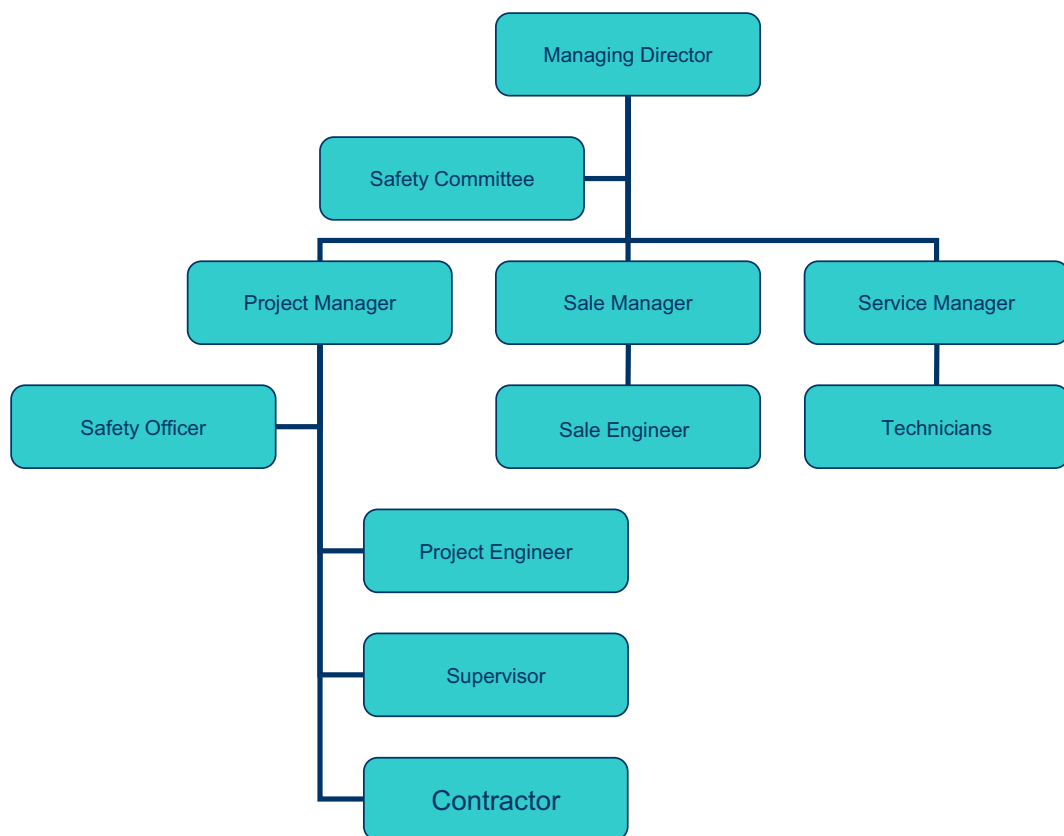
Telephone No : 02-138-1460-1

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E-mail : fireprotection@wt-fireprotection.com

Website : www.wt-fireprotection.com

Organization Chart



Product List

- Gas Suppression System
- Water Spray, Preaction, Sprinkler and Deluge System
- Fixed Foam System
- Air Aspirating Sampling (HSSD) System
- Multiple jet Control Valve
- Linear Heat Detection System
- Wet Chemical System
- Grooved Coupling System
- Fire Alarm System
- Fire Security System
- Fire Pump, Fire Water Supply and Fire Hydrant System
- Service and Maintenance Fire Protection System
- Civil Work and Utility System

GAS SUPPRESSION SYSTEM

Kidde Fire Protection

Novec™ 1230

Novec 1230 is a fluoroketone developed specifically by 3M for fire protection use. It is a compound of carbon, fluorine and oxygen ($\text{CF}_3\text{CF}_2\text{C}(\text{O})\text{CF}(\text{CF}_3)_2$). It is colorless, low-odor and electrically non-conductive. It suppresses fire by a combination of chemical and physical mechanisms without affecting the available oxygen. This allows personnel to see and breathe, permitting them to leave the fire area safely.



Novec 1230 Cylinders

CYLINDERS

A WIDE RANGE OF SIZES FROM 5 TO 368 LITRE IS AVAILABLE, OFFERING A CHOICE OF FILL CAPACITIES TO MEET SPECIFIC REQUIREMENTS AND ENSURE TO MEET SPECIFIC REQUIREMENTS AND ENSURE MAXIMUM ECONOMY IN INSTALLATION. EACH CYLINDER IS MANUFACTURED FROM HIGH STRENGTH ALLOY STEEL.



2 1/2" 3/4" Cylinder Valve Assembly

VALVES

VALVES ARE DESIGNED FOR OPTIMUM SYSTEM PERFORMANCE, ALLOWING PIPE SIZE TO BE REDUCED AND INSTALLATION COSTS TO BE LOWERED. THEY ARE MANUFACTURED FROM TOUGH, CORROSION-RESISTANT BRASS UNDER STRINGENT QUALITY CONTROL STANDARDS. A PRESSURE MONITORING GAUGE AND/OR PRESSURE SWITCHES ARE PROVIDED FOR EASY SERVICING. VALVES ARE ACTUATED BY ELECTRIC SOLENOID PNEUMATIC, OR LOCAL MANUAL RELEASE AT CONTROL HEAD.



Discharge nozzles

NOZZLES

CUSTOM-DESIGNED NOZZLES ARE AVAILABLE WITH NOMINAL PIPE SIZES FROM 1/4 TO 2 INCH INCLUDING 180° AND 360° CONFIGURATIONS.



Pressure switch

PRESSURE SWITCH

THE CYLINDER SUPERVISORY PRESSURE SWITCH IS INTENDED TO DETECT A FALL IN PRESSURE IN THE KIDDE ENGINEERED SYSTEM CYLINDER. THE CYLINDER SUPERVISORY PRESSURE SWITCH CAN BE WIRED FOR EITHER NORMALLY OPEN OR NORMALLY CLOSED OPERATION DEPENDING ON INSTALLATION REQUIREMENTS. THIS CYLINDER SUPERVISORY PRESSURE SWITCH CAN BE INSTALLED ON KIDDE ENGINEERED SYSTEM CYLINDERS, 10 LB. THROUGH 350 LB. SIZE.

A long-term, sustainable technology.

With zero ozone depletion potential, extremely low global warming potential and short atmospheric lifetime, Novec 1230 fluid is the first halon replacement to offer a viable, long-term, sustainable technology for special hazards fire protection.

3M™ Novec™ 1230 Fire Protection Fluid Environmental Properties

Properties	Novec 1230	Halon 1211	Halon 1301	HFC-125	HFC-227ea
Ozone Depletion Potential (ODP)	0.0	5.1	12.0	0.0	0.0
Global Warming Potential	1	1300	6900	3400	3500
Atmospheric Lifetime (Years)	0.014	11	65	29	33
SNAP (Yes/No)	Yes	N/A	N/A	Yes	Yes

* World Meteorological Organization (WMO) 1998, Model-Derived Method.
* Intergovernmental Panel on Climate Change (IPCC) 2001 Method, 100 Year IR.

The widest margin of safety.

Because its use concentration is much lower than its No Observable Adverse Effects Level (NOAEL), Novec 1230 fluid offers the widest margin of safety of any viable halon replacement available on the market today.

Note: Industry standards require egress from a protected enclosure prior to system discharge.

3M™ Novec™ 1230 Fire Protection Fluid Safety Margin

Agent	Novec 1230	Halon 1301	HFC-125	HFC-227ea
Use Concentration	4-6%	5%	87-12.1%	75-87%
NOAEL*	10%*	5%	75%	9%
Safety Margin	67-150%	Nil	Nil	3-20%

* NOAEL for cardiac sensitization.

* NOAEL for acute toxicity, including cardiac sensitization.

GAS SUPPRESSION SYSTEM



FM-200

FM-200 is a clean agent fire suppression system that protects high-value assets from fire and the effects of fire-fighting, allowing normal operations to be resumed quickly with no collateral damage and clean-up costs. Kidde Fire Protection is at the forefront of new technologies in fire safety, offering a range of state-of-the-art fire extinguishing systems.



FM-200 EQUIPMENT

FM-200 CYLINDER WITH CYLINDER VALVE, PRESSURE GAUGE. THE AGENT WILL BE FILLED LESS THAN 50 % OF CYLINDER VOLUME AND PRESS N2 AT 360 PSI. THE CYLINDER HAVE 9 SIZES ARE 5 LTR, 8LTR, 16 LTR, 28 LTR, 51 LTR, 81 LTR, 142 LTR, 243 LTR & 386 LTR



CYLINDER

SOLENOID VALVE

SOLENOID VALVE ACTUATOR WITH LEVER OPERATED CONTROL HEAD. THE SOLENOID WILL BE USED SINGAL 24 VDC FROM CONTROL PANEL TO OPEN CYLINDER VALVE TO RELEASE AGENT AND LEVER OPERATE BY MECHANIC IN CASE NO POWER. ITS INSTALL ON CYLINDER VALVE



PRESSURE OPERATED CONTROL HEAD

Electric Control Head

Electric & Cable Operated Control Head

LEVER OPERATED CONTROL HEAD

PRESSURE OPERATION HEAD

ELECTRIC CONTROL HEAD (STACK TABLE)

OTHER PRODUCTS

FIRE CONTROL PANELS

THE "BRAIN" FOR YOUR FIRE PROTECTION SYSTEM, CONTROL SYSTEMS RECEIVE INPUT FROM DETECTION DEVICES, SHUTDOWN EQUIPMENT AND ACTIVATE YOUR SUPPRESSION EQUIPMENT, IF NECESSARY.



PGAsys Intelligent Fire Control Panel



Control Panel ARIS



Control Panel ARG5



In Cabinet FM200 Fire Suppression System

WARNING DEVICES

WARNING DEVICES INCLUDES CONVENTIONAL TYPES AND ADDRESSABLE VERSIONS COMPATIBLE WITH APOLLO XP95 DISCOVERY AND HOCHIKI ESP PROTOCOLS



Fire Detection Series 80



Saddard Indoor Callpoint



Waterproof Callpoint



Manual Extinguisher Release



Motorised Bell 4" 4" 16"

ACCESSORIES

STORED PRESSURE FIRE PROTECTION



Alarm Sounder Mode



Sounder / Beacon Mode



Pressure Operated Control Heads



Discharge Nozzles



Valve Outlet Adapters



Transfer Switch



Discharge Groove Nut



Discharge Size Multijet Nozzle CO2



Pressure Switch Explosion Proof



KVS Cylinder Bracket

GAS SUPPRESSION SYSTEM

Kidde Fire Protection

CO₂

The CO₂ is stored as liquid, under pressure. When a system is activated, flows through discharge the liquid co pipework to specially designed nozzles. The agent's low boiling point nozzles. The agent's low boiling poin means that the liquid vaporises vaporises rapidly during the discharge, providing a penetrative three - dimensional action. The rapid expansion of the gaseous three - dimensional action. The rapid expansion of the gaseous agent allows fires to be targeted even in the most inaccessible areas of the risk, hree - dimensional action. The rapid expansion of the gaseous

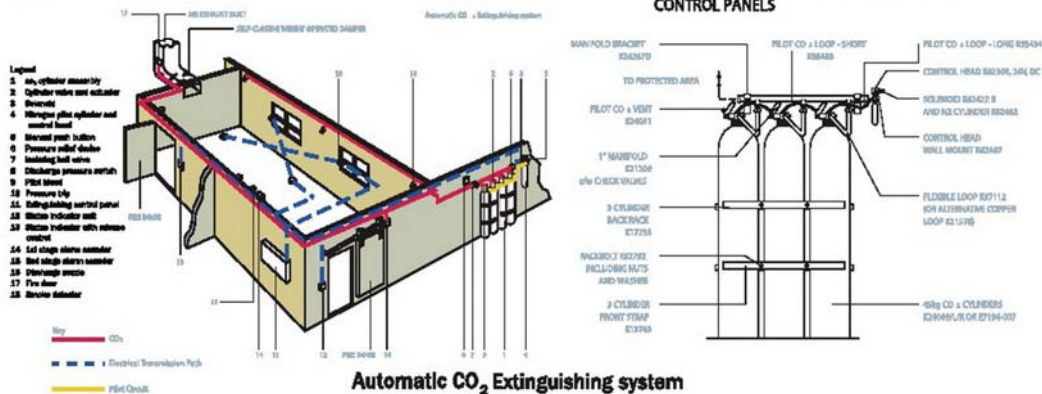


CO₂

CARBON DIOXIDE IS A STANDARD COMMERCIAL WITH MANY OTHER USES AND IT IS READILY AVAILABLE THROUGHOUT THE WORLD. BECAUSE OF ITS UNIVERSAL USE IT CAN BE OBTAINED CHEAPLY AND THIS IS AN IMPORTANT CHEAPLY AND THIS IS AN IMPORTANT CONSIDERATION WHEN FREQUENT RECHARGING OF STORAGE CONTAINERS IS NECESSARY AS IN LOCAL APPLICATION SYSTEMS, WHERE FIRES MAY GE MORE FREQUENT.

BENEFITS

- HIGH FLOW 'KLEM' VALVE
- PILOT CYLINDER OR DIRECT ACTING SOLENOID
- CONTINUOUS WEIGHT MONITORING OPTION
- DESIGN COMPLIANCE WITH BS5306-4
- FULLY COMPATIBLE WITH KIDDE EXTINGUISHING CONTROL PANELS



CARBON DIOXIDE GAS FIRE HOSE REEL UNIT



THE CAPACITY OF 22.7 KG Co2 CYLINDER IS 4-5 TIMES GREATER THAN THAT OF THE LARGEST Co2 HAND HELD EXTINGUISHER. THE Co2 HOSE REEL UNIT IN THEREFORE IDEAL FOR FIGHTING FIRES WHICH SUDDENLY BREAKOUT IN MANNED INDUSTRIAL AREAS SUCH AS ASSEMBLY LINES, PAINT SPRAY BOOTHS AND PRINT SHOPS: AS WELL AS ON BOARD SHIPS IN ENGINE AND BOILER ROOMS GALLEYS & ETC. IT IS ALSO IDEAL FOR AREAS WHERE CONTAMINATION AND CLEAN-UP TIME ARE VERY IMPORTANT FACTORS. THE TELESCOPIC APPLICATOR (OPTIONAL) IF USED IS SUITABLE FOR AIRCRAFT FIRES OR EXTENDED APPLICATIONS.

WATER SPRAY, PREACTION & DELUGE SYSTEM

tyco



At Tyco Fire Suppression, we work globally to protect the lives and property of people through innovative fire suppression technologies, and advance building support systems and piping installations with our building products. Committed to research and product development, we have pushed to improve pushed to improve safety

WATER SPRAY SYSTEM



TYPE	: PROTECTOSPRAY, HIGH VELOCITY SPRAY, MUISIFYRE NOZZLES,
	: A AND B, B-1
BODY	: BRONZE, BRASS, CHROMEPLATED
RATING	: 175 PSI, 250 PSI
APPROVED	: UL / FM

DELUGE SYSTEMS

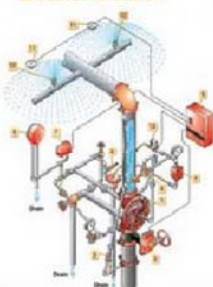
Are normally used in special hazard installations where water must be applied to an entire area for protection. They use open sprinklers or spray nozzles attached to a piping system connected to a water supply through the deluge valve. The deluge valve is used to control water flow into deluge, preaction



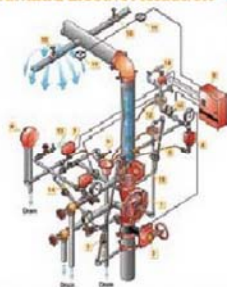
PREACTION SYSTEMS

Are used to protect areas where water damage from damaged sprinklers or piping must be avoided. A prealarm of a possible fire allows time for alternate fire extinguishment prior to a sprinkler discharge. They are designed for applications such as refrigerated areas that require maximum protection against inadvertent operation of the sprinkler system.

Electric Actuation



Pneumatic/Electric Actuation



Legend:

- 1 Deluge Valve (N-1)
- 2 Deluge Valve
- 3 Deluge Valve
- 4 Manual Control Valve
- 5 Automatic Shut-off Valve
- 6 Automatic Drain Valve

- 7 Pressure Switch
- 8 Water Motor (N-1)
- 9 Deluge Valve
- 10 Spray Nozzle
- 11 Deluge Valve
- 12 Deluge Valve

Legend:

- 1 Deluge Valve (N-1)
- 2 Deluge Valve
- 3 Deluge Valve
- 4 Manual Control Valve
- 5 Automatic Shut-off Valve
- 6 Automatic Drain Valve

- 7 Pressure Switch
- 8 Water Motor (N-1)
- 9 Deluge Valve
- 10 Spray Nozzle
- 11 Deluge Valve
- 12 Deluge Valve

- 13 Pressure Switch (N-1)
- 14 Deluge Valve
- 15 Deluge Valve
- 16 Deluge Valve
- 17 Deluge Valve
- 18 Deluge Valve



DELUGE VALVE, EXTERNAL RESETTING DIAPHRAGM STYLE 1 1/2" - 8"

- AVAILABLE SIZES: 1 1/2", 2", 3", 4", 6", and 8"
- VERTICAL OR HORIZONTAL INSTALLATION
- LISTINGS AND APPROVALS: UL, C-UL, FM, VDS
- FOR MOST SEAWATER & BRACKISH WATER SUPPLIES
- AVAILABLE AS FLANGE x FLANGE, x GROOV
- FOR DELUGE, PREACTION & FOAM SYSTEMS
- LISTINGS AND APPROVALS: UL, C-UL, FM, VDS
- AVAILABLE WITH DELUGE AND SINGLE & DOUBLE INTERLOCK

- ONE INTERNAL WORKING PART
- NO LINKAGE OR CLAPPER ASSEMBLY
- FEATURES EXTERNAL RESETTING
- RATED FOR 250 PSI SERVICE
- DIAPHRAGM OPERATION
- LIGHT WEIGHT DUCTILE IRON BODY
- INTERNALLY & EXTERNALLY COATED



REDED-E-CABINET @ INTEGRATED FIRE PROTECTION

- THE RED-E-CABINET HAS BEEN DESIGNED TO READILY INCORPORATE 1 1/2", 2", 3", 4" & 6" VALVE RISER FOR THE FOLLOWING TYPES OF SYSTEMS
- Deluge System - Electric Actuation
- Single Interlock Preaction System
- Double Interlock Preaction System
- AESTHETICALLY PLEASING APPEARANCE
- PROFESSIONALLY ASSEMBLED
- MINIMAL INSTALLATION TIME
- INTERNALLY PRE-WIRED
- CUSTOM MANUFACTURED
- MODEL DV-5 DELUGE VALVE (STANDARD)
- ALL GAUGES AND PANEL DISPLAY
- UL, C-UL LISTED, FM APPROVED



All Four Side Panels Easily Removed For Ease of Maintenance

FIXED FOAM SYSTEM



Buckeye Fire Equipment - A Tradition of Innovation and Reliability In fire protection industry for over 40 years, the Buckeye Fire Equipment Company is an innovative manufacturer of a complete line of (UL) Listed fire protection products.



BLADDER TANKS

BLADDER TANKS

- HIGH QUALITY
- WELDED CONSTRUCTION
- NO CRITICAL THREADS BELOW LIQUID LEVEL
- ASME VESSEL
- U.L LISTED & F.M. APPROVED



SELF-CONTAINED SYSTEMS

- BUCKEYE UTILISES EXISTING IN HOUSE TECHNOLOGY TO DEVELOP THESE SELF-CONTAINED PRE-MIX A.F.F. SYSTEMS
- SELF-CONTAINED PRE-MIX A.F.F. SYSTEMS, FOR USE IN LOCATIONS WHERE WATER IS NOT AVAILABLE
- NITROGEN POWERED WITH AUTOMATIC RELEASE

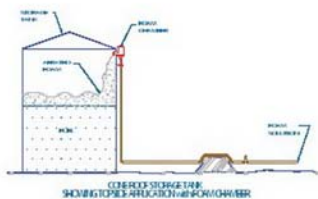


MONITOR FOAM STATION

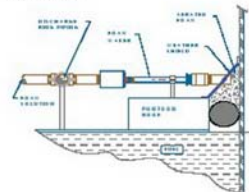


FOAM CHAMBERS

- FOUR SIZES TO SUIT ALL APPLICATIONS
- FLEXIBLE DESIGN ALLOWS EASY RETRO-FIT

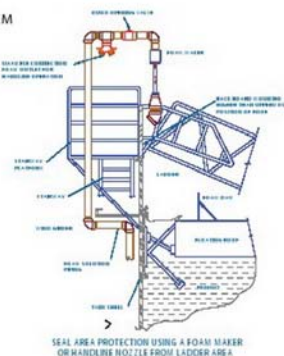


- RIM SEAL PROTECTION
- BEHIND THE WEATHER SHIELD
- FOAM DAM APPLICATION
- PROVIDES ATTACHMENT FOR HOSE LINE

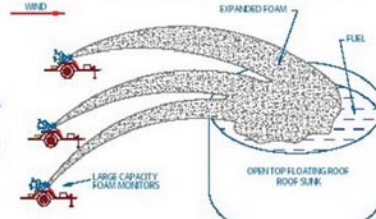
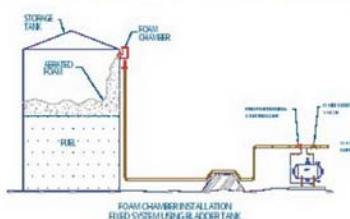


FOAM MAKERS

- CATENARY SYSTEM FOR OPEN TOP FLOATING ROOF TANKS
- PROVIDES ATTACHMENT FOR HOSE LINE



FIXED SYSTEMS APPLICATIONZ OVER-THE-TOP-APPLICATION

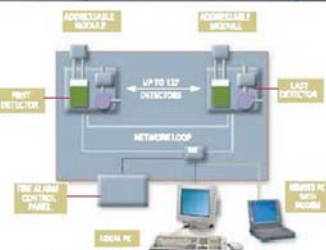


AIR ASPIRATING SAMPLING SYSTEM

 **Kidde Fire Protection**



Aspirating Smoke Detection systems are ideal for protecting high-value assets such as clean rooms, computer rooms and telecom rooms. It is also widely used in applications where smoke is difficult to detect in areas with high ceilings or high air flow such as atria, warehouses, cold storage facilities and indoor stadia.



SENATOR 25
HIGH SENSITIVITY SMOKE DETECTION
FOR PIPE LENGTHS UP TO 50 METRES



HART XL
SUITABLE FOR PROTECTING LARGE AREAS UP
TO 2000 SQUARE METRES



SENATOR 100
HIGH SENSITIVITY SMOKE DETECTION
FOR PIPE LENGTHS UP TO 100 METRES



HART MINI
SUITABLE FOR PROTECTING SMALL AREAS
UNDER 800 SQUARE METRES



SENATOR 200
HIGH SENSITIVITY SMOKE DETECTION
FOR PIPE LENGTHS UP TO 200 METRES



HART LOCALASER
SUITABLE FOR PROTECTING LARGE AREAS
UP TO 2000 SQUARE METRES SUB-DIVIDED
INTO FOUR CHANNELS.



SENATOR EX
HIGH SENSITIVITY SMOKE DETECTION
FOR HAZARDOUS AREAS



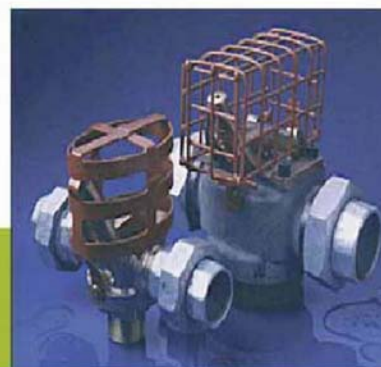
SNIFFERPIPE & ACCESSORIES
COMPREHENSIVE RANGE OF HIGH QUALITY
PIPE, FITTINGS AND ACCESSORIES FOR
ASPIRATING SMOKE DETECTION SYSTEMS.

MULTIPLE JET CONTROLS SYSTEM

Multiple Jet Controls are "Quartzoid" bulb detection devices fitted into a detector airline to bring a group of high velocity waterspray open nozzles into action under fire conditions. In the event of a fire, the Multiple Jet Control head nearest to the seat of the fire will activate at a pre-determined temperature. This causes air pressure within detector airline system to drop. The immediate drop in air pressure within the detector line releases the pressure against the Deluge valve diaphragm unit causing the Deluge Valve to open and discharge water through all the open high velocity waterspray nozzles to rapidly cool, control and extinguish the fire.

Multiple Controls are available in 20, 25, 32 40 or 50mm sizes.

tyco



**ANGUS
FIRE**



**FOR USE IN SPRINKLERS AND WATERSPAY SYSTEM
TO OPERATE SMALL GROUP OF SPRINKLERS/
SPRAYS SIMULTANEOUSLY**

Part No.
 ■ MJC009DO068040
 ■ MJC009DO068050
 ■ MJC009SO068020

Desc.
 40mm Double Outlet 68C MJC
 50mm Double Outlet 68C MJC
 20mm Single Outlet 68C MJC

Size
 3/4"

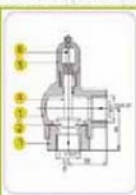


MULTIPLE JET CONTROL VALVE

MULTIPLE JET CONTROL VALVE DOES HAVE A THERMALLY ACTUATED RELEASE ELEMENT WHICH DETECTS THE FIRE AND DIRECTS THE WATER FLOW TO A SELECTED AREA TO ZONE WATER OR TO GIVE SPRINKLER ALARM.

TECHNICAL DATA

Model M	Single Outlet
MD	Double Outlet
Size	1. 32NB Inlet - 25NB Single Outlet 1. 40NB Inlet - 32 or 25NB Double Outlet
Rated Working Pressure	12 Bar
Temperature Rating	57°C, 68°C, 79°C, and 93°C
Threaded Opening	Female BSPT connect (NPT Optional)
Factory Hydrostatic Pressure	25 Kg./Sq.cm. (for housing) 15 Kg./Sq.cm. (for seat)
Finish	Brass finish or Red painted
Ordering Information	Please specify: Inlet, outlet size & temperature rating



SR. No.	Description	Material
1	Housing	Bronze IS:318/ASTM B62
2	Connector	Bronze IS:318/ASTM B62
3	Seat	Reinforced Neoprene
4	Plunger	Bronze IS:319/ASTM B16
5	Bulb Frame	Bronze IS:319/ASTM B16
6	Bulb	Glass



SR. No.	Description	Material
1	Housing	Bronze IS:318/ASTM B62
2	Connector	Bronze IS:318/ASTM B62
3	Seat	Reinforced Neoprene
4	Plunger	Bronze IS:319/ASTM B16
5	Ball	S.S.
6	Links	Bronze IS:318/ASTM B62
7	Bulb	Glass
8	Screw	S.S.

LINEAR HEAT DETECTION SYSTEM



Kidde Fire Protection

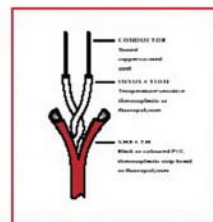
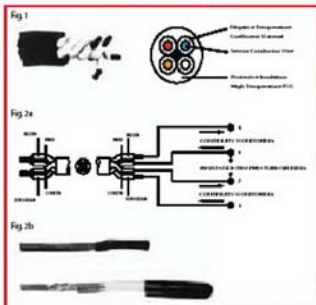
ANALOGUE CABLE

Alarmline Analogue is a four conductor flexible cable with negative temperature coefficient insulation, surrounded by an outer layer of PVC. Optional extrusions and metal braiding provide additional chemical and mechanical protection where required. A range of associated electronic interface modules allows continuous monitoring for fire and open/short circuit faults.



DIGITAL CABLE

Employing a twin conductor "switching" cable, the Alarmline Digital system operates by melting of internal insulation between the conductors at a predetermined temperature. This allows a short circuit which is detected by a simple electrical device, to provide a fire alarm signal. Fault conditions are detected by continuous monitoring for an open circuit state..

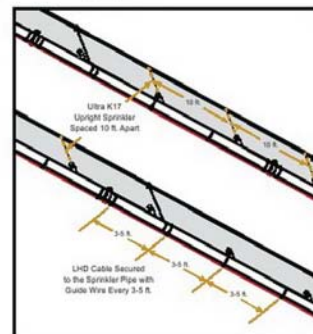
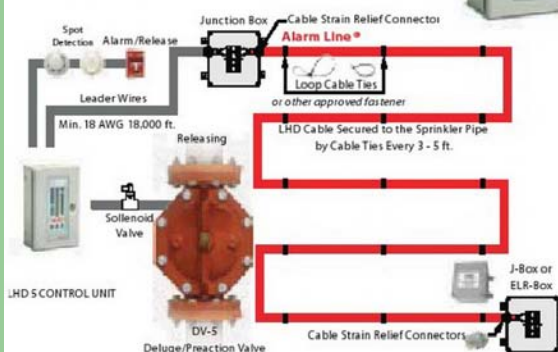


ALARM LINE LHD5 CONTROL UNIT

LHD5 has been designed to operate in conjunction with bronze braided and stainless steel braided, type 'T' Alarmline sensor cable as an enhancement to the existing LHD4 control unit. The LHD5 control unit monitors Alarmline sensor cable and indicates an increase in temperature across the cable by means of a ten segment bargraph.



Linear Heat Detection Cable allows a Quell designed fire sprinkler system to be more efficient by quickly recognizing the fire, and conveying the information back to the fire alarm panel.



WET CHEMICAL SYSTEM



Kidde Fire Protection



TECHNICAL SPECIFICATIONS :

- APC PROVIDES FASTEST FLAME KNOCKDOWN AND BEST SECUREMENT
- FOUR CAPACITIES OF CYLINDERS AVAILABLE
- PROVEN CONTROLS AND DETECTION

FEATURES :

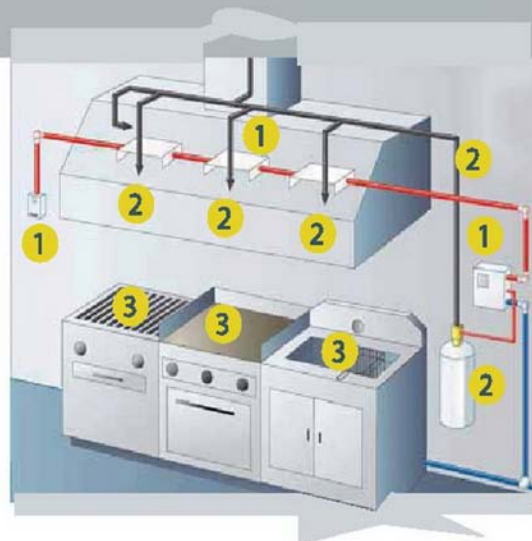
- SAFE AND RELIABLE FIRE PROTECTION
- EASE OF DESIGN AND FLEXIBILITY OF INSTALLTION
- FLEXIBILITY AND RELIABILITY OF IMPORTANT SAFETY SYSTEM

The Kidde Wet Chemical System...24-Hour automatic or manual protection for commercial cooking areas; ducts, plenums, hoods and cooking surfaces. Wet chemical agent designed for quicker flame knockdown and faster suppression. Exceeds stringent UL 300 standard and complies with NFPA Standards 96 and 17A. Offers unmatched coverage, with fewer discharge nozzles and flow points, meaning reduced installation time and cost.



How the System Works

1. FIRE IS DETECTED ACTIVATING THE XVTM CONTROL SYSTEM (OR THE MANUAL PULL STATION IS ACTUATED)... CAUSING THE CYLINDER VALVE TO OPEN.
2. PRESSURE STORED IN THE CYLINDER PROPELS THE WET CHEMICAL AGENT THROUGH THE SYSTEM PIPING AND OUT OF STRATEGICALLY LOCATED NOZZLES. THE KIDDE WHDR SYSTEM AUTOMATICALLY SHUTS DOWN THE POWER SOURCE TO APPLIANCES REMOVING THE HEAT.
3. THE WET CHEMICAL AGENT KNOCKS DOWN FLAMES QUICKLY AND FORMS A PROTECTIVE LAYER THAT SUPPRESSES FIRE AND PREVENTS FIRE RE-IGNITION.



FIRE ALARM SYSTEM



SIEMENS



BC8001

- Compact wall-mounted design
- Each control unit connects up to 2 lines, 127 points per line, in total 254 points
- Multi-language user interface with backlit LCD display (240 x 128 pixels)
- Configuration is done through Windows based application, software downloaded via USB port to the control unit



BC8002

- Text and graphic display on large illuminated 10" LCD
- Easy operation with a Windows Explorer like menu structure
- Each control unit connects up to 16 lines, 127 points per line, in total 2032 points
- 8 mid-line interlocking outputs for key equipment
- Remote communications through modems



Comprehensive Control

- 2 x BC8002 with 16 detection lines
- 1 x BC8001 (Compact Model) with 2 detection lines
- All panels share data on a peer-to-peer network
- System monitors 1,000 smoke and heat detectors
- System monitors 100 manual call points
- 72 input and output control points

NOTIFIER
by Honeywell



411 Series Communicators

- Three models available
- 411 - Slave Communicator
- 411UD - Slave Communicator with up download
- 411UDAC - Standalone Communicator with up download
- Up to four input channels (3 on the 411)
- Fully programmable via BPRO-411 or with Windows® utility (up download models)



SP-2000 4-Zone Control

- Four Class B Notifying Device Circuits (Class A with Class A option module)
- Two class B Notifying Appliance Circuits, 600 amps, with Class A option and programmable strobe synchronization
- 1/4" Ready - conventional detection with drift compensation and maintenance alert
- Form-C, Alarm, Trouble and Supervisory relays



SP Series Relaying Controls

- Two models - SP1001 for pre-action delay, RP1002 for agent release
- Four zones - cross, abort and manual release
- Four Notifying Appliance Circuits - 2 for release, 2 for warning



SP-1024 16-Zone Control Communicator

- 16 Class B zones (Class A with option module)
- Built-in digital communicator
- 2 Notifying Appliance Circuits, expandable to 4 (6.0 amps)



HOCHIKI
america corporation



ALPH PHOTOELECTRIC SMOKE SENSOR



ATGEA HEAT SENSOR



SLR-24V SMOKE DETECTOR



CDM - CONVENTIONAL ZONE MODULE



FireNET 4127 ANALOG ADDRESSABLE FIRE ALARM CONTROL PANEL



HCP-1000S FIRE ALARM CONTROL PANEL



HPS-CP CALL POINT BREAK GLASS STATIONS



HPS-CP-S



HPS-SAH



HPS-SAH



HPS-DH



HPS-DH



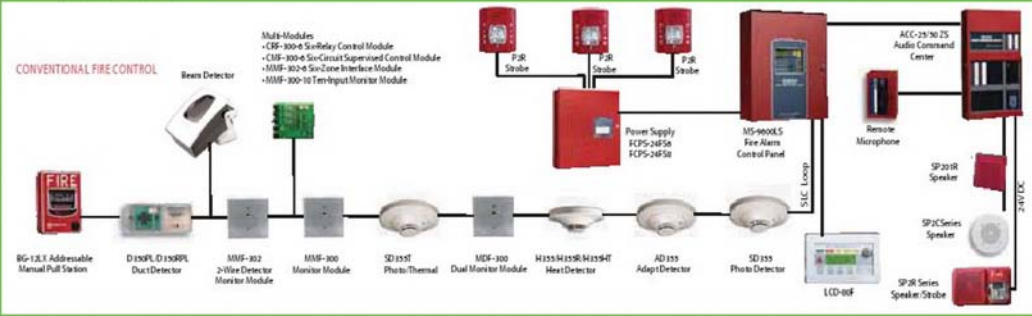
HPS-DH-S



HPS-DH-S

- Hochiki America's Models HPS series pull stations are available in six models:
- HPS-SAH single action
- HPS-SAH single action with key lock
- HPS-DH dual action
- HPS-DH dual action with key lock
- HPS-DH-S dual action with key lock (openable)

FIRELITE Alarms
by Honeywell



FIRE SECURITY SYSTEM



CCTV SYSTEM

Exite®
Spectra IV

Exite® offers you an outstanding fire alarm system with integrated camera for fire detection making the installation of fire alarm system in hospitals, schools, and other, with many high speed alarm, 2.5 sec to detect and provide the alarm with a powerful fire alarm for fire alarm system.

Spectra IV is the ideal choice for your most critical applications where you demand the speed, accuracy and superior image quality that can only be found in Spectra. Additional features not found in the other systems include Exite's image stabilization and image enhancement.

CM780 Series Matrix
MICROPROCESSOR-BASED SWITCH/CONTROLLER, 4096 INPUTS, 512 OUTPUTS

SAMSUNG

SNR-6400/3200

4x/2x Optical Zoom/3.6mm/5.0mm Lens
Record up to 1024 pixels, Video storage Record up to 1024 pixels, 1153x495 at 1/25" resolution
S/N Ratio: 40dB, Dual color, Support D1/D2/D3/D4/D5/D6/D7/D8/D9/D10/D11/D12/D13/D14/D15/D16/D17/D18/D19/D20/D21/D22/D23/D24/D25/D26/D27/D28/D29/D30/D31/D32/D33/D34/D35/D36/D37/D38/D39/D40/D41/D42/D43/D44/D45/D46/D47/D48/D49/D50/D51/D52/D53/D54/D55/D56/D57/D58/D59/D60/D61/D62/D63/D64/D65/D66/D67/D68/D69/D70/D71/D72/D73/D74/D75/D76/D77/D78/D79/D80/D81/D82/D83/D84/D85/D86/D87/D88/D89/D90/D91/D92/D93/D94/D95/D96/D97/D98/D99/D100/D101/D102/D103/D104/D105/D106/D107/D108/D109/D110/D111/D112/D113/D114/D115/D116/D117/D118/D119/D120/D121/D122/D123/D124/D125/D126/D127/D128/D129/D130/D131/D132/D133/D134/D135/D136/D137/D138/D139/D140/D141/D142/D143/D144/D145/D146/D147/D148/D149/D150/D151/D152/D153/D154/D155/D156/D157/D158/D159/D160/D161/D162/D163/D164/D165/D166/D167/D168/D169/D170/D171/D172/D173/D174/D175/D176/D177/D178/D179/D180/D181/D182/D183/D184/D185/D186/D187/D188/D189/D190/D191/D192/D193/D194/D195/D196/D197/D198/D199/D200/D201/D202/D203/D204/D205/D206/D207/D208/D209/D210/D211/D212/D213/D214/D215/D216/D217/D218/D219/D220/D221/D222/D223/D224/D225/D226/D227/D228/D229/D230/D231/D232/D233/D234/D235/D236/D237/D238/D239/D240/D241/D242/D243/D244/D245/D246/D247/D248/D249/D250/D251/D252/D253/D254/D255/D256/D257/D258/D259/D260/D261/D262/D263/D264/D265/D266/D267/D268/D269/D270/D271/D272/D273/D274/D275/D276/D277/D278/D279/D280/D281/D282/D283/D284/D285/D286/D287/D288/D289/D290/D291/D292/D293/D294/D295/D296/D297/D298/D299/D300/D301/D302/D303/D304/D305/D306/D307/D308/D309/D310/D311/D312/D313/D314/D315/D316/D317/D318/D319/D320/D321/D322/D323/D324/D325/D326/D327/D328/D329/D330/D331/D332/D333/D334/D335/D336/D337/D338/D339/D340/D341/D342/D343/D344/D345/D346/D347/D348/D349/D350/D351/D352/D353/D354/D355/D356/D357/D358/D359/D360/D361/D362/D363/D364/D365/D366/D367/D368/D369/D370/D371/D372/D373/D374/D375/D376/D377/D378/D379/D380/D381/D382/D383/D384/D385/D386/D387/D388/D389/D390/D391/D392/D393/D394/D395/D396/D397/D398/D399/D400/D401/D402/D403/D404/D405/D406/D407/D408/D409/D410/D411/D412/D413/D414/D415/D416/D417/D418/D419/D420/D421/D422/D423/D424/D425/D426/D427/D428/D429/D430/D431/D432/D433/D434/D435/D436/D437/D438/D439/D440/D441/D442/D443/D444/D445/D446/D447/D448/D449/D450/D451/D452/D453/D454/D455/D456/D457/D458/D459/D460/D461/D462/D463/D464/D465/D466/D467/D468/D469/D470/D471/D472/D473/D474/D475/D476/D477/D478/D479/D480/D481/D482/D483/D484/D485/D486/D487/D488/D489/D490/D491/D492/D493/D494/D495/D496/D497/D498/D499/D500/D501/D502/D503/D504/D505/D506/D507/D508/D509/D510/D511/D512/D513/D514/D515/D516/D517/D518/D519/D520/D521/D522/D523/D524/D525/D526/D527/D528/D529/D530/D531/D532/D533/D534/D535/D536/D537/D538/D539/D540/D541/D542/D543/D544/D545/D546/D547/D548/D549/D550/D551/D552/D553/D554/D555/D556/D557/D558/D559/D560/D561/D562/D563/D564/D565/D566/D567/D568/D569/D570/D571/D572/D573/D574/D575/D576/D577/D578/D579/D580/D581/D582/D583/D584/D585/D586/D587/D588/D589/D590/D591/D592/D593/D594/D595/D596/D597/D598/D599/D600/D601/D602/D603/D604/D605/D606/D607/D608/D609/D610/D611/D612/D613/D614/D615/D616/D617/D618/D619/D620/D621/D622/D623/D624/D625/D626/D627/D628/D629/D630/D631/D632/D633/D634/D635/D636/D637/D638/D639/D640/D641/D642/D643/D644/D645/D646/D647/D648/D649/D650/D651/D652/D653/D654/D655/D656/D657/D658/D659/D660/D661/D662/D663/D664/D665/D666/D667/D668/D669/D670/D671/D672/D673/D674/D675/D676/D677/D678/D679/D680/D681/D682/D683/D684/D685/D686/D687/D688/D689/D690/D691/D692/D693/D694/D695/D696/D697/D698/D699/D700/D701/D702/D703/D704/D705/D706/D707/D708/D709/D710/D711/D712/D713/D714/D715/D716/D717/D718/D719/D720/D721/D722/D723/D724/D725/D726/D727/D728/D729/D730/D731/D732/D733/D734/D735/D736/D737/D738/D739/D740/D741/D742/D743/D744/D745/D746/D747/D748/D749/D750/D751/D752/D753/D754/D755/D756/D757/D758/D759/D760/D761/D762/D763/D764/D765/D766/D767/D768/D769/D770/D771/D772/D773/D774/D775/D776/D777/D778/D779/D780/D781/D782/D783/D784/D785/D786/D787/D788/D789/D790/D791/D792/D793/D794/D795/D796/D797/D798/D799/D800/D801/D802/D803/D804/D805/D806/D807/D808/D809/D810/D811/D812/D813/D814/D815/D816/D817/D818/D819/D820/D821/D822/D823/D824/D825/D826/D827/D828/D829/D830/D831/D832/D833/D834/D835/D836/D837/D838/D839/D840/D841/D842/D843/D844/D845/D846/D847/D848/D849/D850/D851/D852/D853/D854/D855/D856/D857/D858/D859/D860/D861/D862/D863/D864/D865/D866/D867/D868/D869/D870/D871/D872/D873/D874/D875/D876/D877/D878/D879/D880/D881/D882/D883/D884/D885/D886/D887/D888/D889/D890/D891/D892/D893/D894/D895/D896/D897/D898/D899/D900/D901/D902/D903/D904/D905/D906/D907/D908/D909/D910/D911/D912/D913/D914/D915/D916/D917/D918/D919/D920/D921/D922/D923/D924/D925/D926/D927/D928/D929/D930/D931/D932/D933/D934/D935/D936/D937/D938/D939/D940/D941/D942/D943/D944/D945/D946/D947/D948/D949/D950/D951/D952/D953/D954/D955/D956/D957/D958/D959/D960/D961/D962/D963/D964/D965/D966/D967/D968/D969/D970/D971/D972/D973/D974/D975/D976/D977/D978/D979/D980/D981/D982/D983/D984/D985/D986/D987/D988/D989/D990/D991/D992/D993/D994/D995/D996/D997/D998/D999/D1000/D1001/D1002/D1003/D1004/D1005/D1006/D1007/D1008/D1009/D1010/D1011/D1012/D1013/D1014/D1015/D1016/D1017/D1018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