



# Catalogue

**FIRE & RESCUE  
SOLUTIONS**



[indosan.com](http://indosan.com)



## Mountains of Protection

PT Indosan Berkat Bersama memiliki landasan kuat dalam **Kepuasan Pelanggan dan Pengalaman** selama lebih dari tiga dekade di bidang Keselamatan dan Keamanan terhadap Kebakaran. Kami bertujuan untuk memberikan solusi terdepan dengan fokus pada inovasi dan keunggulan untuk memenuhi kebutuhan klien dari berbagai sektor.

Misi kami adalah memberikan **Ketenangan Pikiran dan Keamanan Total** bagi semua pihak melalui solusi keselamatan yang efektif dan efisien dalam mengatasi risiko kebakaran. Kami menawarkan jasa konsultasi proyek berkelas dunia, didukung oleh para ahli dalam dan luar negeri, untuk memberikan solusi yang terpersonalisasi sesuai kebutuhan klien.

Visi kami adalah menjadi pemimpin terdepan di Indonesia dalam penyediaan solusi keselamatan terbaik bagi klien dari berbagai sektor, sambil memberikan kontribusi yang signifikan dalam mencegah dan mengatasi risiko kebakaran. Kami selalu mengutamakan pelayanan yang responsif, berkualitas dan dapat diandalkan bagi para pelanggan kami.

**It's never been this SAN Safes**



#protectedbysan

# Rest Assured with only Highest Quality Equipment

**MOBIAK®**  
FIREFIGHTING - GASES - MEDICAL GAS

Date: Monday 1<sup>st</sup> of June, 2020

Many cases of fire incidents are deliberately or carelessly caused by humans. Fire destruction is one man's job, but fire protection is everyone's job. Fire Extinguishers, Fire Fighting Equipment, and Fire Rescue are designed by Mobiak with quality to meet excellent performance worldwide.

Safety and quality are our core values. These are the starting points in our vision together with PT Indosan Berkat Bersama and we are proud to collaborate with PT Indosan Berkat Bersama to market the products in Indonesia. Mobiak gives full support by providing the best quality products that are acknowledged by worldwide certifications to ensure the market's demands and customer satisfaction.

Value in Safety - Invest in Quality, as our "motto" mentions!

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# Daftar Isi

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# Alat Pemadam Api Ringan

Portable Fire Extinguisher



**SANfire**



**SNI**  
19-0180-1987 (5.1.1)



Model: FP3  
Extinguisher Medium:  
3 KG ABC Dry Chemical Powder  
Propellant: Nitrogen  
Temperature Range: -30 °C to +60 °C  
Working Pressure: 15 Bar (+20 °C)  
Test Pressure: 30 Bar

Maintenance:  
Recharge immediately after use and check periodically.  
Inspect the pressure gauge to ensure the indicator is within green area every month.  
Check the seal wire, which must be intact.

Send extinguishers to local qualified maintenance professionals every year or longer that is specified by local regulations.

Make sure to only use products and spare parts in conformity with the approved model.

Indonesia Firebrigade Fire Rating: 4A30B

**PT INDOSAN BERKAT BERSAMA**

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e-mail: [info@indosan.com](mailto:info@indosan.com)

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# Dry Chemical Powder Fire Extinguisher

Indonesia  
Firebrigade  
Approval Certificate

TKDN  
Indonesia's  
Government

## Media ABC-90 Dry Chemical Powder(UL)

Pemadam api dengan media serbuk kering atau Dry Chemical Powder 90% UL Certified yang dapat memadamkan api pada **kelas kebakaran A, B, dan C**. Kelebihannya adalah cepat dan efektif dalam memadamkan api. APAR Media Dry Chemical Powder penting dipasang di tempat dengan risiko kebakaran seperti kendaraan, aula, kantor, ruko, dan gudang.

Pemadam Portabel	FP1	FP2	FP3	FP3.5	FP4	FP4.5	FP5	FP6	FP9	FP12
Waktu Semprot (Detik)	8	9	10	12	14	15	16	17	20	28
Efektivitas Penyemprotan (%)	95	95	95	95	95	95	95	95	95	95
Jarak Penyemprotan (m)	2-7	2-8	2-9	2-10	2-10	2-10	3-12	3-12	4-14	4-14
Kapasitas (kg)	1	2	3	3.5	4	4.5	5	6	9	12
Tinggi Keseluruhan (mm)	340	380	435	435	525	525	525	560	585	625
Lebar (termasuk valve;mm)	119	125	170	170	190	190	190	190	204	204
Diameter Tabung (mm)	90	110	130	130	160	160	160	160	190	190
Temperatur (Celsius)	-30C - 60C	-30C - 60C	-30C - 60C	-30C - 60C	-30C - 60C	-30C - 60C	-30C - 60C	-30C - 60C	-30C - 60C	-30C - 60C
Tes Tekanan (bar)	27	27	27	27	27	27	27	27	27	27
Tekanan dalam tabung (bar)	15	15	15	15	15	15	15	15	15	15
Berat keseluruhan (kg)	2.5	3.7	5.5	4.1	6.5	7.1	7.6	10.1	14.3	18.1
Fire Rating (Lab PMK)	3A15B	4A20B	6A30B	7A40B	8A60B	9A60B	10A80B	12A80B	20A100B	20A100B

### FP1 CAP 1 kg

Didesain khusus  
pecinta otomotif



FP2  
2 kg



FP3  
3 kg



FP4  
4 kg



FP6  
6 kg



FP9  
9 kg



FP12  
12 kg





# Foam Fire Extinguisher



## Media AFFF 6% (UL)

Pemadam api dengan media busa yang dapat meredakan api pada bahan mudah terbakar pada **kelas kebakaran A & B**. Kelebihannya adalah kemampuan untuk memadamkan api dengan cepat dan mengisolasi api dari oksigen, serta tidak merusak bahan terbakar karena busa yang dihasilkan tidak mengandung bahan kimia berbahaya. APAR Media Foam sangat penting dipasang di tempat dengan risiko kebakaran tinggi, seperti pompa bensin, toko, pabrik, dan kendaraan berat.

FOAM	FF6	FF9
Waktu Semprot (Detik)	25	40
Efektivitas Penyemprotan (%)	96	97
Jarak Penyemprotan (m)	4-8	5-9
Kapasitas (kg)	6 ltr	9 ltr
Tinggi Keseluruhan (mm)	560	585
Lebar (termasuk valve;mm)	190	204
Diameter Tabung (mm)	160	190
Temperatur (Celsius)	5C - 60C	5C - 60C
Tes Tekanan (bar)	27	27
Tekanan dalam tabung (bar)	15	15
Berat keseluruhan (kg)	10.2	14.5
Fire Rating (Lab PMK)	5A15B	6A15B





# Carbon Dioxide Fire Extinguisher



## Media CO<sup>2</sup>

Pemadam api dengan media gas CO<sup>2</sup> yang bekerja dengan mengecilkan konsentrasi oksigen di sekitar api untuk memadamkan api pada **kelas kebakaran B**. Kelebihannya adalah cepat, efektif, dan aman untuk digunakan pada peralatan listrik karena tidak meninggalkan residu. APAR Media CO<sup>2</sup> tidak cocok untuk kelas kebakaran C dan sangat penting dipasang di tempat dengan risiko kebakaran tinggi, seperti kantor, laboratorium, dan pabrik.

C02	FC2	FC5	FC7
Waktu Semprot (Detik)	10	15	20
Efektivitas Penyemprotan (%)	96	97	97
Jarak Penyemprotan (m)	3-6	4-7	4-7
Kapasitas (kg)	2	5	7
Tinggi Keseluruhan (mm)	520	780	860
Lebar (termasuk selang;mm)	216	236	254
Diameter Tabung (mm)	116	136	154
Temperatur (Celsius)	-20C - 60C	-20C - 60C	-20C - 60C
Tes Tekanan (bar)	250	250	250
Tekanan dalam tabung (bar)	174	174	174
Berat keseluruhan (kg)	6.3	14.7	22.4
Fire Rating (Lab PMK)	3B	4B	10B





# Clean Agent Fire Extinguisher

## Media HFC-236

Pemadam api yang menggunakan gas HFC-236fa untuk memadamkan api pada **kelas kebakaran A, B, dan C**. Kelebihannya adalah cepat, efektif, dan ramah lingkungan. APAR Media HFC-236 penting dipasang di gedung perkantoran, hotel, dan pusat perbelanjaan untuk mengurangi risiko kebakaran.

HFC236	FH1	FH3	FH4	FH6
Waktu Semprot (Detik)	8	12	14	16
Efektivitas Penyemprotan (%)	97	97	97	97
Jarak Penyemprotan (m)	2-3	3-4	4-5	4-5
Kapasitas (kg)	1	3	4	6
Tinggi Keseluruhan (mm)	340	435	525	560
Lebar (termasuk valve;mm)	115	170	190	190
Diameter Tabung (mm)	90	130	160	160
Temperatur (Celsius)	-10C - 60 C	-10C - 60 C	-10C - 60 C	-10C - 60 C
Tes Tekanan (bar)	27	27	27	27
Tekanan dalam tabung (bar)	15	15	15	15
Berat keseluruhan (kg)	2.7	5.1	8.1	9.4
Fire Rating (Lab PMK)	1A2B	2A4B	2A5B	4A15B





# Ceiling Extinguisher

## Media HFC-236

HFC-236 adalah agen bersih yang efektif dalam memadamkan api dengan menghentikan reaksi kimia yang menyebabkan api. Bertindak cepat, aman untuk digunakan pada peralatan elektronik, dan tidak meninggalkan residu, menjadikannya solusi yang handal untuk melindungi aset berharga di lingkungan di mana sistem berbasis air tidak ideal.

**CH2 2 Kg**  
Ceiling Extinguisher



**CH45 4.5 Kg**  
Ceiling Extinguisher



### CH2:

- Fire rating: 1A2B
- Sprinkler: 68OC
- Coverage: 4.9 m<sup>3</sup>
- Total weight: 4 kg

### CH45:

- Fire rating: 2A5B
- Sprinkler: 68OC
- Coverage: 12.5 m<sup>3</sup>
- Total weight: 6.5 kg

# Pneumatic Tubing

Seri pemadam api yang didesain khusus menggunakan tube yang mudah pecah sebagai sensor untuk memadamkan api di panel server atau panel kelistrikan lainnya. Penggunaan HFC-236 sehingga aman untuk perangkat kelistrikan sekitarnya. **Sensor tubing akan pecah pada suhu 110°C.**

**TH6**  
6 kg - 15 mtr



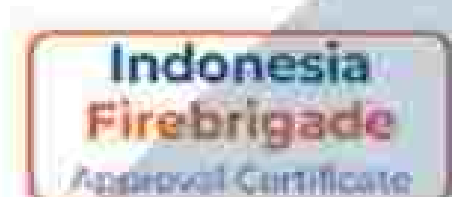
**TH4**  
4 kg - 12 mtr



**TH3**  
3 kg - 9 mtr



**TH1**  
1 kg - 6 mtr





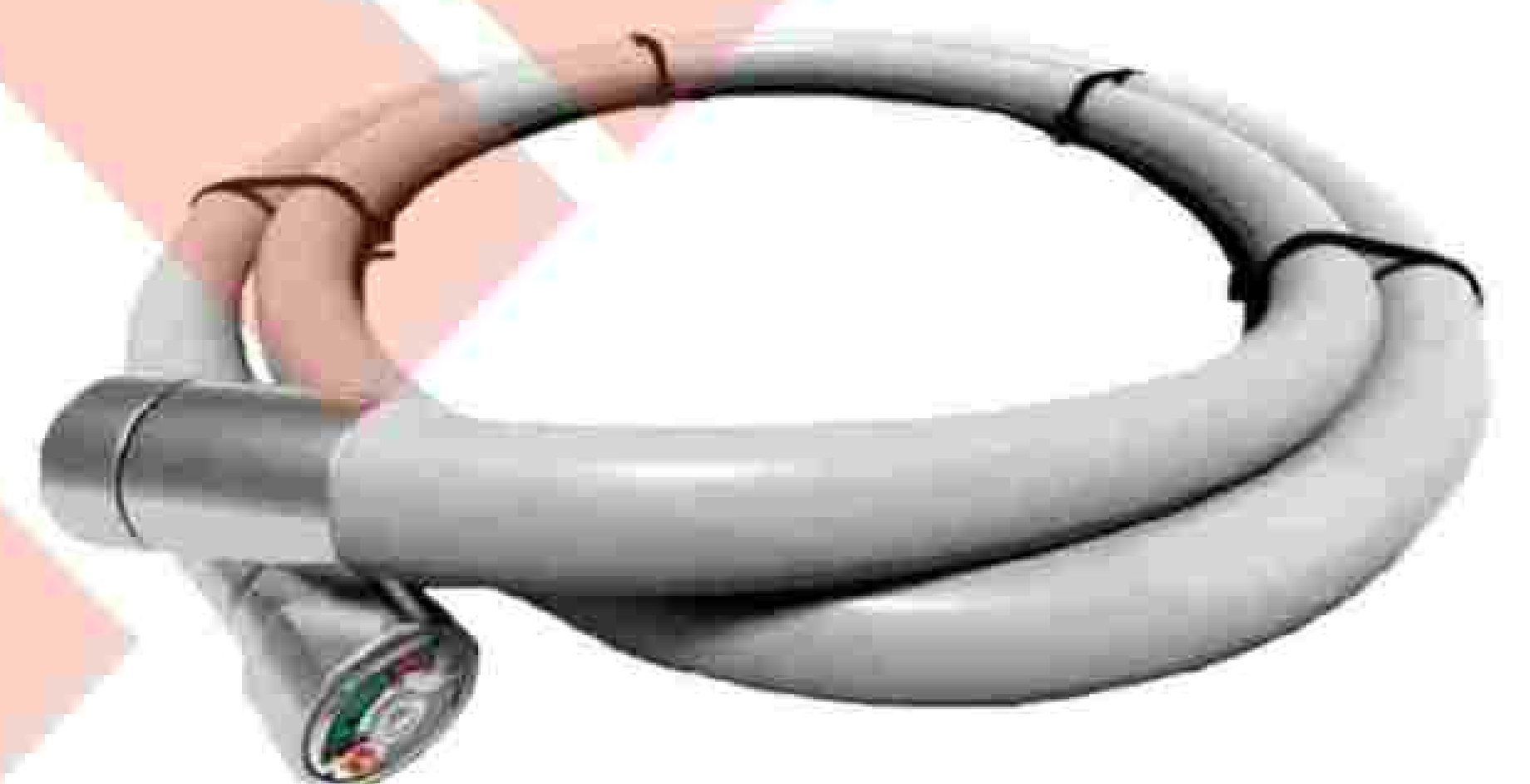
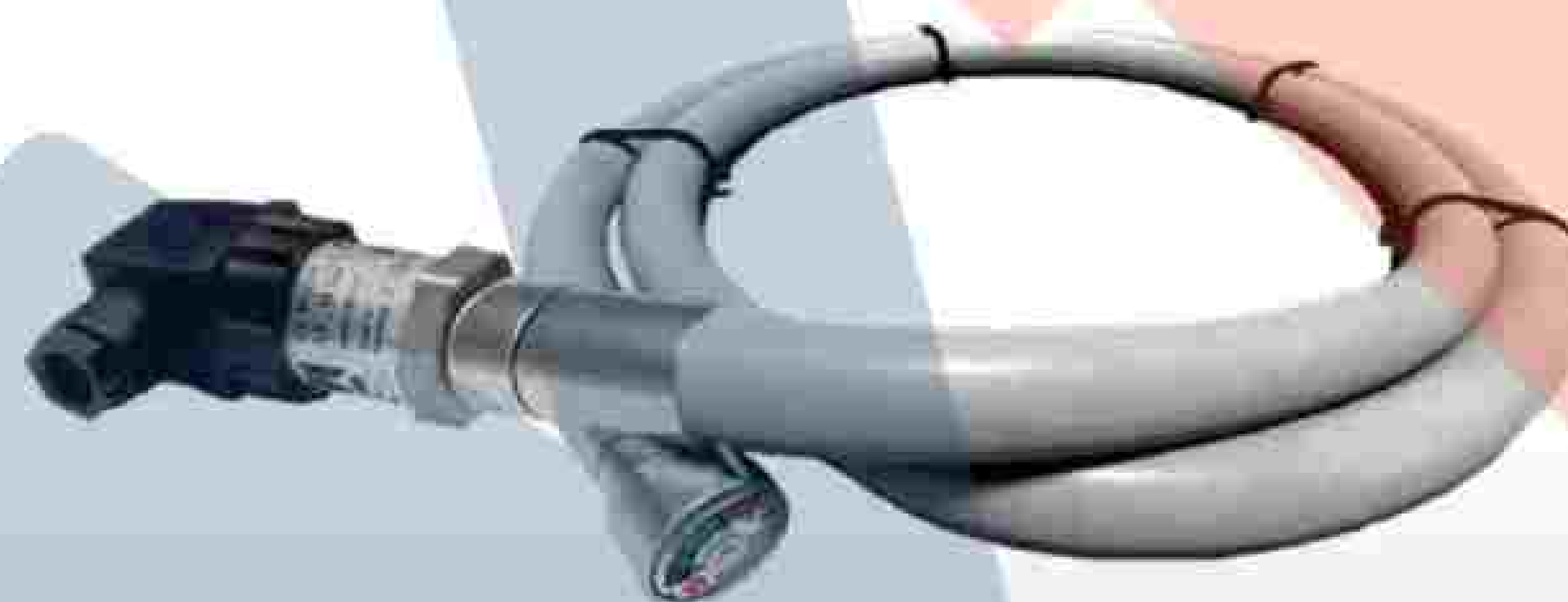
# Automatic Extinguishing System For Panel & Engines

Alat pemadam api yang fleksibel dan otomatis. Biasanya digunakan untuk memadamkan api pada mobil dan panel room maupun server room di perkantoran. Dengan menggunakan media HFC-236 yang bersertifikat UL sehingga aman, ramah lingkungan dan tidak meninggalkan residu.

Indonesia  
Firebrigade  
Approval Certificate

## Specifications:

- Activation Temperature:  $105^{\circ}\text{C} \pm 3^{\circ}\text{C}$
- High flexibility tube capable to extinguish A,B,C and electrical type of fires also protect almost any space.
- Long working life till 10 years
- No maintenance during entire working life
- No cylinder for storage of extinguishing agent needed
- Fully independent system without any power supply
- Very simple installation





# Alat Pemadam Api Beroda

Wheeled Fire Extinguisher





# Dry Chemical Powder Extinguisher



Media **ABC-90 Dry Chemical Powder(UL)**

## WP25:

- Fire rating: 30A100B
- Range: 7 mtr
- Propellant: Nitrogen
- Working pressure: 15 bar
- Test pressure: 27 bar
- Discharge time: 30 sec
- Total weight: 50.5 kg

## WP50:

- Fire rating: 40A125B
- Range: 8 mtr
- Propellant: Nitrogen
- Working pressure: 15 bar
- Test pressure: 27 bar
- Discharge time: 50 sec
- Total weight: 84.5 kg

**WP25**  
25 kg



**WP50**  
50 kg



# Foam Extinguisher

Media : **AFFF 6% (UL)**

## WF25:

- Fire rating: 12A80B
- Discharge time: 40 sec
- Range: 8 mtr
- Working pressure: 15 bar
- Test pressure: 27 bar
- Propellant: Nitrogen
- Total weight: 80 kg

## WF50:

- Fire rating: 12A125B
- Discharge time: 55 sec
- Range: 8 mtr
- Working pressure: 15 bar
- Test pressure: 27 bar
- Propellant: Nitrogen
- Total weight: 95 kg

**WF25**  
25 kg



**WF50**  
50 kg





# Carbon Dioxide Extinguisher

Media **CO<sup>2</sup>**



## **WCO10:**

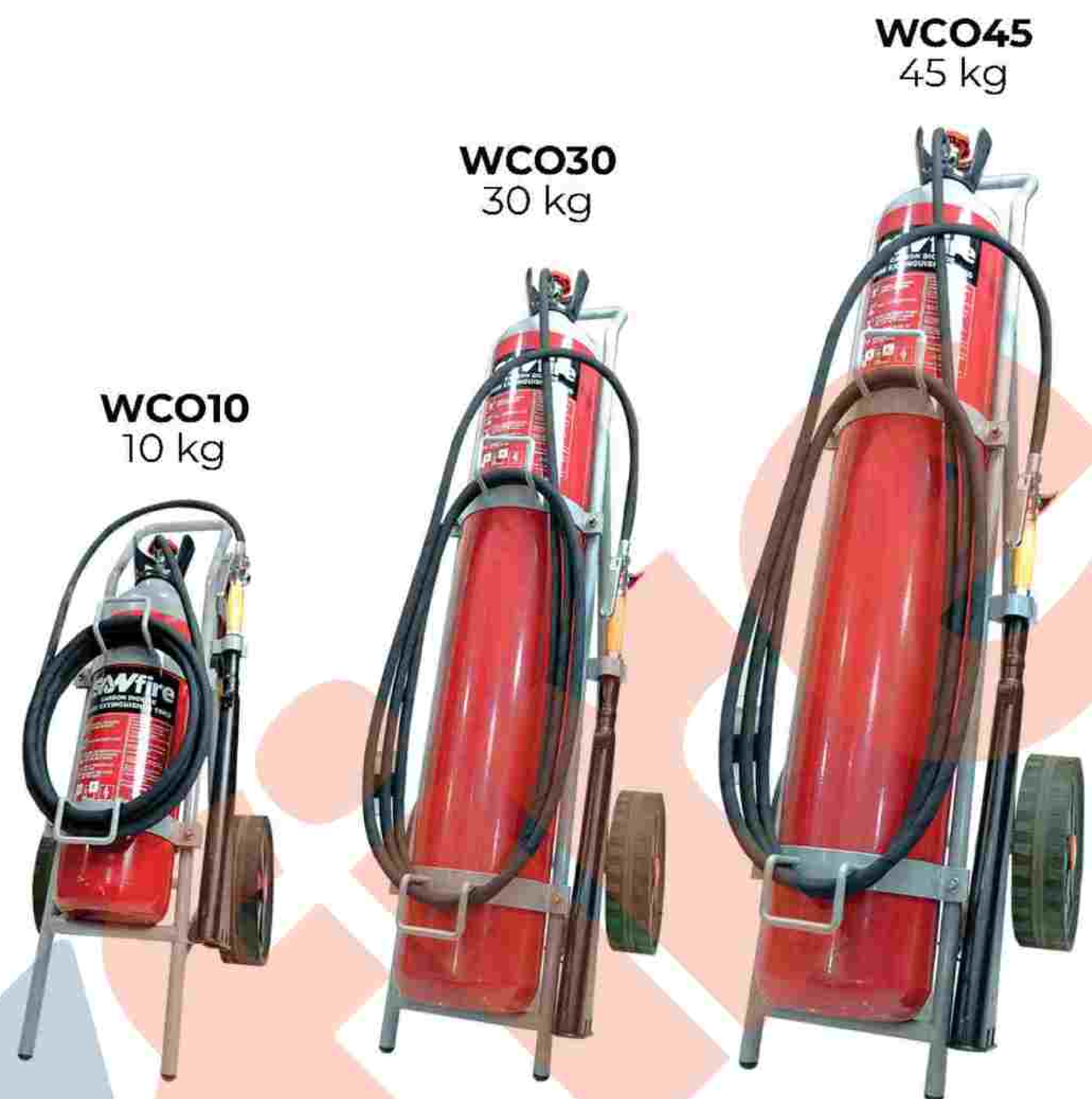
- Working pressure: 174 bar
- Test pressure: 300 bar
- Cylinder with 5m discharge hose
- Total weight: 63.8 kg

## **WCO30:**

- Working pressure: 200 bar
- Test pressure: 250 bar
- Cylinder with 5m discharge hose
- Total weight: 80 kg

## **WCO45:**

- Working pressure: 192 bar
- Test pressure: 250 bar
- Cylinder with 5m discharge hose
- Total weight: 147 kg



# Clean Agent Extinguisher

Media **HFC-236 (UL)**

## **WH25:**

- Range: 6 mtr
- Discharge time: 24 sec
- Working pressure: 15 bar
- Test pressure: 27 bar
- Total weight: 85 kg

## **WH50:**

- Range: 6 mtr
- Discharge time: 34 sec
- Working pressure: 15 bar
- Test pressure: 27 bar
- Total weight: 114 kg





# Selang Pemadam & Perlengkapannya

Fire Hose & Accessories





# Polyester Fire Hose



## SAN Fortte - Polyester

### Features:

- Very light and flexible hose quality
- Minimum maintenance
- Extremely resistant to aging and ozone and UV
- Excellent abrasion resistance
- Minimum friction loss because of very smooth inner lining
- Suitable for sea water, hot water, many chemicals

### Construction:

- Inside: High quality, very light synthetic rubber on the basis of EPDM
- Outside: Jacket of 100% high tenacity synthetic polyester yarn, circular woven twill weave, wrap and weft threads multiple twisted

### Approvals / Certificate:

- DIN 14811:2008-01+A2:2014-08
- BS 6391:2009 Type 1
- M.E.D. 96/98/EC
- ONORM F2105
- Germanischer Lloyd

## SAN Fire - Polyester

### Features:

- Light weight
- Good elasticity
- Small flow resistance
- Easy to wind and roll
- Extensibility less than 5%
- Diameter expansion less than 5%

### Construction:

- Inner material: PVC
- Outer material : Polyester silk

Specification	SAN Fortte 1,5"	SAN Fortte 2,5"	SAN Fire 1,5"	SAN Fire 2,5"
Tekanan Kerja	25 Bar	25 Bar	22 Bar	22 Bar
Tekanan Lipat	43 Bar	42 Bar	36 Bar	34 Bar
Tekanan Pecah	86 Bar	84 Bar	74 Bar	74 Bar
TKDN	50.82%	52.04%	67.69%	62.07%



# Rubber Fire Hose



## SAN Tritor - Rubber

**Features:**

- High abrasion resistance and durability by longitudinal ribs by trouble with a damage of the cover an easily repair is possible
- Very light and flexible hose quality
- Minimum maintenance
- Extremely resistant to aging and ozone and UV
- Excellent abrasion resistance
- Minimum friction loss because of very smooth inner lining
- Suitable for sea water, hot water, and many chemicals

**Construction:**

- Inside: very smooth for minimum friction loss
- Jacket of 100% high tenacy synthetic polyester yarn, circular woven, embedded in a rubber compound provides optimum protection of the jacket
- High quality nitrile / PVC compound is forced through the jacket in the extrusion process
- Outside: Longitudinal ribs for excellent abrasion resistance

**Approvals / Certificate:**

- DIN 14811:2008-01+A2:2014-08
- BS 6391:2009 Type 3
- Germanischer Lloyd
- Lloyd's Register of Shipping

Specification	SAN Tritor 1,5"	SAN Tritor 2,5"
Tekanan Kerja	25 Bar	25 Bar
Tekanan Lipat	43 Bar	42 Bar
Tekanan Pecah	86 Bar	84 Bar
TKDN	39.91%	40.40%



### Hose Washer

**Features:**

- Designed for connection to water delivery hose
- For cleaning of mud, gravel, sand, and dirt
- Soiled hose is pulled through the attachment
- Whilst the water connection to the washer feeds two internal pressure jets which clean the outer jacket of hose
- Supplied with light alloy instanneous male inlet as standard, other coupling type inlets available upon request
- Integral carrying handle is fitted to the body of the unit
- Color: RAL 3000 ( Red )
- Pressure: 4 bar - 8 bar



# Fire Hose Coupling



## Storz Coupling

### Specifications:

- High quality aluminum alloy material
- Complete with seal ( nitril rubber material )
- Available in Storz 38, Storz C52, and Storz 65



## French Coupling (DSP)

### Specifications:

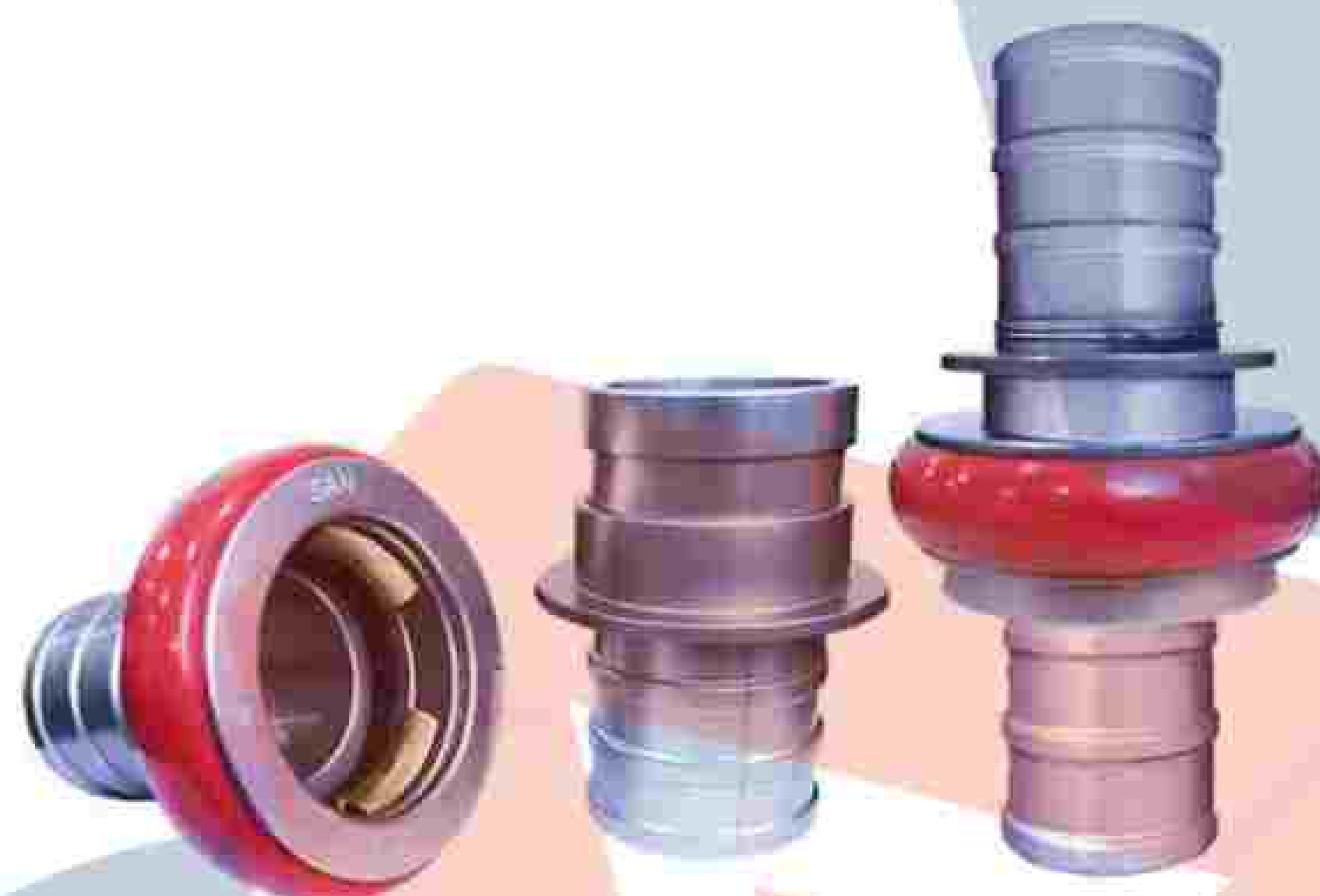
- High quality aluminum alloy material
- Serrated tail type
- Available in 1.5" & 2.5"



## SANFire VDH Coupling

### Specifications:

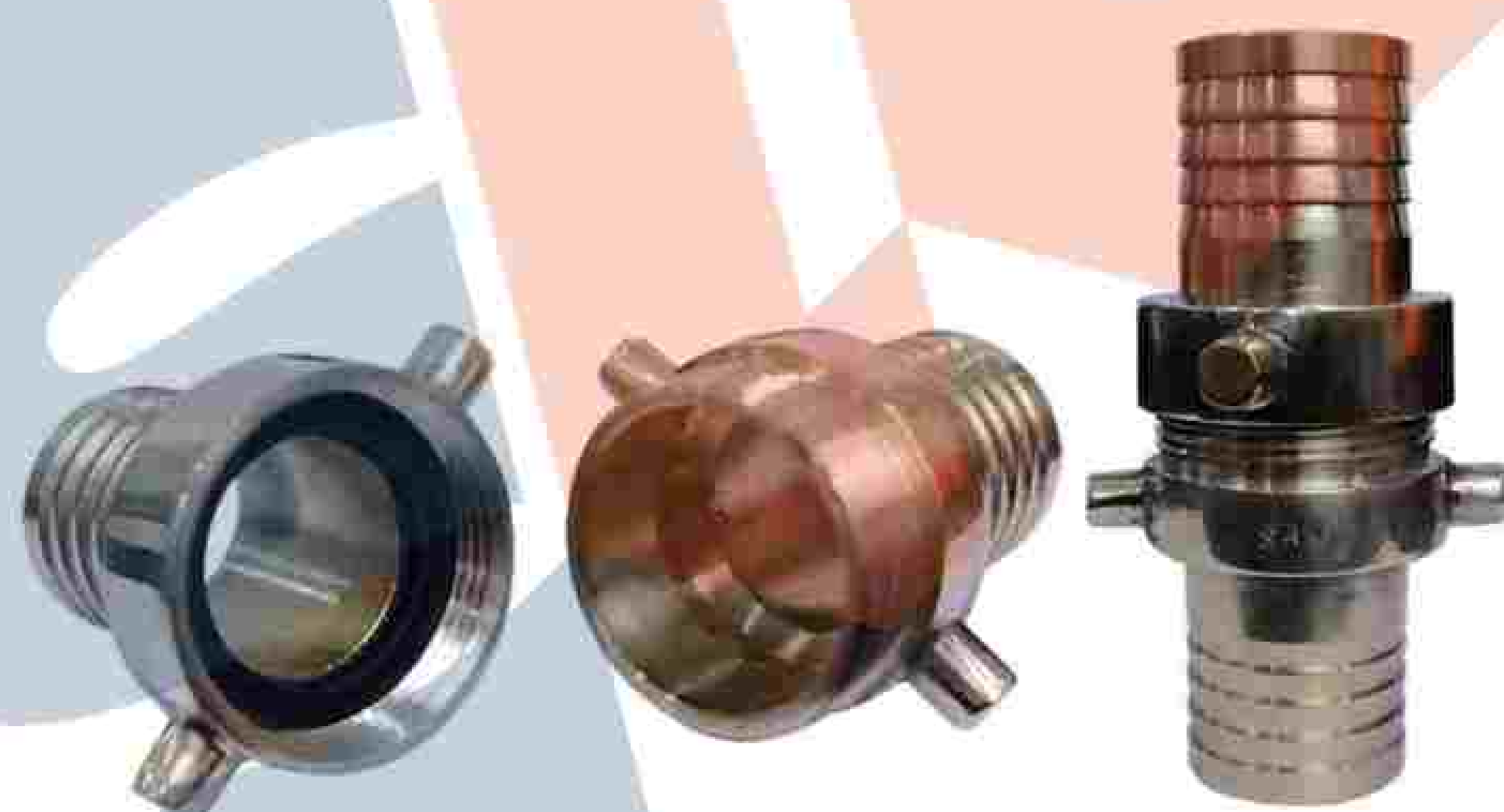
- High quality brass material
- Seal with high quality rubber
- Injection Molding Technique
- Super precision size for ease



## Machino Coupling

### Specifications:

- High quality aluminum alloy material
- Dark grey anodized
- Red rubber protection
- Available in 1.5" & 2.5"



## NHT Coupling

### Specifications:

- High quality brass material
- Completed with rocker lug
- Available in 1.5" & 2.5"



## BIC Coupling

### Specifications:

- High quality aluminum alloy material
- Double rib tail
- Available in 1.5" & 2.5"
- BS336 65mm connector



# Fire Hose Reel

## Specifications:

- Disk Diameter: 555 mm
- Steel drum
- Width between disk: 180 mm
- Working pressure: 16 Bar
- Bursting pressure: 48 Bar

## Features:

- Nameplate: Blue plastic cap with SAN Fire printing design
- Hose confirmed to EN 694
- Standard hose color: RAL 3000
- Disk color: RAL 3000



**Swing Type**  
1" & 3/4" x 30 M

**Fix Type**  
1" & 3/4" x 30 M

# Fire Hose Winder



## Electrical Hose Winder

### Features:

- Used together with a powerful drill
- Composite rubber and plastic canvas with bearing centre is supplied and used with WIND-X when reeling
- Manufactured entirely in stainless steel
- Designed for safety and healthy work environment



## Mechanical Hose Winder

### Features:

- Mobile hose reel machine is designed for use in fire fighting fre hose coiling
- Several times more efficient and it was widely used in water hoses
- Manufacturers and fre hose coils
- The device is simple in structure, easy to use, fast in rewinding, and has a limited use place
- Material: Stainless steel
- Weight: 15 kg



## Manual Hose Winder

### Features:

- Used together with a powerful drill
- Composite rubber and plastic canvas with bearing centre is supplied and used with WIND-X when reeling
- Manufactured entirely in stainless steel
- Designed for safety and healthy work environment



# Alat Semprot Kebakaran

Fire Nozzle & Monitor





# Selectable Nozzle

## Features:

- Pattern identification
- Hard anodized aluminum labels, laser engraved
- Simple to operate (1/4 turn from straight stream to fog)
- Raised lug marks straight stream for limited visibility operations
- Easy to service and repair
- Compatible with quick attach foam tube

**SN15**  
1,5 Inch



**SN25**  
2,5 Inch



Selectable Nozzle	SN15	SN25
Flow Rate	115-230-360-475 LPM @ 7 bar	360-475-570-760-950 LPM @ 7 bar
Work Pressure	100 psi (7 bar)	87 psi (6 bar)
Maximum Pressure	200 psi (14 bar)	100 psi (7 bar)
Throw Range	40 m @ 7 bar	40 m @ 7 bar
Maximum Fog Angle	120	120
Inlet Size	1,5"	2,5"
Coupling	NHT, Storz, Machino, etc	NHT, Storz, Machino, etc



## Selectable Nozzle #366



**Features:**

- Combination pattern nozzles with multiple flow settings
- Superb wide fog pattern for optimum fire fighter protection
- Flow pattern detents facilitate positive positioning and smooth action
- Raised lug for easier pattern identification
- Laser-etched anodized label for excellent durability and visibility
- Flush without changing pattern or shutting down
- Ergonomic design pistol grip
- Heavy-duty chrome plated metal shutoff ball for smooth action and long life
- Stainless filter mesh prevents blockage caused by debris
- Minimal maintenance reflected in robust design, precision machining and quality materials
- FM approved



## Selectable Nozzle #368



**Features:**

- Superb wide fog pattern for optimum fire fighter protection
- Flow pattern detents facilitate positive positioning and smooth action
- Raised lug for easier pattern identification
- Laser-etched anodized label for excellent durability and visibility
- Flush without changing pattern or shutting down
- Ergonomic design pistol grip
- Heavy-duty chrome plated metal shutoff ball for smooth action and long life
- Stainless filter mesh prevents blockage caused by debris
- Minimal maintenance reflected in robust design, precision machining and quality materials
- FM approved and NFPA compliant



Selectable Nozzle	SN #366	SN #368
Flow Rate	30-60-95-125 GPM (115-230-360-475 LPM)	95-125-150-200-250 GPM (360-475-550-750-950 LPM)
Operating Pressure	100 psi (7 bar)	100 PSI (7 bar)
Inlet Size	1-1/2" (38mm)	2-1/2" (65mm)
Teeth	Spinning	Spinning
Material	Alloy	Alloy
Length	228 mm	260 mm
Weight	1,7 kg	2,8 kg
Compatible products	#213	#215



# Multipurpose Nozzle

## Multipurpose Nozzle #332

**Features:**

- Synchronised solid bore and fog stream capability
- Adjustable fog stream with pattern detents and twist shutoff
- Laser-etched anodized label for excellent durability and visibility
- Flush without changing pattern or shutting down
- Ergonomic design pistol grip
- Heavy-duty chrome plated metal shutoff ball for smooth action and long life
- Stainless filter mesh prevents blockage caused by debris
- Exceptionally lightweight and compact
- Suitable for use with CAFS systems

**Certifications:**

- NFPA 1964 compliant



## Multipurpose Nozzle #333

**Features:**

- Synchronised solid bore and fog stream capability
- Adjustable fog stream with pattern detents and twist shutoff
- Laser-etched anodized label for excellent durability and visibility
- Flush without changing pattern or shutting down
- Ergonomic design pistol grip
- Heavy-duty chrome plated metal shutoff ball for smooth action and long life
- Stainless filter mesh prevents blockage caused by debris
- Exceptionally lightweight and compact
- Suitable for use with CAFS systems

**Certifications:**

- NFPA 1964 compliant



Multipurpose Nozzle	MN #332	MN #333
Flow Rate	FOG FLOW: 60 GPM (230 LPM)	FOG FLOW: 135 GPM (510 LPM)
Operating Pressure	50 psi (3.5 bar), 100 psi (7 bar)	100 PSI (7 bar)
Inlet Size	1-1/2" (38mm)	2-1/2" (65mm)
Teeth	Spinning	Spinning
Material	Alloy	Alloy
Length	218 mm	260 mm
Weight	1,6 kg	2,6 kg
Compatible products	#212	#214



# Branchpipe

A branchpipe is a type of nozzle used in firefighting to control and direct the flow of water from a fire hose. It is designed to produce a high-velocity stream of water, which can be used to extinguish fires or to cool hot surfaces to prevent reignition.

Branchpipes may be attached to the end of a fire hose using a threaded coupling or a quick-connect fitting. They are commonly used in conjunction with other firefighting equipment, such as fire hydrants, fire trucks, and standpipes, to deliver water to the fire

**Branchpipe Jet**  
1.5" & 2.5"



**Nylon Belted Jet Spray**  
1.5" & 2.5"



## Branchpipe Jet

### Specifications:

- High quality brass material
- Completed with rocker lug
- Available in 1.5" & 2.5"

## Nylon Belted Jet Spray

### Specifications:

- Type: Belted jet hose nozzle
- Connection: 1.5" & 2.5" Machino / NHT / Storz / BIC / etc
- High quality brass material
- Nylon protection

**Belted Jet Spray**  
1.5" & 2.5"



**Branchpipe Jet Spray**  
1.5" & 2.5"



## Belted Jet Spray

### Specifications:

- Type: Jet spray hose nozzle
- Connection: 1.5" & 2.5" Machino / NHT / Storz / BIC / etc
- High quality brass material

## Branchpipe Jet Spray

### Specifications:

- Type: Variable hose nozzle
- Connection: 1.5" & 2.5" Machino / NHT / Storz / BIC / etc
- High quality brass material



# Piercing

Designed with a pointed tip that can penetrate through barriers like walls, doors, or other obstructions. It is usually attached to a flexible hose and connected to a water source.



## Nozzle Piercing Multipurpose

### Specifications:

- Designed to extinguish fire underneath the difficult area
- Compatible with class A foam application
- 1.5" Machino coupling inlet
- Flow: 300 LPM
- Test pressure: 7 Bar

## Nozzle Piercing

### Specifications:

- Designed to extinguish fire underneath the difficult area
- Compatible with class A foam application
- 1.5" Machino coupling inlet
- Flow: 600 LPM
- Test pressure: 7 Bar





# Self Educating / Educator

Nozzles or devices that allows them to draw and mix firefighting foam concentrate into the water stream without the need for an external educator or proportioning device. The self-educating capability simplifies the process of deploying foam for firefighters and improves the efficiency of firefighting operations.

## Self Educating Nozzle #886-BC

### Features:

- Transform a water monitor into a foam station without additional equipment
- Designed for use with Class A and B foam
- Combination of straight stream and variable fog patterns
- Interchangeable foam orifice inserts enable variable foam proportioning
- Heavy-duty corrosion resistant brass construction
- Optional drum pick up kit comes with 1m rigid PVC tube with shutoff capability and 9' pickup hose
- Optional isolation valve for shutoff capability

### Specifications:

- Flow rate: 350 GPM (1325 LPM)
- Operating pressure: 100 psi (7 bar)
- Inlet: 2-1/2" (65 mm)
- Foam proportioning: 3%, 6%
- Material: Brass
- Length: 180 mm
- Weight: 6.8 kg



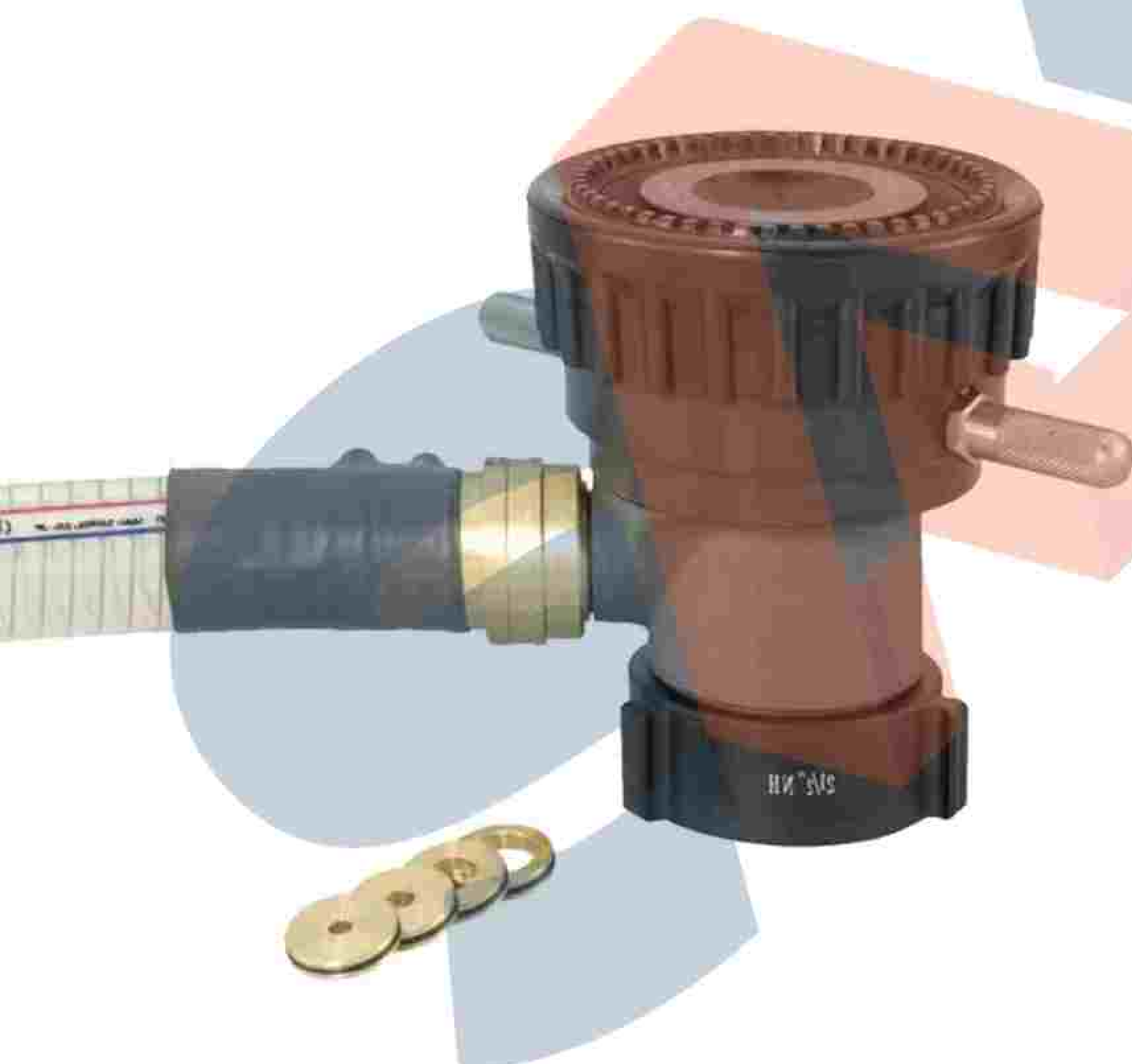
## Self Educating Nozzle #888

### Features:

- Transform a water monitor into a foam station without additional equipment
- Designed for use with Class A and B foam
- Combination of straight stream and variable fog patterns
- Interchangeable foam orifice inserts enable variable foam proportioning
- Durable lightweight aluminium alloy construction
- Optional drum pick up kit comes with 8' pickup hose
- Optional isolation valve for shutoff capability

### Specifications:

- Flow rate: 350, 500, 750 GPM (1325, 1900, 2900 LPM)
- Operating pressure: 100 psi (7 bar)
- Inlet: 2-1/2" (65 mm), Quick Connection
- Foam proportioning: 1/2%, 1%, 3%, 6%
- Material: Alloy
- Length: 145 mm
- Weight: 6 kg
- Compatible products: 633, 655, 620, 933, 935, 935





## Adjustable Flow-Baffle Nozzle #823

### Features:

- Spring loaded baffle enables flow rate selection
- Durable lightweight alloy construction
- Combination of straight stream and variable fog patterns
- Straight stream is clean and far-reaching
- Fog pattern is wide, dense and fully adjustable
- Flow and pressure are laser engraved on the baffle
- Nozzle must be shut down to change flow setting
- Low maintenance, high quality components

### Specifications:

- Flow rate: 300, 500, 700 GPM (1140, 1900, 2660 LPM)
- Operating pressure: 100 psi (7 bar)
- Inlet: 2-1/2" (65 mm) }
- Teeth: Fixed
- Material: Alloy
- Length: 170 mm
- Weight: 2 kg
- Compatible products: 633, 655, 620, 622-1, 622-2, 622-3



## Adjustable Flow Monitor Nozzle #845-BC

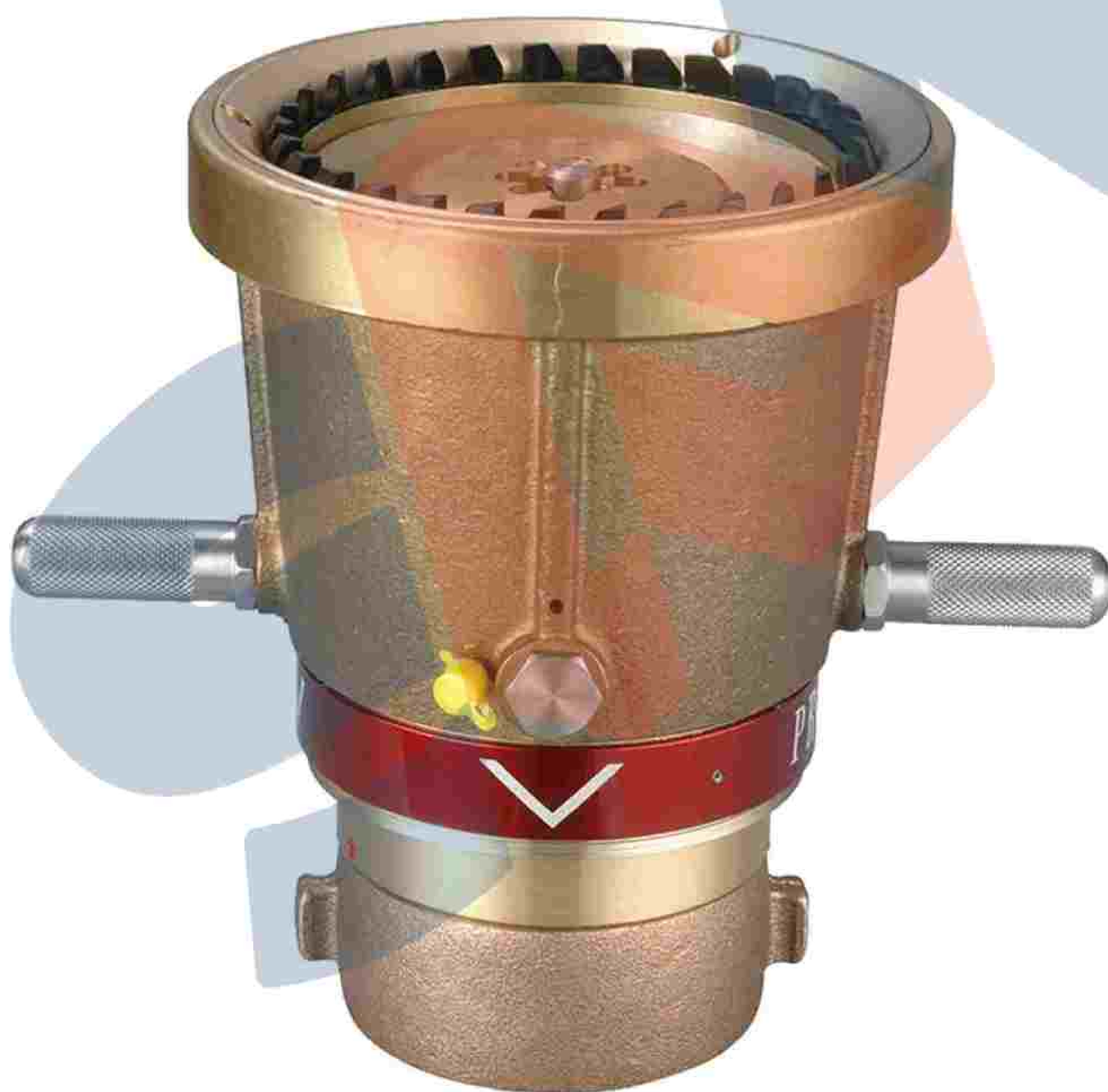


### Features:

- Spring loaded baffle enables flow rate selection
- Brass construction for corrosion resistance
- Combination of straight stream and variable fog patterns
- Straight stream is clean and far-reaching
- Fog pattern is wide, dense and fully adjustable
- Flow and pressure are laser engraved on the baffle
- Nozzle must be shut down to change flow setting
- Low maintenance, high quality components

### Specifications:

- Style: 845-BC
- Product Name: Adjustable Flow Monitor Nozzle
- Flow Rate: 300, 500, 800, 1000 GPM (1140, 1900, 3030, 3800 LPM)
- Operating Pressure: 100 psi (7 bar)
- Inlet: 2-1/2" (65 mm)
- Teeth: Spinning
- Material: Brass
- Length: 7.8" (198 mm)
- Weight: 18 lbs (8.2 kg)
- Compatible Products: 611, 612, 648, 649, 736





# Monitor

## Industrial Monitor #605

### Features:

- Rugged and flow-efficient monitor with high reliability and minimal maintenance
- Full 2-1/4" waterway for flow rate of up to 500 GPM (1900 LPM)
- Ideal for marine, offshore, industrial and other corrosive environment
- Corrosion resistant brass construction
- Cast-in turning vanes for efficient flow and minimal friction loss
- Highly manoeuvrable and easy to operate
- Positive friction locks for both horizontal and vertical travel to hold desired position
- Compact design and low-profile
- Optimise advanced computer aided design and testing technology

### Specifications:

- Flow rate: 500 GPM (1900 LPM)
- Operating pressure: 200 psi (14 bar)
- Inlet: 2" (50 mm), 2-1/2" Flange, 3" Flange
- Outlet: 1-1/2" (38 mm)
- Control: Tiller Bar
- Vertical Travel: 140° from 80° above to 60° below horizontal
- Rotational Travel: 360°
- Material: Brass
- Finish: Red Powder Coating
- Weight: 9 kg
- Compatible Products: 366-BCTO, 367-BCTO, 372-BCTO, 373-BCTO, 818-BC, 819-BC, 820-BC, 881-BC, 883-BC



## Industrial Monitor #611



### Features:

- Rugged and flow-efficient monitor with high reliability and minimal maintenance
- Full 3" waterway for flow rate of up to 1250 GPM (4800 LPM)
- Ideal for marine, offshore, industrial and other corrosive environment
- Corrosion resistant brass construction
- Cast-in turning vanes for efficient flow and minimal friction loss
- Highly manoeuvrable and easy to operate
- Double-row stainless steel ball bearings in all rotational joints
- Compact design and low-profile
- Optimise advanced computer aided design and testing technology
- FM approved

### Specifications:

- Flow rate: 1250 GPM (4800 LPM)
- Operating pressure: 200 psi (14 bar)
- Inlet: 3" (76 mm), 3" Flange, 4" Flange
- Outlet: 2-1/2" (65 mm)
- Control: Single Handwheel
- Vertical Travel: 140° from 85° above to 55° below horizontal
- Rotational Travel: 360°
- Material: Brass
- Finish: Red Powder Coating
- Weight: 26 kg
- Compatible Products: 823-BC, 825-BC, 830, 832, 835-BC,





## Industrial Monitor #612

### Features:

- Rugged and flow-efficient monitor with high reliability and minimal maintenance
- Full 3" waterway for flow rate of up to 1250 GPM (4800 LPM)
- Ideal for marine, offshore, industrial and other corrosive environment
- Corrosion resistant brass construction
- Cast-in turning vanes for efficient flow and minimal friction loss
- Highly manoeuvrable and easy to operate
- Double-row stainless steel ball bearings in all rotational joints
- Compact design and low-profile
- Optimise advanced computer aided design and testing technology

### Specifications:

- Flow rate: 1250 GPM (4800 LPM)
- Operating pressure: 200 psi (14 bar)
- Inlet: 3" (76 mm), 3" Flange, 4" Flange
- Outlet: 2-1/2" (65 mm)
- Control: Dual Handwheel
- Vertical Travel: 140° from 85° above to 55° below horizontal
- Rotational Travel: 360°
- Material: Brass
- Finish: Red Powder Coating
- Weight: 27 kg
- Compatible Products: 823-BC, 825-BC, 830, 832, 835-BC, 845-BC, 847-BC, 848-BC, 887-BC, 888-BC, 889-BC



## Industrial Monitor #636



### Features:

- Rugged and flow-efficient monitor with high reliability and minimal maintenance
- Full 2-1/2" waterway for flow rate of up to 750 GPM (2900 LPM)
- Ideal for marine, offshore, industrial and other corrosive environment
- Corrosion resistant brass construction
- Cast-in turning vanes for efficient flow and minimal friction loss
- Highly manoeuvrable and easy to operate
- Positive friction locks for both horizontal and vertical travel to hold desired position
- Compact design and low-profile
- Optimise advanced computer aided design and testing technology
- FM approved

### Specifications:

- Flow rate: 750 GPM (2900 LPM)
- Operating pressure: 200 psi (14 bar)
- Inlet: 2-1/2" (65 mm), 3" Flange, 4" Flange, 6" Flange
- Outlet: 2-1/2" (65 mm)
- Control: Tiller Bar
- Vertical Travel: 135° from 75° above to 60° below horizontal
- Rotational Travel: 360°
- Material: Brass
- Finish: Red Powder Coating
- Weight: 20 kg
- Compatible Products: 823-BC, 847-BC, 887-BC, 888-BC





## Industrial Monitor #649



### Features:

- Rugged and flow-efficient monitor with high reliability and minimal maintenance
- Full 3" waterway for flow rate of up to 1250 GPM (4800 LPM)
- Ideal for marine, offshore, industrial and other corrosive environment
- Corrosion resistant brass construction
- Cast-in turning vanes for efficient flow and minimal friction loss
- Highly manoeuvrable and easy to operate
- Positive friction locks for both horizontal and vertical travel to hold desired position
- Compact design and low-profile
- Optimise advanced computer aided design and testing technology
- FM approved

### Specifications:

- Flow rate: 1250 GPM (4800 LPM)
- Operating pressure: 200 psi (14 bar)
- Inlet: 3" (76 mm), 3" Flange, 4" Flange
- Outlet: 2-1/2" (65 mm)
- Control: Tiller Bar
- Vertical Travel: 150° from 90° above to 60° below horizontal
- Rotational Travel: 360°
- Material: Brass
- Finish: Red Powder Coating
- Weight: 25 kg
- Compatible Products: 8823-BC, 825-BC, 830, 832, 835-BC, 845-BC, 847-BC, 848-BC, 887-BC, 888-BC, 889-BC



## Industrial Monitor #736



### Features:

- Rugged and flow-efficient monitor with high reliability and minimal maintenance
- Full 2-1/2" waterway for flow rate of up to 1250 GPM
- Ideal for marine, offshore, industrial and other corrosive environment
- Corrosion resistant brass construction
- Cast-in turning vanes for efficient flow and minimal friction loss
- Highly manoeuvrable and easy to operate
- Positive friction locks for both horizontal and vertical travel to hold desired position
- Compact design and low-profile
- Optimise advanced computer aided design and testing technology
- FM approved

### Specifications:

- Flow rate: 1250 GPM (4800 LPM)
- Operating pressure: 200 psi (14 bar)
- Inlet: 3" (76 mm), 3" Flange, 4" Flange, 6" Flange
- Outlet: 2-1/2" (65 mm)
- Control: Tiller Bar
- Vertical Travel: 135° from 90° above to 45° below horizontal
- Rotational Travel: 360°
- Material: Brass
- Finish: Red Powder Coating
- Weight: 20 kg
- Compatible Products: 823-BC, 825-BC, 830, 832, 835-BC, 845-BC, 847-BC, 848-BC, 887-BC, 888-BC, 889-BC





## Oscilating Monitor #625-1

### Features:

- Effective sweeping water stream, designed for attack, cooling, protection and haz-mat situations
- Single swivel inlet model
- The water-driven turbine induces the nozzle to oscillate at adjustable 12.5°, 15°, 20° or 25° either side of the centre
- The on/off knob can be activated to stop oscillation at any point
- The oscillating mechanism can be disengaged to enable manual horizontal rotation
- Elevation is adjustable between 20° and 60° unmanned
- Carbide tipped spikes at the base is resistant to long-term wear and provide excellent ground stability
- Large handle for excellent portability
- Inbuilt pressure gauge and ball shutoff for efficient flow control
- Low profile for excellent ground stability and anchors safety strap for quick tie down
- Powder coating provides additional resistance to corrosion and wear

### Specifications:

- Flow rate: 500 GPM (1900 LPM)
- Inlet: 2-1/2" (65 mm)
- Outlet: 2-1/2" (65 mm)
- Control: Manual
- Vertical Travel: 40° from 20° above to 60° above unmanned
- Rotational Travel: 360°
- Material: Alloy
- Finish: Red Powder Coating
- Weight: 13 kg
- Compatible Products: 118, 822, 824, 883, 886, 887



## Oscilating Monitor #918



### Features:

- Combination of Style 911 Oscillating Flange and Style 611 Industrial Monitor
- Rugged and flow-efficient monitor with high reliability and minimal maintenance
- Full 3" waterway for flow rate of up to 1250 GPM (4800 LPM)
- Readily transforms a manual monitor into an oscillating monitor
- Very easy to set up by unbolting the existing monitor and inserting either the oscillating flange conversion kit between the flanges

### Specifications:

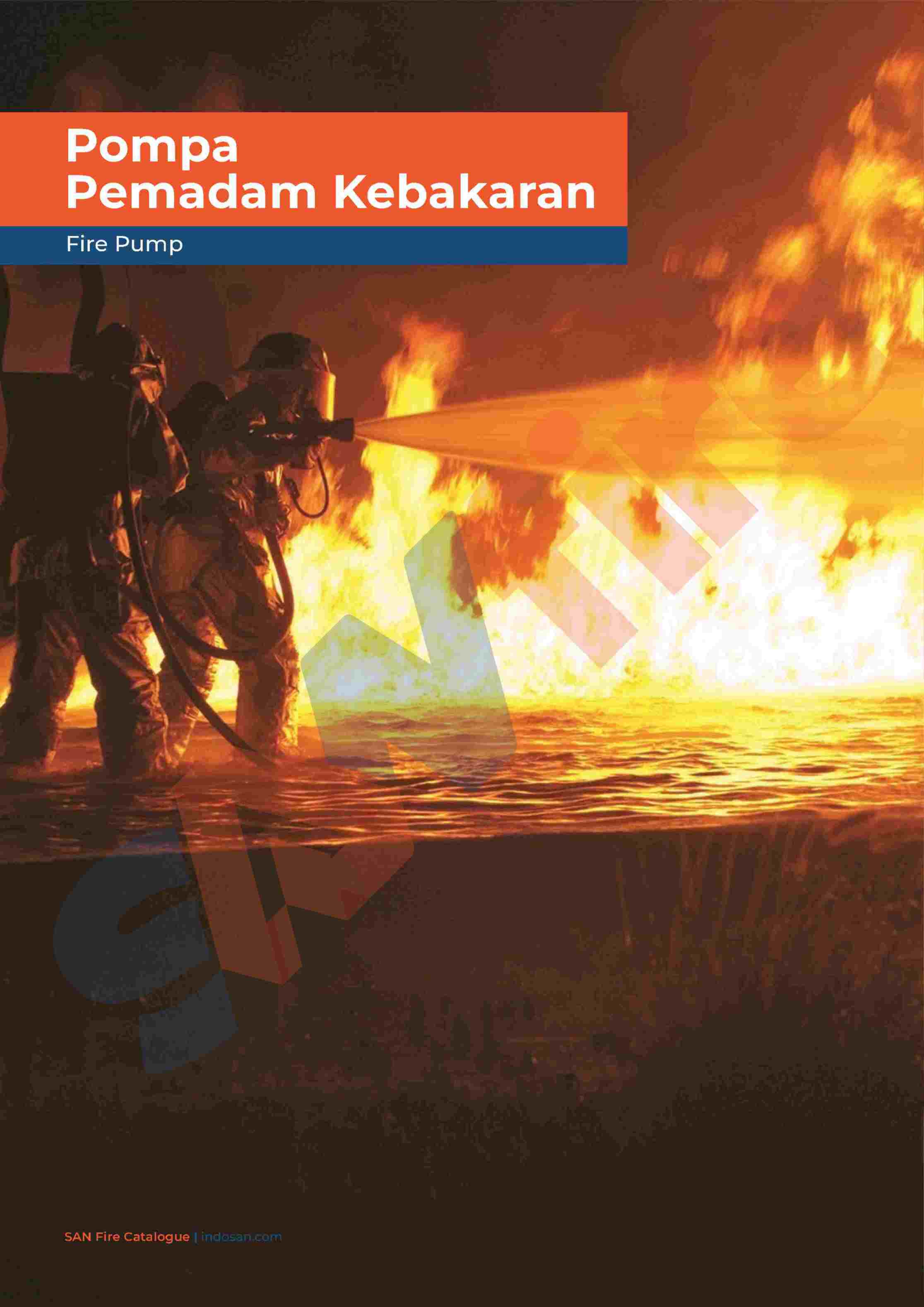
- Flow rate: 1250 GPM (4800 LPM)
- Operating Pressure: 200 psi (14 bar)
- Inlet: 3" Flange, 4" Flange, 6" Flange
- Outlet: 2-1/2" (65 mm)
- Vertical Travel: 140° from 85° above to 55° below horizontal
- Rotational Travel: 30° to 330° adjustable
- Material: Brass
- Finish: Red Powder Coating
- Weight: 41 kg





# Pompa Pemadam Kebakaran

Fire Pump





# High Pressure Pump

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## PFP-2HPHND-M

### Engine Specifications:

- GXH50 Honda air cooled engine
- Single cylinder, 4-stroke gasoline engine
- Recoil start
- 0.2 gallon (0.77L) integrated fuel tank

### Pump Specifications:

- Direct drive C.E.T single stage centrifugal pump
- Pump body made from resistant aluminum alloy
- Aluminum impeller
- Mechanical shaft seal
- Hand priming system: guaranteed up to 6' (2 m) lift (It is highly recommended to use a foot valve at the end of suction hose. It will be easier to prime the pump)
- One 1.5" (38 mm) delivery outlet with 1/4-turn ball valve
- One 1.5" (38 mm) suction inlet
- Dimensions: L 330 x W 419 x H 406 (mm)
- Weight : 14 kg

### Performance:

- Maximum flow : 85 GPM
- Max. pressure : 80 PSI
- 75 GPM @ 10 PSI
- 55 GPM @ 25 PSI
- 25 GPM @ 50 PSI



## PFP-6HPHND-EM-TW

### Engine Specifications:

- GX200 Honda air cooled engine
- Single cylinder, 4-stroke gasoline engine
- 12V electric start with recoil start as backup
- 0.8 gallon (3.1L) integrated fuel tank
- Charge coil 12V 3A

### Pump Specifications:

- C.E.T dual stage centrifugal pump
- Pump body made from aluminum
- Aluminum impeller
- Mechanical shaft seal
- Self priming system
- Two 1" (25 mm) delivery outlets and one 1.5" (38 mm) NPSH delivery outlet
- One 1.5" (38 mm) NPSH suction inlet
- Dimensions: L 620 x W 470 x H 410 (mm)
- Weight: 42 kg

### Performance:

- Maximum flow : 75 GPM
- Max. pressure : 140 PSI
- 70 GPM @ 10 PSI
- 65 GPM @ 50 PSI
- 45 GPM @ 100 PSI
- 35 GPM @ 125 PSI







## PFP-9HPHND-EM-TW

### Engine Specifications:

- GX270 Honda air cooled engine
- Single cylinder, 4-stroke gasoline engine
- 12V electric start with recoil start as backup
- 1.4 gallon (5.3L) integrated fuel tank
- Charge coil 12V 3A

### Pump Specifications:

- C.E.T. Dual stage centrifugal pump
- Pump body made from aluminum
- Aluminum impeller
- Mechanical shaft seal
- Self priming system
- Two 1" (25 mm) delivery outlets and one 1.5" (38 mm) NPSH delivery outlet
- One 1.5" (38 mm) NPSH suction inlet
- Dimensions: L 620 x W 480 x H 460 (mm)
- Weight: 56 kg

### Performance:

- 70 GPM @ 10 PSI
- 60 GPM @ 50 PSI
- 55 GPM @ 100 PSI
- 40 GPM @ 125 PSI

## PFP-11HPHND-EM-HP

### Engine Specifications:

- GX340 Honda air cooled engine
- Single cylinder, 4-stroke gasoline engine
- 12V electric start with recoil start as backup
- 1.6 gallon (6.1 l) integrated fuel tank

### Pump Specifications:

- Transmission drive C.E.T. single stage centrifugal pump
- Pump body made from resistant aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Exhaust priming system, guaranteed up to 20' (6 mtr) lift
- One 1 1/2" (38 mm) delivery outlet with 1/4-turn ball valve
- One 2 1/2" (65 mm) suction inlet
- Dimensions: L 609 mm; W 679 mm; H 606 mm
- Weight: 73 kg

### Performance:

- 70 GPM @ 10 PSI
- 60 GPM @ 50 PSI
- 55 GPM @ 100 PSI
- 40 GPM @ 125 PSI







## PFP-18HPVGD-HP

### Engine Specifications:

- Vanguard. model 3564
- Air cooled engine
- 2-cylinder, 4-stroke gasoline engine
- Electric start with recoil start as backup
- 6 gallon (22 l) detachable fuel tank

### Pump Specifications:

- Transmission drive C.E.T Single stage centrifugal pump
- Belt drive transmission
- Pump body made from high resistant aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Stainless steel pump shaft
- Exhaust priming system, guaranteed up to 20' (6 meter lift)
- One 1-1/2" (38mm) delivery outlet with Fire Type swing-out valve
- One 2-1/2" (65 mm) suction inlet
- Dimensions: L 700 x W 559 x H 610 (mm)
- Weight: 74 kg

### Performance:

- 115 GPM @ 50 PSI
- 100 GPM @ 100 PSI
- 70 GPM @ 150 PSI
- 45 GPM @ 200 PSI
- 20 GPM @ 250 PSI

## PFP-23HPVGD-HP

### Engine Specifications:

- Vanguard, model 380000
- Air cooled engine
- V-Twin cylinder, 4-stroke gasoline engine
- 12V electric start with recoil start as backup
- 6 gallon (22 l) detachable fuel tank

### Pump Specifications:

- Transmission drive C.E.T. single stage centrifugal pump
- Pump body made from resistant aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Stainless steel pump shaft
- Belt drive transmission
- Exhaust priming system, guaranteed up to 20' (6 mtr) lift
- One 1-1/2" delivery outlet with Fire Type swing-out valve
- One 2 1/2" (65 mm) suction inlet
- Dimensions: L 700 mm x W 560 x H 610 (mm)
- Weight: 75 kg

### Performance:

- 140 GPM @ 50 PSI
- 125 GPM @ 100 PSI
- 90 GPM @ 150 PSI
- 60 GPM @ 200 PSI
- 25 GPM @ 275 PSI





# High Volume Pump



## PFP-18HPVGD-1D

### Engine Specifications:

- Vanguard. model 3564, air cooled engine
- 2-cylinder, 4-stroke gasoline engine
- Electric start with recoil start as backup
- 6 gallon (22 l) detachable fuel tank

### Pump Specifications:

- C.E.T. single stage centrifugal pump
- Pump body made from high resistant aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Stainless steel pump shaft
- Exhaust priming system, guaranteed up to 20' (6 meter lift)
- One 2-1/2" (65mm) delivery outlet with Fire Type swing-out valve
- One 4" (100 mm) suction inlet
- Dimensions: L 700 x W 559 x H610 (mm)
- Weight: 78 kg

### Performance:

- 390 GPM @ 25 PSI
- 310 GPM @ 50 PSI
- 130 GPM @ 100 PSI
- 45 GPM @ 125 PSI

## PFP-20HPHND-2D

### Engine Specifications:

- GX630 Honda air cooled engine
- V-Twin cylinder, 4-stroke gasoline engine
- Electric start
- 6 gallon (22 l) detachable fuel tank

### Pump Specifications:

- C.E.T. single stage centrifugal pump
- Pump body made from high resistance aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Exhaust priming system, guaranteed up to 6 mtr lift
- Two 2 1/2" (65 mm) delivery outlet with 1/4-turn ball valve
- One 4" (100 mm) suction inlet
- Dimensions: L540 x W673 x 610 mm
- Weight: 90 kg

### Performance:

- MAX FLOW : 630 GPM
- MAX PRESSURE : 105 PSI
- 410 GPM @ 25 PSI
- 300 GPM @ 50 PSI
- 100 GPM @ 100 PSI







## PFP-23HPVGD-1D

### Engine Specifications:

- Vanguard, model 380000, air cooled engine
- V-Twin cylinder, 4-stroke gasoline engine
- Electric start with recoil start as backup
- 6 gallon (22 l) detachable fuel tank

### Pump Specifications:

- C.E.T. single stage centrifugal pump
- Pump body made from high resistance aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Exhaust priming system, guaranteed up to 20' (6 meter) lift
- One 2 1/2" (65 mm) delivery outlet with Fire Type swing-out valve
- One 4" (100 mm) suction inlet
- Dimensions: L540 x W673 x H610 mm
- Weight: 79,5 kg

### Performance:

- MAX FLOW : 550 GPM
- MAX PRESSURE : 115 PSI
- 455 GPM @ 25 PSI
- 350 GPM @ 50 PSI
- 160 GPM @ 100 PSI

## PFP-23HPVGD-2D-CE

### Engine Specifications:

- Vanguard, model 380000, air cooled engine
- V-Twin cylinder, 4-stroke gasoline engine
- Electric start with recoil start as backup
- 2.25 Gallons (8.5 L) integrated fuel tank

### Pump Specifications:

- C.E.T. Single stage centrifugal pump
- Pump body made from high resistance aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Exhaust priming system, guaranteed up to 6 mtr lift
- Two 2 1/2" (65 mm) delivery outlets with Fire Type swing-out valve
- One 4" (100 mm) suction inlet
- Dimensions: L630 x W667 x H654 mm
- Wet weight: 90 kg

### Performance:

- MAX FLOW: 650 GPM
- MAX PRESSURE: 115 PSI
- 430 GPM @ 25 PSI
- 310 GPM @ 50 PSI
- 110 GPM @ 100 PSI





# Mid Range Pump

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## PFP-14HPKHL-EM-MR

### Engine Specifications:

- CH440 Kohler air cooled engine
- Single cylinder, 4-stroke gasoline engine
- 12V electric start with recoil start as backup
- 1.8 gallon (7 l) integrated fuel tank
- 10 amp. charging system

### Pump Specifications:

- C.E.T. Single stage centrifugal pump, direct drive
- Pump body made from high resistance aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Exhaust priming system, guaranteed up to 24' (7.5 meter) lift
- One 1 1/2" (38 mm) delivery outlet with 1/4-turn ball valve
- One 2 1/2" (64 mm) suction inlet
- Dimensions: L 552 x W 673 x H 514 (mm)

Wet weight: 74 kg

### Performance:

- **MAX FLOW: 240 GPM**
- **MAX PRESSURE: 170 PSI**
- 205 GPM @ 25 PSI
- 175 GPM @ 50 PSI
- 115 GPM @ 100 PSI

## PFP-18HPVGD-MR

### Engine Specifications:

- 350000 Vanguard air cooled engine
- V-Twin cylinder, 4-stroke gasoline engine
- Electric start with recoil start as backup
- 6 gallon (22 l) detachable fuel tank

### Pump Specifications:

- C.E.T. Single stage centrifugal pump
- Pump body made from high resistance aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Exhaust priming system, guaranteed up to 20' (6 meter) lift
- One 1 1/2" (38mm) delivery outlet with Fire Type - swing-out valve
- One 2 1/2" (65mm) suction inlet
- Dimensions: L 575 x W 539 x H 625 (mm)
- Weight: 77 kg

### Performance:

- 255 GPM @ 25 PSI
- 220 GPM @ 50 PSI
- 140 GPM @ 100 PSI
- 75 GPM @ 150 PSI
- 30 GPM @ 175 PSI







## PFP-20HPKHL-MR

### Engine Specifications:

- CH640 Kohler air cooled engine
- V-Twin cylinder, 4-stroke gasoline engine
- Electric start with recoil start as backup
- 6 gallon (22 l) detachable fuel tank
- 20 amp. charging, regulated

### Pump Specifications:

- C.E.T. Single stage centrifugal pump
- Pump body made from high resistance aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Exhaust priming system, guaranteed up to 20' (6 meter) lift
- One 1 1/2" (38mm) delivery outlet with Fire Type swing-out valve
- One 2 1/2" (65mm) suction inlet
- Dimensions: L 700 x W 560 x H 610 (mm)
- Weight: 82 kg

### Performance:

- 265 GPM @ 50 PSI
- 190 GPM @ 100 PSI
- 140 GPM @ 150 PSI
- 60 GPM @ 200 PSI

## PFP-23HPVGD-MR

### Engine Specifications:

- Vanguard, model 380000, air cooled engine
- V-Twin cylinder, 4-stroke gasoline engine
- Electric start with recoil start as backup
- 6 gallon (22 l) detachable fuel tank

### Pump Specifications:

- C.E.T. Single stage centrifugal pump
- Pump body made from high resistance aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Exhaust priming system, guaranteed up to 20' (6 meter) lift
- One 1 1/2" (38mm) delivery outlet with Fire Type swing-out valve
- One 2 1/2" (65mm) suction inlet
- Dimensions: L 540 x W 673 x H 610 (mm)
- Weight: 75 kg

### Performance:

- **MAX FLOW: 300 GPM**
- **MAX PRESSURE: 250 PSI**
- 265 GPM @ 50 PSI
- 195 GPM @ 100 PSI
- 150 GPM @ 150 PSI
- 80 GPM @ 200 PSI





# Diesel Pump

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## PFP-10HP-DSL

### Engine Specifications:

- 1B40 Hatz air cooled engine
- Single-cylinder 4-stroke Diesel engine
- EPA TIER IV and CARB TIER IV compliant
- 12V electric start with recoil & recoil start as backup
- 1.32 gallons (5l) integrated fuel tank

### Pump Specifications:

- Direct drive C.E.T. single stage centrifugal pump
- Pump body made from resistant aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Exhaust priming system, guaranteed up to 20' (6 meter) lift
- One 2 1/2" (65 mm) delivery outlet with Fire Type swing-out valve
- One 2 1/2" (65 mm) suction inlet
- Dimensions: L 592 x W 521 x H 584 (mm)
- Weight: 84 kg

### Performance:

- 250 GPM @ 10 PSI
- 230 GPM @ 25 PSI
- 165 GPM @ 50 PSI
- 115 GPM @ 75 PSI
- 70 GPM @ 85 PSI

## PFP-21HP-DSL-MR

### Engine Specifications:

- D722 Kubota liquid cooled engine
- 3-cylinder, 4-stroke diesel engine
- 12V electric start
- Alternator capacity: 12V-12.5A (150W)

### Pump Specifications:

- C.E.T. Single stage centrifugal pump
- Pump body made from salt water resistant aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Stainless steel pump shaft
- Exhaust priming system, guaranteed up to 15' (4.6 mtr) lift
- One 1 1/2" delivery outlet with Fire Type swing-out valve
- One 2 1/2" suction inlet
- Dimensions: L813 x W686 x H838 mm
- Wet weight: 148 kg

### Performance:

- MAX FLOW : 250 GPM
- MAX PRESSURE : 190 PSI
- 230 GPM @ 50 PSI
- 165 GPM @ 100 PSI
- 110 GPM @ 150 PSI







## PFP-25HP-DSL-MR

### Engine Specifications:

- D902 Kubota liquid cooled engine
- 3-cylinder, 4-stroke diesel engine
- Electric start
- 6 gallon (22 l) detachable fuel tank
- Alternator 12V - 40A

### Pump Specifications:

- C.E.T. single stage centrifugal pump
- Pump body made from high resistance aluminum alloy
- Bronze impellers
- Mechanical shaft seal
- Stainless steel pump shaft
- Electric priming system, guaranteed up to 20' (6 meter) lift
- One 1 1/2" delivery outlet with Fire Type swing-out valve
- One 2 1/2" suction inlet
- Dimensions: L 787 x W660 x H800 mm
- Wet weight: 163 kg

### Performance:

- 315 GPM @ 10 PSI
- 300 GPM @ 50 PSI
- 230 GPM @ 100 PSI
- 145 GPM @ 150 PSI
- 105 GPM @ 175 PSI





# Floating Pump

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## PFP-6HP-FL

### Engine Specifications:

- FJ180V Kawasaki air cooled engine
- Single cylinder, 4-stroke gasoline engine
- Manual recoil start
- 0.3 gallon (1.8 l) integrated fuel tank

### C.E.T Pump Specifications:

- Direct drive C.E.T. single stage centrifugal pump
- Pump body made from resistant aluminum alloy
- Aluminum impeller
- Self priming system
- Need only 1" deep of water
- One 2 1/2" (65 mm) delivery outlet
- One 3" (77 mm) suction inlet
- Light weight heavy duty floater
- Detachable floater
- Dimensions: L 794 x W 648 x H482 (mm)
- Weight: 29 kg

### Performance:

- 200 GPM @ 5 PSI
- 170 GPM @ 10 PSI
- 105 GPM @ 20 PSI
- 50 GPM @ 30 PSI

## PFP-13HPHND-FL

### Engine Specifications:

- GXV 390 Honda air cooled engine
- Single cylinder, 4-stroke gasoline engine
- Manual recoil start
- 2.2 quarts (2.1 l) integrated fuel tank

### Pump Specifications:

- Direct drive C.E.T. single stage centrifugal pump
- Pump body made from resistant aluminum alloy
- Bronze impeller
- Mechanical shaft seal
- Self priming system
- One 2 1/2" (65 mm) delivery outlet
- One 3" (77 mm) suction inlet floater
- Light weight heavy duty floater
- Dimensions: L819 x W762 x H561 mm

Weight: 57 kg

### Performance:

- 200 GPM @ 5 PSI
- 170 GPM @ 10 PSI
- 105 GPM @ 20 PSI
- 50 GPM @ 30 PSI





# Foam System

## Compressed Air Foam System (CAFS)

### Engine Specifications:

- 27 hp Kohler gas engine at 3600 RPM
- 2 cylinders, 4 stroke, air-cooled
- 20 amp. alternator

### Pump Specifications:

- 175 gpm @ 100 psi
- Max. flow 225 gpm
- Max. pressure 145 psi
- Single-stage centrifugal pump
- Aluminum case with bronze impeller
- Direct drive
- Stainless steel piping

### Compressor:

- Oil-injected piston-type
- 35 cfm @ 125 psi
- Water-cooled heads system
- Compressed air is cooled w/ water cooler
- Belt drive

### CAFS System:

- NFPA 125 gpm & 35 cfm @ 125 psi
- 4 outlet discharges 1" or 1-1/2"
- Automatic balancing system
- 1" tank fill line
- 2-1/2" tank to pump, 2-1/2" intake
- Air service line

### Specifications:

- Dimensions: 850L x 110W x 65H mm
- Weight: 294 kg





# Manual Backpack Pump

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## Backpack Pump MBK 19

### Specifications:

- Made of rib stop type PVC Material
- Complete with chrome plated brass water spray
- 19 Liter capacity
- Nozzle works simultaneously back and forth without stopping when spraying
- Safe and strong backpack

## Backpack Pump SANFire 20 ltr

### Engine Specifications:

- Terbuat dari bahan PVC type rib stop
- Lengkap dengan unit penyemprot air dari brass yang dilapisi chrome
- Kapasitas : 20 liter
- Backpack yang aman dan kuat
- Berat  $\pm 2$  kg





# Backpack Pump

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## Backpack Pump 2 HP

### Engine Specifications:

- GXH50 Honda air cooled engine
- Single cylinder, 4-stroke gasoline engine
- Recoil start
- 0.2 gallon (0.77 L) integrated fuel tank

### Pump Specifications:

- Direct drive C.E.T single stage centrifugal pump
- Pump body made from resistant aluminum alloy
- Aluminum impeller
- Mechanical shaft seal
- Hand priming system: guaranteed up to 6' (2 m) lift (It is highly recommended to use a foot valve at the end of suction hose. It will be easier to prime the pump)
- One 1.5" (38 mm) delivery outlet with 1/4-turn ball valve
- One 1.5" (38 mm) suction inlet
- Dimensions : L 330 x W 419 x H 406 (mm)
- Weight : 14 kg

### Performance:

- Maximum flow : 85 GPM
- Max. pressure : 80 PSI
- 75 GPM @ 10 PSI
- 55 GPM @ 25 PSI
- 25 GPM @ 50 PSI

## Knapsack Blower Foam

### Engine Specifications:

- Engine type: Two stroke gasoline engine
- Engine power: 6 HP (4.5Kw)
- Fuel tank volume: 2 L
- Air duct outlet flow: 0.4m<sup>3</sup>/s
- Max flow: 180 lpm (47 gpm)
- Working pressure range: 4 - 12 bar
- Continuous work time: 50 Min
- Foam proportioning: Venturi
- Foam tank volume: 8 ltr (1% Class A foam liquid)
- Throw water: 25 m
- Throw foam: 22 m
- Weight: 18.5 Kg

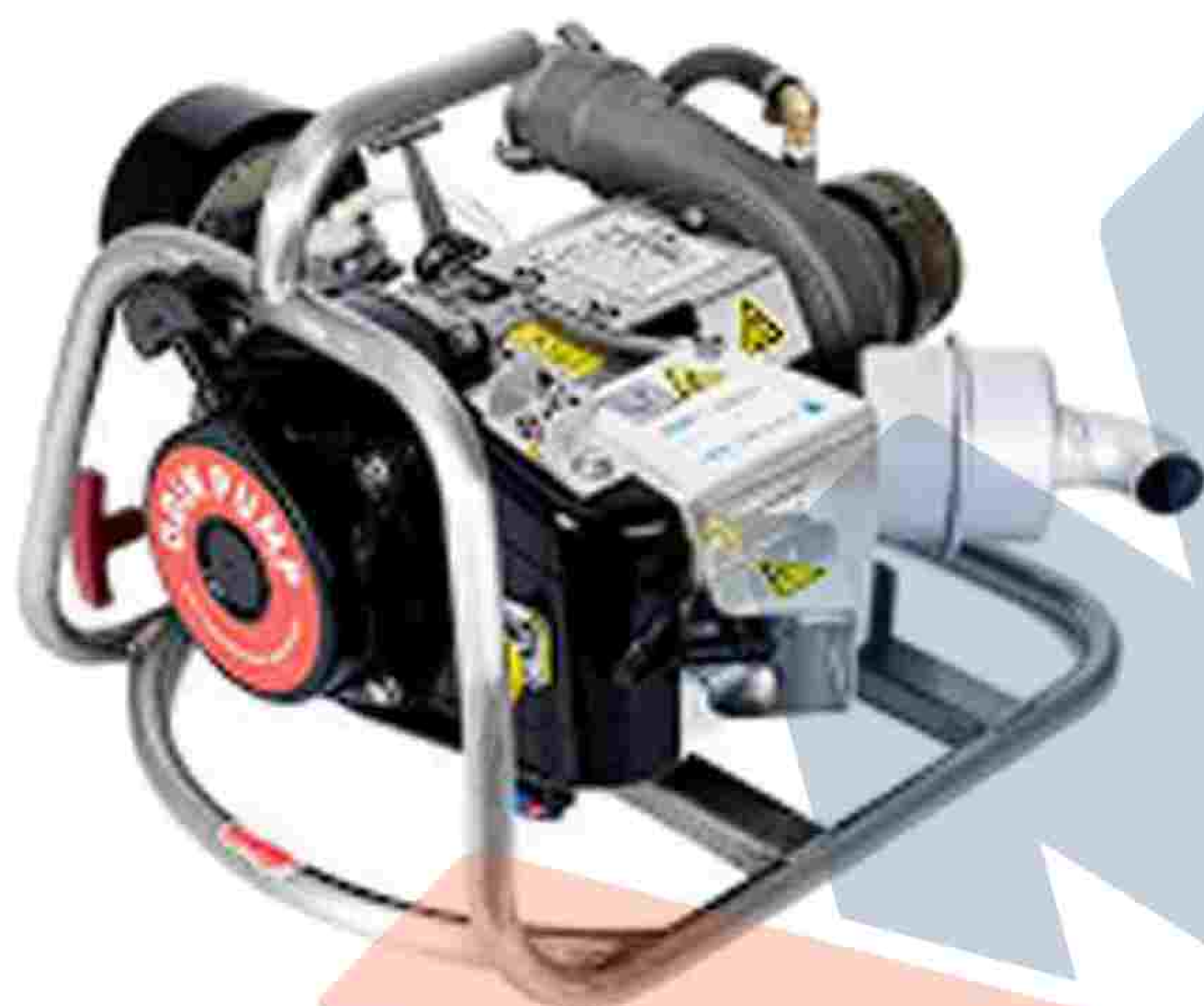
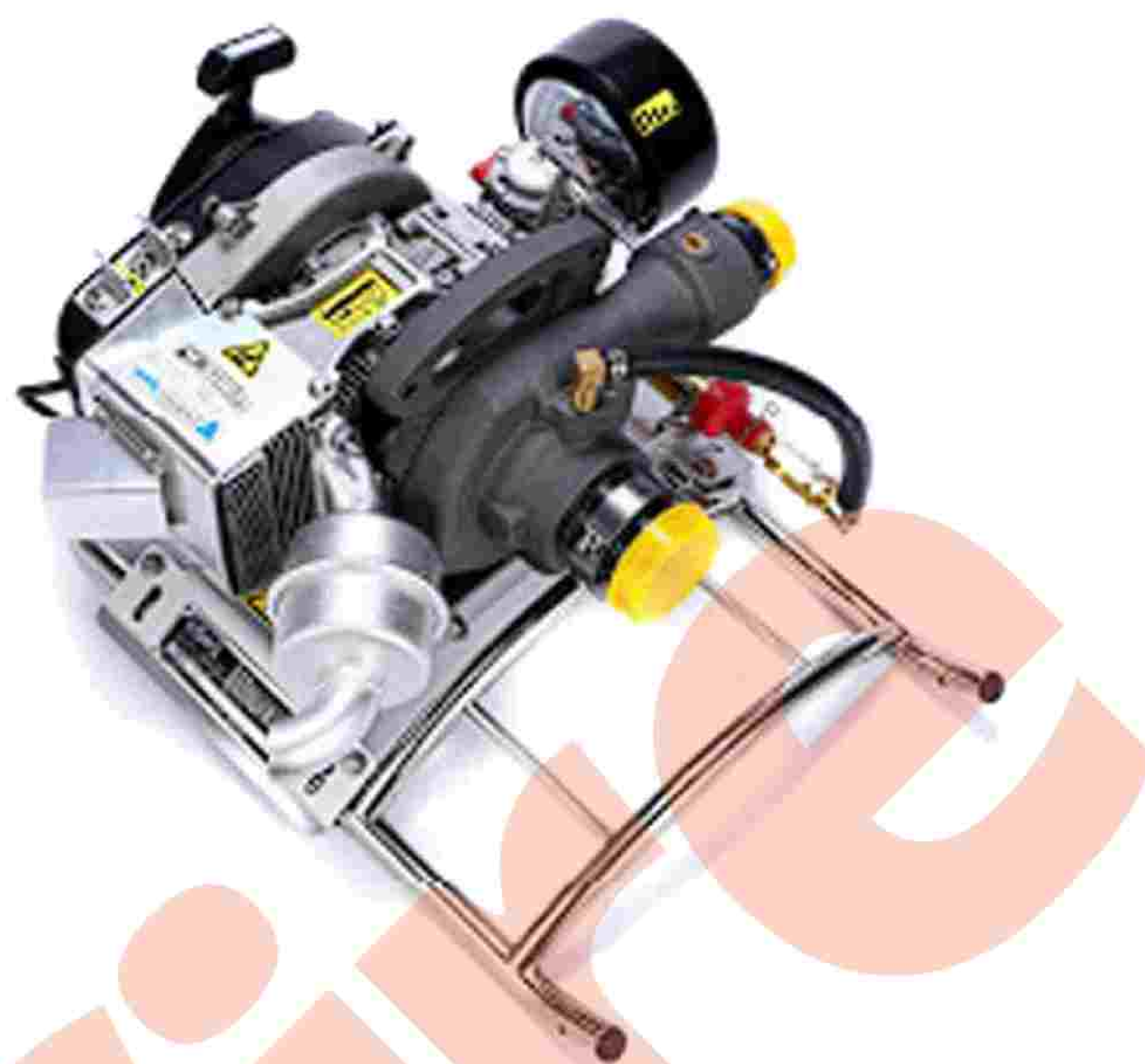




## Backpack Pump 8HP

### Specifications:

- Connections: Suction: 2 " Male BSP
- Discharge: 1.5" Male BSP
- Compact hand operated
- Anodized aluminum alloy
- Priming: Hand Priming provided
- Rated performance: 198L/min@0.7MPa at 1.6m lift
- Max flow: 330 L/min
- Max pressure: 1.63MPa
- Engine: 8 HP, Forced air
- Starting the engine: Electric and recoil starting
- Mini starter: 8500mAh (31.45Wh)
- Fuel Tank 12 liters (3.2Gallons)



## Backpack Pump 9 HP

### Specifications:

- Suction Inlet: 2,5" Inch Male BSP
- Discharge: 1.5" Female BSP
- Priming: Priming pump provided
- Compact hand operated
- Anodized aluminum alloy
- Rated performance: 6.7 L/s@0.4 MPa at 3.0m lift
- Max flow: 550 L/min
- Max pressure: 1.0MPa
- Engine: 9HP, Forced air
- Starting the engine: Electric and recoil starting
- Fuel Tank 12 liters (3.2Gallons)

## Backpack Pump 10 HP

### Specifications:

- Connections: Suction: 2 " Male BSP
- Discharge: 1.5" Male BSP
- Priming: priming pump provided
- Compact hand operated
- Anodized aluminum alloy
- Rated performance: 180L/min@0.7MPa at 3.0m lift
- Max flow: 270 L/min
- Max pressure: 1.8 MPa
- Engine: 10 HP, Forced air
- Starting the engine: Electric and recoil starting
- Mini starter: 8500mAh (31.45Wh)
- Fuel Tank 12 liters (3.2Gallons)





# Submersible Pump



**Stainless Steel Finished**



**Inner View**



**Iron Cast Finished**

## **80WQ50-18-5.5**

### **Specifications:**

- Motor power: 5.5 KW
- Casing: Cast iron
- Impeller: Stainless steel
- Speed: 2850 rpm
- Voltage: 380 V
- Current: 10.7 A
- Frequency: 50hz, 3 phase
- Outlet: 80 mm
- Lift: 18 m
- Flow: 50m<sup>3</sup>/h

## **80WQ50-18-5.5S**

### **Specifications:**

- Motor power: 5.5 KW
- Casing: Stainless steel
- Impeller: Stainless steel
- Speed: 2850 rpm
- Voltage: 380 V
- Current: 10.7 A
- Frequency: 50hz, 3 phase
- Outlet: 80 mm
- Lift: 18 m
- Flow: 50m<sup>3</sup>/h

## **100WQ80-25-11**

### **Specifications:**

- Motor power: 11KW
- Casing: Cast iron
- Impeller: Stainless steel
- Speed: 2850 rpm
- Voltage: 380 V
- Current: 20.9 A
- Frequency: 50hz, 3 phase
- Outlet: 100 mm
- Lift: 25 m
- Flow: 80m<sup>3</sup>/h

## **100WQ80-25-11S**

### **Specifications:**

- Motor power: 11KW
- Casing: Stainless steel
- Impeller: Stainless steel
- Speed: 2850 rpm
- Voltage: 380 V
- Current: 20.9 A
- Frequency: 50hz, 3 phase
- Outlet: 100 mm
- Lift: 25 m
- Flow: 80m<sup>3</sup>/h



# Water Transfer Pump



**WP-30-E**



**WP-30**



**WPD-30E**



**WPD-30**



## **WP-30-E**

### **Specifications:**

- Fuel: Gasoline
- Outlet: 2.5"
- Inlet: 3"
- Suction: 8 m
- Flow: 50m<sup>3</sup>/h
- Lift: 35 m
- Speed: 3600 rpm
- Power: 4 KW / 5.5 HP
- Electrical starter
- Weight: 26 Kg

## **WP-30**

### **Specifications:**

- Fuel: Gasoline
- Outlet: 2.5"
- Inlet: 3"
- Suction: 8 m
- Flow: 50m<sup>3</sup>/h
- Lift: 35 m
- Speed: 3600 rpm
- Power: 4 KW / 5.5 HP
- Manual starter
- Weight: 23 Kg

## **WPD-30E**

### **Specifications:**

- Fuel: Diesel
- Outlet: 3"
- Inlet: 3"
- Suction: 8 m
- Flow: 50m<sup>3</sup>/h
- Lift: 20 m
- Speed: 3000 rpm
- Power: 3 KW / 4 HP
- Electrical starter
- Weight: 26 Kg

## **WPD-30**

### **Specifications:**

- Fuel: Diesel
- Outlet: 3"
- Inlet: 3"
- Suction: 8 m
- Flow: 50m<sup>3</sup>/h
- Lift: 20 m
- Speed: 3000 rpm
- Power: 3 KW / 4 HP
- Manual starter
- Weight: 23 Kg



# Hidran Pemadam Kebakaran

Fire Hydrant





# Hydrant Pillar



## High Pressure Hydrant Pillar

### Specifications:

- Body material made from carbon steel
- Optional with PRV
- Finishing RED RAL-3000
- Corrosion resistant protection by Marine Coating
- Outlet 2x2,5" or 3x2,5" or 4x2,5"
- Coupling Machino, NHT, BS336-Instantaneous, Storz, Van Der Heyden, etc
- Pumper Outlet (Optional) 1x4" NHT
- Inlet (Optional) 4" - 10" ( JIS Flange, ANSI RF Flange, Table-E Flange, etc )

### Performance:

- Working pressure: 20 Bar



## Iron Cast Hydrant Pillar

### Specifications:

- Material Cast Iron
- Inlet ANSI 150 dia 4" (Flange) / JIS
- Outlet Machino / NHT / BIC / Storz c/w cap and Chain size 1,5" / 2" / 2,5"
- As Main Valve Stainless 304
- As ball valve dan ball valve kuningan
- Rantai stainless 304
- Flnishing Powder Coating Red Fire (RAL 3000)

### Performance:

- Working pressure: 12 Bar
- Test pressure: 16 Bar



## Medium Pressure Hydrant Pillar

### Specifications:

- Body material made from carbon steel
- Inlet ANSI 150 dia 4" (Flange) / JIS
- Outlet Machino / NHT / BIC / Storz c/w cap and Chain size 1,5 / 2 / 2,5"
- As Main valve stainless 304
- As ball valve dan brass ball valve
- Rantai stainless 304
- Logo stainless 304
- Finishing Powder Coating Red Fire (Ral 3000)

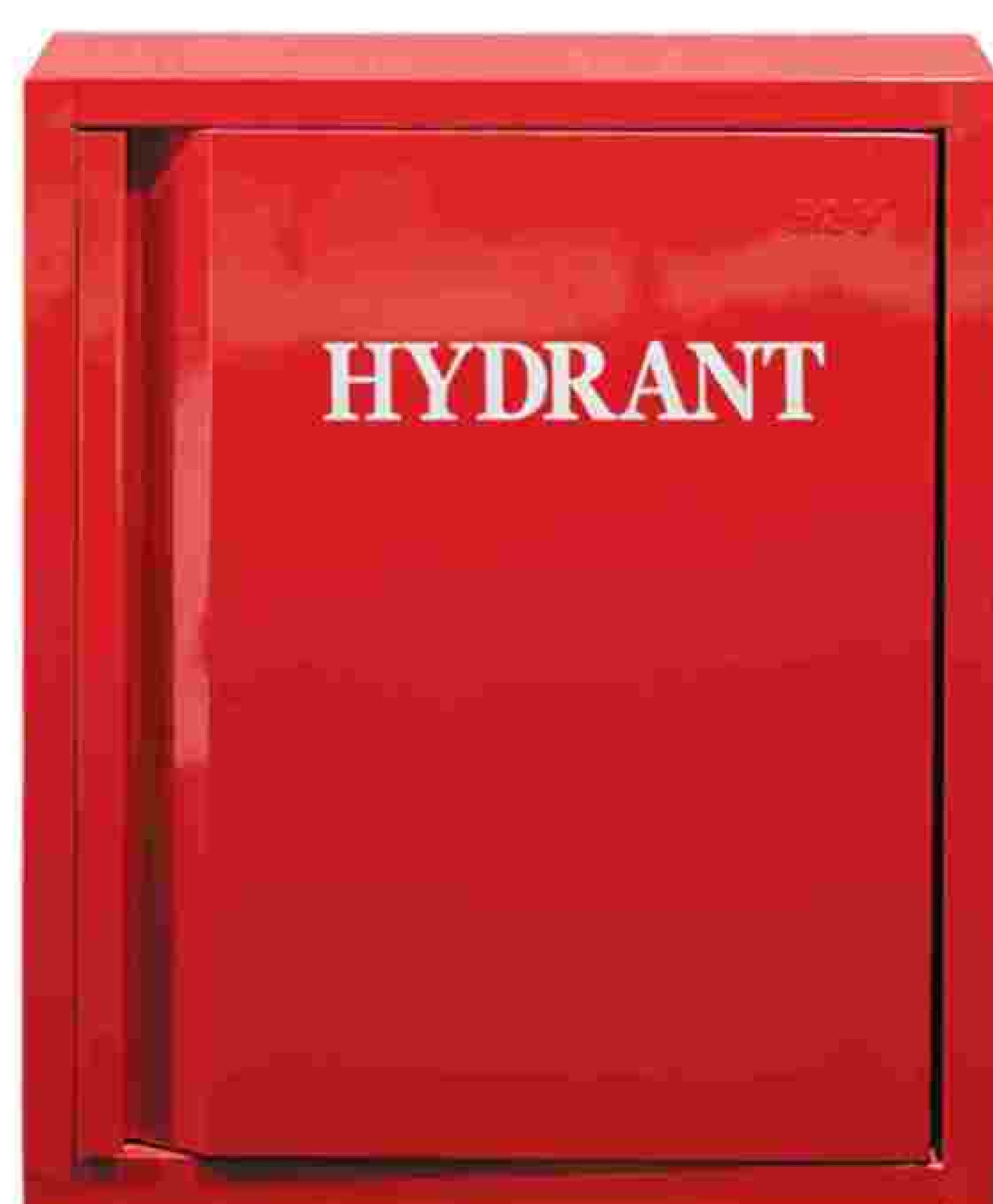
### Performance:

- Working pressure: 16 Bar
- Test pressure: 24 Bar

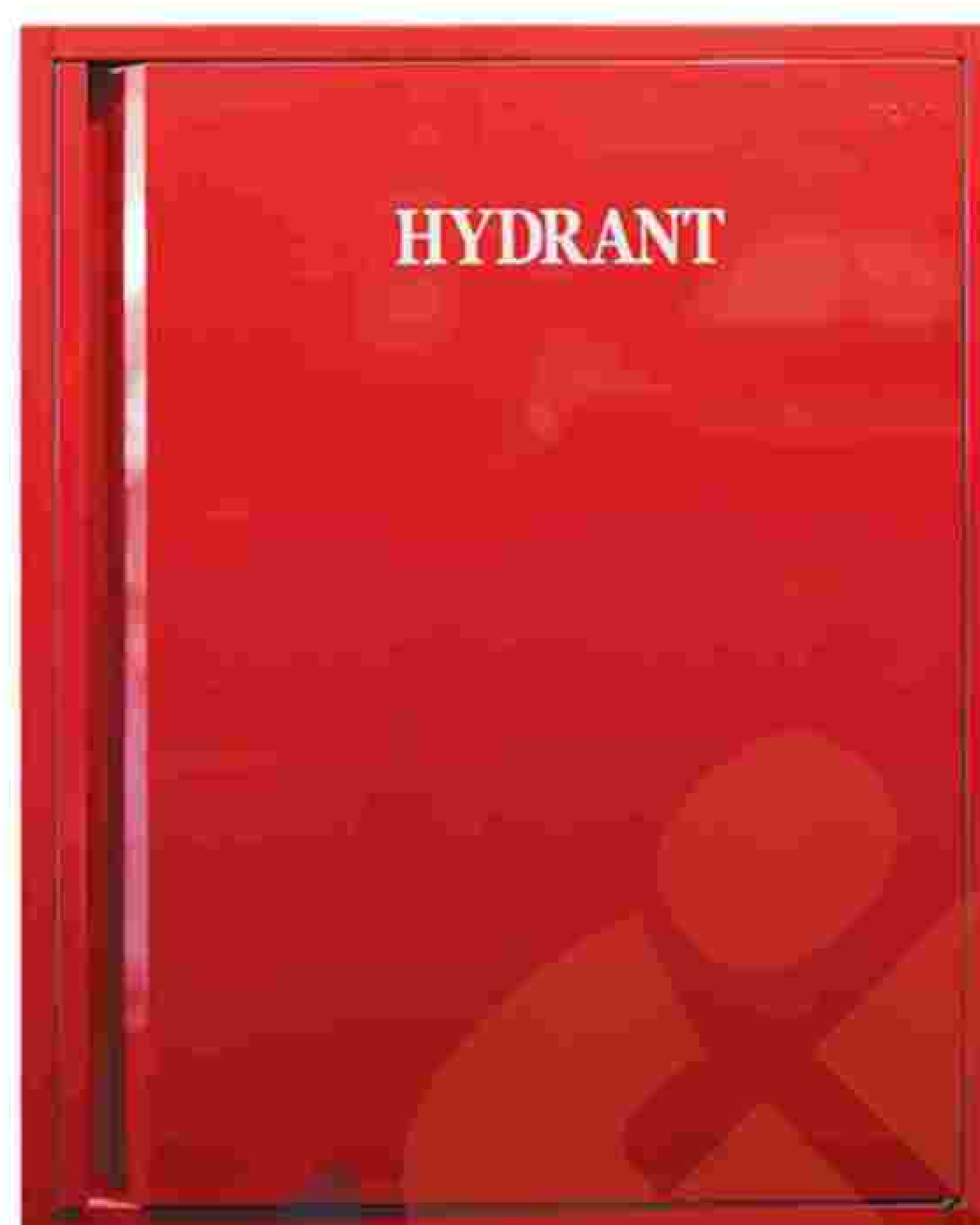


# Hydrant Box

**Box A1 Indoor**  
660 x 520 x 150



**Box A2 Indoor**  
1000 x 800 x 180



**Box B Indoor**  
1250 x 750 x 180

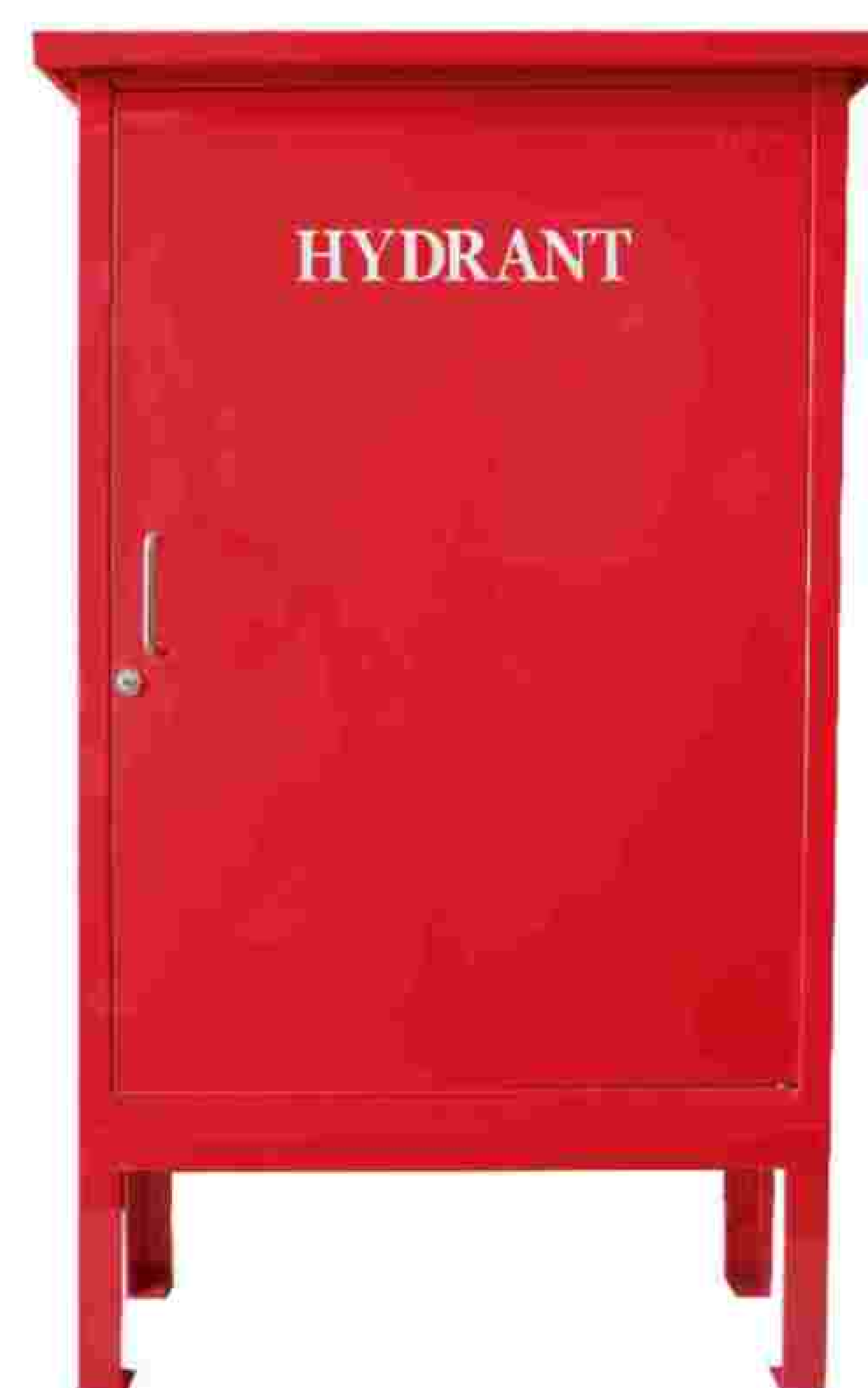


## Specifications:

- Mild steel materials
- Plate thickness: 1.2 mm
- Glass in front facing is optional
- RAL 3000 gloss finishing



**Box C Outdoor**  
950 x 660 x 200





# Hydrant Accesories



## Hydrant Valve

### Specifications:

- Brass chrome plated material
- Type Valve : Screw Down Valve
- Working pressure: 12 Bar
- Hydrostatic pressure : 16 Bar
- Test pressure : 26 Bar
- Valve size: 1,5" & 2,5"
- Inlet : 2,5 Female BSP Option Flange type ANSI
- Outlet : Machino, NHT, BS336-Instantaneous, Storz, Van Der Heyden, etc)



## Breeching Dividing PR

### Specifications:

- Lightweight and stainless aluminum alloy material
- Working pressure: 12 Bar
- Heavy duty designed
- Easy operation event at high flows
- Minimal friction loss
- Used to divide single flows
- Inlet 1,5, 2,5, or etc
- Outlet 1,5, 2,5 c/w coupling
- Finishing : Red

## Breeching Dividing MF

### Options:

- Y Connector 2,5 x 1,5 + 1,5
- Y Connector 2,5 x 2,5 + 2,5
- Y Connector 1,5 x 1,5 + 1,5

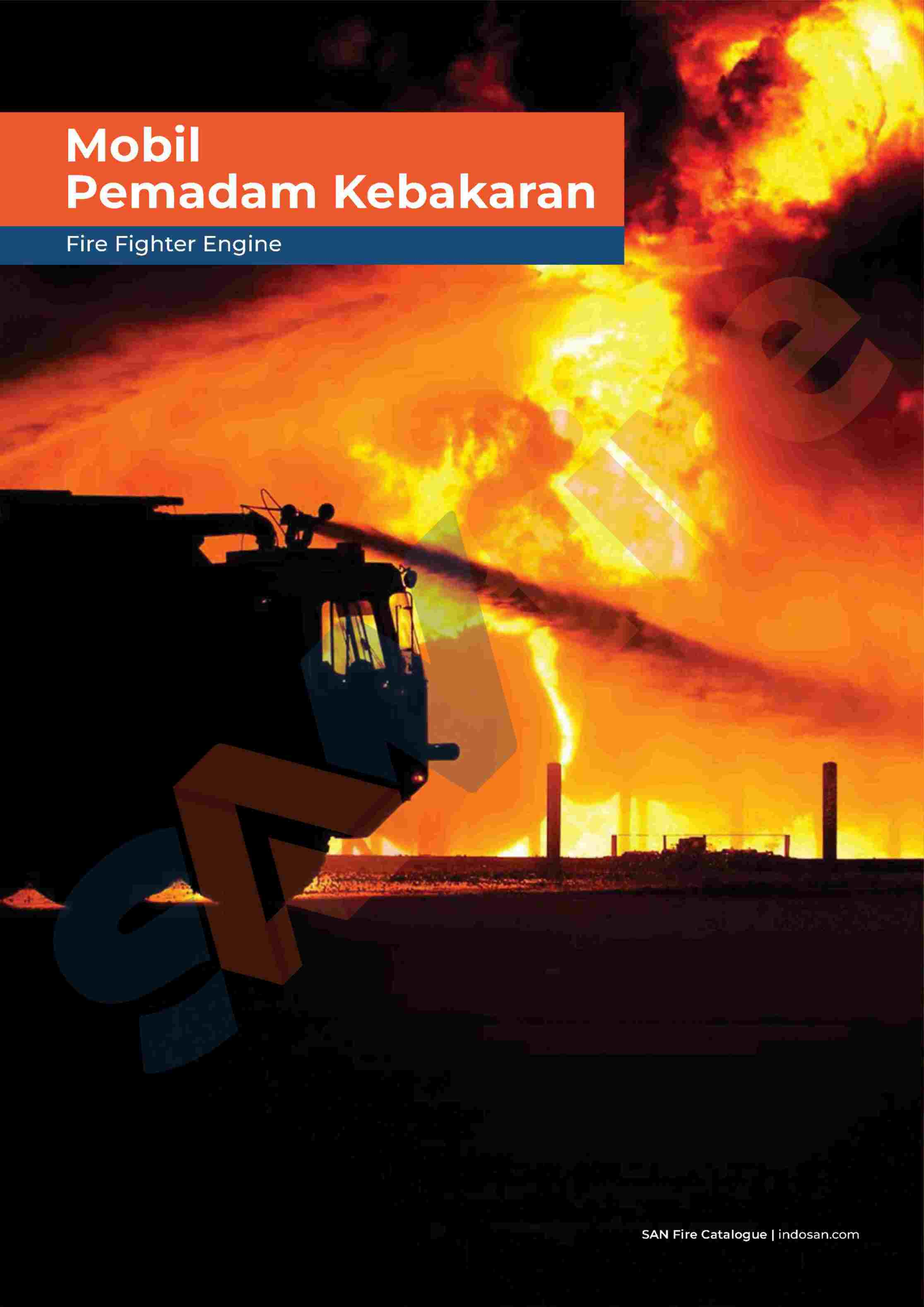
### Specifications:

- Terbuat dari Aluminium alloy casting yang tahan karat
- Easy operation event at high flow
- Didesain untuk penggunaan heavy duty
- Outlet adapter dirancang untuk memungkinkan penggunaan seal dengan mudah
- Inlet 2,5" F & Outlet 2 X 1,5 M
- Mempunyai Friction Loss yang rendah
- Bisa digunakan untuk single flow
- Finishing cat: Red



# Mobil Pemadam Kebakaran

Fire Fighter Engine





# Fire Truck

Our fire truck is the ultimate safety companion, designed to respond swiftly to emergencies and protect lives. With cutting-edge technology and expert craftsmanship, our fire truck ensures optimal performance and reliability. Count on us for a firefighting solution that's ready to tackle any challenge, empowering fire departments to safeguard their communities effectively."



**Three Wheel**  
Remote Area Fire Rescue



**Forestry Fire Rescue**  
Off-road Transportation

**Three Wheel**  
Fire Rescue



**CAFS Truck**



**Forestry Fire Rescue**  
Off-road Transportation





**Fire Jeep**  
Fire Fighter Engine



**Fire Jeep 500 ltr**  
With Portable Pump



**Rescue Fire Truck**



**Fire Jeep 500 ltr**  
With PTO Pump



**Airport Support**  
Fire Truck



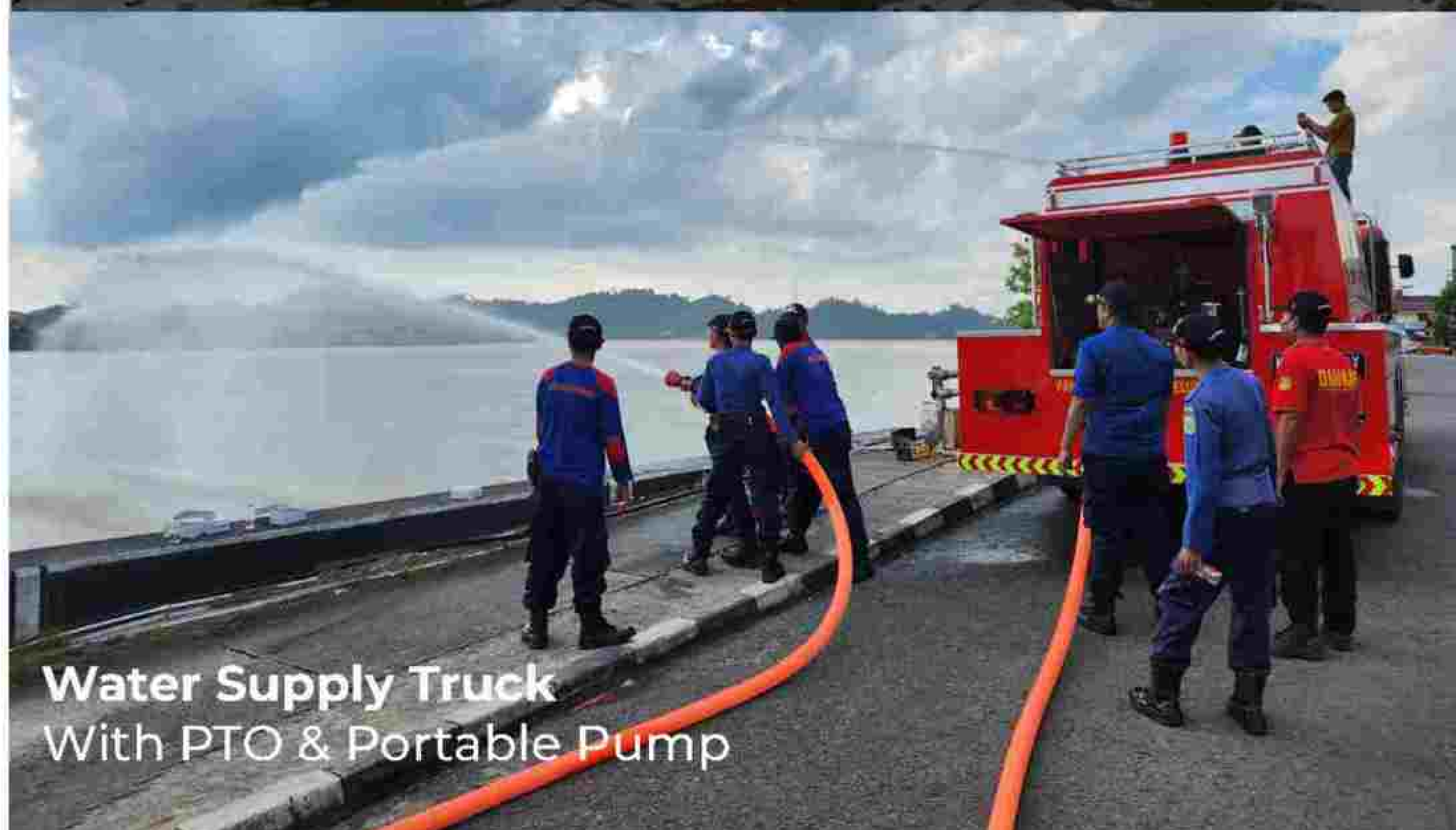
**Water Supply Unit 4000 Ltr**  
With Portable Pump



**Water Supply Truck**  
Fire Truck



**Water Supply Truck**  
With PTO & Portable Pump





# Foam Trailer



## Single Tote Foam Trailer

### Trailer Specifications:

- Heavy duty steel trailer w/steel floor
- Trailer to be painted red
- Plate form trailer dimension to be 8' long x 4' between the fenders
- Tandem axles : 7,000 lbs
- Electric brake
- 7 Pins trailer plug
- Sealed DOT LED lights
- 2-5/16" ball attachment assembly
- Front jack w/7,000 lbs. capacity
- Two (2) rear 5 000 lbs. swivel downrigger stabilizers
- Two (2) Steps, one each side, located on the front of each fender

### Foam Tote Specifications:

- The foam tote tank shall contain 265 (or 330) gallons of foam concentrate
- Measuring 48" x 40" x 46" high and shall be UV protected.
- The tote shall have two (2) opening: one (1) 6" on the top with cap and one (1) 2" ball valve outlet at the bottom
- The tote shall have a pressure/vacuum vent on the top
- The tote shall be protected by a tubular steel grid.
- The tote shall be DOT approved.
- 4" Water Manifold
- Trailer Mounted Monitor
- Two (2) Hose Trays



## Dual Tote Foam Trailer

### Trailer Specifications:

- Heavy duty steel trailer w/steel floor
- Trailer to be painted red
- Plate form trailer dimension to be 11' long x 5' between the fenders
- Tandem axles : 7,000 lbs
- Electric brake
- 7 Pins trailer plug
- Sealed DOT LED lights
- 2-5/16" ball attachment assembly
- Front jack w/7,000 lbs. capacity
- Two rear 5 000 lbs. swivel downrigger stabilizers
- Two Steps, one each side, located on the front of each fender

### Foam Tote Specifications:

- Two foam tote tanks shall contain 275 gallons of foam concentrate each
- Measuring 48" x 40" x 46" high each and shall be UV protected
- Each tote shall have two (2) opening: One (1) 6" on the top with cap and one (1) 2" ball valve outlet at the bottom
- Each tote shall have a pressure/vacuum vent on the top
- Each tote shall be protected by a tubular steel grid.
- Each tote shall be DOT approved
- There shall have a 1-1/2" stainless steel rigid tube from the totes to the front of the trailer
- The foam concentrate manifold shall be made with a 2-1/2" stainless-steel square tube and shall be connected to the foam totes piping
- 4" Water Manifold
- Trailer Mounted Monitor
- Two (2) Poly Hose Trays



## 500 gallon foam trailer

### Trailer Specifications:

- Size: Not to exceed (approx.) 220" long, 96" wide, 80" high when measured from surface
- Axles: Tandem 6,000 pounds axles are to be used on the trailer
- Tires and Wheels: Minimum 8 14.5 LT 12 ply tires with a capacity of 2,790 lbs. each at 100 PSI. Wheels shall be 14.5 x 6 rated at 2,790 lbs. each.
- Stands: Three heavy-duty 2,000 pound crank-down detachable type stands shall be mounted to provide support during stand alone trailer operations.
- Lights: Dual 6" red (LED) flashing warning lights

### Foam Tote Specifications:

- Size: 500 gallon PolymarCo-PP propylene foam tank.
- Low center of gravity type with adequate baffles
- Gauge: Clear visual liquid level site gauge convenient to operator's area at the rear and front of the trailer
- Fill Tower: 24" x 13" x 7" high tower with hinged liquid tight cover that will prevent foam concentrate from splashing out of the fill tank during movement and provides for reverse filling to control agitation
- Vent: pressure/vacuum vent shall be installed into the foam fill tower.
- Drain: A 1.5" NST-F valved drain shall be plumbed off the sump.
- A cap and chain shall be provided. Outlet shall terminate behind wheel on street side of trailer.



## 1000 gallon foam trailer

### Trailer Specifications:

- Heavy Duty Steel trailer w/steel floor
- Plate form trailer dimension to be 19' long x 6' between the two fenders
- Rear tandem axles : 16,000 lb
- Each wheel shall have an electric brake
- 7 Pins trailer plug
- Sealed DOT lights
- 3" adjustable pintle attachment assembly
- 12,000 lb. Safety Chains with Break-Away wire for electric breaks.
- Front jack w/12,000# capacity
- Two (2) rear downrigger stabilizers
- Four (4) 16 in all seasons tires

### Foam Tote Specifications:

- There shall be two (2) foam tanks integrated in the same tank on the trailer
- Each foam tank shall be constructed of PT2E polypropylene sheet
- The material shall be of a certified, high quality, non-corrosive, stress relieved thermo plastic, black in color with a textured finish, and UV stabilized for maximum protection
- There shall be a standard 2" in width, 70% transparent sight gauge on both foam tanks
- There shall be a gauge on the front of both tanks





# Drop-in Unit



## Pump Specifications:

- 225 fully baffled propylene water tank
- 20hp mid range fire pump powered by Honda engine
- 3 gallon fuel tank
- Lighted control panel
- 2.5 inch tank to pump 1/4 turn ball valve
- Steel manifold with multiple outlets
- 1.5 inch service line with cap and chain

## Performance:

- 265 GPM @ 50psi
- 190 GPM @ 100psi
- 115 GPM @ 150psi
- 45 GPM @ 200psi







# Perangkat Petugas Pemadam

Fireman Equipment



# Fireman Suit



## Proximity Suit

### Specifications:

- Consist of outer layer, waterproof layer, heat insulation layer, and comfortable layer
- Good flame resistance, heat insulation, light material, good flexibility
- High temperature resistance, flame retardant, heat radiation protection, effective prevent the splash of high temperature steam
- Outer material conform to the NFPA 1971 standard
- Comfort layer is made of aramid viscose blended lining material
- Thermal stability of outer material: Shrinkage rate is not more than 1%
- Thermal stability of inner material: Shrinkage rate 1%
- Joint strength: 600 N
- Suit construction: Z-flex Silver P-202 Alumunized outer shell
- Ensemble include: Jacket, pants, hood, gloves, boots
- In 1100OC fire field the rising temperature of clothing in lower than 15°C within 30 sec

## Aluminized Fireproof Suit

### Specifications:

- Outer layer: Kevlar + aluminum coated
- Thermal layer: Aramid retardant insulation mat
- Comfortable layer: Lining natural fiber fabric
- Accesory: Hood, jacket. SCBA backpack. pants, gloves,insulated shoes
- Heat resistant: 1000 degree celcius radiation
- Flame retardant property
- Visor material: PES + silicon oxide / silver coating, 3mm thickness
- Inside helmet: HDPE
- Weight: 4.2kg

### Certification:

- EN 1486:200







## Fireman Suit Nomex

### Specifications:

- Structure 4 layers
- Outer layer: NomexIIIA  
(93%Nomex /5% Kevlar/2%P140) 205g/m<sup>2</sup> ripstop
- Moisture Layer: Aramid non woven + PTFE 108g/m<sup>2</sup>
- Thermal lining: 80% Nomex + 20% Kevlar 75g/m<sup>2</sup>  
quitted to 50% Nomex/50% FR Vicose 120 g/m<sup>2</sup>
- 3M reflective stripe, metal zipper, flame retardant vel-  
cros, aramid thread
- Elbow & knees: Kevlar with black flame retardant PU  
coating, 360 g/m<sup>2</sup>
- Certificate: EN469:2005, Level2,Xf2, Xr2, Y2, Z2
- TPP Value: 34 cal/cm<sup>2</sup>
- Weight: 2.88 kg

## Forestry Fire Suit

### Specifications:

- Material: 100% flame retardant cotton, (370±15) g/m<sup>2</sup>
- Flame retardant property: continue burning time ≤ 10s
- Tear strength: warp ≥ 90N zonal ≥ 30N
- Heat stability: 160±5°C
- Waterproof anti-static, abrasion resistance, solid
- Breathable absorbent, lightweight
- Comfortable, eye-catching colors
- Color: Orange





# Fireman Head Protector



## Firefighter Helmet

### Specifications:

- Shell: glass fibre-reinforced and flame-retardant thermoplastic
- Visor and eye protector: impact-resistant and flame-retardant polycarbonate with anti-fog and anti-scratch coating
- Neck protectors: aluminized flame retardant fabric, meta aramid fabric or flame-retardant wool
- Straps and linings: flame-retardant materials that do not cause skin irritation
- Extreme temperature resistance up to 1,000 °C in a ten-second flash over flames
- Long-term temperature resistance, radiant heat test 14 kW/m<sup>2</sup>
- Excellent protection properties at low temperatures
- High resistance to mechanical impacts
- Visor resistant to high energy impacts
- Weight: 1,470g ± 30g

### Certificates

- EN443:2008, EN 14458:2018, EN 16471:2014, EN16473:2014, MED

## Comfort Firefighter Helmet

### Specifications:

- Shell: Injection molding, thermoplastic
- Anti impact, high temperature resistance
- Faceshield: light colored, transparent, high temperature resistant
- Shell: Aramid + aluminum coated
- Temperature resistance: 260°C
- Maximum impact force: 3341.7 N
- Electrical insulation performance
- Weight: 1.3kg
- EN 443:2008







## Europe Firefighter Helmet

### Specifications:

- Shell: Injection molding, thermoplastic
- Anti impact, high temperature resistance
- Faceshield: Light colored, transparent, high temperature resistant
- Shawl: Aramid IIIA
- Crown straps: Aramid
- Chin strap: Aramid
- Headband: Made of plastic, with liner made of leather
- Maximum impact force: 3740.6 N
- Electrical insulation performance

### Certification:

- EN 443:2008

## Rescue Helmet

### Specifications:

- Material: Outshell: import PA66/R Flame retardant thermoplastic
- Goggles/polycarbonate glass, PVC frame, UV protection
- Heat resistance, shock absorption, impact resistance and fire proof
- Temperature tolerance: 180°C
- Weight: 700g

### Certification:

- EN397:2012



## Fire Hood

### Specifications:

- Best heat insulation performance provides the best protection.
- Comfortable, More Durability and Strength.
- Structure: 2 layers
- Material: 50%nomex 50%Vicose FR
- Thermal stability, shrinkage: 4.1%
- Pilling resistance: level 4
- Seam Strength: 916.7N
- Weight: 153.6g

### Certification:

- EN13911:2017





# Fireman Gloves



## Fireman Gloves

### Specifications:

- 4 layers structure
- Outer layer: Flame retardant, aramid (210±10.5) g/m<sup>2</sup>
- Waterproof layer material: TPU low permeability
- Heat insulation layer materials: Aramid mats
- Inner layer: Flame retardant knitted fabric
- Dorsum of hand stitched with a width 50mm reflective
- TPP Value: 30.1cal/cm<sup>2</sup>
- Gloves shrinkage: 1.5%; lining shrinkage: 1.0%
- Abrasion resistance: Palm > 2000N > dorsum > 2000N
- Cutting force: palm 15.0N dorsum 15.0N
- Tear strength: palm 84.1N
- Piercing force: palm 60.9N
- Weight: 100g

### Certificate:

- EN 659:2003

## Rescue Gloves

### Specifications:

- Structure: 4 layers
- Outer Shell: High strength fabric with flame retardant wear-resisting, anti-puncture
- Waterproof layer: waterproof and moisture permeable
- Heat insulation layer material: Cotton mats
- Inner layer: Cotton
- Function: anti-slip, anti-puncture thermal resistant and flame retardant properties





# Fireman Boots



## Firefighter Boots

### Specifications:

- SRC – Typ F2A
- Colour: black
- Height in cm: 23,0 cm
- Height: high
- Upper material: Leather
- Electrically dissipative: yes
- Cut protection class: no cut protection
- Safety classification: Type F2A, Type HI3 - inside & outside firefighting
- Fastener: 2 zone fast lacing, fast lacing
- Weight per shoe: 1100g
- Leather thickness: 2,0 - 2,2
- Firefighter's boot height: Design C

### Certification:

- CE 0193, EN 15090:2012, HI3 CI M AN CR

## Leather Boots

### Specifications:

- Material: Upper cow leather flame retardant treatment, flame retardant rubber, aluminum toe cap, anti puncture composite fiber midsole
- Flame retardant property: After flame time  $\leq 2$  sec, damaged length  $\leq 100$ mm, no melting, no peeling
- Puncture resistance: 2237 N
- Waterproof: No water penetration into boots after 4 hours in a container with water 25mm higher from bottom of the barrel
- Upper / outsole adhesion:  $\geq 4.0$ N/mm
- Bending resistance: No visible traces of cracks after 104 times bending
- Slip resistance:  $\geq 150$
- Color: Black
- Height: 340 mm
- Weight: 2.3 kg

### Features:

- Flame retardant, Anti slip, Anti impact, Puncture resistance, Electrical insulation, Anti radiation heat, Anti corrosion







## Fireman Boots

### Specifications:

- Upper: Fire resistant and waterproof
- Inner Lining: SYMPATEX ®, 100% waterproof and breathable
- Shoelace: BOA Fit system
- Rubber Pump Cap: Fire resistant rubber protection 1,7mm.
- High abrasion resistance
- Toecap: Light XXL Fiberglass

### Nitrile Rubber Outsole:

- Extremely slip resistance (SRC)
- High heat resistance (HI3)
- Protective textile midsole Pro Tector Z ®
- High Flexibility
- Thermal insulation

### Insole:

- High density foam for maximum comfort and shock absorption

## Rubber Boots

### Specifications:

- Material: Polythene Rubber, steel toe, steel midsole, anti slip, anti-puncture, anti-impact, flame resistance, radiant heat insulation, abrasion resistance, good tear strength performance.
- Oil resistant property: upper 9.5%, side 9.8% , bottom 5.8%
- Anti drop performance: static pressure 21mm ; impact 20.5mm
- Puncture resistance: 1830N
- Electrical insulation: Withstand voltage: ≥5000V
- Leakage current; 0.059Ma
- Thermal insulation performance: 4°C
- Anti radiation permeability: 7°C
- Waterproof performance: no water penetration
- Anti Slip: >15
- Weight: 2.6kg

### Certificate:

- EN15090:2012





# Breathing Apparatus



## SANFire SCBA

### Specifications:

- Cylinder: carbon fibre; 6.8 Litre; working pressure: 30Mpa; capacity: 60 minutes; max gas volume: 2040L; service life: 15 years; working temperature: -30°C+60°C
- Air supply valve: small size, automatic open suction device. Able to ensure adequate supply, gas saving
- Mask: Silicone material, Full-field window, automatic defogging mask, inspiratory resistance 500Pa,
- Backup: high strength non metallic materials
- Pressure relief valve: output pressure: 0.5-1.0Mpa, with other rescue connector
- Safety valve: Opening pressure: 0.8~1.2 Mpa
- Pneumatic alarm and pointer type pressure gauge: pressure alarm (5.5±0.5)Mpa; Sound time: 15s, intermit sound time: 60s, sound level: ≥90dB
- Weight: 18kg

### Certification:

- EN 137:2006

## Fireman SCBA

### Specifications:

- 6.8 Liter Composite Cylinder
- Pressure reducer: piston with compensator
- Automatic demand valve: with integral alarm device and supplementary supply button
- Setting of the alarm: 55 ± 5 bar
- Volume/pressure of Cylinder: 6,8 L/300 Bar
- Air reserve: 1870 N Liters
- Duration: 62 min at an average consumption of 30 L/min for a single user

### Materials:

- Mask: TR 2002 A CL3+
- Outer face blank: EPDM
- Panoramic Visor: Scratch and solvent resistant polycarbonate
- Inner Nose Cup: TPE
- Five arm head harness: Neoprene
- Carrying strap: Para aramidic webbing
- Backplate: Thermoplastic polypropylene
- Harness with padding and soft belt: Para-aramedic webbin
- Self-extinguishing foam
- Medium pressure hose (demand valve and reducer): Rubber protected by para aramidic sleeve
- Pressure reducer: Brass alloy nickel plated
- Automatic demand valve: Fiber glass reinforced nylon housing - Cylinder: Composite
- Storage: store at temperatures between -20°C and +50°C and with RH <80%
- Weight: 10.5 Kg approx., set complete with mask and fully charged cylinder

### Certificate:

Certified Type 2 to EN137:2006 and meeting with directives 98/686/EEC (PPE), 97/23/EC (PED) and 96/98/CE (MED)







## Double Mask Breathing Apparatus

### About

6Lt Autonomous Breathing Apparatus, with double mask. CE CERTIFIED ACCORDING 89/686/EC. 3 minutes more of air are extremely important when one works in critical conditions, during firefighting or in rescuing. For this reason we developed an exclusive system of acoustic alarm integrated in the demand valve that, not wasting any air and using the operator inhalation, warns that the air in the cylinder is finishing up. A system safe and protected from external agents that extends up to 30% the time available to quit, in all safety, from the operation area.

### Characteristic:

- No air loss: the warning device, using for its activation the Air that the operator inhales, increases the ammount of Air available for escaping.
- Sealed warning device the alarm system is always protected from the surrounding environment making it much safer than the traditional whistle. The system cannot be blocked by sand, mud, Foam and other agents that are typically present where the SCBAs are used.
- Alarm audible in any circumstances





# SCBA Compressor

## Paramina Mistral M6

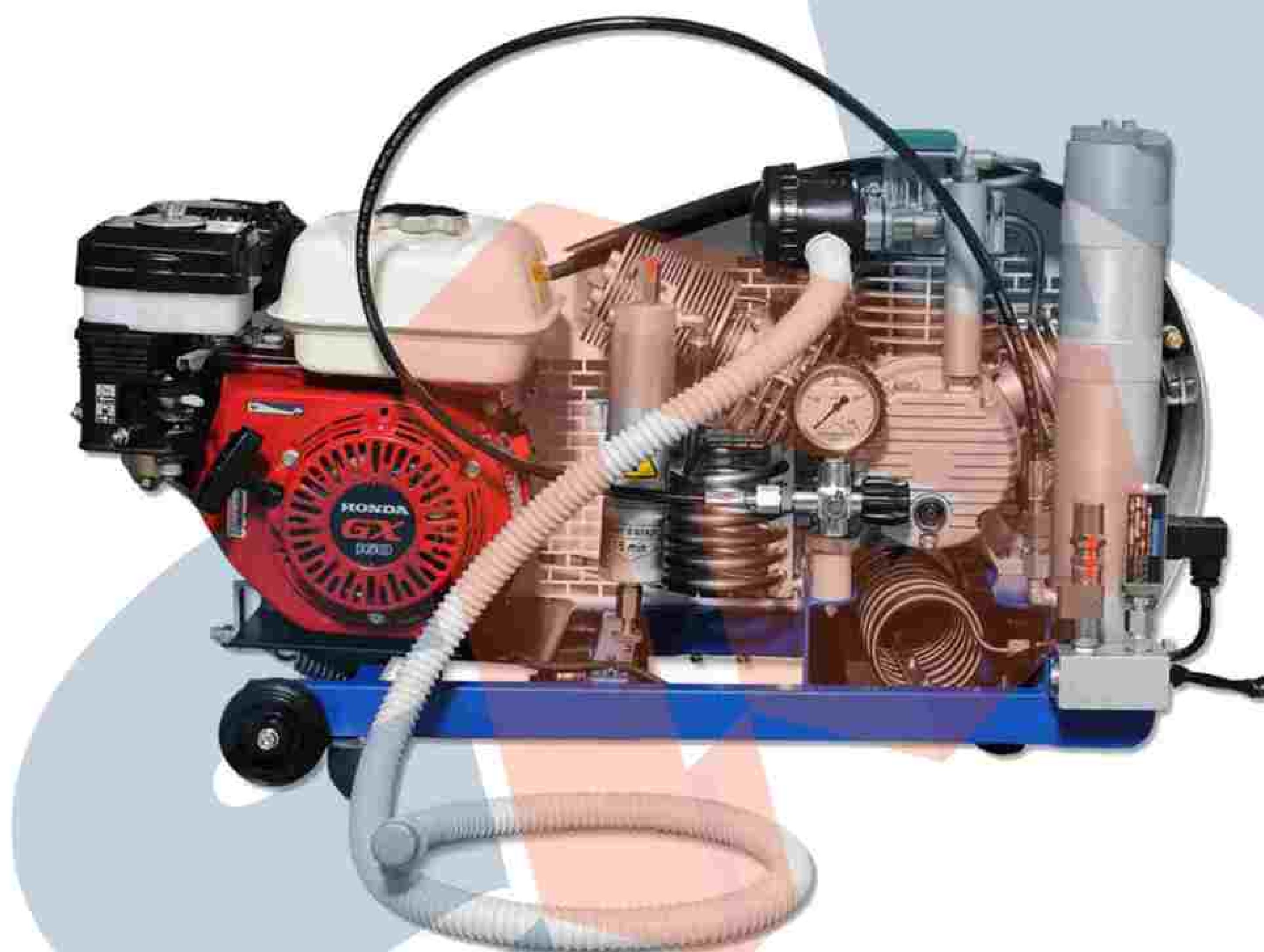
### Specifications:

- Paramina SCBA Compressor (Bensin) - 3 Stage
- High pressure piston compressor for breathing air, portable, air cooled and oil lubricated.
- Model: M6-BZ
- Air Delivery FAD (Capacity): 103 Liter/min - 6,2 m<sup>3</sup>/h
- Max. Working pressure: 350 bar
- Stages: 3
- Cylinders: 3
- Speed rotation: 1200 rpm
- 1st stage pressure: 3,5 bar
- 2nd stage pressure: 27 - 30 bar
- Motor Powder: Honda petrol engine 3,6kw/4,8HP
- Fuel cons. @ cont. rated powder: 1,4ltr/hr - 3600rpm (3,1ltr fuel capacity)
- Dimensions (LxWxH): 88 x 41 x 51cm
- Weight: 55 - 63 Kg
- Filling time of 1 Cylinder 10ltr @ 225 bar: 21,8 min ± 5%
- Filling time of 1 Cylinder 10ltr @ 300 bar: 29,1 min ± 5%
- Certification: CE Certified
- Standard: EN12021:2014 Standard

## Paramina Mistral M8

### Specifications:

- Paramina SCBA Compressor (Gasoline) - 3 Stage
- Description:  
High pressure piston compressor for breathing air, portable, air cooled and oil lubricated.
- Spesifikasi:
- Model: M8-BZ
- Air Delivery FAD (Capacity): 140 Liter/min - 8,4 m<sup>3</sup>/h
- Max. Working pressure: 350 bar
- Stages: 3
- Cylinders: 3
- Speed rotation: 1750 rpm
- 1st stage pressure: 3,5 bar
- 2nd stage pressure: 28 - 30 bar
- Motor Powder: Honda petrol engine 4,1kw/5,5HP
- Fuel cons. @ cont. rated powder: 1,7ltr/hr - 3600rpm (3,1ltr fuel capacity)
- Dimensions (LxWxH): 88 x 41 x 51cm
- Weight: 65-73 Kg
- Filling time of 1 Cylinder 10ltr @ 225 bar: 16,0 min ± 5%
- Filling time of 1 Cylinder 10ltr @ 300 bar: 21,4 min ± 5%
- Certification: CE Certified
- Standard: EN12021:2014 Standard





# Perangkat Pemadam Lainnya

Other Fire Fighting Equipment



# Detector



## Stand Alone Smoke Detector

### Specifications:

- Photoelectric sensing technology
- 9V battery powered
- Low battery warning
- Automatic self test
- Test button verifies battery and alarm operation
- Over 85dB (3M) alarm signal
- Easy installation and maintenance
- 5 years limited warranty

### Certificate:

- EN 14604:2005 / AC:2008

## Wireless Smoke Alarm

### Specifications:

- Photoelectric wireless smoke alarm
- Wireless frequency: 868MHz
- Conforms to EN14604 standard
- DC 3V (AA\*2) battery operated
- Loud >85dB(A) alarm @3M
- 10 Hours no disturb mode under low battery, fault alarm status
- Wireless distance: up to 100 m outdoor
- Suggestion 30 pcs interconnection
- Low battery indication
- Safety clip feature, not allow mounting without battery install
- Silence function

## Analog Addressable Optical Smoke Detector

### Specifications:

- Operation Voltage: 21-28V DC
- Idle State Power Consumption: 1mA
- Alarm Power Consumption: 0.120dB/m
- Sensitivity: 1,5 mA ( $\mu\epsilon$  to LED αναμμένο)
- Indicators: Activation LED
- Produced In Accordance With EN 54-7
- Operation Temperature Range -10 to 60°C
- Degrees of cover protection: IP 20
- Output: External driver LED (BS-572)
- Relative Humidity Up to 95%
- Weight 160gr
- Alarm Power Consumption: 50mA
- Dimensions 103 (d) x 48 (h) mm

## Fire Blanket

### Specifications:

- Weave density: Warp  $20 \pm 1$  ply/cm; Weft:  $10 \pm 1$  ply/cm
- Thickness:  $0.40 \pm 0.03$  mm
- Warp tensile strength:  $\geq 1800$
- Weft tensile strength:  $\geq 740$  (N/25x200mm)
- Basic weight (exclude silicon coats):  $430 \pm 20$  (g/m<sup>2</sup>)
- Total weight (include silicon coats):  $490 \pm 20$  (g/m<sup>2</sup>)
- Available size: 1.2 m x 1.8 m

### Certification:

- EN 1869





# Sprinkler



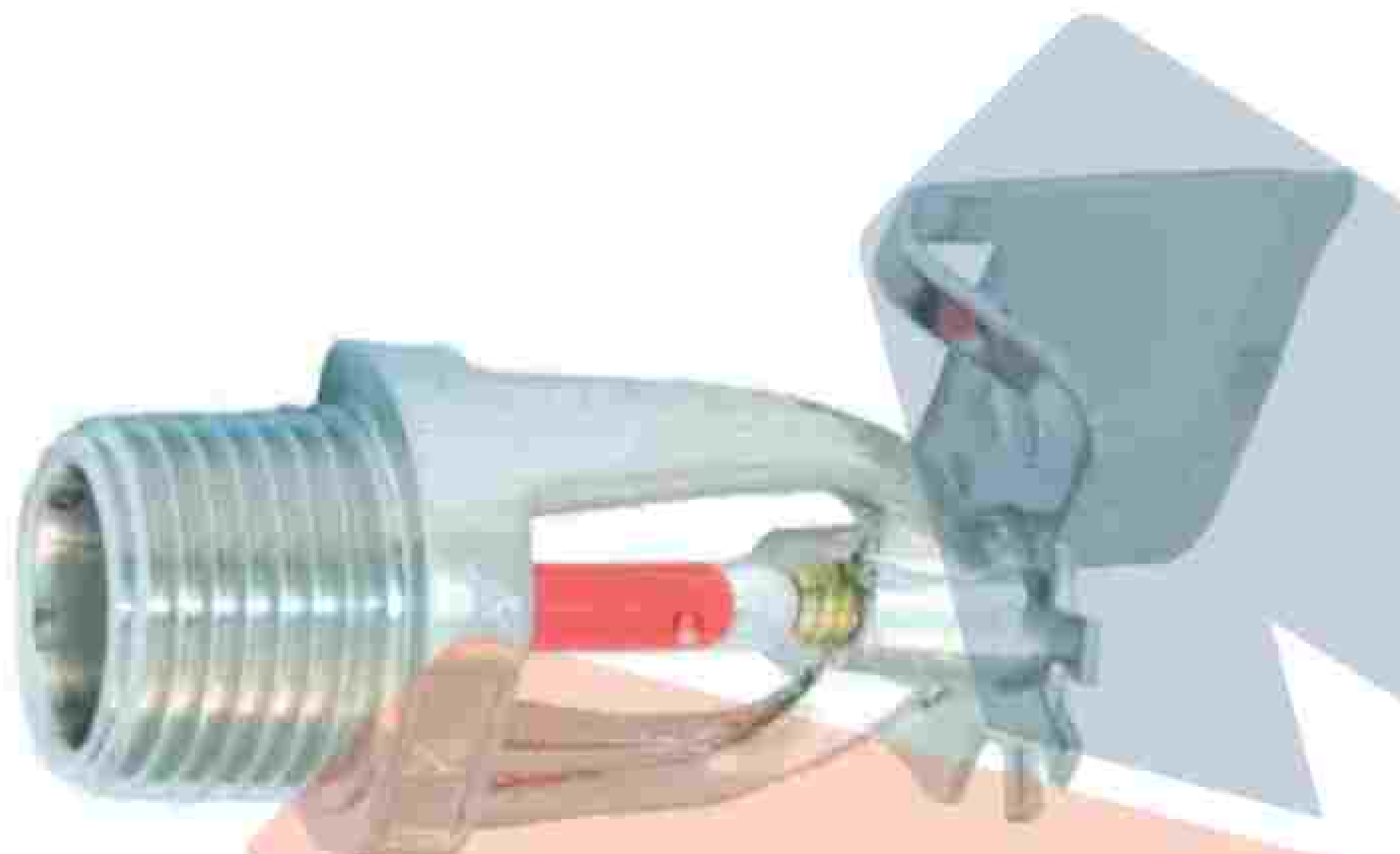
## Concealed Sprinkler

- Model: Pendant-Quick Response
- Type: Concealed
- Response: Quick response
- Material: Brass or chrome
- Thread: NPT1/2
- Activation temperature: 57°C / 135°F ; 68 °C / 155°F ; 79°C / 175°F ; 93°C / 200°F
- Certification: UL Listed



## Upright Sprinkler

- Model: Quick Response
- Type: Upright
- Response: Quick response
- Material: Brass or chrome
- Thread: NPT1/2
- Activation temperature: 57°C / 135°F ; 68 °C / 155°F ; 79°C / 175°F ; 93°C / 200°F
- Certification: UL Listed



## Horizontal Sidewall

- Model: K80-Standard Response
- Type: Horizontal
- Response: Standard response
- Material: Brass or chrome
- Thread: NPT1/2
- Activation temperature: 57°C / 135°F ; 68 °C / 155°F ; 79°C / 175°F ; 93°C / 200°F
- Certification: UL Listed



## Pendant Sprinkler

- Model: K80-Quick Response
- Type: Pendent
- Response: Quick response
- Material: Brass or chrome
- Thread: NPT1/2
- Activation temperature: 57°C / 135°F ; 68 °C / 155°F ; 79°C / 175°F ; 93°C / 200°F
- Certification: UL Listed



## Recessed Sprinkler

- Model: Recessed Sprinkler 68OC 1/2"
- Type: Recessed
- Suitable for above ceiling



# Perangkat Pemadam Khusus

Special Fire Fighting Equipments







## 5lb CO<sub>2</sub> - UL

- Media: CO<sub>2</sub>
- Fire rating: 5B
- Height: 450 mm
- Accesories: Metal bracket



## 10lb CO<sub>2</sub> - UL

- Media: CO<sub>2</sub>
- Fire rating: 10B
- Height: 510 mm
- Accesories: Metal bracket



## 15lb CO<sub>2</sub>

- Media: CO<sub>2</sub>
- Fire rating: 10B
- Height: 680 mm
- Accesories: Metal bracket



## 2.5lb PA-UL

- Media: Dry Powder
- Fire rating: 1A10B
- Accesories: Metal bracket



## 5lb PA-UL

- Media: Dry Powder
- Fire rating: 3A30B
- Accesories: Metal bracket



## 10lb PA-UL

- Media: Dry Powder
- Fire rating: 4A60B
- Accesories: Metal bracket



# Stainless Steel Extinguisher by **MOBIAK**<sup>®</sup>

FIREFIGHTING • GASES • MEDICAL est. 1977



## 1kg Dry Powder S/Steel

- Media: ABC Dry Powder
- Dimension: 320 x 93 x 93 mm
- Test pressure: 27 bar
- Max. Allowable pressure: 18 bar
- Weight: 2.4 kg
- Certification: Standard EN3



## 3kg Dry Powder S/Steel

- Media: ABC Dry Powder
- Dimension: 450 x 140 x 140 mm
- Test pressure: 27 bar
- Max. Allowable pressure: 18 bar
- Weight: 5.3 kg
- Certification: Standard EN3



## 6kg Dry Powder S/Steel

- Media: ABC Dry Powder
- Dimension: 600 x 200 x 200 mm
- Test pressure: 27
- Max. Allowable pressure: 18
- Weight: 9.5 kg
- Certification: Standard EN3



## 12kg Dry Powder S/Steel

- Media: ABC Dry Powder
- Dimension: 700 x 240 x 240 mm
- Test pressure: 27 bar
- Max. Allowable pressure: 18 bar
- Weight: 18.1 kg
- Certification: Standard EN3



## 6lt Foam S/Steel

- Media: BSX233 1.5%
- Dimension: 600 x 210 x 210 mm
- Test pressure: 27 bar
- Max. Allowable pressure: 18 bar
- Weight: 11.3 kg
- Certification: Standard EN3



# Clean Agent Extinguisher by NOBIAK®

FIREFIGHTING • GASES • MEDICAL est. 1977



## 3Kg HFC 236-fa

- Media: HFC 236-fa
- Dimension (mm) : 480 x 150
- Test pressure: 35 bar
- Pressure storage: 15 bar
- Weight: 5.1 kg

### Certification:

- Standard EN3
- UL



## 6Kg HFC 236-fa

- Media: HFC 236-fa
- Dimension (mm) : 570 x 200
- Test pressure: 35 bar
- Pressure storage: 15 bar
- Weight: 9.4 kg

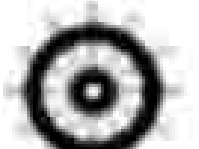
### Certification:

- Standard EN3
- UL



# Lithium Battery Extinguisher by

**NOBIAK®**  
FIREFIGHTING • GASES • MEDICAL est. 1977



500 ml



2 ltr



6 ltr



9 ltr

## Aerosol 500ml Lithium Extinguisher

Extinguisher Type Portable  
Pressure Type Stored Pressure  
Suppression Agent Type Lithium  
Capacity 500 ml  
Extinguishing Agent AVD-Li  
Operating Temperature 5°C ~ +50 °C  
Max Allowable Pressure 10,8 bar  
Approx. Dimensions 314 x 65 mm

## Portable 2 lt

Fire rating 5A  
Extinguishing Agent MINERAL-BASED AGENT  
Operating Temperature +5°C ~ +60°C °C  
Max Allowable Pressure 20 bar  
Test Pressure 30 bar  
Volume of Equipment 3,2 lt  
Cylinder Height 304±2 mm  
Cylinder Diameter 130±2 mm  
Cylinder Neck Thread M45x1.5  
Cylinder Material AA6061 (anodized)  
Approx. gross Weight ~4 kg  
Dimensions 410x160 mm  
Paint Finish RAL3000

## Portable 6 lt

Fire Rating 13A  
Extinguishing Agent MINERAL-BASED AGENT  
Operating Temperature +5°C ~ +60°C °C  
Max Allowable Pressure 20 bar  
Test Pressure 30 bar  
Volume of Equipment 7,8 lt  
Cylinder Height 477±3 mm  
Cylinder Diameter 162±2 mm  
Cylinder Neck Thread M74x1.5  
Cylinder Material AA6061 (anodized)  
Approx. gross Weight ~10,2 kg  
Dimensions 580x180 mm

## Portable 9 Lt

Fire Rating 13A  
Extinguishing Agent MINERAL-BASED AGENT  
Operating Temperature +5°C ~ +60°C °C  
Max Allowable Pressure 20 bar  
Test Pressure 30 bar  
Volume of Equipment 12 lt  
Cylinder Height 528±4 mm  
Cylinder Diameter 182±2 mm  
Cylinder Neck Thread M74x1.5  
Cylinder Material AA6061 (anodized)  
Approx. gross Weight ~14,2 kg  
Approx. Dimensions 640x200 mm  
Paint Finish RAL3000



# Wheeled Extinguisher by **MOBIAK**<sup>®</sup>

**MOBIAK**<sup>®</sup>  
FIREFIGHTING • GASES • MEDICAL since 1977

## **25 lt Foam Stainless steel**

- Media: BSC233 1.5%
- Dimension: 1200 x 560 mm
- Test pressure: 27 bar
- Max. Allowable pressure: 18 bar
- Weight: 59.6 kg

## **25 Kg Powder Stainless steel**

- Media: ABC Dry Powder
- Dimension: 1120 x 500 mm
- Test pressure: 27 bar
- Max. Allowable pressure: 18 bar
- Weight: 56.5 kg





# Idomeneus

## Description:

Idomeneus is an Automatic Detection and Suppression System, without pressure or propellant gas, for Fats in Cuisines and Barbecue.

The Extinguishing System is designed to be special Suitable for Small Household Kitchens or Kitchens in Recreational Vehicles, RV and Caravans.

This fire agent has also Exceptional properties for suppressing Solid material ( A Class), the System can also be used in other Areas with Probability of Risk.

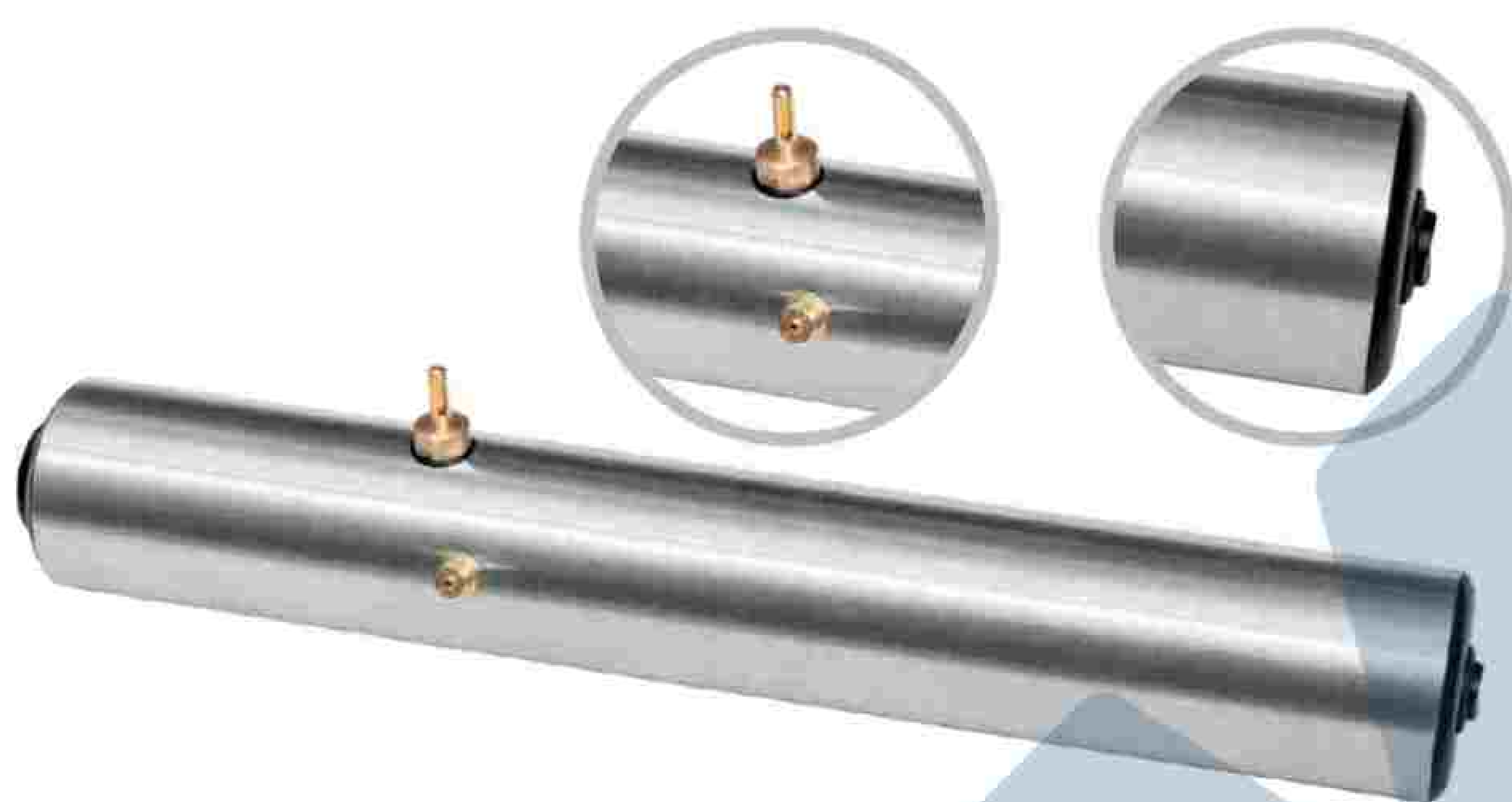
The IDOMENEUS Home Kitchen System is installed above the corresponding Fire danger Zone and aligned so as to cover the hazardous Area.

## Specifications:

- Activation temperature 57OC
- No maintenance required for 5 years

## Certification:

- Tested according to DIN 14497



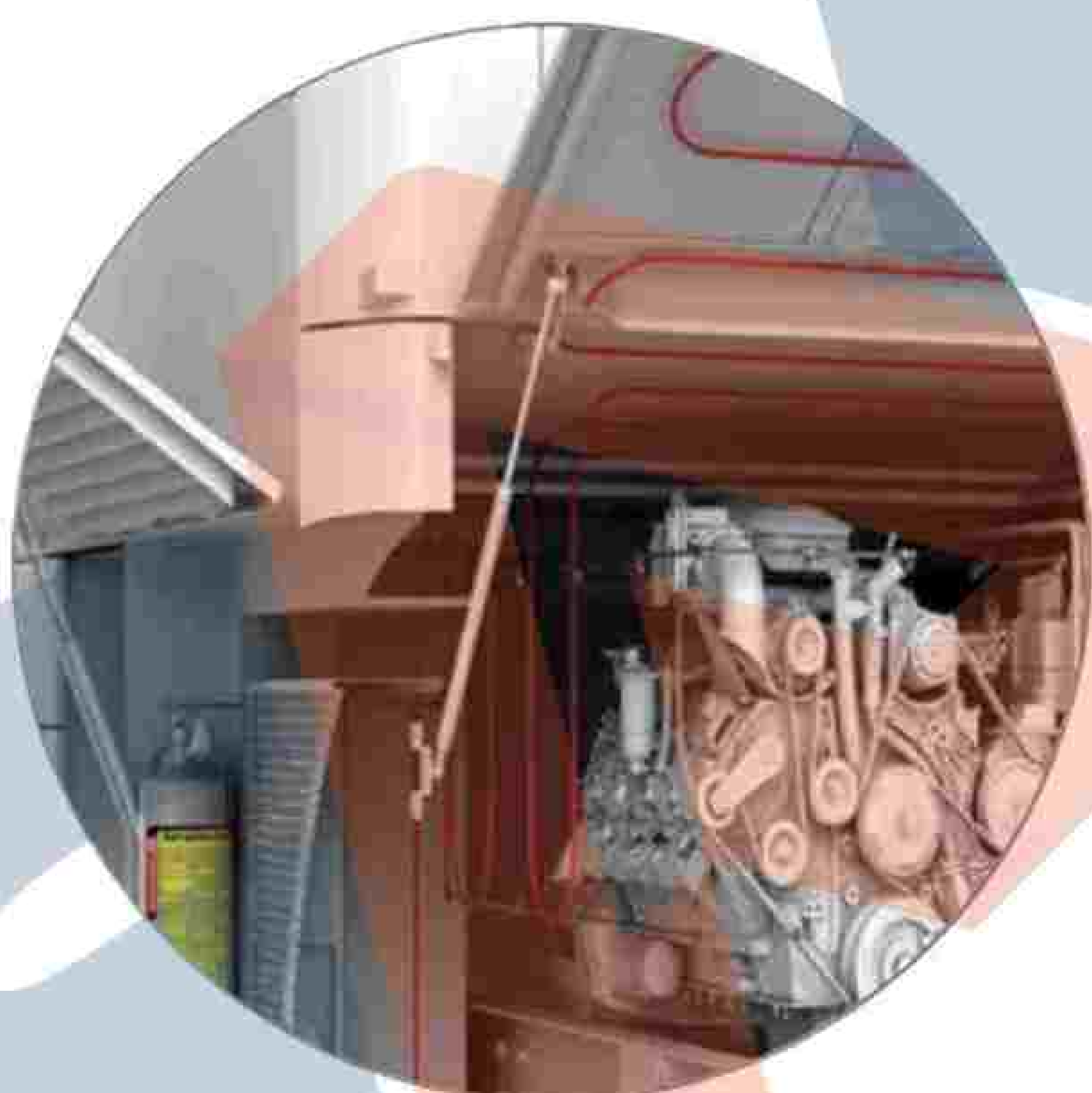
# Kydon

## Specifications:

Complete suppression system pre-engineered for vehicle engines. Use a proprietary continuous linear sensor tube that reliably detects and actuates release of the extinguishing agent using pneumatic technology. It is flexible, space efficient and cost effective detection method

## Specifications:

- The only Approved System for Buses (worldwide)
- Protects passengers and valuable equipment
- Easy / Flexible Installation
- Quick & Effective Suppression
- No electricity
- Highly economical
- Reduces even the most critical vehicle engine fire risks





## Great Alexander Kitchen Protection

### Descriptions:

Use a proprietary continuous linear sensor tube that reliably detects and actuates release of the extinguishing agent using pneumatic technology. It is flexible, space efficient and cost effective detection system

### Features:

- Easy / Flexible Installation
- Quick & Effective Suppression
- No electricity or moving parts
- Highly economical
- Reduces even the most critical kitchen fire risks

### Certification:

- LPCB Listed



## Fire Suppression System HFC-227ea

### Descriptions:

Use a proprietary continuous linear sensor tube that reliably detects and actuates release of the extinguishing agent using pneumatic technology. It is flexible, space efficient and cost effective detection method

### Features:

- CO2 or FM-200 extinguishing agent
- Easy and flexible installation
- Quick and effective suppression
- No electricity or moving parts
- Highly economical
- Reduces even the most critical electrical fire risks

### Certifications:

- Standard NFPA 2001 certified
- EPASNAP Listed





## Ball Extinguisher

- Media: ABC-90 Dry Chemical Powder (CE)
- Capacity: 1.3 kg
- Operation temperature: 70°C
- Total weight: 1.5 kg

- 
- GEM FIRE**
- ΠΥΡΟΣΒΕΣΤΗΡΑΣ**  
**FIRE EXTINGUISHER**
- ΑΦΡΟΥ ΑΡ-ΑΦΦ**  
**FOAM AR-AFF**
- ΤΥΠΟΥ ΑΕΡΩΔΥΝΑΤΟΣ, ΕΛΛΗΝΙΚΟ  
AEROSOL TYPE WATER GASS
- ΓΙΑ ΜΙΚΡΕΣ ΦΟΤΕΛΕΣ  
FOR SMALL FIRES ONLY
- |     | A | B |
|-----|---|---|
| 3A  | 1 | 1 |
| 21B | 1 | 1 |

## Aerosol with Foam

- ### Specifications:

- Certification:**

- indosan.com | SAN Fire Catalogue 76



# Media Pemadam Kebakaran

Firefighting Media





# Aqueous Film Forming Foam



## AFFF 3% Ultra

Fomtec AFFF 3% Ultra is an aqueous film forming foam concentrate (AFFF) consisting of a blend of fluorocarbon-, hydrocarbon surfactants and various solvents and stabilisers. Only C6 Pure fluorosurfactants are used in Fomtec AFFF-formulations. Fomtec AFFF 3% Ultra utilises the unique film forming effect to cut off oxygen supply to the fire and the oleophobic properties of the foam enables a stable foam blanket to suppress reignition of the fire.

### Technical Data:

- Appearance Pale yellow liquid
- Specific gravity at 20°C  $1,020 \pm 0,020$  g/ml
- Viscosity at 20°C spindle #1, 60 rpm  $\leq 15$  mPa·s
- pH 7,0 - 8,0
- Freezing point  $-2^{\circ}\text{C}$
- UL-listed temperature range\*  $1,7^{\circ}\text{C}$  to  $49^{\circ}\text{C}$
- Recommended storage temperature  $-1^{\circ}\text{C}$  to  $55^{\circ}\text{C}$
- Suspended sediment (v/v)  $< 0,1\%$

### International Approval:

- UL 162 7th Edition
- ULC for Canada

## AFFF 6% Ultra

Fomtec AFFF 6% Ultra is an aqueous film forming foam concentrate (AFFF) consisting of a blend of fluorocarbon-, hydrocarbon surfactants and various solvents and stabilisers. Only C6 Pure fluorosurfactants are used in Fomtec AFFF-formulations. Fomtec AFFF 6% Ultra utilises the unique film forming effect to cut off oxygen supply to the fire and the oleophobic properties of the foam enables a stable foam blanket to suppress reignition of the fire.

### Technical Data:

- Appearance Pale yellow liquid
- Specific gravity at 20°C  $1,010 \pm 0,020$  g/ml
- Viscosity at 20°C spindle #1, 60 rpm  $\leq 15$  mPa·s
- pH 7,6 – 8,6
- Freezing point  $-1^{\circ}\text{C}$
- UL-listed temperature range\*  $1,7^{\circ}\text{C}$  to  $49^{\circ}\text{C}$
- Recommended storage temperature  $0^{\circ}\text{C}$  -  $55^{\circ}\text{C}$
- Suspended sediment (v/v)  $< 0,1\%$

### International Approval:

- UL 162 7th Edition
- ULC for Canada





# Alcohol Resistant Concentrate (ARC)



## ARC 3x3 Ultra

Fomtec ARC 3x3 Ultra is an alcohol resistant aqueous film forming foam concentrate (AFFF-ARC) consisting of a blend of fluorocarbon-, hydrocarbon surfactants and polymers, various solvents and stabilisers. All Fomtec AFFF-ARC foam concentrates are formulated with 100% C6 Pure fluoro-surfactants and fluoro-polymers. On hydrocarbon fuels, Fomtec ARC 3x3 Ultra utilises the unique film forming effect to cut off oxygen supply to the fire and the oleophobic properties of the foam enables a stable foam blanket to prevent reignition of the fire. With polar fuels, a polymeric membrane is formed that suppresses vapours and allows the foam blanket to survive on the water miscible fuel surface.

### Technical Data:

- Appearance Pale yellow liquid
- Specific gravity at 20°C  $1,040 \pm 0,020$  g/ml
- Viscosity Pseudoplastic\*
- pH 6,1 – 7,1
- Freezing point  $-12^{\circ}\text{C}$
- Recommended storage temperature  $-11^{\circ}\text{C} - 55^{\circ}\text{C}$
- UL Minimum storage temperature  $1,7^{\circ}\text{C}$
- Suspended sediment (v/v)  $< 0,1\%$

### International Approval:

- UL Listed according to UL 162 7th Edition
- EN 1568 part 3 (3rd Party Fire test report) Class IA Fresh water
- EN 1568 part 4 (3rd Party Fire test report) Acetone: Class IB Fresh water
- Lastfire tested on hydrocarbon fuel

## ARC 3x6 Ultra

Fomtec ARC 3x6 Ultra is an alcohol resistant aqueous film forming foam concentrate (AFFF-ARC) consisting of a blend of fluorocarbon-, hydrocarbon surfactants and polymers, various solvents and stabilisers. All Fomtec AFFF-ARC foam concentrates are formulated with 100% C6 Pure fluoro-surfactants and fluoro-polymers. On hydrocarbon fuels, Fomtec ARC 3x6 Ultra utilises the unique film forming effect to cut off oxygen supply to the fire and the oleophobic properties of the foam enables a stable foam blanket to prevent reignition of the fire. With polar fuels, a polymeric membrane is formed that suppresses vapours and allows the foam blanket to survive on the water miscible fuel surface.

### Technical Data:

- Appearance Pale yellow liquid
- Specific gravity at 20°C  $1,040 \pm 0,020$  g/ml
- Viscosity Pseudoplastic\*
- pH 6,1 – 7,1
- Freezing point  $-12^{\circ}\text{C}$
- Recommended storage temperature  $-11^{\circ}\text{C} - 55^{\circ}\text{C}$
- UL Minimum storage temperature  $1,7^{\circ}\text{C}$
- Suspended sediment (v/v)  $< 0,1\%$

### International Approval:

- UL Listed according to UL 162 7th Edition
- EN 1568 part 3 (3rd Party Fire test report) Class IA Fresh water
- EN 1568 part 4 (3rd Party Fire test report) Acetone: Class IB Fresh water
- Lastfire tested on hydrocarbon fuel





# Fluoro Protein Foam Concentrate (FP)

## FP 3% UL

Fomtec FP 3% UL is a fluoro-protein foam concentrate (FP) consisting of hydrolysed protein hydrolysate and a blend of fluorocarbon-, hydrocarbon surfactants, various solvents and stabilisers. All Fomtec FP foam concentrates are formulated with 100% C6 Pure fluoro-surfactants. On hydrocarbon fuels, Fomtec FP 3% UL forms a foam blanket to cut off oxygen supply to the fire and the oleophobic properties of the foam enables a stable foam blanket to prevent reignition of the fire.

### Technical Data:

- Appearance Dark brownish
- Specific gravity at 20°C  $1,16 \pm 0,01$  g/ml
- Viscosity at 20°C spindle #4, 60 rpm < 30 mPas
- pH 6,0 - 7,0
- Freezing point -15°C
- UL Listed Storage Temperature\* 1,7°C - 49°C
- Recommended storage temperature -14°C - 55°C
- Suspended sediment (v/v) < 0,2%

### International Approval:

- UL 162 and ULC



## FP 6% UL

Fomtec FP 6% UL is a fluoro-protein foam concentrate (FP) consisting of hydrolysed protein hydrolysate and a blend of fluorocarbon-, hydrocarbon surfactants, various solvents and stabilisers. All Fomtec FP foam concentrates are formulated with 100% C6 Pure fluoro-surfactants. On hydrocarbon fuels, Fomtec FP 6% UL forms a foam blanket to cut off oxygen supply to the fire and the oleophobic properties of the foam enables a stable foam blanket to prevent reignition of the fire.

### Technical Data:

- Appearance Dark brownish
- Specific gravity at 20°C  $1,15 \pm 0,020$  g/ml
- Viscosity at 20°C spindle #4, 60 rpm < 15 mPas
- pH 6,0 - 7,0
- Freezing point -15°C
- UL Listed Storage Temperature\* 1,7°C - 49°C
- Recommended storage temperature -14°C - 55°C
- Suspended sediment (v/v) < 0,2%

### International Approval:

- UL 162 and ULC





# Enviro

The Fomtec Enviro range comprises an extensive range of non-PFAS based foams suitable for use Emergency Response missions and System applications. Enviro foam concentrates are available for **class A, class B fire hazards** and products are available for low, medium, and high expansion discharge devices.



## Enviro Ultra

Fomtec Enviro Ultra is a novel multi-purpose alcohol resistant firefighting foam concentrate totally free from fluorinated surfactants and polymers. The unique formulation of Fomtec Enviro Ultra enables the foam to rapidly cover burning surfaces and gain control and extinguish the fire. As a result, it is effective against both hydro carbon fires and polar solvents fuel fires.

### Technical Data:

- Appearance Clear yellowish liquid
- Specific gravity at 20°C  $1,013 \pm 0,01$  g/ml
- Viscosity Pseudoplastic\*
- pH 6,5 to 8,5
- Freezing point -4°C
- Recommended storage temperature 0 to 55°C
- Suspended sediment (v/v) Less than 0,2%

### International Approval:

- UL 162, 8th Edition, topside type II and type III discharge devices

## Enviro Class A

Fomtec Enviro Class A is a novel blend of high activity hydrocarbon surfactants, selected for their environmental profile, solvents and stabilizers, for use on class A fuel fires and smaller class B fires. Enviro Class A does not contain any fluorinated surfactants or polymers (PFAS) or other organohalogens. Enviro Class A does not contain any hazardous substances and does not require any special labelling when transported.

### Technical Data:

- Appearance Clear yellowish liquid
- Specific gravity at 20°C  $1,02 \pm 0,01$  g/ml
- Viscosity at 20°C  $\leq 30$  mPas
- pH 6,5 – 8,5
- Freezing point -4°C
- Recommended storage temperature -4 - 55°C
- Surface tension  $\leq 29,0$  mN/m

### International Approval:

- Qualified Products Listed (QPL) by US Forest Service in accordance to Forest Service Specification 5100-307a
- Tested by UL to the ASTM E1321 – Lateral Ignition & Flame Spread Apparatus Testing (LIFT TEST)
- Conforms to NFPA 18 and NFPA 1150 and NFPA 1145





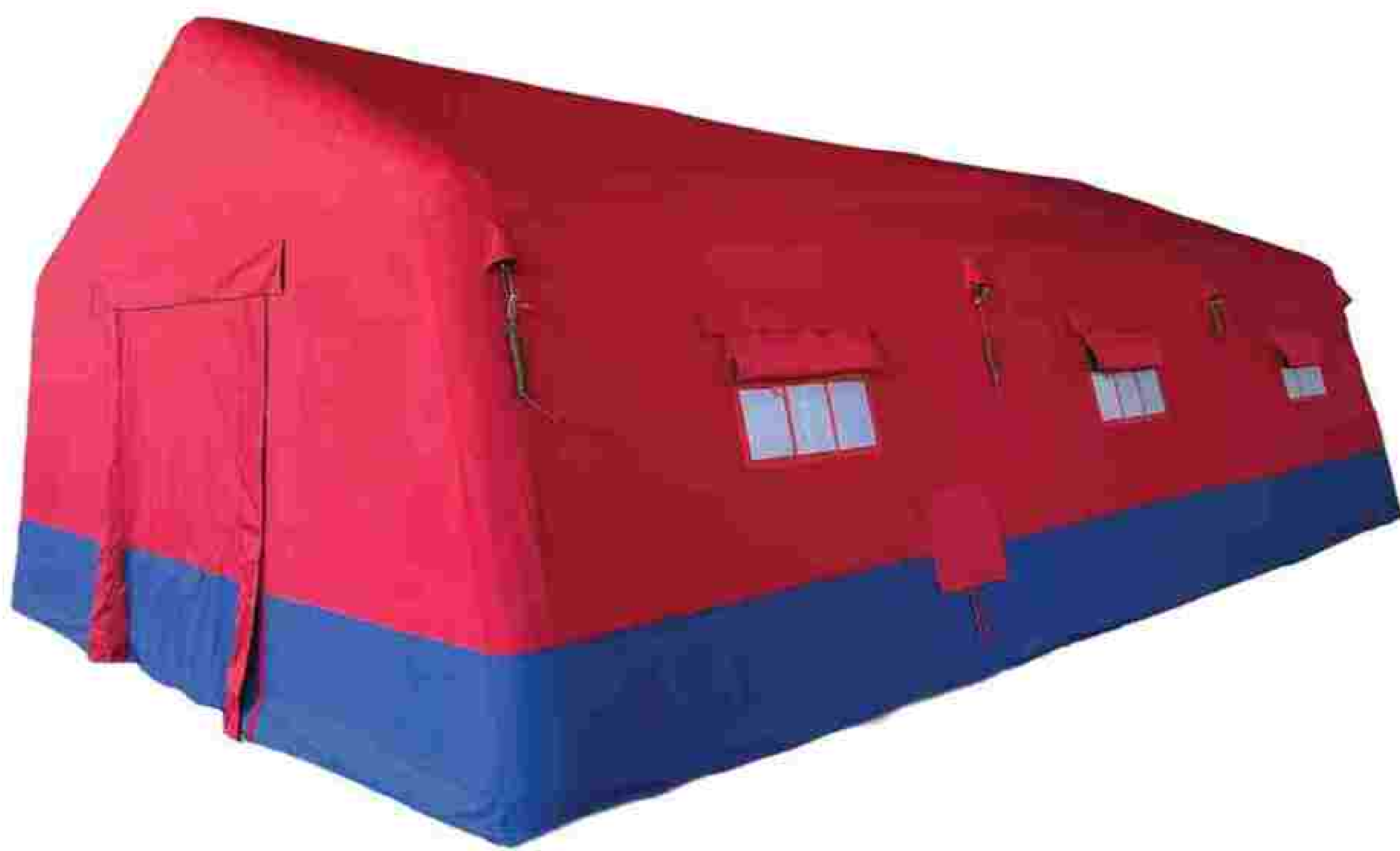
# Penanggulangan Bencana

Disaster Management





# Disaster Management



## Tenda Angin

### Spesifikasi:

- Material: oxford cloth, PVC coated cloth
- Aeration column material: PVC coated polyester woven fabric
- Temperature: -40°C to +65°C
- Frame resistance to wind: Level 6 - 8
- Hydrostatic pressure:  $\geq 16$  kpa
- Protection from surface water: 160 - 200mm
- Inflating time: 2 - 10 minutes (varies according to tent size) by electric inflator pump
- Sizes dimension (L x W x H): 6 x 10 x 3m
- Double layer

## Tenda Posko

### Technical Data:

- Fabric: Polyester silver coated canvas
- Lining: polyester oxford cloth
- Thermal insulation layer: needled felt
- Dimension: Length : 6m  
Width : 5m  
Top Height : 3.2m  
Side Height : 1.8 m
- Area: 30m<sup>2</sup>
- Strut Material: 30x30 mm steel
- Strut Wall Thickness:  $> 1.8$ mm
- Safety Performance: Resistance to nine-level wind
- Self weight and 8 cm snow load





# Flood Disaster

## Flood Control Board

### Specification:

- Size: 68x70.5x52.8 cm
- Weight: 4.1 kg
- Thickness: 5mm
- Material: Red ABS, surface anti-UV Coating
- Alloy Polyester Composite Material



## Perahu Karet

### Specification:

- Rubber: Chlorosulfonated polyethylene rubber
- Skeleton material: Three layers of wear-resistant PVC mesh material
- Base Plate: Aluminium Alloy
- Length (cm): 380
- Width (cm): 170
- Inner Diameter (cm): 260 x 85
- Thickness: 1.2 mm
- Floating diameter (cm): 45
- Number of gas chamber: 3 + 1
- Approved load person: 8
- Max Load Weight: 800 Kg
- Boat Self-weight: 75 Kg
- Full armoured bottom
- Boat with 2.2mm Armoured Bottom: 100 Kg
- Color: Orange/Black/Red
- Other sizes available: 6 pax, 8 pax, and 10 pax





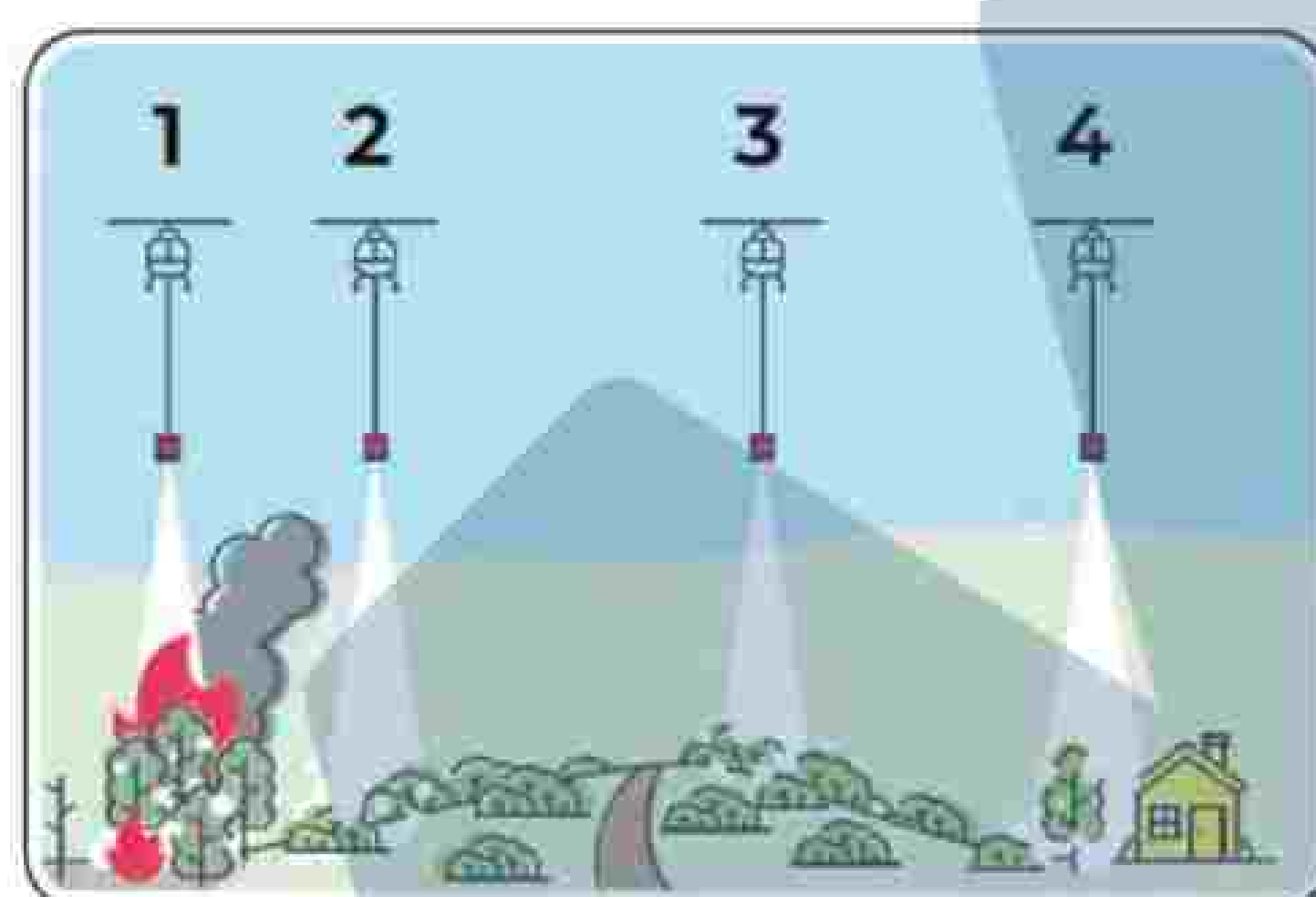
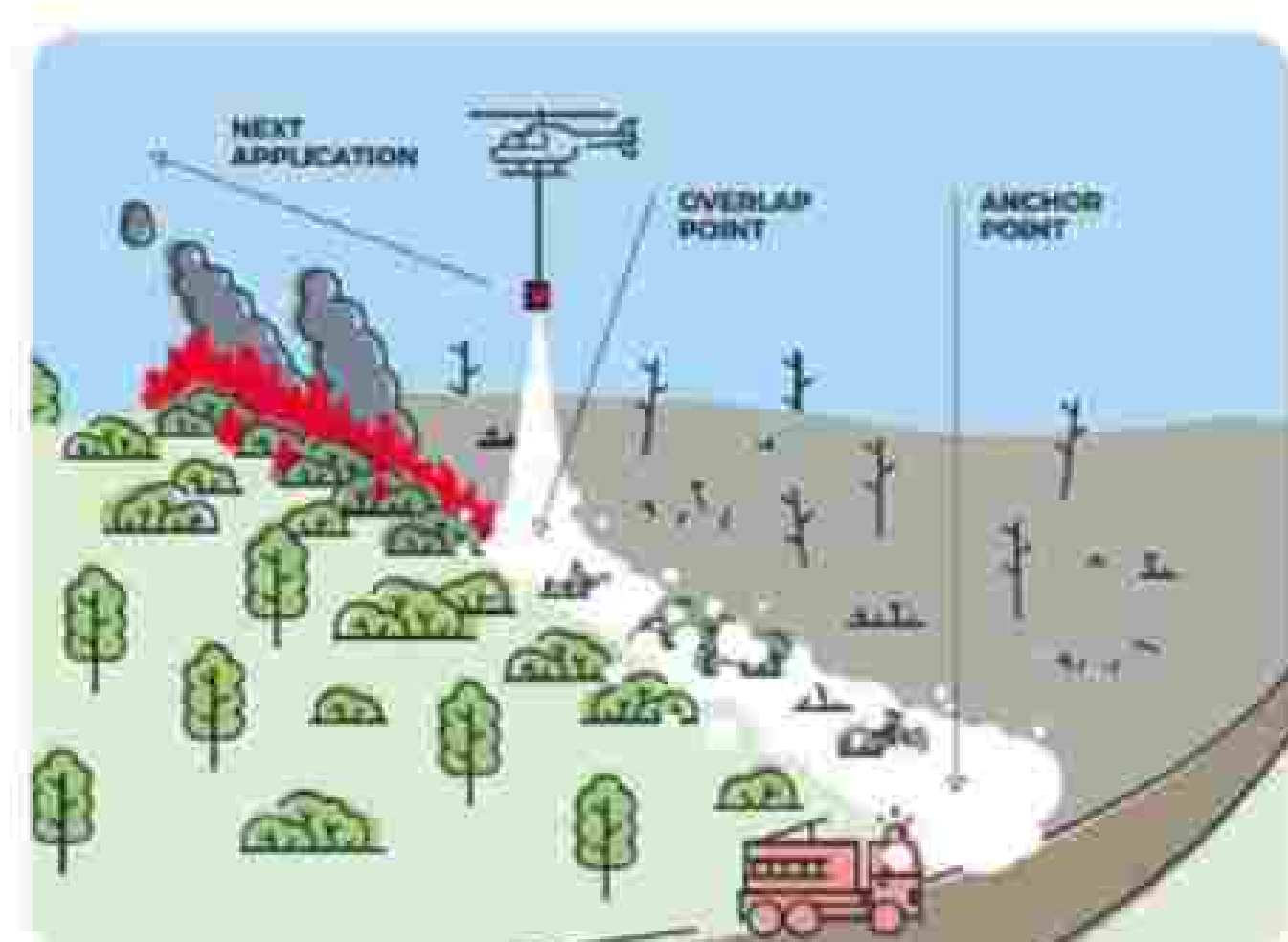
# Forest Fires



## Leo System

### Specification:

- Engine Power: 27,6-29,9 kW
- Fuel: Gasoline
- Fuel tank capacity: 7L/1,85 US gal
- Water capacity: 800L / 211 US gal
- Foam concentrate capacity: 80L/21 US gal
- Foam percentage: 0.1-1%
- Filling time: 3 sec
- Emergency water drop: Partial or total
- Working pressure: 2-6 bar/29-87 PSI
- Maximum flow rate: 1600 L/min/422 gpm
- Empty weight: 260 Kg/573 lbs
- Dimensions: Ø 1525 x 1700 mm
- Height /Ø 5 x 5.8 ft



## Drone

### Technical Data:

- Flight Time: 45 minutes
- Camera: RGB, Multispectral, Thermal
- Cruise Speed: 16 m/s
- Wingspan: 2.4 m
- Material: Composite Materials
- Takeoff landing type: Vertical
- Live video range: 9 km
- Maximum Flight Range: 35 km
- Area Coverage: 175 ha



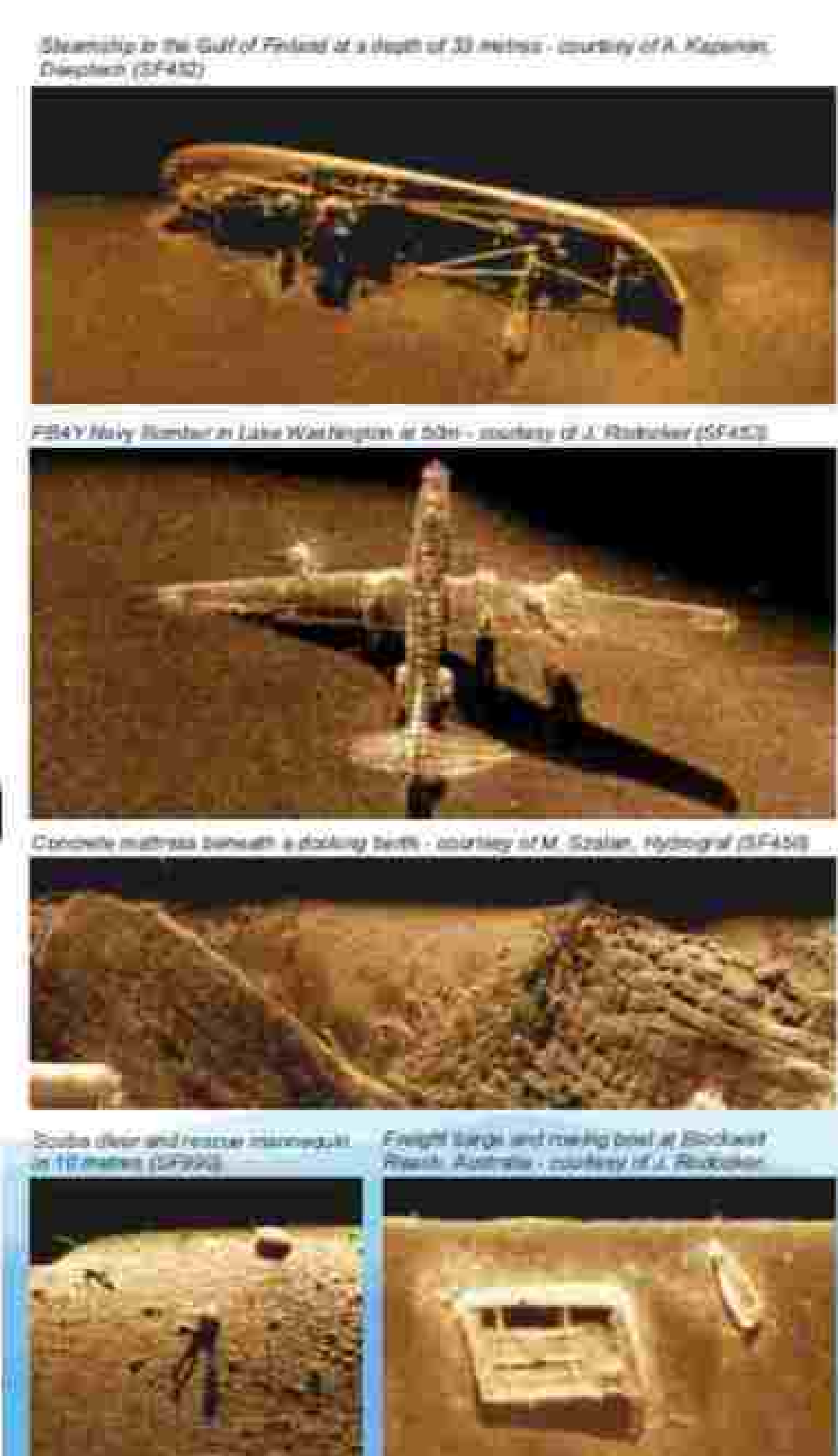


# Earthquake Disasters

## Sonar

### Technical Data:

- Frequency 450kHz CHIRP
- Operating Range Up to 100m (328ft) per channel
- Horizontal Beam Width 1.7°
- Vertical Beam Width 60°
- Transducer Angle Tilted Down 30° from Horizontal
- Length 195mm (7.68")
- Width 130mm (5.12")
- Height 35mm (1.38")
- Weight (in Air) 0.7kg (1.54lb)
- Construction Reinforced polyurethane rubber
- Colour Black
- Depth Rating 50m (164ft)
- Supported Software Platforms StarFish Scanline, Hypack 2009, SonarWiz.MAP/ SonarWiz 5 (Chesapeake Technology), Quester Tangent SWATHVIEW system and CleanSweep-Lite (Oceanic Imaging Consultants, Inc.). Windows SDK available for OEM integrators.
- Applications Law Enforcement/ Security, Wreck Location/ Archaeology Survey, Engineering, Dive Clubs, Academic/ Research, Angling/ Fishing



## Life Detector Leader

Developed with SAR specialists

LEADER MULTISEARCH is used during SAR operations following a building collapse, to search for victims trapped under rubble in inaccessible areas or difficult-to-access confined spaces.

The MULTI-APP control box allows you to connect all LEADER peripherals. Those included in this MULTISEARCH kit can be tailored to various search options by connecting the appropriate peripheral:

- CAM for a visual victim search,
- TIC to speed up the search by detecting hotspots generated by the victim's body,
- SEARCH to listen for sound made by the victim and their location,
- SCAN to detect and locate movements through materials.

### Technical Data:

- 1 CAM - colour camera,
- 1 TIC - thermal imaging camera,
- 3 SEARCH - wireless seismic sensors,
- 1 SCAN - movement detection radar sensor.

### Benefits:

- MULTI-APP control box to alternately connect the peripherals included in the kit
- 4 types of peripheral adapted to various search situations by connecting the appropriate peripheral
- Ready-to-use peripherals for rapid deployment
- System which can be upgraded at any time!
- Intuitive navigation interface
- Kit packed in backpacks to make it easier to carry in the field
- Kit placed in shock-proof and waterproof cases for transport and storage



**MULTI-APP BOX**





## Tripod Vertical Rescue

### Spesifikasi:

- Adjustable Leg
- Included rescue lifting device: 20m, 25m, 30m
- Self-weight: 18.5Kg
- Maximum bearing capacity: 180kg
- Reverse working load: 800kg
- Maximum height: 214cm
- Minimum height: 134cm
- Gear ratio: 8:1
- Blocking force: 22KN
- Foot tube material: high strength aluminium alloy
- Winch force: 0.2kN
- Packing size: 173x39x36cm
- Applicable scenarios: high places, cliffs and confined spaces, ground capacity, wells, others

## Full Body Harness

### Specification:

- Waist ring size: 70 - 120cm
- Leg ring size: 50cm - 65cm
- Material: polyester reinforced silk
- Weight: 1980g
- Suitable human height: 160cm - 190cm



## Velbed

### Technical Data:

- Dimensi P190 x L65 cm T45 cm
- Warna kain: Custom
- Lingkaran besi 25mm tebal 0,9-1,1 mm
- Berat muatan maksimal 120 Kg
- Bahan kain Cordura dan Kap Waterproof





## Chainsaw Stihl

### Specification:

- Mesin: 2 Tak
- Isi Silinder: 72.2cc
- Kekuatan Mesin: 3.9 kW(5.3 bhp)
- Sistem Pengapian: Elektronik
- Kapasitas Tangki Oli Rantai: 0.36 L
- Kapasitas Tangki Bahan Bakar: 0.68 L
- Bahan Bakar: Bensin Campur Oli 2T
- Perbandingan Campuran Oli 2 Tak STIHL: 1L Oli: 50 L Bensin
- Berat Mesin tanpa Bar & Rantai: 6.2Kg
- Panjang Bar: 25" (63cm)
- Kecepatan Maksimum Mesin dengan Bar dan Rantai: 12.500 rpm

## Portable Floodlight

### Spesifikasi:

- Type: Solaris Pro
- Lumen: 16,000
- Beam distance: Up to 500m
- Run time: 2.25 – 24hrs
- Mode: Boost (Search + Flood), Search, Flood
- Power source: 14.8V 18.2Ah, 269.36 Wh
- Charging time: 6 hrs
- IP65
- Dimension: 517 x 155 x 220mm
- Height: Up to 1,85 m
- Weight: 7kg



## Perahu Fiber

### Spesifikasi:

- Menggunakan bahan baku fiberglass berkualitas, kuat dan anti korosi.
- Dayung menggunakan Besi Stainless Steel.
- Ukuran P.410 x L.150 x T.60 cm
- Kapasitas penumpang: 7 Orang Dewasa
- Maximum Load: 560 Kg
- Berat Kapal: 100Kg
- Warna tersedia: Oren, hijau army, merah, putih





# Water Tank



## Onion Portable Water Tank

### Specification:

- Good wear resistance, high tear resistance, high strength and long durability.
- Material: 980g/m<sup>2</sup> PVC coating fabric
- Material thickness: 0.8mm
- Design: Open top
- Form: self-supporting
- Inflatable time: ≤ 1 minute
- Material: polyester fabric ≥ 1000D
- Thickness: ≥ 0.7 mm • Tearing: ≥ 400N
- Breaking strength: ≥ 2500 N/cm
- Applicable temperature: -20 °C to +70 °C
- Color Orange and Blue
- Available Sizes: 500L, 1.000L, 2.000L, 5.000L, 10.000L

## Portable Water Tank With Frame

### Spesifikasi:

- Good wear resistance, high tear resistance, high strength and long durability.
- Material: 980g/m<sup>2</sup> PVC coating fabric
- Material thickness: 0.9mm
- Design: Open top
- Material: polyester fabric 1000D
- Thickness: 0.9 mm
- Tearing: 400N
- Breaking strength: 2500 N/cm
- Applicable temperature: -20 °C to +70 °C
- Available Sizes: 1000L, 2000L, 4000L, 5000L, 10,000L





# Perangkat Penyelamatan

Rescue Tools





# Rescue Tools



## IC700 Short Blade Battery Cutter

- Shorter blades are made more durable by reducing twist and torque when faced with harder materials like UHSS, AHS, and Boron steels
- In some situations, the tool's speed allows operators to make two cuts in the same amount of time large blade cutters take to make one
- Blade and center bolt design allow access to the difficult cuts
- Rotating handle allows tool to be repositioned with minimal effort

### Specification:

- Length 32.9 inches (836 mm)
- Width 8.7 inches (221 mm)
- Height 11.6 inches (294 mm)
- Weight (excl. battery) 54.3 lbs (24.6 kg)
- Weight (ready to use) 56.6 lbs (25.6 kg)
- Cutter Opening 5.8 inches (147 mm)
- Cutter Rating A7/B8/C7/D9/E9/F4
- Battery DEWALT FLEXVOLT
- Battery Voltage 60V

## IS320 32" Battery Spreader

- A powerful multi-use spreader with AMKUS Gator Tips for a reliable grip that won't rip sheet metal
- Extended Reach Tips (ERT) increase the spread an additional 8" without significant loss of power
- Gator Tips and ERT's utilize a push button release, so they're easy to install or remove, even with gloved hands

### Specification:

- Length 38.1 inches (968 mm)
- Width 11.1 inches (282 mm)
- Height 11.6 inches (294 mm)
- Weight (excl. battery) 54.6 lbs (24.8 kg)
- Weight (ready to use) 57.0 lbs (25.9 kg)
- Max Spreading Distance 31.9 inches (810 mm)
- Max Spreading Distance (with optional ERT tips) 39.1 inches (993 mm)
- Highest Spreading Force (HSF) 15,100 lbs (67.2 kN)
- Lowest Spreading Force (LSF) 10,530 lbs (46.9 kN)
- Max Spreading Force 39,500 lbs (175.7 kN)
- Highest Pulling Force (HPF) 11,500 lbs (51.1 kN)
- Lowest Pulling Force (LPF) 7,580 lbs (33.7 kN)
- Battery DEWALT FLEXVOLT
- Battery Voltage 60V







## ICT716 Combi Tool

- Removable tips make this "first on scene" tool a great option
- Useful to spread, cut, and "pop" doors
- Length with Spreading Tips 36.0 inches (915 mm)
- Length without Spreading Tips 34.8 inches (885 mm)

### Specification:

- Width 8.7 inches (221 mm)
- Height 11.6 inches (294 mm)
- Weight (excl. battery ) 59.0 lbs (26.8 kg)
- Weight (ready to use) 61.4 lbs (27.9 kg)
- Max Spreading Distance 15.6 inches (396 mm)
- Highest Spreading Force (HSF) 7,830 lbs (34.8 kN)
- Lowest Spreading Force (LSF) 6,460 lbs (28.7 kN)
- Max Spreading Force 320,000 lbs (1,423 kN)
- Cutter Opening 13.8 inches (351 mm)
- Cutter Rating A7/B8/C7/D9/E8/F5
- Battery DEWALT FLEXVOLT
- Battery Voltage 60V

## ITR500 RAM

### Specification:

- 46,500 lbs (206 kN) max pushing force from the 1st stage
- 50" Telescoping Ram with all-metal body
- Motor and valve assembly can rotate out of harms way
- Length Retracted 21.9 inches (558 mm)
- Length Extended 50.5 inches (1,283 mm)
- Weight (excl. battery ) 54.3 lbs (24.6 kg)
- Weight (ready to use) 56.5 lbs (25.6 kg)
- Stroke: Piston 1 15 inches (381 mm)
- Stroke: Piston 2 13.5 inches (346 mm)
- Stroke: Overall 25.5 inches (727 mm)
- Highest Spreading Force (HSF)
- Piston 1 46,500 lbs (206.0 kN)
- Highest Spreading Force (HSF)
- Piston 2 21,750 lbs (96.0 kN)







## CT716 Hydraulic Combi Tool

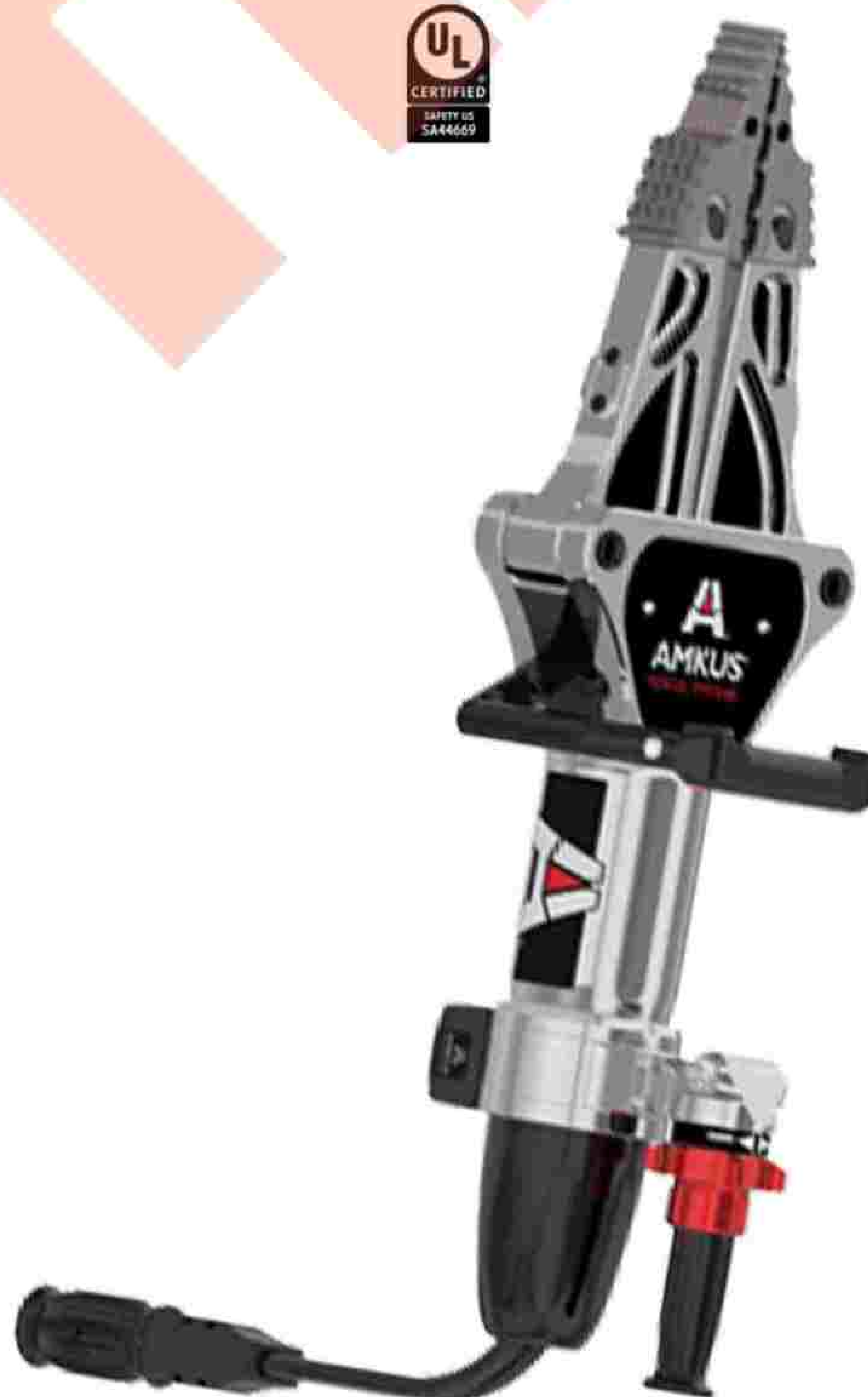
### Specification:

- Length with Spreading Tips : 34.9 inches (887 mm)
- Width : 8.7 inches (221 mm)
- Height : 10.2 inches (259 mm)
- Weight (with Standard : 50.5 lbs (22.8 kg) (Quick Couplers)
- Weight (with Mono Coupler) : 50.8 lbs (23.0 kg)
- Max Spreading Distance : 15.6 inches (396 mm)
- Highest Spreading Force (HSF) : 7,830 lbs (34.8 kN)
- Lowest Spreading Force (LSF) : 6,460 lbs (28.7 kN)
- Max Spreading Force : 320,000 lbs (1,423 kN)
- Cutter Opening : 13.8 inches (351 mm)
- Cutter Rating : A7/B8/C7/D9/E8/F5
- Rated Input Pressure : 10,500 psi (724 bar)

## S320 Hydraulic Spreader

### Specification:

- Solid aluminum tool body to withstand the severe duty of fire rescue service
- Compact tool design allow access to tight areas other tools can't reach
- Gator Tips are standard and include an aggressive tooth pattern that won't slip and beveled edges don't rip sheet metal
- High Intensity LED lights located in the handle for increased visibility
- Location of the controls offers superior operator control
- UL Certified, NFPA 1936 compliant
- Length: 36.8 inches (935 mm)
- Width: 11.1 inches (282 mm)
- Height: 10.2 inches (259 mm)
- Weight: 45.4 lbs (20.5 kg)
- Max Spreading Distance: 31.9 inches (810 mm), 39.1 inches (993 mm) with ERT Tips
- Highest Spreading Force (HSF): 15,100 lbs (67.2 kN)
- Lowest Spreading Force (LSF): 10,530 lbs (46.9 kN)
- Max. Spreading Force: 39,500 lbs (175.7 kN)
- Highest Pulling Force (HPF): 11,500 lbs (51.1 kN)
- Lowest Pulling Force (LPF): 7,580 lbs (33.7 kN)
- Rated Input Pressure: 10,500 (724 bar)







## C700M Hydraulic Cutter

### Specification:

- Solid aluminum tool body to withstand the severe duty of fire rescue service
- Cutter blades and center bolt design allow access to the difficult cuts
- A rotating handle allows the tool to be repositioned with minimal effort
- High Intensity LED lights located in the handle for increased visibility
- Location of the controls offers superior operator control
- UL Certified, NFPA 1936 compliant
- Length: 31.8 inches (808 mm)
- Width: 8.7 inches (221 mm)
- Height: 10.2 inches (259 mm)
- Weight: 45.1 lbs (20.5 kg)
- Cutter Opening: 5.8 inches (147 mm)
- Cutter Rating: A7/B8/C7/D9/E8/F4
- Rated Input Pressure: 10,500 psi (724 bar)

## TR 500 Hydraulic Ram

### Specification:

- Solid aluminum tool housings are ready for service in the severe duty demanded by first responders
- UL Certified, NFPA 1936 compliant
- Length: 21.9 inches (556 mm)
- Width: 9.7 inches (246 mm)
- Height: 4.3 inches (108 mm)
- Weight: 37.7 lbs (17.1 kg)
- Stroke, Piston 1: 15 inches (381 mm)
- Stroke, Piston 2: 13.6 inches (346 mm)
- Stroke Overall: 28.6 inches (727 mm)
- Highest Spreading Force (HSF) Piston 1: 48,540 lbs (216.0 kN)
- Lowest Spreading Force (LSF) Piston 2: 22,390 lbs (100.0 kN)





# GH2B-MCH Hydraulic Pump

## Specification:

- Length (with couplings) : 17.75 inches (451 mm)
- Length (without couplings) : 15.50 inches (394 mm)
- Width : 12.50 inches (318 mm)
- Height : 18.50 inches (470 mm)

## All weights include gas, engine oil, and hydraulic fluid

- Weight : 58.77 lbs (26.66 kg) (with Standard Couplings)
- Weight : 58.60 lbs (26.58 kg) (with female Mono Couplings)
- Weight (without couplings) : 55.40 lbs (25.13 kg)
- Fluid Type : AMKUS MV-1 Mineral Base Hydraulic Fluid

## For equipment stored and operated in environments below freezing use AMKUS MV-0 Mineral Base Hydraulic Fluid

- Hydraulic Fluid Reservoir : 0.6 gals. US (2.27 liters) Capacity
- Delivery of pump, stage 1 : 0.584 gpm per port x 2 (2212 cc/min)
- Delivery of pump, stage 2 : 0.151 gpm per port x 2 (574 cc/min)

## BOOST Mode: Single tool operation only

- Delivery of pump, stage 1 : 1.168 gpm (4424 cc/min)
- Delivery of pump, stage 2 : 0.32 gpm (1148 cc/min)
- Rated Output Pressure : 10,500 psi (724 bar)

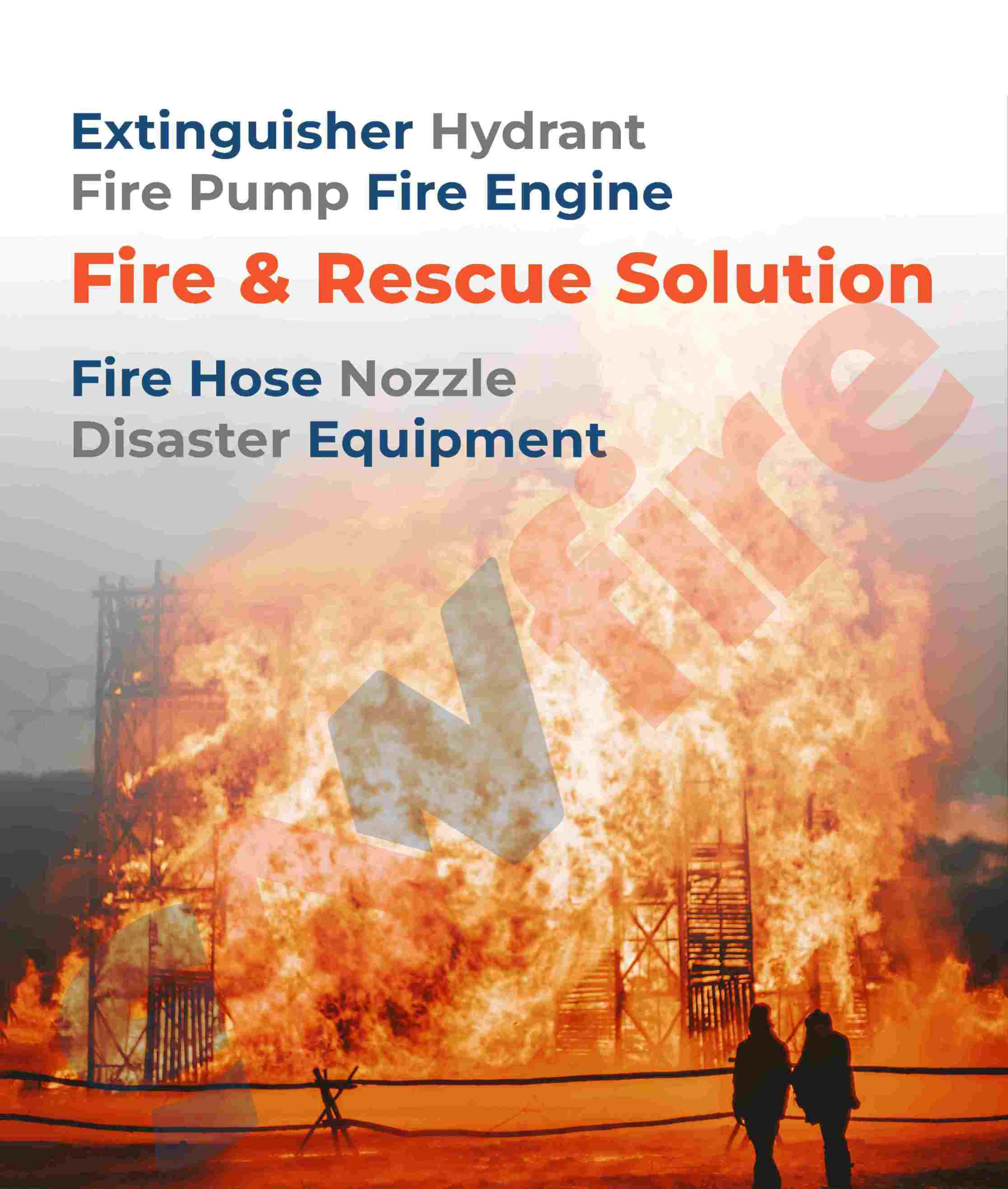




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