



FM200 FIRE
SUPPRESSION SYSTEM



FIRE EXTINGUISHER



FIRE HYDRANT SYSTEM



FIRE SAFETY
EQUIPMENT



FIRE ALARM SYSTEM



FIRE THERMATIC
AUTOMATIC SYSTEM



FIRE TUBBING DIRECT
SYSTEM



FIRE TUBBING
INDIRECT SYSTEM



FIRE THERMATIC DUAL
SYSTEM

DRY CHEMICAL POWDER

Alat Pemadam Kebakaran STARVVO kelas A B C menggunakan bahan kimia kering (serbuk) Ammonium Phosphate yang telah mendapatkan sertifikat pengujian Underwriter Laboratories Inc di Amerika Serikat. Alat pemadam Api STARVVO juga telah lulus uji Dinas Pemadam Kebakaran DKI Jakarta Kode (APR/10/01-1/III/2018 dan APR/11/02-2/III/2018).



TYPE	PORTABLE						
	SV - 10 P	SV - 20 P	SV - 30 P	SV - 50 P	SV - 60 P	SV - 90 P	SV - 12 P
BERAT ISI	1 Kg	2 Kg	3 Kg	5 Kg	6 Kg	9 Kg	12 Kg
TINGGI TABUNG	30 cm	40 cm	45 cm	53.5 cm	53.5 cm	60 cm	70 cm
DIAMETER (CM)	9 cm	10 cm	13 cm	16 cm	16 cm	22 cm	22.3 cm
BERAT KESELELURUHAN	1,65 Kg	3,4 Kg	4.6 Kg	9.1 Kg	10.1 Kg	13.7 Kg	18.1 Kg
FIRE RATING (LAB. DINAS PMK)	2A - 10B	3A - 15B	4A - 30B	6A - 30B	7A - 40B	10A - 60B	13A - 70B
EFEKTIFITAS PENYEMPROTAN (%)	95%	95%	95%	95%	95%	95%	95%
JARAK PENYEMPROTAN (m)	2 - 7 m	2 - 8 m	2 - 9 m	3 - 11 m	3 - 12 m	4 - 14 m	4 - 14 m
TEST PRESSURE	27 Bar						
WORKING PRESSURE	15 - 25 Bar						
EFEKTIFITAS PEMADAMAN	5 > 10 Detik						
TEMP RANGE	20°C > 60°C						
FINISHING	STICKER VINYL						



TYPE	TROLLEY				
	SV - 200 P	SV - 250 P	SV - 500 P	SV - 750 P	SV - 200 P
BERAT ISI	20 Kg	25 Kg	50 Kg	75 Kg	200 Kg
TINGGI TABUNG	89.5 cm	90.2 cm	97 cm	130 cm	120 cm
DIAMETER (CM)	25 cm	25 cm	38.6 kg	34 cm	60 cm
BERAT KESELELURUHAN	54 Kg	62 Kg	97 Kg	132 Kg	540 Kg
FIRE RATING (LAB. DINAS PMK)	2A - 180B	30A - 125B	30A - 125B	N/A	N/A
EFEKTIFITAS PENYEMPROTAN (%)	85%	85%	85%	85%	85%
JARAK PENYEMPROTAN (m)	9 m	10 m	10 - 11 m	12 m	13 - 14 m
TEST PRESSURE	27 Bar				
WORKING PRESSURE	15 - 25 Bar				
EFEKTIFITAS PEMADAMAN	5 > 10 Detik				
TEMP RANGE	20°C > 60°C				
FINISHING	STICKER VINYL				

PRESFIRE AF11 Liquide Gas Clean Agent Fire Fighting Agent
Composition HCFC123-2,2-dicloro-1.1.1 , trifluoroethane >93% ,
Gas Mixture-proprietary <7% . Zat yang berfungsi sebagai
pemutus reaksi kimia dari segitiga yaitu panas, udara dan bahan
bakar padat dan cair

[illegible]

Alat Pemadam Api multiguna, cocok untuk memadamkan semua jenis api baik itu kelas A B C. Diperuntukan Khusus untuk memadamkan api dengan cepat dari bahaya kebakaran yang disebabkan oleh peralatan listrik, cairan yang mudah terbakar, maupun benda padat yang mudah terbakar.

[illegible]

FIRE INDO FIRE EXTINGUISHER

DRY CHEMICAL POWDER

ABC Dry Chemical Powder Fire Fighting Agent Composition monoammonium fosfat 30.0%, ammonium sulfat 35.0%, Mica 5.0%, Methhyl H Polysiloxane 1.0%. Zat yang berfungsi sebagai pemutus reaksi kimia dari segitiga api padat cair dan gas.



TYPE	PORTABLE						
	FI - 10 P	FI - 20 P	FI - 30 P	FI - 50 P	FI - 60 P	FI - 90 P	FI - 12 P
BERAT ISI	1 Kg	2 Kg	3 Kg	5 Kg	6 Kg	9 Kg	12 Kg
TINGGI TABUNG	29 cm	37 cm	41 cm	50 cm	56 cm	57 cm	66 cm
DIAMETER (CM)	15 cm	17.5 cm	21 cm	22.5 cm	24 cm	27.5 cm	31 cm
BERAT KESELELURUHAN	1.97 Kg	3.24 Kg	5.71 Kg	7.56 Kg	9.23 Kg	12.68 Kg	18.27 Kg
FIRE RATING (LAB. DINAS PMK)	2A - 10B	3A - 15B	4A - 30B	6A - 30B	7A - 40B	10A - 60B	13A - 70B
EFEKTIFITAS PENYEMPROTAN (%)	95%	95%	95%	95%	95%	95%	95%
JARAK PENYEMPROTAN (m)	2 - 7 m	2 - 8 m	2 - 9 m	3 - 11 m	3 - 12 m	4 - 14 m	4 - 14 m
TEST PRESSURE	27 Bar						
WORKING PRESSURE	15 - 25 Bar						
EFEKTIFITAS PEMADAMAN	5 > 10 Detik						
TEMP RANGE	20°C > 60°C						
FINISHING	STICKER ANTI ROBEK						



TYPE	TROLLEY				
	FI - 200 P	FI - 500 P	FI - 750 P	FI - 1500 P	FI - 2000 P
BERAT ISI	20 Kg	50 Kg	75 Kg	150 Kg	200 Kg
TINGGI TABUNG	98 cm	85 cm	130 cm	110 cm	120 cm
DIAMETER (CM)	24 cm	31.5 cm	34 cm	54 cm	60 cm
BERAT KESELELURUHAN	65 Kg	100 Kg	132 Kg	160 Kg	540 Kg
FIRE RATING (LAB. DINAS PMK)	2A - 120B	30A - 125B	N/A	N/A	N/A
EFEKTIFITAS PENYEMPROTAN (%)	85%	85%	85%	85%	85%
JARAK PENYEMPROTAN (m)	6 m	7 m	8 m	9 m	10 m
TEST PRESSURE	27 Bar				
WORKING PRESSURE	15 - 25 Bar				
EFEKTIFITAS PEMADAMAN	5 > 10 Detik				
TEMP RANGE	20°C > 60°C				
FINISHING	STICKER ANTI ROBEK				

FIRE INDO FIRE EXTINGUISHER

FOAM AFFF 3%

AFFF FOAM 3% Fire Fighting Agent Composition Water 93%, Propylene glycol t-butyl ether 2% - 4%, Magnesium sulfate 1%-2%, Proprietary hydrocarbon, flourosursulfactant proprieteri. Zat yang berfungsi sebagai pemutus reaksi kimia dari segitiga yaitu panas, udara dan bahan bakar padat cair dan gas.



TYPE	PORTABLE			TROLLEY		
	FI - 40 F	FI - 60 F	FI - 90 F	FI - 120 F	FI - 200 F	FI - 500 F
BERAT ISI	4 Ltr	6 Ltr	9 Ltr	12 Ltr	20 Ltr	50 Ltr
TINGGI TABUNG	50 cm	56 cm	57 cm	66 cm	98 cm	85 cm
DIAMETER (CM)	22.5 cm	24 cm	27.5 cm	31 cm	24 cm	31.5 cm
BERAT KESELELURUHAN	7.56 Kg	9.23 Kg	12.68 Kg	18.27 Kg	65 Kg	100 Kg
FIRE RATING (LAB. DINAS PMK)	6A - 30B	7A - 40B	10A - 60B	13A - 70B	2A - 130B	10A - 60B
EFEKTIFITAS PENYEMPROTAN (%)	95%	95%	95%	95%	85%	85%
JARAK PENYEMPROTAN (m)	3 - 11 m	3 - 12 m	4 - 14 m	4 - 14 m	6 m	7 m
TEST PRESSURE	27 Bar					
WORKING PRESSURE	15 - 18 Bar					
EFEKTIFITAS PEMADAMAN	5 > 10 Detik					
TEMP RANGE	20°C > 60°C					
FINISHING	STICKER ANTI ROBEK					

CARBON DIOXIDE

Carbon Dioxide Co2
Fire Fighting Agent Composition Carbon Dioxide 100%
Zat yang berfungsi sebagai pemutus reaksi kimia dari segitiga api yaitu panas, udara dan bahan bakar padat, cair dan gas.



TYPE	PORTABLE				TROLLEY	
	FI - 230 C	FI - 320 C	FI - 460 C	FI - 680 C	FI - 2300 C	FI - 4500 C
BERAT ISI	2.3 Kg	3.2 Kg	4.6 Kg	6.8 Kg	23 Kg	45 Kg
TINGGI TABUNG	54 cm	73.5 cm	72.5 cm	90 cm	153 cm	164 cm
DIAMETER (CM)	17 cm	19.2 cm	40 cm	31 cm	22 cm	26 cm
BERAT KESELELURUHAN	6.8 Kg	9.5 Kg	16 Kg	25 Kg	98.5 Kg	147.5 Kg
FIRE RATING (LAB. DINAS PMK)	2B	3B	3B	4B	7B	10B
EFEKTIFITAS PENYEMPROTAN (%)	96%	96%	97%	97%	90%	90%
JARAK PENYEMPROTAN (m)	3 - 6 m	3 - 6 m	4 - 7 m	4 - 7 m	7 m	8 m
TEST PRESSURE	40 Bar					
WORKING PRESSURE	20 - 30 Bar					
EFEKTIFITAS PEMADAMAN	5 > 10 Detik					
TEMP RANGE	20°C > 60°C					
FINISHING	STICKER ANTI ROBEK					

PRESFIRE® EXTINGUISHER

DRY CHEMICAL POWDER

ABC Dry Chemical Powder Fire Fighting Agent Composition monoammonium fosfat 30.0%, ammonium sulfat 35.0%, Mica 5.0%, Methhyl H Polysiloxane 1.0%. Zat yang berfungsi sebagai pemutus reaksi kimia dari segitiga api padat cair dan gas.



TYPE	PORTABLE									TROLLEY			
	PF10P	PF20P	PF30P	PF35P	PF45P	PF50P	PF60P	PF90P	PF120P	PF250P	PF500P	PF750P	PF1000P
MEDIA	DRY CHEMICAL POWDER												
KELAS KEBAKARAN	A.B.C												
KAPASITAS	1	2	3	3,5	4,5	5	6	9	12	25	50	75	100
TINGGI (CM)	22	36	42	42	42	48	48	52	90.9	90,9	31,4	95	105
DIAMETER (CM)	12	13	13	15	15	15	15	16	16,5	27,7	31,4	34,5	39
TEST PRESSURE	27 BAR												
WORKING PRESSURE	15 - 25 BAR												
TEMP RANGE	20 > 60 ° C												
LABELING	STIKER VINYL												
FINISHING	COLOR RED, POWDER COATING												

FOAM AFFF 3%

**AFFF FOAM 3% Fire Fighting Agent Composition Water 93%,
 Propylene glycol t-butyl ether 2% - 4%, Magnesium sulfate 1%-2%,
 Proprietary hydrocarbon, flourosursulfactant propertiari. Zat yang
 berfungsi sebagai pemutus reaksi kimia dari segitiga yaitu panas,
 udara dan bahan bakar padat cair dan gas.**



TYPE	PORTABLE									TROLLEY			
	PF10F	PF20F	PF30F	PF35F	PF45F	PF50F	PF60F	PF90F	PF120F	PF250F	PF500F	PF750F	PF1000F
MEDIA	HALOTRON 23												
KELAS KEBAKARAN	A.B												
KAPASITAS	1	2	3	3,5	4,5	5	6	9	12	25	50	75	100
TINGGI (CM)	22	36	42	42	42	48	48	52	90.9	90,9	31,4	95	105
DIAMETER (CM)	12	13	13	15	15	15	15	16	16,5	27,7	31,4	34,5	39
TEST PRESSURE	27 BAR												
WORKING PRESSURE	15 - 25 BAR												
TEMP RANGE	20 > 60 ° C												
LABELING	STIKER VINYL												
FINISHING	COLOR RED, POWDER COATING												

PRESFIRE® EXTINGUISHER

LIQUID GAS CLEANT AGENT

PRESFIRE AF11 Liquide Gas Clean Agent Fire Fighting Agent
Composition HCFC123-2,2-dicloro-1.1.1 , triflouroethane >93% ,
Gas Mixture-proprietary <7% . Zat yang berfungsi sebagai
pemutus reaksi kimia dari segitiga yaitu panas, udara dan bahan
bakar padat dan cair



TYPE	PORTABLE									TROLLEY			
	PF10LG	PF20LG	PF30LG	PF35LG	PF45LG	PF50LG	PF60LG	PF90LG	PF120LG	PF250LG	PF500LG	PF750LG	PF1000LG
MEDIA	PRESFIRE AF11												
KELAS KEBAKARAN	A.B.C												
KAPASITAS	1	2	3	3,5	4,5	5	6	9	12	25	50	75	100
TINGGI (CM)	22	36	42	42	42	48	48	52	90.9	90,9	31,4	95	105
DIAMETER (CM)	12	13	13	15	15	15	15	16	16,5	27,7	31,4	34,5	39
TEST PRESSURE	27 BAR												
WORKING PRESSURE	15 - 25 BAR												
TEMP RANGE	20 > 60 ° C												
LABELING	STIKER VINYL												
FINISHING	COLOR RED, POWDER COATING												

CARBON DIOXIDE

Carbon Dioxide Co2
Fire Fighting Agent Composition Carbon Dioxide 100%
Zat yang berfungsi sebagai pemutus reaksi kimia dari segitiga api yaitu panas, udara dan bahan bakar padat, cair dan gas.



AUTOMATIC FIRE SUPPRESSION

FIRE TRAP & THERMATI PRESFIRE AF11 Liquide Gas

Clean Agent Fire Fighting
Agent Composition HCFC123-2,2-dicloro-1.1.1 ,
trifluoroethane >93% , Gas Mixture-proprietary <7% .
Zat yang berfungsi sebagai pemutus reaksi kimia dari
segitiga yaitu panas, udara dan bahan bakar padat dan cair



TYPE	PORTABLE				TROLLEY			FIRETRAP DIRECT	FIRETRAP INDIRECT	THERMATIC DUAL	THERMATIC				
	PF23CO	PF32CO	PF46CO	PF68CO	PF90CO	PF230CO	PF450CO	TUBBING SYSTEM	TUBBING SYSTEM	SYSTEM	SPRINKLER				
MEDIA	CARBON DIOXIDE							PRESFIRE AF11							
KELAS KEBAKARAN	B.C							A.B.C							
BERAT ISI (KG)	2,3	3,2	4,6	6,8	9	23	45	3	6	3	6	3	6	3	6
TINGGI (CM)	20,5	27	27	33	34	55	168	42	48	42	48	28	35	28	35
DIAMETER (CM)	14,9	14,9	19,5	19,5	20	29,5	29	13	15	13	15	23	26	23	26
TEST PRESSURE	40 BAR														
WORKING PRESSURE	20 - 30 BAR														
TEMP RANGE	20 > 60 ° C														
LABELING	STIKER VINYL														
FINISHING	COLOR RED, POWDER COATING														

STARVVO® THERMATIC FIRE EXTINGUISHER



STARVVO THERMATIC AUTOMATIC SYSTEM adalah Alat Pemadam Api yang terpasang secara modul air dan bekerja secara otomatis apabila terkena nyala api atau panas pada 57°C, 68°C, dan 93°C. Pemasangan tersembunyi didalam Plafon atau digantungkan di atas benda / peralatan yang akan dilindungi. Mudah diperiksa kondisinya siap pakai, karena kondisinya siap pakai, karena dilengkapi dengan pengukur tekanan (Pressure Gauge) yang mudah terlihat.

TYPE	ABC				
MEDIA	STARVVO AF-11				
UKURAN	Thermatic Fire Extinguisher				
MODEL	ATH - 30 MT	ATH - 50 MT	ATH - 70 MT	ATH - 100 MT	ATH - 150 MT
BERAT ISI (KG)	3 Kg	5 Kg	7 Kg	10 Kg	15 Kg
TINGGI (mm)	240 mm	245 mm	250 mm	360 mm	460 mm
DIAMETER (mm)	150 mm	226 mm	226 mm	230 mm	320 mm
BERAT KESELELURUHAN	5.58 Kg	8.5 Kg	9.7 Kg	12.3 Kg	15.3 Kg
EFEKTIFITAS PENYEMPROTAN (%)	95%	95%	95%	95%	95%
JARAK PENYEMPROTAN (m)	2 - 7 m	2 - 8 m	2 - 9 m	3 - 11 m	3 - 12 m
TEKANAN	18 Bar				
EFEKTIFITAS PEMADAMAN	5 > 10 Detik				
TEMPERATURE	±68°C				
TINGGI PLAFON	2.5 M				
KAPASITAS RUANGAN	9 - 15 m ³	15 - 17 m ³	18 - 25 m ³	30 - 34 m ³	50 - 65 m ³

- Alat pemadam kebakaran STARVVO Thermatic Automatic System, menggunakan bahan kimia HCFC 123 yang dapat bekerja mandiri.
- STARVVO Thermatic Automatic System menggunakan Head Sprinkler yang temperaturnya terdiri dari : 57°C, 68°C, dan 93°C

Cara kerja alat pemadam kebakaran STARVVO Thermatic Automatic System.

- Apabila suhu pada glass sprinkler telah mencapai 57°C, 68°C, dan 93°C, maka glass sprinkler yang fungsinya sebagai ketup penahan tekanan, secara otomatis akan pecah sendiri dan sekaligus menyemburkan isi gas HFC 123 pada sasarannya.
- Dengan kemampuan bekerjanya secara mandiri, maka alat pemadam kebakaran STARVVO Thermatic Automatic System sangat cocok di gunakan pada gudang atau ruangan yang tidak berpenjaga

STARVVO® THERMATIC AF-36 AGENT GAS DUAL ACTIVE MODE



EARLY DISCHARGE

INTEGRATED WITH SMOKE DETECTION ALARM

Kombinasi antara **STARVVO** clean agent **AF-36 thermatic** dengan **Fire Alarm Suppression System** memungkinkan Anda untuk dapat segera mengindikasikan dan mencegah potensi terjadinya bahaya kebakaran. Sistem **Dual Active Mode** yang kami modifikasi pada produk ini, sangat dapat diandalkan untuk mengidentifikasi risiko terjadinya kebakaran. Sekaligus memberikan alternatif cadangan terhadap aksi pemadaman sebelum api benar-benar meluas.

Berkat kecerdasan sistem Dual Active Mode ini, unit Thermatic mampu melakukan penyemprotan [discharge] secara mandiri yang dipicu oleh adanya indikasi asap yang ditimbulkan oleh kebakaran maupun asap yang ditimbulkan oleh efek sesak nafas. Sehingga unit Thermatic Dual Active Mode ini mampu memberikan perlindungan ekstra terhadap aset dan perangkat yang Anda lindungi sebelum api benar-benar membesar.

AUTOMATIC DISCHARGE TRIGGERED BY HEAT EFFECT

Selain menggunakan trigger alarm yang mengandalkan deteksi asap, Dual Active Mode memungkinkan unit Thermatic untuk melakukan penyemprotan [discharge] secara mandiri yang dipicu oleh adanya efek panas yang mencapai 68° Celcius. Mode ini dianggap sebagai alternatif cadangan jika Smoke Detector mengalami kegagalan pada saat mendeteksi adanya asap. Mode ini mengandalkan Head Sprinkler sebagai perangkat yang mengidentifikasi dan melakukan discharge pada saat merespon adanya panas.

KAPASITAS	3 Kg	5 Kg	7 Kg
TINGGI	240 mm	245mm	250mm
DIAMETER	150 mm	226 mm	226 mm
BERAT KOTOR	5.58 Kg	8.5 Kg	9.7 Kg
TEKANAN	18 Bar		
TEMPERATURE	±68°C		
MODEL	STV - 3T - AF36	STV - 5T - AF36	STV - 7T - AF36

CARA KERJA THERMATIC FIRE EXTINGUISHER

((BIP..BIPP...BIPPP))

INDICATING ALARM



FASE ALARM-1

TEETT...TETT..



EVACUATION
AREA
IMMEDIATELY

KRIIIIIINGGG...

FASE ALARM-2

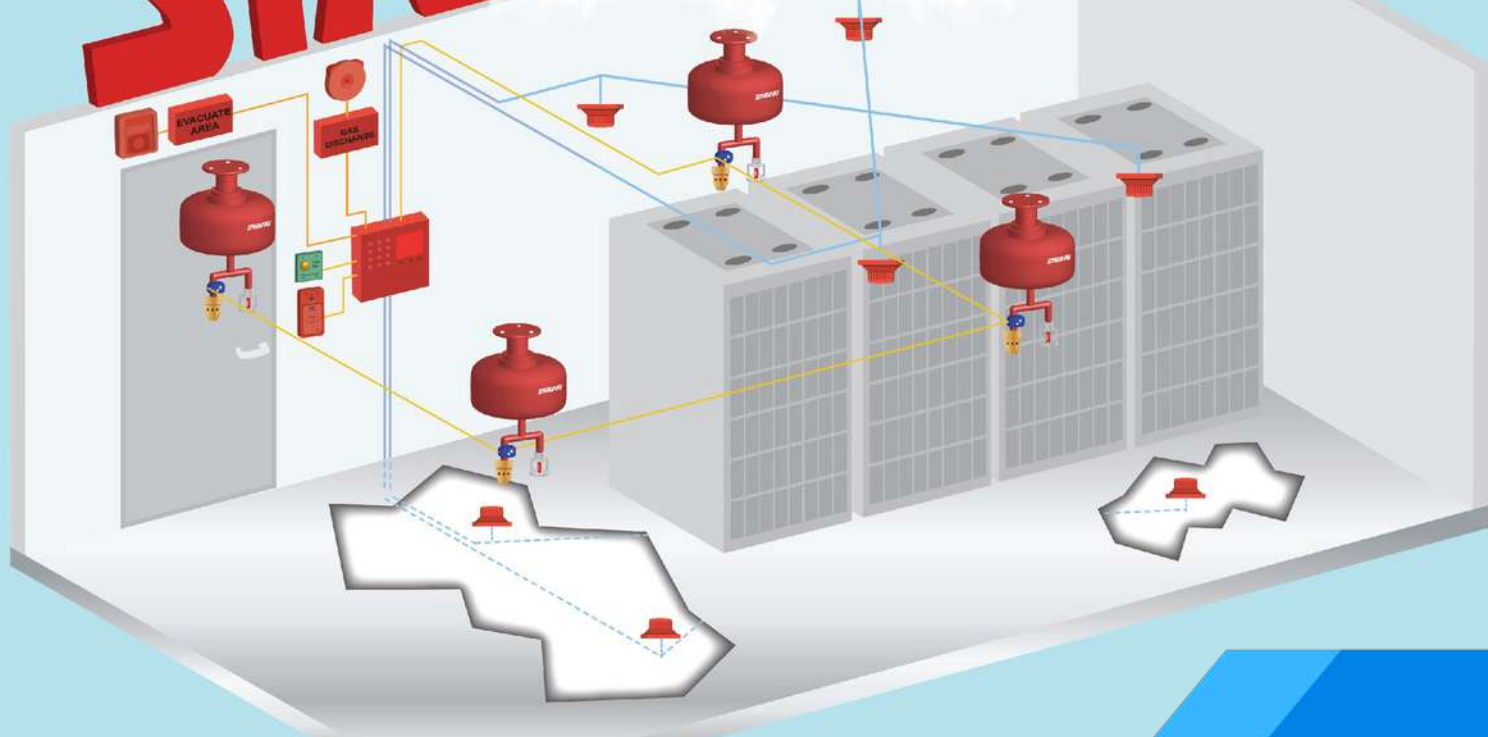
GAS
DISCHARGED



GAS DISCHARGE



STARTING



STARVVO® FIRETRAP AUTOMATIC SYSTEM



Electrical Panel FireTRAP® System



Server Rack FireTRAP® System

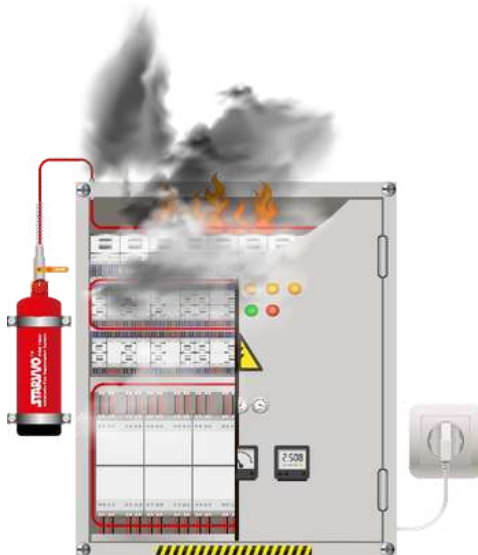


Kitchen FireTRAP® System

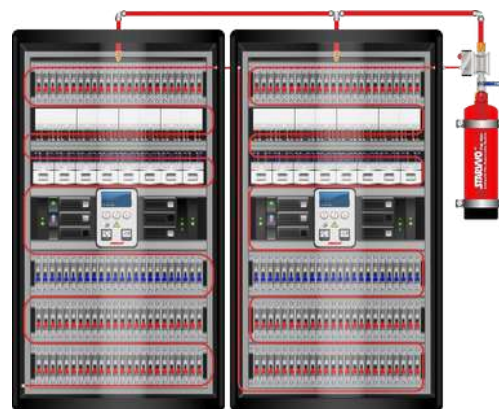


Vehicle FireTRAP® System

STARVVO FireTRAP® System adalah solusi pemadam kebakaran otomatis yang dirancang untuk melindungi berbagai aset berharga dari risiko kebakaran. Sistem ini menggunakan teknologi canggih seperti clean agent ramah lingkungan (AF-11, AF-36, FM-200, Novec 1230) dan wet chemical, yang aman untuk manusia dan peralatan elektronik, serta tidak meninggalkan residu.



PANEL LISTRIK



RACK SERVER

Aplikasi Utama:

- **Panel Listrik:** Melindungi panel distribusi, LVMDP, dan kapasitor bank dari risiko kebakaran kelas E (listrik).
- **Server Rack:** Melindungi perangkat server dari kebakaran yang disebabkan oleh panas berlebih.
- **Dapur:** Dirancang khusus untuk memadamkan kebakaran di dapur (kelas K/F), termasuk pada kitchen hood dan ducting.
- **Kendaraan:** Memberikan perlindungan untuk kabin mesin kendaraan seperti mobil, bus, dan alat berat, termasuk kebakaran kelas D (logam).

STARVVO® FIRETRAP AUTOMATIC SYSTEM



KENDARAAN



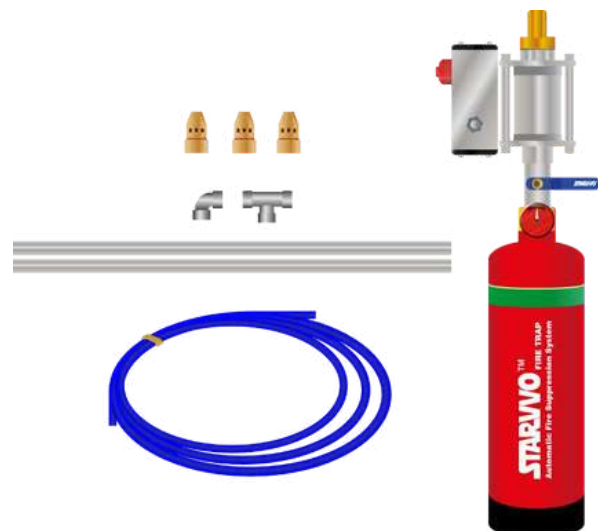
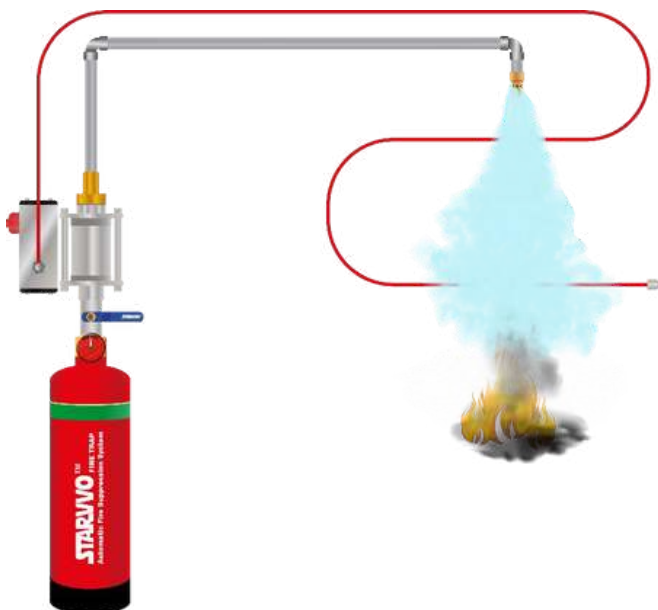
KITCHEN / DAPUR

Keunggulan Utama:

- **Otomatis dan Efisien** Sistem bekerja otomatis mendeteksi api atau suhu panas berlebih melalui fire tubing sensor atau detektor lainnya.
- **Ramah Lingkungan** Menggunakan bahan pemadam yang bersih, non-konduktif, dan tidak merusak peralatan elektronik.
- **Mudah Dipasang** Tidak memerlukan peralatan elektrik tambahan, meminimalkan biaya instalasi.
- **Fleksibilitas** Aplikasi Dapat digunakan di berbagai tempat seperti panel listrik, server rack, dapur, dan kabin kendaraan.

Cara Kerja

Sistem menggunakan fire tubing atau sensor suhu untuk mendeteksi panas berlebih. Ketika terjadi kebakaran, tabung pemadam akan mengalirkan bahan pemadam melalui nozzle ke titik api. Sistem ini bisa langsung (direct) atau tidak langsung (indirect), tergantung pada jenis aplikasinya.



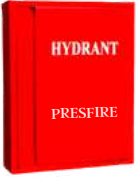
FIRE HYDRANT ACCESSORIES

HYDRANT VALVE KUNINGAN  Size : 1,5, 2, 2,5 inch Body material : Brass Casting Finishing : Natural Working Pressure: 60 bar Couplink : Machino, VDH, Storz,NH	FIRE HOSE CANVAS  Brand: PRESFIRE Size : Working Pressure: 10-16 Bar 1,5 X 20 M Test Pressure: 32 Bar 1,5 X 30 M Bursting Pressure: 48 Bar Coupling: Machino / Storz / 2,5 X 20 M VDH / NHT / Instantaneous 2,5 X 30 M	FIRE HOSE EPDM  Brand: PRESFIRE Size : Working Pressure: 16 Bar 1,5 X 20 M Test Pressure: 32 Bar 1,5 X 30 M Bursting Pressure: 48 Bar Coupling: Machino / Storz / 2,5 X 20 M VDH / NHT / Instantaneous 2,5 X 30 M	FIRE HOSE RUBBER  Brand: PRESFIRE Size : Working Pressure: 13-20 Bar 1,5 X 20 M Test Pressure: 32 Bar 1,5 X 30 M Bursting Pressure: 48 Bar Coupling: Machino / Storz / 2,5 X 20 M VDH / NHT / Instantaneous 2,5 X 30 M
FIRE NOZLE ALUMINIUM  Working Pressure: 10 bar Body material : Brass Pipe Finishing : Polesh Coupling: Machino Size : 1,5 2,5 inch	FIRE NOZLE KUNINGAN  Working Pressure: 10 body material : Metal Copper & Brass Finishing : Polesh Coupling: Machino Size : 1,5 2,5 inch	FIRE NOZLE AWG  Material: Alumunium Style/Mixture Flow: 400 L/min Size Inlet: 2.5" Machino coupling Foam Nozzles w/ball valve shut-off S4	GUN NOZLE  Brand: PRESFIRE Material: Alumunium Working Pressure: 100Psi Color: Full Black or Black and Red Size : 1,5 inch Max Flow: 34M Flow Rate @ 100Psi Size: 2,5 inch Max Flow: 37M Flow Rate @ 100Psi
VARIABLE SPRAY HEAD ALUMINIUM  Working Pressure: 10 bar Body material : Alluminium Alloy Finishing : Natural Size : 1,5-2,2,5 inch Weight : 260, 300, 570 gr	VARIABLE SPRAY HEAD KUNINGAN  Working Pressure: 10 bar Body material : Brash Casting Finishing : Natural Size : 1,5-2,2,5 inch Weight : 260, 300, 570 gr	HYDRANT VALVE ALUMINIUM  Size : 1,5, 2, 2,5 inch Body material : Alluminium Alloy Finishing : Natural Working Pressure: 60 bar Couplink : Machino, VDH, Storz,NH	FOAM INDUCTOR L W/O HANDLE Z4R  Brand/Origin: AWG (Germany) Material: Alumunium Style/Mixture Flow: 400 L/min Size Inlet: 2.5" Machino coupling Size Outlet: 2,5" c/w Machino coupling Complete with: Pick-up hoses for foam liquid
SIAMESE CONECTION KUNINGAN  Body material : Brass Casting Finishing : Natural Working Size 4 X 2,5 X 2,5 inch	SIAMESE CONECTION ALUMINIUM  Body material : Alluminium Alloy Finishing : Natural Working Size 4 X 2,5 X 2,5 inch	Y CONECTION BOUBLE HANDLE  Brand: AWG Material: Alumunium Coupling: Machino Working pressure: 10 bar Size Inlet: 2,5" Size Outlet: 2 x 1,5"	Y CONECTION DOUBLE HANDLE  Material: Alumunium Coupling: Machino Working pressure: 10 bar Import / Ex. China Size Inlet: 2,5 inch Size Outlet: 1,5 x 1,5 inch

FIRE HYDRANT ACCESSORIES

REDUCER ADAPTOR COUPLING MACHINO  Bahan : Kuningan Asli Fungsi : Merubah ukuran Coupling Machino dari 2,5" ke 1.5" atau di gunakan untuk menyambungkan Hydran ke selang coupling Size : 1,5 2,5 inch	ADAPTOR MACHINO FEMALE KUNINGAN  Working Pressure: 10 bar Body material : Brass Casting Size 1,5 2,5 inch	ADAPTOR MACHINO FEMALE ALUMINIUM  Working Pressure: 10 bar Body material : Alluminium Alloy Size 1,5 2,5 inch	COUPLING VDH KUNINGAN  Body material : Brass Casting Finishing : Natura Size 1,5-2,5 inch
COUPLING MACHINO ALUMINIUM  Size : 1,5, 2, 2,5 inch Body material : Alluminium Alloy Finishing : Natural Working Pressure: 60 bar	COUPLING MACHINO KUNINGAN  Size : 1,5, 2, 2,5 inch Body material : Brass Casting Finishing : Natural Working Pressure: 60 bar	COUPLING STORZ KUNINGAN  Body material : Brass Casting Finishing : Natura Size 1,5-2,5 inch	COUPLING STORZ ALUMINIUM  Body material : Alluminium Alloy Finishing : Natura Size 1,5-2,5 inch
COUPLING INSTANTANEOUS KUNINGAN  Body material : Brass Casting Finishing : Natura Size 1,5-2-2,5 inch	COUPLING INSTANTANEOUS ALUMINIUM  Body material : Alluminium Alloy Finishing : Natura Size 1,5-2-2,5 inch	COUPLING VDH ALUMINIUM  Body material : Alluminium Alloy Finishing : Natura Size 1,5-2-2,5 inch	HOSE RACK  Material: Alumunium Size : 1,5 2,5 inch
HYDRANT PILLAR TWO WAY  Brand : PRESFIRE Size 4 X 2,5 X 2,5 inch	FIRE MONITOR  Fire Monitor All Type Size 1,5 inch 2,5 inch	POMPA PUNGGUNG  Backpack Jet Shooter / Pompa Punggung Pemadam Kebakaran Hutan Lahan kapasitas 20liter – complete set Brand: ENDLESSAFE Model Number: ES-170020	FIRE HOSE RAMP  Fire Hose Ramp / Fire Hose Ramp Untuk selang 1,5 dan 2,5 inch

FIRE HYDRANT ACCESSORIES

INDOOR HYDRANT BOX (IHB) TYPE A1  Indoor Hydrant Box Type A1 BRAND : PRESFIRE Plat : 1,2mm Size : 66 X 52 X 15Cm	INDOOR HYDRANT BOX (IHB) TYPE A1 KACA + KUNCI  Indoor Hydrant Box Type A1 (Kaca + Kunci) BRAND : PRESFIRE Plat : 1,2mm Size : 66 X 52 X 15Cm	INDOOR HYDRANT BOX (IHB) TYPE A2  Indoor Hydrant Box Type A2 BRAND : PRESFIRE Plat : 1,2mm Size : 100 X 80 X 18Cm	INDOOR HYDRANT BOX (IHB) TYPE A2 (KACA + KUNCI)  Indoor Hydrant Box Type A2 (Kaca + Kunci) BRAND : PRESFIRE Plat : 1,2mm Size : 100 X 80 X 18Cm
INDOOR HYDRANT BOX (IHB) TYPE B  Indoor Hydrant Box Type B BRAND : PRESFIRE Plat : 1,2mm Size : 125 X 75 X 18Cm	INDOOR HYDRANT BOX (IHB) TYPE B (KACA + KUNCI)  Indoor Hydrant Box Type B (Kaca + Kunci) BRAND : PRESFIRE Plat : 1,2mm Size : 125 X 75 X 18Cm	OUTDOOR HYDRANT BOX (OHB) TYPE C  Outdoor Hydrant Box Type C BRAND : PRESFIRE Plat : 1,2mm Size : 95 X 66 X 20Cm	OUTDOOR HYDRANT BOX (OHB) TYPE C (KACA + KUNCI)  Outdoor Hydrant Box Type C (Kaca + Kunci) BRAND : PRESFIRE Plat : 1,2mm Size : 95 X 66 X 20Cm
BOX APAR UKURAN 3 KG  - Material : Mild Steel Plate (Plat besi) - Menggunakan kaca di bagian depan (pintu) dilengkapi kunci dan handle - Paint Finish: Powder Coating warna merah - ukuran : 30 X 55 X 20 cm	BOX APAR UKURAN 6 KG  - Material : Mild Steel Plate (Plat besi) - Menggunakan kaca di bagian depan (pintu) dilengkapi kunci dan handle - Paint Finish: Powder Coating warna merah - ukuran : 30 X 60 X 20 cm	BOX APAR UKURAN 9 KG  - Material : Mild Steel Plate (Plat besi) - Menggunakan kaca di bagian depan (pintu) dilengkapi kunci dan handle - Paint Finish: Powder Coating warna merah - ukuran : 35 X 65 X 20 cm	BOX APAR UKURAN 12 KG  - Material : Mild Steel Plate (Plat besi) - Menggunakan kaca di bagian depan (pintu) dilengkapi kunci dan handle - Paint Finish: Powder Coating warna merah - ukuran : 35 X 70 X 22 cm
BOX HYDRANT TYPE B WITH BOX APAR WITH GLASS  - Box (With Glass) – Vertical - Size : 75 (W) X 125 (H) X 20 (D) - Material : Mild Steel Plate - Paint Finish : Powder Steel Plate - Warna : Warna Box Bisa Kustom : Merah, Silver, Putih	BOX HYDRANT TYPE B WITH BOX APAR WITH GLASS  - Size : 110 (W) X 125 (H) X 20 (D) - Material : Mild Steel Plate - Paint Finish : Powder Steel Plate - Warna : Warna Box Bisa Kustom : Merah, Silver, Putih	LEMARI SAFETY  - Lemari safety list karet - Size 180 x 120 x 40 cm - Material Plat mild steel 1,2mm include cat powder coating red - Pintu kaca riban 3mm	FIRE TROLLEY  - Rangka Hollow + Plat 1,2mm - Finishing Powder Coating - Dimensi Box Trolley : P.100 x L.60 x T.90 cm - Bagian atas Box Trolley ada tambahan Plinth setinggi 10cm - Terdapat Box P3K dengan dimensi P.30 x L.15 x T.40cm - Bagian dalam Box P3K terdapat 1 ambalan

SAFETY & RESCUE EQUIPMENT

SARUNG TANGAN KATUN  Bulldozer Sarung Tangan Abu-Abu Sarung Tangan Kat un	SARUNG TANGAN KARET  GOSAVE Ecogrip Combination Leather Gloves	SARUNG TANGAN MEKANIK  UVEX Sarung Tangan Safety Mekanik Wet	SARUNG TANGAN ANTI STATIS  UVEX Mechanical Risks Electrostatic Discharge Glove (Sarung Tangan Anti Statis)
CIG GLOVES FIRE/ THERMAL HANDLING  Gloves for heavy duty protection from heat and welding sparks with fully lining	SARUNG TANGAN PEMADAM NOMEX IIIA  Bahan NOMEX IIIA Bahan 93% meta aramid Fiber, 5% para aramid, 2% serat karbon P-140. Kombinasi Kulit Sapi Asli 250 gram	KACAMATA SAFETY/PENGAMAN  KING'S Icaria Safety Glasses (Kacamata Safety)	KACAMATA SAFETY/PENGAMAN  3M Kacamata Safety (Kacamata Safety) Frame Material plastic Lens Material Polycarbonate Lens Coating anti fog
KACAMATA SAFETY GOGGLE  KRISBOW Goggle Chemical Ventilasi tidak langsung, bingkai vinil dan lensa polikarbonat, perlindungan ideal terhadap percikan bahan kimia.	KACAMATA SAFETY GOGGLE  3M Goggle Gear 500 Series Spesifikasi Lens Marking Z87+	SAFETY JOGGER SEPATU SAFETY DESERT-011 S1P  Safety Jogger Desert S1P tidak hanya industri namun bisa untuk kegiatan outdoor. Didesain agar fleksibel dan bergaya karena terlihat sangat modis.tahan beban 1.5ton,Midsole Steel tahan tusukan 1100N	CHEETAH SAFETY SHOES REBOUND 7288C  Color Brown Sepatu keselamatan dengan Outsole Dual-Density PU ringan yang memberikan daya tahan outsole superior dengan bantalan midsole yang sangat baik
SAFETY JOGGER SEPATU SAFETY DAKAR-019 S3  Series Dakar-019 S3	AP BOOTS SEPATU BOOTH SAFETY S5 KUNING  Kuning Panjang (Safety + Toe Cap + Midsole Plate). standar keamanan EN – 20345 3M Scotchlite dan bahan reflektif pada bagian belakangnya.	CHEETAH SEPATU SAFETY REBOUND 7001H  Color Black Toe Cap Steel Outsole Dual PU Midsole Steel	CHEETAH SEPATU SAFETY REBOUND 7106H  Color Black Toe Cap Steel Outsole Dual PU Midsole Steel

SAFETY & RESCUE EQUIPMENT

KRISBOW SAFETY HELMET FRONT BRIM NON VENTED  TypeNon Vented Safety Approval ANSI,CED imensions (cm)28x2 2x16 MaterialHDPE	CIG SAFETY HELMET 6 POINT VICTOR  Standards/Approvals CE EN 357 Application For protection from impact Material ABS (shell)	MSA HELM LOKAL STRAP (HELM SAFETY)  Color White Green Yellow Orange Blue Red	MSA VGARD FASTRAC CAP (HELM SAFETY)  MSA V-Gard dikenal karena kenyamanan, kualitas, dan daya tahannya. Helm MSA V-Gard, dengan desain "V" merek dagangnya yang khas, adalah merek yang diakui dunia yang terkenal akan kenyamanan, kualitas, dan daya tahannya.
NON BRAND FIRE FIGHTING HELM REGU PEMADAM  Color Red Dimensions (cm) 30x30x30 Helm regu pemadam kebakaran Tahan panas, anti pecah, dan aman digunakan, berstandar sni	KRISBOW WELDING HELMET  Helm las yang ringan, tahan benturan serta nyaman dan tahan lama.	SOS SAFETY FIREMAN HELMET FULLGARD  Size (cm) 27 Helm regu pemadam kebakaran Tahan panas, anti pecah, dan aman digunakan	BULLARD HELMET FOR RESCUE  Crown Strap Suspension Material 2-3/4 inch nylon woven straps attached to four nylon key Outer Shell Material Thermoplastic Inner Shell Material Nylon Impact Cap Dimension (LxWxH) 12,75x10x6,5 inch Suspension 4-point nylon crown strap
PROTECTOR BUSH FIRE HELMET  Fluro Yellow PC, Elastic Chinstrap Available with lightweight visor	JJXF FIREMAN HELMET  Temperature Resistance (°C) 260 Faceshield light colored, transparent, high temperature resistant polyethersulfone	MSA FIREMAN HELMET  Size L Length (inch) 12,992 (330mm) Height (inch) 10,236 (260mm) Width (inch) 11,417 (290mm) Part Number GYL1018500000 RE16 Color Red Glossy with Gold Plate	JJXF FIREMAN HOOD  Material 50%nomex 50%Vicose FR Thermal Stability, shrinkage 0.041 Pilling Resistance Level 4 Seam Strength 916.7N Structure 2 Layers
ALUMINIZED FIRE PROXIMITY SUIT PRATECH  Radiant Heat Temperature : 1000 tmp Hydraulic Pressure : Less than 3.2 Kg Refraction : 70% Flame Retardant Time : ≤10s Material : Aluminized Fabric Function : Anti-static Consist Of : 3 Layer	PRATECH FIREMAN SUIT NOMEX IIIA  Material nomex + kevlar fiber Berat Produk 4 kg Dimensi 40 x 40 x 15 cm Nomex IIIA: baju nomex kevlar fibr adalah nomex 93% Lapisan tengah: nomex non wovenlaminated with FR	SAFEGARD JAS HUJAN PLUS SCOTLIGHT  Material PCV, POLY, PVC 0.35mm.	IMJ WEARPACK NAVY BLUE  Material : American Drill Color : Navy Blue

SAFETY & RESCUE EQUIPMENT

KRISBOW COVERALL WEARPACK  Coverall Waerpack Blue Navy Material : American Drill	GOSAVE 4 LINE MECHANIC VEST  - Big scotlight PVC - Fabric polyester - 120g sm - 100% polyester - 3 sockets - Zipper lock system	GOSAVE WELD APRON BLUE  Size (cm) 53x85 - 100% cow leather - High quality grade leather - Included arm protector - without seam connectors leather	SPEED HUMP (POLISI TIDUR)  Color Black-Yellow Material Rubber Dilengkapi reflective
CONVEX MIRROR  convex mirror kaca cembung SIZE : 45, 60,80, 100 CM	SAFETY STICK CONE  Bahan Dasar karet, bila tertabrak mobil atau motor tidak cepat rusak Pemakaian dengan dinabol 10 mm	PLASTIC CONE CHAIN  astic cone chain 6mm x 50m merah, kuning	CONE BAR  Bahan : Plastik ABS Bahan Penyangga : Plastik Elastis Kelebihan: - Terdapat reflective spot (terang saat terkena cahaya) - Retractable (bisa ditarik sampai 2 Meter) merah, kuning
TRAFFIC CONE  - 100% soft PVC material - Impact resistance - Solid base (stable) - High visible scotlight - 2pcs injection design - Tie spot.	ROAD BARRIER  Color Red Dimensions (cm) 120x50x80 material Plastic Isi untuk pasir/ air : 150 liter, dilengkapi scotlight	TRUSCO BARRIER LINE (FOR CONES)  Width (mm)98 Body: ABS Resin Joint Tape: Polyethylene (PE)	UVEX EARMUFF PHEOS K2H VISOR ATTACHED  Manual helmet connection for combining with Uvex Pheos helmet system 9900. Compatible with the Uvex pheos visor 360 rotation for standby and resting positions. EN 352-1.
3M E-A-R ULTRAFIT CORDED EARPLUGS  3M E-A-R UltraFit Corded Earplugs Hearing Conservation 340-4004 Size One Size Fits Most Material Elastomeric Polymer Color Yellow	GOSAVE FULL BODY HARNESS PROX ABSORBER DOUBLE BIG HOOK  - Double lanyard with absorber - 4 Adjustable point - D-ring - 100% polyester - Webbing width 50mm - Tool bag - Stitching rope - Pro forged hook - +big carabiner	KRISBOW HALF MASK RESPIRATOR  - Soft durable pliable rubber facepiece. - Durable elastic headband, deep chin cup for a roomy. - Comfortable seal and easy exhaling. - Cartridge sold separately.	4LIFE PLASTIK BOX KIT (KOTAK P3K)  Dimensions (cm) 39x29.5x11 Material Fiber Color White

SAFETY & RESCUE EQUIPMENT

SEABEE SPEEDBOAT W270 S  Model Number W270 S Unit 1pc Length (cm) 270.0 Width (cm) 150.0 Tube Diameter (cm) 45.0 Maximum Person Capacity 5 Maximum Engine Capacity (HP) 9.8 Berat (Kg) 45	SEABEE RAFTING BOAT 360 WELDING  Model Number 360 Welding Unit 1pc Length (cm) 360.0 Width (cm) 165.0 Tube Diameter (cm) 42.0 Maximum Person Capacity 6 Berat (Kg) 80	PERAHU PLASTIK PE BOAT CRUISER KAPAL RESCUE  Length : 260 cm Width : 105 cm High : 50 cm Max Load : 4 Person 4 pcs hand grips Material : PE (Polyethylene) Double Layers 1 Pcs paddle incld Compatible for fishing etc. Recommended outboard motor 15pk Maximal 10 HP 46KG (105CM X 260CM)	MESIN TEMPEL YAMAHA 2 TAK 40  Model : E40GMH Tinggi Transom : L = 22.5 in Volume isi Silender (cm3) : 669 cc Sistem Induksi Bahan Bakar : 1 karburator dual throat Sistem Kemudi : Tongkat Kemudi Sistem Pelumas : pre-mix Berat : 65-71 kg
KRISBOW LIFE VEST LEG STRAP WHISTLE  Size XL Type Life Vest Color Orange Material EPE foam and high visibility Berat (Kg) 0.9	SPEED HUMP (POLISI TIDUR)  Size XL Type Life Vest Color Orange Material EPE foam and high visibility Berat (Kg) 2	TENDA PENGUNGI  • Ukuran P x L x T 5.5x12x3.25 meter. • Bahan Rangka terbuat dari pipa black steel ketebalan 1.35mm lingkaran 1.1/4 inci. • Bahan kain terbuat dari kain cordura double coating. • Include sablon 8 huruf di bagian samping dan logo di depan bagian pintu. • Belum termasuk peti box besi. • Berat tenda berkisar 200kg.	TENDA KEMPING CAMEL KELUARGA  • Ukuran Besar : L • P x L x T : 430cm * 308cm * 200cm • eksternal: 210T UV50 + polyester tahan air 4500mm • Inner: 210T poliester tahan air 4500mm + mesh kepadatan tinggi • Kain dasar: wearable 4500mm PE tahan air
TENDA PELETON  Tenda Pleton / tenda pengungsi Tenda pleton 6 x 14 Spesifikasi Bahan terbuat dari Dinir 300 Soft4 tiang utama 3 tiang penyangga 28 tiang samping 36 pasak dan 1 martil Tali samping sudah di jahit menyatu dgn tenda (simpl)	POMPA APUNG HONDA GXV160  Appearance : 800x800x480 mm Device weight : < 45 kg Rated flow : 480L/m Pump head : 45 m Out pressure : 0.3Mpa Dia. of nozzle : 19 mm Model of engine : 5.5HP, GXV160 Pump Body : Singe stage	VELLBAD  Bahan : PVC, oxford & steel frame Size : 1900x640x420 Berat : 13 lbs Kapasitas berat : 176 lbs	TANDU LIPAT  - Dimensi Produk: 2210 x 530 x 150mm - Dimensi Produk terlipat: 1100 x 180 x 220mm - Berat Bersih: 6 Kg - Berat Maksimal: 159 Kg - Terdapat shield belt - Terdapat tas tandu lipat - Pegangan tandu dari bahan karet
STRETCHER FOLDABLE SYSTEM  Type : Hand Tool Parts gin : Mainland China Is Customized : Yes Material : Special Composite Pvc Raw Materials Load : 120Kg Temperature Resistance : -20 ° C ~ 45 ° C Weight : 11.5Kg Size : 2440*920*5Mm	KANTONG MAYAT  Bahan D300 ukuran P 190 69 cm Ukuran Tali lebar 4 CM Bahan Anti Air & Tebal (Polyster D300) Ada 6 Tali Pegangan buat mengangkat RESLETING 2 Arah kuat untuk Buka Tutup	POTENZA FRACTURE KIT  Adult & Child Leg Splint Adult & Child Arm Splint Arm Shoulder Immobilizer Neck Collar Slings Slings Bag Bahan : Durable Nylon yang waterproof Terdapat Reflective Tape Dimensi : W 70 X H 30 X D 8 cm Berat : 4 Kg	4LIFE PLASTIK BOX KIT (KOTAK P3K)  Dimensions (cm) 39x29.5x11 Material Fiber Color White

SAFETY & RESCUE EQUIPMENT

LONG SPINAL BOARD  Material : PE (Polyethylene) Tipe : YDC 7 B2 Jenis : Emergency S trecther Tipe : Spinal Board YDC 7 B2	WHEELED LITTER CARRIER  The lightest wheeled litter cart on the market Adjustable for different litter widths Rave n®, T3 and Medevac litters (sold separately) Also performs as litter stand in the field Easily foldable for transport & storage Rugged, stackable carrying case	EMERGENCY EVACUATION CHAIRS  Brand: UNICARE Model: RC-D1 Product size(Open): 52*48*91cm Product size(Folded): 91*52*19cm Self-weight: 11kg Bearing capacity: 160kg Packing quanyity: 1pcs Packing size: 95*51*26cm Packing weight: 13kg	BASKET STRETCHER  Ukuran Produk (LxWxH): 220x63x19cm Ukuran Dilipat (LxWxH): 130x61x26cm Ukuran Packing: 135x64x28cm Nett Berat: 21 kg Berat Kotor: 23 kg Load Bearing: 159kg
SENER RESQUE  Senter Bateri Cas isi ulang, Lead Acid 4v 2000mAh, sumber arus ac 220v/50hz, terang cahaya 15watt, emergenci led 12 led smd, jarak cahaya 1500m/1.5km, ada fungsi sos, pemakaian 8 jam. Warna merah hitam.	SENER RESQUE ANTI AIR  merk Camelion, berat 300g, jenis senter diving, surving, tahan terhadap air dengan kedalaman 5m, LED daya 5w, sklar putar magnetic, durable body material ABS, power 3 x AA baterai, model pencahayaan Hight, low strobe, 180 lumens.	KAMPAK PEMADAM 2 MATA  kampak pemadam dua fungsi untuk pemotonang dan penyongkel, bahan baja, gagang dari kayu kokoh, ukuran 60cm, warna merah.	RESCUE CHAINSAW STHIL MS-661  Kekuatan Mesin : 5.4 kW / Tanki Bahan Bakar : 28.7 Oz [825 cc] Kapasitas Oli : 13.5Oz [360 cc] Sistem Pengapian Mesin : CDI Air Filter : HD2 Panjang Bar : 30 Inch Rantai Standard : 0.404" Bahan Bakar : Bensin Campur Oli 2T Berat Mesin : 7.4 Kg
FIRE BLANKET  Ukuran : 1,2x1,2 m 1,2x1,8 m 1,8x1,8 m	SUNTIKAN GAMBUT  Etalase: Alat Pemadam Suntikan gambut Bahan Pipa Galvanis Diameter Coupling : 1,5 Inch (Machino) Panjang: 2 meter	GARU CANGKUL  Bahan garu dari plat besi Acer Ketebalan 2 mm Ukuran garu: panjang 30 cm dan lebar 26 cm Tangkai pipa besi hitam diameter 1 inch panjang 20 cm dari dasar garu Tangkai kayu dengan kelas kuat 3 yakni kamper diameter 3 cm panjang 120 cm	TONGKAT PENJEPIIT ULAR  Type : Non folding - Self Locking Material : Stainless steel Length : 120cm Unit Utama
BRETHING APPARATUS  Merk : HYPRO Model : RHZKF 6.8/30 Working Pressure : 30 Mpa Volume : 6.8 Litre Air Deposit : 2040 L Period : 60 - 65 min Alarm Pressure : 5 - 6 Mpa	SCBA HYPRO COMPOSITE  - Material : Carbon Composite - Working Pressure : 30 Mpa - Volume : 6.8 Litre Air - Deposit : 2040 L Period : 60 - 65 min Alarm Pressure : 5 - 6 Mpa	POMPA JINJING  -Merk : Honda GXH50 -Type : 4-stroke, Horizontal, silinder tunggal, OHV -Out Put Power : 2.1 HP (1,6 kW) @ 7000 RPM -Net Torsi : 2,7 Nm @ 4500 RPM -Sistem Starting : Recoil -Governor : Centrifugal Mechanical -Pendinginan : Air Cooled -Isi Pelumas : 0,25 liter -Jenis BBM : Bensin tanpa timbal -Isi BBM : 2 liter -Konsumsi BBM : 0,65 L /jam -Type : Single Stage Sentrifugal -Maksimum Tekanan : 85 PSI (5,9 bar) Flow Maksimum : 68 GPM (257 lpm)	POMPA PORTABLE  Engine Type Honda GX-390ES Bore x Stroke (mm) 88 x 64 Displacement (cm3) 389 Net Power Output 11.7 HP (8.7 kW) @3600rpm Net Torque 19.5 lb-ft(26.4 Nm) @2500rpm Cooling System Air Fan

DEMCO FIRE DETECTION / PREVENTION PRODUCT AND ACCESSORIS

D-102

Dome Bell



- Supply Voltage: 24V DC
- Working Tolerance: 20V – 28V DC
- Standby Current: Nil
- Alarm Current: 0.05 Amps
- Decibel Rating 1 meter: 103 dB
- Sizes: 4" (100mm) Ø
6" (150mm) Ø
8" (200mm) Ø

- Colour Choices: Signal Red & Light Grey

Available Ranges

DC	6V	12V	24V
AC	110V	240V	

Please specify voltage / colour / Ø when ordering

D-132

Motorised Driven Dome Bell



- Supply Voltage: 12V and 24V DC
- Alarm Current: 0.03 Amps
- Decibel Rating 1 meter: 103 dB
- Sizes: 6" (150mm) Ø
8" (200mm) Ø
- Colour Choices: Signal Red & Light Grey

Please specify voltage / colour / Ø when ordering

D-122

Dome Bell (UL Listed)



- Supply Voltage: 24V DC
- Working Tolerance: 20V – 28V DC
- Standby Current: Nil
- Alarm Current: 0.05 Amps
- Decibel Rating 1 meter: 98 dB
- Sizes: 6" (150mm) Ø
8" (200mm) Ø
- Colour: Signal Red

Please specify voltage / colour / Ø when ordering



D-103

Heat Detector



- Dual Sensitivity Detection Mode (Rate-of-Rise & Fixed Temperature)
- Fixed Temperature Point: 135°F (57°C) or 190°F (88°C)
- Interchangeable Base
- Double Terminal Wire Connector
- LED Indication
- Supply Voltage: 12V – 24V DC
- Standby Current: Nil
- Alarm Current 1.5mA
- Dimension: 78 (Ø) x 55 (D) mm

Please specify fixed temperature point when ordering

D-213

Photoelectric Smoke Detector



- Advanced Photoelectric Smoke Sensing Technology with High Reliability
- Durable Sensor Head and Excellent Smoke Access
- Easy Installation and Maintenance
- Optional/integrated heat detector
- Wide Range of Options



D-223

Self-contained Smoke Detector



See individual product literature for more details



Photoelectric Smoke Detector Series 65A



55000-326IMC

- Supply voltage: 9 to 33V
- Incorporate a Pulsing LED
- Standby Current at 9V: 40uA
24V: 45uA
- Alarm Current at 24V: 52mA
- With Remote Indicator Output



55000-139IMC
55000-145IMC
(Intermediate)

Heat Detector Series 65A

- Supply voltage: 9 to 33V
- Incorporate a Pulsing LED
- Standby Current at 9V: 40uA
24V: 45uA
- Alarm Current at 24V: 52mA
- With Remote Indicator Output
- Alarm Upper Limit: 135°F (55000-139IMC)
200°F (55000-145IMC)

DEMCO FIRE DETECTION / PREVENTION PRODUCT AND ACCESSORIS

D-118

Manual Call Point D-118



- Dimension: 88 (W) x 88 (H) x 55 (D) mm
- Casing: ABS Plastic
- Current Ratings: 12V/24V DC ~ 10A
48V DC ~ 3A
250V AC ~ 10A
- Connection: TERMINAL-MAX 2.5mm² Cable
- Net/Gross Weight: 150/176g
- Colour Choices: Red, White, Yellow, Green, Blue
- Resettable From Base
- Optional Features: Polycarbonate Cover, Custom Imprint, LED, Resistor, Blocking Diode

Please specify colour and options when ordering



D-101

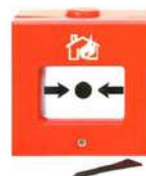
Manual Call Point D-101



- Dimension: 113 (W) x 83 (H) x 50 (D) mm
- Casing: ABS Plastic
- Double Terminal Wire Connectors for Independent Input and Output Connections.
- Current Ratings: 12/24V DC ~ 10A / 48V DC ~ 3A / 250V AC ~ 10A
- Net/Gross Weight: 188/208g

Resettable Call Point D-128

D-128



- Resettable Manual Call Point Activate Without Glass Breaking. Suitable for Food Industry
- Dimension: 88 (W) x 88 (H) x 55 (D) mm
- Material: ABS Plastic with Polycarbonate Panel
- Current Ratings: 12/24V DC ~ 10A / 48V DC ~ 3A / 250V AC ~ 10A
- Net/Gross Weight: 160/184g
- Colour Choices: Red, White, Yellow, Green, Blue
- Optional Features: LED, Resistor, Blocking Diode, Double Switch, Polycarbonate Cover, Custom Imprint

Please specify colour and options when ordering

D-107

Remote Indicators

- Voltage: 24V DC
- Current: 1.5mA
- Operating Temperature: 5 – 140°F (-10 – +60°C)
- Size: 74 (Ø) x 15 (D) mm
- Weight: 26g



D-115-154L

Beacon/Sounder

- Dimension: 88 (W) x 176 (H) x 78 (D) mm
- Casing: ABS Plastic
- Lens: Polycarbonate
- Operating Current: 70mA@24V DC
- Operating Voltage: 12V – 24V DC
- Sound Output: 100 ± 3dB@24V DC
- Colour: Signal Red



D-115

Sounder

- Dimension: 88 (W) x 88 (H) x 43 (D) mm
- Casing: ABS Plastic
- Operating Current: 35mA@24V DC
- Operating Voltage: 12V – 24V DC
- Sound Output: 100 ± 3dB@24V DC
- Gross Weight: 144g
- Protection Rating: IP 54
- Colour: Signal Red



D-145

4-Tone Sounder

- Dimension: 95 (W) x 100 (H) x 99 (D) mm
- Casing: ABS Plastic or Polycarbonate
- Operating Current: 13mA@24V DC
- Operating Voltage: 9V – 28V DC
- Sound Output: 100 ± 3dB@24V DC
- Colour: Signal Red
- Protection Rating: IP 65



Please specify ABS plastic or polycarbonate casing when ordering D-145 or D-155

D-155

4-Tone Beacon/Sounder

- Dimension: 95 (W) x 100 (H) x 99 (D) mm
- Casing: ABS Plastic or Polycarbonate
- Lens: Polycarbonate
- Operating Current: 22mA@24V DC
- Operating Voltage: 20V – 28V DC
- Sound Output: 95 ± 3dB@24V DC
- Colour Choices: Signal Red Base with Red Lens or White Base with Amber Lens
- Protection Rating: IP 65



D-111 D-111 AC

Electromagnetic Door Holder

- Available in DC or AC
- Supply Voltage: 15 – 24V DC
210 – 264V AC
- Current Ratings: 60mA@24V DC
8mA@230V AC
- Holding Force: 588N/60kg/132lbs (D-111 DC)
588N/60kg/132lbs (D-111 AC)
294N/30kg/66lbs (D-131)
980N/100kg/220lbs (D-141)
588N/60kg/132lbs (D-151)

Please specify AC / DC / holding force when ordering



D-131



D-141



D-151



CATCH PLATE EXTENSION ROD

- D-121/6 Length: 155mm
- D-121/8 Length: 203mm
- D-121/12 Length: 305mm



Standard catch plate included

D-101 KS



Manual Key Switch

- Dimension: 113 (W) x 83 (H) x 50 (D) mm
- Casing: ABS Plastic
- Colour: Signal Red
- Net Weight: 220g

D-135-KS



- Dimension: 88 (W) x 88 (H) x 55 (D) mm
- Casing: ABS Plastic
- Maximum Voltage: 240V AC or 24V DC
- Current Ratings: 2 Amps@240V AC
4 Amps@24V DC
- Protection Classification: IP24D
- Colour Choices: Red, White, Yellow, Green, Blue
- Net Weight: 155g

Please specify colour and options when ordering

D-105ASW



- Dimension: 105 (W) x 105 (H) x 100 (D) mm
- Casing: Mild Steel
- Colour: Signal Red
- Net Weight: 760g

DEMCO FIRE DETECTION / PREVENTION PRODUCT AND ACCESSORIES

D-108

Manual Call Point D-108

- Dimension: 88 (W) x 88 (H) x 55 (D) mm
- Casing: ABS Plastic
- Current Ratings: 12/24V DC ~ 10A
48V DC ~ 3A
250V AC ~ 10A
- Connection: TERMINAL-MAX 2.5mm² Cable
- Resettable From Side
- Colour Choices: Red, White, Yellow, Green, Blue
- Net/Gross Weight: 160/184g
- Optional Features: LED, Resistor, Blocking Diode, Double Switch, Polycarbonate Cover, Custom Imprint

Please specify colour and options when ordering



D-104WP D-104WP/L

Twin Flashing Light

- Low Power Consumption with High Intensity Light Output
- High-efficient Polycarbonate Fresnel Lens Optimized for Omnidirectional Viewing
- Black Casing with Green and Red Lens
- Removable Conduit Plug for Easy Accessible
- Luminary: Filament Bulb & Ultra Bright LED



D-104B D-104L



D-124B D-124L



- **D-104WP (Bulb) & D-104WP/L (LED)**
 - > Dimension: 210 (W) x 108 (H) x 77 (D) mm
 - > Casing and Hood: Mild Steel
 - > Weight: 792g
- **D-104B (Bulb) & D-104L (LED)**
 - > Dimension: 210 (W) x 108 (H) x 77 (D) mm
 - > Casing and Hood: Mild Steel
 - > Weight: 755g
- **D-124B (Bulb) & D-124L (LED)**
 - > Dimension: 176 (W) x 105 (H) x 78 (D) mm
 - > Casing: ABS Plastic
 - > Weight: 222g

D-108-POS

Extinguishant Release / Hold Off / Abort Unit

- Dimension: 88 (W) x 88 (H) x 55 (D) mm
- Casing: ABS Plastic
- Maximum Voltage: 240V AC or 24V DC
- Current Ratings: 1 Amp@240V AC
2 Amps@24V DC
- Protection Rating: IP24D
- Colour Choices: Red, White, Yellow, Green, Blue
- Net Weight: 130g



Please specify colour and options when ordering

D-134

Strobe Light

- Dimensions: 82 (Ø) x 55 (D) mm
- Fresnel Lens Colour Choices: Red, Green, Clear, Blue & Amber
- Base Colour: White
- Lens & Base Material: High-Impact Polycarbonate
- Operating Voltage: 12V DC and 24V DC
- Operating Current: 30mA
- Flashing Rate: 90 Flash per sec@12V
120 Flash per sec@24V



Please specify lens colour / flashing rate when ordering

D-106

Emergency Key Box & Nozzle Box

- Dimension: 100 (Ø) x 32 (D) mm
- Casing: ABS Plastic
- Colour: Signal Red
- Net Weight: 125g



D-112



- Dimension: 125 (W) x 125 (H) x 55 (D) mm
- Casing: ABS Plastic
- Colour: Signal Red
- Net Weight: 250g

D-109



- Dimension: 125 (W) x 125 (H) x 60 (D) mm
- Casing: Mild Steel
- Colour: Signal Red
- Net Weight: 682g

D-154 B D-154 L



Single Flashing Light

- **D-154B (Bulb) & D-154L (LED)**
 - Dimension: 88 (W) x 88 (H) x 72 (D) mm
- Body: Red or Black ABS Plastic
- Fresnel Lens: Green or Red Polycarbonate
- Luminary: Filament Bulb or Ultra Bright LED
- Optional Feature: Built-in Buzzer

D-110WP D-110WP/L



Evacuate Sign

- **D-110WP (Bulb) & D-110WP/L (LED)**
 - > Dimension: 260 (W) x 110 (H) x 110 (D) mm
 - > Casing and Hood: Mild Steel
 - > Colour: Black
- **D-110B (Bulb) & D-110L (LED)**
 - > Dimension: 260 (W) x 110 (H) x 80 (D) mm
 - > Casing: Mild Steel
 - > Colour: Black
- Imprint: Silkscreen of Custom Image Available Upon Request

D-110B D-110L



Please specify optional requirement when ordering

DEMCO FIRE DETECTION / PREVENTION PRODUCT AND ACCESSORIES

Context
Plus

EN54 Fire Alarm & Extinguisher Panels / Mimic Display Panels

EN54

EP203 Automatic
Extinguisher Panels



ZFP 2 to 8 Loops Touchscreen
Networkable Analogue Addressable
Fire Alarm Panels



inim
ELECTRONICS
SmartLine
Conventional
Fire Alarm
Panels with
4 Zones
Expandable
to 36 Zones



Mimic Display Panels

- Dimension: 500 (H) x 380 (W) x 87 (D) mm
- Casing: 0.9mm Mild Steel
- Finish: Epoxy Powder Coated White or Signal Red
- Cover: 3mm & 5mm Clear Acrylic Sheets
- Mimic Diagram: Polyester Backlit Film
- Backlight: Super Bright LEDs

Custom sizes and colours available upon request



CFP 2 to 8 Zones Conventional
Fire Alarm Panels

See individual product literature for more details

XFP 1 to 2 Loops
Networkable Analogue
Addressable Fire Panels

2001-E

Magnetic Overload Relay

- Dimension: 160 (W) x 145 (H) x 102 (D) mm
- Three Pole Magnetic Relay
- Operating Current Range: 2.5A – 5.5A
- Approximate Weight: 2kg
- Reset Button: Optional



SHJD

Glass Bulb Sprinkle

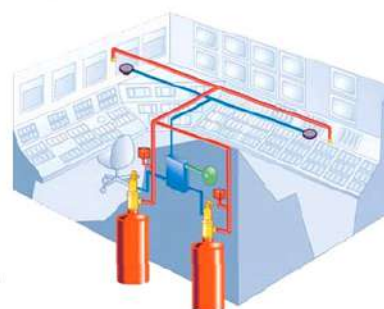
- Heat sensing component (glass bulb) and seal gasket from Germany
- Assembled and tested in production line utilizing German equipment and methodology
- UL Listed glass bulb and seal plate

UL LISTED
30ZY



Context
Plus

HFC227ea Clean Agent Fire Suppression System Accessories and Supplies



See individual product literature for more details

EBARA FIRE FIGHTING PUMP MODEL FSPA & CNPA

• End Suction Pumps ^{*)}

1. Easy removal and maintenance, BPO (Back Pull Out) system allows all rotating elements to be removed without disconnecting suction and discharge pipe work.
2. Top centreline discharge, foot support under casing for maximum resistance to misalignment and distortion from pipe loads.
3. Flow rate capacity 250 up to 750 USGPM.
4. Working pressure up to 250 psi with 250 lb. ANSI Flanges.

^{*)} UL File Number "EX15585"



SENTRIFUGAL FIRE PUMP-END SUCTION

• Horizontal Split Case Pumps ^{**)}

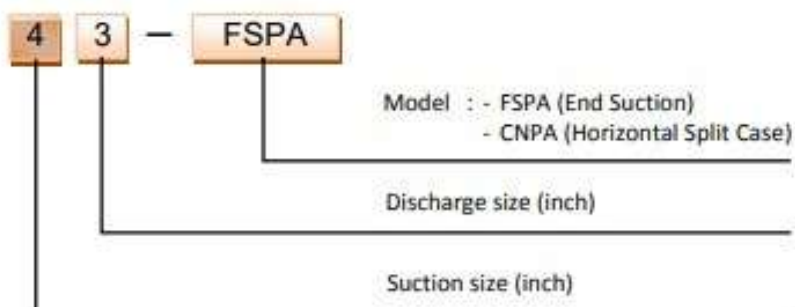


1. Very compact design for easy of installation and permits minimum maintenance.
2. Axially split casing allows the easy removal of the top casing for inspection and service.
3. Available in horizontal or vertical configuration.
4. Available in clockwise or counter clockwise rotation to simplify pump room layout.
5. Flow rate capacity 500 up to 1250 USGPM.
6. Working pressure up to 250 psi with 250 lb. ANSI Flanges.

^{**)} UL File Number "EX15584"

SENTRIFUGAL FIRE PUMP-SPLIT CASE

•MODEL CODE



•SPECIFICATIONS

Item		Specifications
Liquid handled property		Clean water, 0 – 80 °C (32 to 176 °F)
Max. Working Pressure		250 psi
Approx. speed		2900 rpm
Construction	Impeller	Enclosed
	Shaft seal	Gland Packing
	Flushing	Self Flushing
	Bearing	Shield Ball Bearing
Flange	Suction	ANSI 250
	Discharge	ANSI 250
Material	Casing	Ductile Cast Iron (FCD450) for FSPA model Cast Iron (FC250) for CNPA model
	Impeller	Bronze casting (CAC406)
	Shaft	Stainless Steel (SUS316)
	Shaft Sleeve	Bronze Casting (CAC406)
	Gland Packing	Teflon (PTFE) Impregnated
Standard Accessories	Pressure Gauge	0 – 220 psi
	Compound Gauge	-30 in Hg – 60 psi
	Air Relieve Valve	standard

EBARA INDUSTRIAL PUMP

MODEL IFW (CAST IRON)

Food Industry
Paper and Pulp Industry
Petrochemical Industry

Inorganic Chemical Industry
Semiconductor Industry
Motor Vehicle Industry

Steel Industry
Metal Goods Industry
Fisheries Industry

END SUCTION PROCESS PUMP

Features

- The main dimensions are compliant with ISO standards (ISO 2858).
- Disassembly and inspection are possible without removal of the main piping.
- Useful for a wide variety of applications.

Liquid	Specification	Water, Chemical water
	Temperature	-15 to 150°C (*1)
Allowable suction pressure		0.5MPa (5kgf/cm ²) (Mechanical seal)
		1.37MPa (14kgf/cm ²)
Max. Operating Pressure		Closed
		Gland packing, Mechanical seal (Single, Double) Balance
Construction	Impeller	Knife edge seal (*3)
	Shaft seal	Flexible disk
Flushing		Coupling RUBBFLEX type (*4)(*5)
		Plug, Self-flushing, External-flushing, Quenching type
Bearing		Ball bearings/Oil bath
		JIS10KFF
Materials	Casing	FC250
	Impeller	FC200/FC400/SCS13/SCS14
Shaft		S35C, SCM440 (7), SUS304/SUS316/SUS403/SCM440
	Shaft sleeve	SUS403/SUS304/SUS316
Gland packing		PTFE
	Casing gasket	PTFE
Mechanical seal		SC/Carbon, SC/SC



*1. Ethylene glycol-based brine: At -15 to -11°C, with methanol quench pot.
Calcium-chloride-based brine: At -15 to 0°C, with methanol quench pot. (Select a SCS product.)
*2. If the pump is frequently used, please contact us.
*3. It varies depending on the model. Please contact us.
*4. PILLAR KNIFE EDGE SEAL is made by Nippon Pillar Packing Co., Ltd.
*5. There are some restrictions depending on the electric motor output.
*6. Toyo RUBBFLEX Couplings are made by Toyo Tire & Rubber Co., Ltd.

MODEL IFW (STAINLESS STEEL)

Food Industry
Paper and Pulp Industry
Petrochemical Industry

Inorganic Chemical Industry
Semiconductor Industry
Motor Vehicle Industry

Steel Industry
Metal Goods Industry
Fisheries Industry

END SUCTION PROCESS PUMP

Features

- The main dimensions are compliant with ISO standards (ISO 2858).
- Disassembly and inspection are possible without removal of the main piping.
- Useful for a wide variety of applications.

Liquid	Specification	Chemical water
	Temperature	-50 to 200°C (*1)(*2)
Allowable suction pressure		0.5MPa (5kgf/cm ²)
		0.5MPa (5kgf/cm ²) (*3) (Mechanical seal)
Max. Operating Pressure		1.37MPa (14kgf/cm ²)
		Closed
Construction	Impeller	Gland packing, Mechanical seal (Single, Double) Balance
	Shaft seal	Knife edge seal (*4)
Flushing		Flexible disk
		Coupling RUBBFLEX type (*5)(*6)
Bearing		Plug, Self-flushing, External-flushing, Quenching type (Water, methanol)
		Ball bearing (iron-water-cooling) but Model 150/300-2515VA and 3215VA is water cooling
Lubrication		Water cooling (lower 150°C)
		Oil bath
Range		JIS 10K RF, ASME (ANSI 150b) RF

Materials		SCS13	SCS14
	Casing	SCS13	SCS14
Impeller		SCS13	SCS14
	Shaft	SUS304, SUS630 (*1)	SUS316, SUS630 (*1)
Shaft sleeve		SUS304 (*6)	SUS316 (*6)
	Gland packing	PTFE	PTFE
Casing gasket		PTFE	PTFE
	Mechanical seal	SC/Carbon, SC/SC	SC/Carbon, SC/SC
Other		Special engineered base	Special engineered base



*1. Ethylene glycol-based brine: At -15 to -11°C, with methanol quench pot.
Calcium-chloride-based brine: At -15 to 0°C, with methanol quench pot.
*2. Select a SCS product.
*3. If the pump is frequently used, please contact us.
*4. It is limited depending on the model. Please contact us.
*5. It varies depending on the model. Please contact us.
*6. PILLAR KNIFE EDGE SEAL is made by Nippon Pillar Packing Co., Ltd.
*7. Toyo RUBBFLEX Couplings are made by Toyo Tire & Rubber Co., Ltd.
*8. Self-fluor alloy surface hardening treatment

MODEL TFS

Food Industry
Paper and Pulp Industry
Petrochemical Industry
Inorganic Chemical Industry

Motor Vehicle Industry
Steel Industry
Metal Goods Industry

END SUCTION PROCESS PUMP

Features

- Disassembly and inspection are possible without removal of the suction and discharge piping.
- For shaft sealing, various mechanical seals are available in addition to gland packing.
- The clearance before the impeller can be adjusted with ease by laminating adjustment sheets and shims.



Liquid	Specification	Water/Chemical water
	Temperature	-20 to 150°C
Allowable suction pressure		0.5MPa (5kgf/cm ²)
		1.37MPa (14kgf/cm ²)
Max. working pressure		Closed
		Gland packing, External-flushing, Mechanical seal
Construction	Impeller	Semi-open type
	Shaft seal	Ball bearings, Oil bath
Bearing		JIS10K FF
Materials	Casing	Cast iron type
	Impeller	FC250
Shaft		Stainless type
	Shaft sleeve	SCS14
Coupling		S35C
		SUS403
Coupling guard		SUS316 coating processed
		SUS316
Coupling guard		Disc type
		Enclosure type with hinges

*1. It is available only model which standard casing material is cast iron.

EBARA INDUSTRIAL PUMP

MODEL TLS

Food Industry
Paper and Pulp Industry
Petrochemical Industry

Inorganic Chemical Industry
Motor Vehicle Industry
Steel Industry

END SUCTION PROCESS PUMP

Features

- Since the casing has a structure dividable into three parts, easy assembly and disassembly of the pump is possible without removal of the casing from the discharge piping.
- The clearance between the impeller and the front side plate can be adjusted from the outside without disassembly of the pump. Accordingly, replacement of the impeller is possible in a short time.
- No damage is given to the shaft due to the use of a labyrinth seal.
- For shaft sealing, various mechanical seals are available in addition to gland packing.



Liquid	Specification	Water/Chemical water
	Temperature	-20 to 150°C
	Density	0.7 to 1.0kg/L
Allowable suction pressure		0.3MPa (3kgf/cm ²)
Max. working pressure		0.68 to 1.27MPa (7 to 13kgf/cm ²)
Construction	Impeller	Full-open type
	Shaft seal	Gland packing, External-flushing, Mechanical seal
	Bearing	Ball bearings (oil bath)
Flange		JIS10K RF
Materials	Casing	Main stainless type
	Impeller	Stainless type
	Shaft	SCS13
	Shaft sleeve	SCS13
	Shaft sleeve	SUS304
		SUS304
		SUS304 coating processed
		SUS316 coating processed
Coupling		Diak type
Coupling guard		Enclosure type with hinges

MODEL GSS

Building
Food Industry
Paper and Pulp Industry
Inorganic Chemical Industry

END SUCTION PROCESS PUMP

Features

- World top class pump efficiency achieved ($MEI \geq 0.4$)
- Simple maintenance
- Pump specifications
- Pump dimensions adopt EN733

Liquid	Temperature	-25 to 140°C
Max. Operating Pressure		Up to 16bar (1.6MPa)/for standard flange DIN-PN16 Up to 14bar (1.4MPa)/for standard flange JIS 10K
Flange		EN1092-1, JIS B 2220
Construction	Impeller	Closed
	Shaft seal	Mechanical Seal, Gland Packing
	Flushing	N/A, Self, External
	Ball bearing	Shield ball bearing (grease lubrication)
Material	Casing	SCS13, SCS14A
	Impeller	SCS13, SCS14A
	Shaft	SUS329J3/S35C (*1)
	Case wear ring	SUS316
	Shaft sleeve	N/A, SUS304/SUS316 (in case of Gland packing or some mechanical seal)
	O-ring	FKM, EPDM

*1: Water/seal water only.



MODEL GS

Building
Food Industry

END SUCTION VOLUTE PUMP

Features

- World top class pump efficiency achieved ($MEI \geq 0.4$)
- Simple maintenance
- Pump specifications
- Pump dimensions adopt EN733



Casing Material	Cast Iron	Ductile Cast Irons (Larger than pump model 100X80)
Liquid	-10 to 140°C	-10 to 140°C
Max. Operating Pressure	Up to 16bar (1.6MPa)/for standard flange DIN-PN16 Up to 14bar (1.4MPa)/for standard flange JIS 10K	Up to 25bar (2.5MPa)/for standard flange DIN-PN25 Up to 25bar (2.5MPa)/for standard flange JIS 20K
Flange Standard	EN1092-2, JIS B 2239	EN1092-2, JIS B 2239
Construction	Impeller	Closed
	Shaft seal	Mechanical Seal
	Flushing	N/A, Self, External
	Ball bearing	Shield ball bearing (grease lubrication)
Material	Casing	FC250
	Impeller	FC250 or FCD400 (*1), CAC406, SCS13
	Shaft	SUS431 eq. or SUS420J2, SUS329J3/S35C (*2)
	Case wear ring	CAC406, FC150
	Shaft sleeve	N/A, SUS304 (Gland packing or some mechanical seal)
	O-ring	NBR, FKM, EPDM

*1: Impellers made of ductile cast iron are applied only the pumps model GS100-400, 125-400, 125-500, 150-400, 150-500, 200-400 and 200-500.

*2: Wetted part only.

EBARA INDUSTRIAL PUMP

MODEL NW

Food Industry
Petrochemical Industry
Inorganic Chemical Industry

STAINLESS STEEL MAGNET PUMP

Features

- Peace of mind as there is no shaft seal unit; eliminates risk of fluids leaks.
- These are BPO (back pull-out) type pumps that allow easy disassembly and inspection without requiring the removal of suction/discharge pipes and heat/cold insulation materials.
- As it is metal casting materials, it is heat-resistant, highly strength and resistant to corrosion.



Liquid	Specification	Chemical water, Pure water, Oil
	Temperature	0 to 100°C
	Viscosity	below 100mPa · S (cP) , please contact us.
	Density	less than 1.0 kg/L, 1.2 kg/L, 1.4 kg/L
	Slurry	Over 1.0kg/L (Please check a motor output) Over 1.3kg/L (Bearing Special fine ceramic)
Suction total head		Not available
		-6m (20°C)
	Standard allowable suction pressure (In case of below Max. working pressure)	0.4MPa (4kgf/cm ²)
	Max. working pressure	0.98MPa (10kgf/cm ²)
	Impeller	Closed
Construction	Shaft seal	Non
	Flange	JS 10K RF
Materials	Casing	SCS13
	Casing cover	SUS304
	Impeller	SCS13
	Magnet can	SUS316L
	Shaft	SUS304L
	Bearing (Fixed side)	Special carbon (*1), Special fine ceramic
	Bearing (Rolling side)	Special fine ceramic
	O-ring	Tetrafluore resin
Location		Indoor, Outdoor

*1 Model 32x32 and motor output 7.5kW is special fine ceramic.

MODEL EVM

Semiconductor Industry

VERTICAL MULTISTAGE PUMP

Features

- High efficiency IE3 motor starting from 0.75 kW complied with the EuP 2005/32/EC and ErP 2009/125/EC directives.
- The VFD (Variable frequency drive) and the commercial sensor can be directly mounted on Model EVMS to maintain physical constant operations such as pumping pressure depending on the conditions of use.
- Various pipe connections are available depending on the application requirements Oval flange/Round flange/Loose flange.
- The external dimensions can be adjusted to the replacement of the existing pump in the wide majority.
- Easy maintenance
 - The cartridge mechanical seal enables the plug in replacement of the shaft seal without disassembling the motor bracket.
 - The spacer coupling allows easy maintenance without having to remove heavy motors over 5.5kW.
- Smart plug solutions
 - Air ventilation plug/Water filling & sensor plug/Commercial sensor fitting/Measurements for suction and discharge pressure/drain.



		Model EVMS	Model EVMR	Model EVMR	Model EVM
Bore size		25, 32, 40, 50mm	100, 125mm	65, 80, 100mm	
Liquid	Specification	Water, Cutting fluid, Clearing solution (*1)			
	Temperature	-30 to 140°C	-15 to 120°C		
	50Hz	depend on the model			
Suction total head (*2)	60Hz	depend on the model			
	Impeller	Closed, Single liner ring			
Construction	Casing	Lower	In-line	Return vane	Return vane/Guide vane
	Stage	Return vane	Diffuser, Return vane		
	Shaft seal	Cartridge mechanical seal			
	Bearing	Upper	Sealed ball bearing (in motor)		
Range	Lower	Submerged sleeve			
	Flange	JS/DIN/ANSI	JS/DIN	JS/DIN/ANSI	
Materials	Casing	Lower	Cast iron, SUS304, SUS316		
	Stage		SUS304, SUS316		
	Impeller		SUS304, SUS316		
	Shaft		SUS304/SUS316/SUS329	SUS316, SUS431	SUS316
Liner ring			SUS304 + PPS	Gentle-R® (PTFE) or AISI	SUS304 + PTFE
			SUS316 + PPS	PTFE (bore size 125)	SUS316 + PTFE
Location			Indoor, Outdoor (depend on motor)		

MODEL VY, VZ

Steel Industry

VERTICAL MIXED FLOW PUMP

Features

- Able to lift fluid over a wide range of lift fluctuations.
- Submerged impeller dispenses with the need for priming and easy to start.



Liquid Temperature		Cast iron	Stainless steel
		0 to 80°C	
	Impeller	Model VZ	Semi-open type
	Model VY	Closed	
	Shaft seal	Gland packing	
Construction	Bearing	Upper	Ball bearing
	Center	Sleeve bearing	
	Lubrication	Upper	Oil bath
	Center	Self-flushing	
	Protection tube	No	
Flange		JS 10K (Standard) RF	
		JS 16K RF (Model 330VY2-5H, BG)	
Materials	Casing	FC200	SCS14
	Impeller	CAC405	SCS14
	Shaft seal	SUS403	SUS316
	Shaft sleeve	SUS403	SUS316
	Column pipe	FC200	SUS316
	Intermediate bearing	Carbon	Carbon

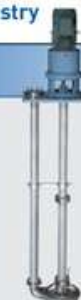
MODEL VWS

Motor Vehicle Industry
Steel Industry

VERTICAL VOLUTE PUMP

Features

- Vertical model dispenses with the need for priming.
- Adopted a semi-open impeller, stands up to certain amounts of slurry



Liquid	Specification	Cast iron	Stainless	
	Temperature	Waste water, light slurry 0 to 90°C (water lubrication, external flushing)		
	Impeller	Semi-open type		
Construction	Shaft seal	Upper Lower	Gland packing ES mechanical seal	
	Bearing	Upper Lower	Ball bearing seal Bearing metal	
	Lubricator	Lower	Water, Oil	
	Flushing		External (up to 90°C)	Water
			Self (up to 80°C)	External Self (up to 80°C)
Range		JS10K (light) RF		
Materials	Casing	FC200	SCS14	
	Impeller	FC200	SCS14	
	Shaft	SUS304	SUS316	
	Discharge tube	SCP	SUS316	
	Column pipe	SCP	SUS316	
	Bearing metal	CAC405	Carbon	

EBARA INDUSTRIAL PUMP

MODEL SAL

Food Industry
Paper and Pulp Industry
Motor Vehicle Industry
Steel Industry

SLURRY PUMP

Features

- The limit load characteristics of the specially-designed pumps control horsepower regardless of the pump flow.
- The direct coupled type pumps that ensure stable operation are available as standard specifications.
- Special cast iron is used for the casing and impeller to offer high wear resistance.
- The effect of the rear impeller vanes reduces leakage from the gland packing.



Liquid	Slurry liquid including particles	0 to 80°C
Total suction head	Model 125X100SAL and below	~5m
Allowable suction pressure	Model 150X125SAL and above	~5m
Impeller	Semi open with rear vane	
Shaft seal	Gland packing	
Flushing (*)	External flushing	
Construction	Model SALEF, G: 2 to 3L/min, 0.1MPa (1kgf/cm ²)	
Model SALH, J: 3 to 5L/min, 0.2MPa (2kgf/cm ²)		
Sealed ball bearing	SALE, F, G	
Oil bath ball bearing	SALH, J (Lubricant oil)	
Range	Equivalent to JS10K normal type (both ball bearing type)	
Casing	Chromium cast iron	
Impeller	High-chromium cast iron	
Shaft	SUS304, Model SALEF, G	
Shaft sleeve	SUS304, Model SALH, J	
Motor (*)	Three phase, 4 pole or 6 pole	
	(For the available voltage, please refer attachment Voltage list)	
	TEFC, IP44, indoor type	

*1. External flushing is necessary to protect gland packing and shaft sleeve. Please provide Fresh water.
*2. Inverter drive: Please contact Ebara for the guidance.
*3. Allowable temp.: Voltage fluctuation: Within +1.5%, Frequency fluctuation: Within +2%. Simultaneous fluctuation of power and frequency: Sum of both absolute value shall be 5% or less in any of the cases, the motor characteristics and temperature rise do not correspond to the rated value.

MODEL TFSQ

Food Industry
Paper and Pulp Industry
Petrochemical Industry
Inorganic Chemical Industry
Motor Vehicle Industry
Steel Industry
Metal Goods Industry

SELF-PRIMING VOLUTE PUMP

Features

- This pump has a simple structure without a check valve and provides good self-priming performance, using a cyclone vortex.
- This self-priming pump is suitable for draining slurry to a drainage pit.
- Disassembly and inspection are possible without removal of the suction and discharge piping.



Liquid	Specification	Water/Chemical water
Temperature	0 to 60°C	
Density	0.7 to 1.2kg/L	
Max. suction performance	~7m	
Max. working pressure	0.17MPa	
Impeller	Semi-open type	
Construction	Mechanical seal, Static type/Double type	
Shaft seal	Mechanical seal, Static type/Double type	
Flushing	Ball bearings (Oil bath)	
Range	JS10K, RF	
Casing	SCS14	
Impeller	SCS14	
Shaft	SUS316	
Shaft sleeve	SUS316 (*)	
Coupling	Disk type	
Coupling guard	Enclosure type with hinges	

*1. SUS329J4L and SUS316 coating processed is applicable.

MODEL NVD, NV

Building
General Industry

WATER RING VACUUM PUMP

Features

- These water ring type vacuum pumps can run even when steam or water drops are mixed in suction air.
- There are no mechanical contacts other than the bearings and the shaft seal, which allows easy maintenance and inspection.
- The pumps are light and compact with a small footprint.
- Model NV can be connected to a dedicated feed water tank to automatically supply water to the vacuum pump, reducing unpleasant noise.



Air temperature	Model NVD	Model NV
Max. negative pressure	Air: -10 to 50°C	Air: -10 to 50°C
	60-30Pa (-700mmHg)	Feed water at 15°C
Construction	Type	Water sealing type
Shaft seal	Mechanical seal	Gland packing
Bearing	Sealed ball bearing (shade of motor)	Sealed ball bearing
Range	Special range	JS10K thin type
Casing	FC200	FC200
Materials (*)	Rotor	CAC406
	Shaft	SUS304 (contact with liquid)
		SUS304
Motor	Three phase, 4 pole, 6 pole	TEFC, IP44, outdoor type
Location	Indoor or Outdoor	Indoor

MODEL ULP

Paper and Pulp Industry

PULP PUMP

Features

- Prevents clogging by and entanglement of fibers.
- Since a booster impeller (special specifications) is used, the pump can be used for up to 6% pulp liquid.



Liquid	5% below pulp liquid 0 to 95°C	
Allowable suction pressure	(Oxford Pulp density between 5.1% and 6% with booster impeller)	
Max. working pressure	0.68 to 1.27MPa (7 to 13kgf/cm ²)	
Impeller	Full open type	
Construction	Shaft seal	Gland packing, Mechanical seal
Flushing	External flushing	
Bearing	Ball bearing (Oil bath)	
Range	JS10K, RF	
Casing	Main stainless type	Stainless type
Impeller	SCS213	SCS213
Shaft	SUS304	SUS304
Shaft sleeve	SUS304 (*)	SUS304 (*)
Shaft seal	Carbonized fiber/PTFE	Carbonized fiber/PTFE
	Mechanical seal	Mechanical seal

*1. SUS304 coating processed is applicable.

MODEL FPSQ

Inorganic Chemical Industry
Semiconductor Industry
Motor Vehicle Industry
Steel Industry
Metal Goods Industry
Fisheries Industry

PLASTIC SELF-PRIMING PUMP

Features

- This self-priming pump has good self-priming capability and no built-in check valve, suitable for draining light slurry to a drainage pit.
- Excellent corrosion resistance against corrosive liquid like acid and seawater, in which stainless steel is immersed.
- Excellent wear resistance against sand and slurry because highly elastic materials are used, and fiber reinforcement is not applied.
- Light weight and Back Pull Out (BPO) design for easy maintenance.



Liquid	Chemical liquid (*)1, Seawater, Hot spring water	
Temperature	-5 to 50°C	
Density	1.0 to 1.6kg/L	
Max. suction performance	~5m (*)2	
Impeller	Semi-open type	
Construction	Shaft seal	Gland packing, Mechanical seal
Flushing	External flushing	
Bearing	Ball bearing (Oil bath), Grease packed	
Range	JS10K or equivalent (*)2	
Casing	PPCPO (*)3	
Impeller	PPCPO/PPSC316	
Shaft	SUS316	
Shaft sleeve	SUS316 (*)3	
Gland packing	Perfluoropolymer	

*1. Cannot be used with solvents, gasoline, kerosene, etc.
*2. Varies depending on the liquid temperature, piping shape, or model.

MODEL NVK

Food Industry

WATER RING VACUUM PUMP

Features

- Since this pump is a water seal type, there are no problems if the intake air contains steam or water droplets.
- Compactly designed for being incorporated into vacuum equipment.
- Good durability with both-end support bearings.
- The rotor and port plate are made of CAC406, which prevents binding because of rust.



Model	40NWK0.7	40NWK0.5, 50NWK0.5
Liquid	Air: -15°C to 50°C	Air: -15°C to 50°C
Max. Negative pressure	-97.3kPa (-730mmHg) (*)1	Feed water at 15°C
Construction	Type	Water sealing type
Shaft seal	Mechanical seal	Gland packing
Bearing	Sealed ball bearing	
Range	Special range	JS10K normal type
Casing	FC200	FC200
Materials (*)2	Rotor	CAC406
	Shaft	SUS304
Location (*)3	Indoor	Indoor

*1. Continuous operation at the maximum negative pressure is not possible.
*2. Rotor, shaft and shaft sleeve made of stainless is applicable.
*3. Inverter drive is not allowed. If the inverter drives the vacuum pump, the pump performance will become unstable.

MAIN VALVE

GATE  Brand : Kitz Material : Cast Iron Size : 2 - 14 inch	GLOBE  Brand : Kitz Material : Cast Iron Size : 2 - 14 inch	SWING CHECK  Brand : Kitz Material : Cast Iron Size : 2 - 14 inch	Y STRAINER  Brand : Kitz Material : Cast Iron Size : 2 - 14 inch
WAFER CHECK  Brand : Kitz Material : Cast Iron Size : 2 - 14 inch	3 PIECE FLOATING BALL  Brand : Kitz Material : Cast Iron Size : 2 - 14 inch	BALL CHECK  Brand : Kitz Material : Cast Iron Size : 2 - 14 inch	3 WAY FLOATING BALL  Brand : Kitz Material : Cast Iron Size : 2 - 14 inch
BRANCH CONTROL VALVE (BCV) POTTER  - Indicator Butterfly Valve 3" - Water Flow Switch POTTER 3" - Test and Drain	BUTTERFLY  Brand : Kitz Material : Cast Iron Size : 2 - 14 inch	FLOATING BALL  Brand : Kitz Material : Cast Iron Size : 2 - 14 inch	DELUG VALVE  Body : Ductile iron, Diaphragm: NBR rubber, Pipes: Stainless steel 304 pipe, cooper pipe Ball valve & strainer & check valve : Brass Water motor gong: Stainless steel 304 Working pressure 12 bar, Sealing testing pressure 24 bar, Applicable temperature 4°C to 70°C, Installation Vertically or horizontally Connection Flange x Flange
BRANCH CONTROL VALVE (BCV) ONFIRE  Komponen (BCV) • Butterfly valve • Flow Switch • Pressure gauge • Half coupling (flange/union) • Gate vavle • Test and drain • Sight glass	PRESSURE REDUCING VALVE (PRV)  Material : Cast Iron Brand : - Valvotubi (Italy) - Western (Asia) - Itap (Italy) Jenis valve ini berfungsi untuk menurunkan tekanan dari tekanan tinggi ke tekanan rendah	MAIN CONTROL VALVE (MCV)  Material : Cast Iron Main Control Valve terdiri atas : Alarm Check Valve, Trimset Alarm Valve : Horizontal, Vertikal Water Motor Alarm Gate Valve OS & Y UL/FM.	CONTROL VALVE 3-WAY  Brand : WEBTEC Thread Size : 3/4 BSP Regulated Flow (OR) : 0-45 lpm / 47lpm Max Input Flow (QP) : 120 lpm Max. working pressure : 250 BAR Mounting : 22 x 1,5

TOHATSU PORTABLE FIRE PUMP

VE1500/VE1000

Best balance of performance and weight



188kg
Competitor
> 127kg
VE1500/VE1000
Net weight

Suction height
9m
The best suction performance in the industry (Nov. 2019)

Specification

	VE1500	VE1000
Type	2-Cycle	2-Cycle
Number of Cylinder	2 Cylinder	2 Cylinder
Cooling System	Suction Water Cooled	Suction Water Cooled
Bore x Stroke	81 x 78 mm (3.19 x 3.07 inch)	81 x 78 mm (3.19 x 3.07 inch)
Piston displacement	804 cc (49.0 cu in)	804 cc (49.0 cu in)
Output	44 kW (60 PS)	44 kW (60 PS)
Fuel Type	Unleaded Gasoline (Min. 87 Octane)	Unleaded Gasoline (Min. 87 Octane)
Fuel Tank Capacity	34 L (9.0 gal)	34 L (9.0 gal)
Fuel Consumption	22 L/h / hr (5.8 gal / hr)	18 L/h / hr (4.7 gal / hr)
Fuel System	Electronic Fuel Injection	Electronic Fuel Injection
Oil Tank Capacity	1.6 L (0.42 gal)	1.6 L (0.42 gal)
Starting	Electric and Manual	Electric and Manual
Suction System	4 Blade Rotary-vane vacuum pump (Oilless-type)	4 Blade Rotary-vane vacuum pump (Oilless-type)
Priming System	Manual	Manual
Pump Type	Single Suction, Single Stage centrifugal pump	Single Suction, Single Stage centrifugal pump
Suction Thread and Dia.	82P 4" (100mm)	82P 4" (100mm)
Discharge Thread and Dia.	82P 2-1/2" (65mm)	82P 2-1/2" (65mm)
Discharge Number	Two	Two
Discharge Valve	Flat valve	Flat valve
Weight	Dry Weight 107 kg (236 lbs)	Dry Weight 107 kg (236 lbs)
Dimensions (mm)	Overall Length x Width x Height 748 x 732 x 827	Overall Length x Width x Height 748 x 732 x 827

VE1500A-Ti

Go easy, Go smooth
with remote control system



188kg
Competitor
> 130kg
VE1500A-Ti
Net weight

Suction height
9m
The best suction performance in the industry (Nov. 2019)

Specification

	VE1500A-Ti
Type	2-Cycle
Number of Cylinder	2 Cylinder
Cooling System	Suction Water Cooled
Bore x Stroke	81 x 78 mm (3.19 x 3.07 inch)
Piston displacement	804 cc (49.0 cu in)
Output	44 kW (60 PS)
Fuel Type	Unleaded Gasoline (Min. 87 Octane)
Fuel Tank Capacity	34 L (9.0 gal)
Fuel Consumption	22 L/h / hr (5.8 gal / hr)
Fuel System	Electronic Fuel Injection
Oil Tank Capacity	1.6 L (0.42 gal)
Starting	Electric and Manual
Suction System	4 Blade Rotary-vane vacuum pump (Oilless-type)
Priming System	Auto Priming
Pump Type	Single Suction, Single Stage centrifugal pump
Suction Thread and Dia.	82P 4" (100mm)
Discharge Thread and Dia.	82P 2-1/2" (65mm)
Discharge Number	Two
Discharge Valve	Flat valve
Weight	Dry Weight 107 kg (236 lbs)
Dimensions (mm)	Overall Length x Width x Height 748 x 732 x 827
Remote Control Panel	Number of Panel (Maximum) Length of cable for panel

VE1500-W

Best balance of performance and weight



188kg
Competitor
> 124kg
VE1500W
Net weight

Suction height
9m
The best suction performance in the industry (Nov. 2019)

Specification

	VE1500-W
Type	2-Cycle
Number of Cylinder	2 Cylinder
Cooling System	Suction Water Cooled
Bore x Stroke	81 x 78 mm (3.19 x 3.07 inch)
Piston displacement	804 cc (49.0 cu in)
Output	44 kW (60 PS)
Fuel Type	Unleaded Gasoline (Min. 87 Octane)
Fuel Tank Capacity	34 L (9.0 gal)
Fuel Consumption	22 L/h / hr (5.8 gal / hr)
Fuel System	Electronic Fuel Injection
Oil Tank Capacity	1.6 L (0.42 gal)
Starting	Electric and Manual
Suction System	4 Blade Rotary-vane vacuum pump (Oilless-type)
Priming System	Manual
Pump Type	Single Suction, Single Stage centrifugal pump
Suction Thread and Dia.	82P 4" (100mm)
Discharge Thread and Dia.	82P 2-1/2" (65mm)
Discharge Number	Two
Discharge Valve	Flat valve
Weight	Dry Weight 104 kg (229 lbs)
Dimensions (mm)	Overall Length x Width x Height 748 x 732 x 827

NOTE: All Japanese Industrial Standard Thread. Net Weight, Ready for Operation

TOHATSU PORTABLE FIRE PUMP

VF63AS-R

Unique, like no other.
The world's first automatic relay pump.



Auto priming



Suction height



9m

The best suction performance in the industry (EN1500)

Specification

	VF63AS-R
Type	4-Cycle
Number of Cylinder	3-Cylinder
Cooling System	Section Water Cooled
Bore x Stroke	41 x 80 mm (2.4 x 3.14 inch)
Piston displacement	526 cc (32.09 cu in)
Output	33.1 kW (50 PS)
Fuel Type	Unleaded Gasoline (Min. 87 Octane)
Fuel Tank Capacity	10 L (2.64 gal)
Fuel Consumption	9.5 L/h / hr (2.5 gal / hr)
Fuel System	Electronic Fuel Injection
Oil Tank Capacity	2 L (0.53 gal)
Starting	Electric and manual
Suction System	4 Blade Rotary-vane vacuum pump (Gifford-type)
Priming System	Auto Priming
Pump Type	Single Suction, Single Stage centrifugal pump
Suction Thread and Dia.	JIS 3" (76mm)
Discharge Thread and Dia.	JIS 2-1/2" (63mm)
Discharge Number	Two
Discharge Valve	Ball valve
Weight	Dry Weight: 109 kg (239 lbs) Wet Weight: 113 kg (247 lbs)
Dimensions(mm)	Overall Length x Width x Height: 610 x 790 x 740

NOTE: JIS: Japanese Industrial Standard Thread Wet Weight: Ready for Operation

VC52AS VC72AS

Simplify and maximize
the ability for
quick response



130kg
Competitor

>101kg
Operative weight

The lightest model in this class

Suction height



9m

The best suction performance in the industry (EN1500)

Specification

	VC52AS	VC72AS
Type	2-Cycle	2-Cycle
Number of Cylinder	2-Cylinder	2-Cylinder
Cooling System	Section Water Cooled	Section Water Cooled
Bore x Stroke	76 x 68 mm (3.0 x 2.68 inch)	76 x 68 mm (3.0 x 2.68 inch)
Piston displacement	407 cc (24.8 cu in)	407 cc (24.8 cu in)
Output	30 kW (40.8 PS)	30 kW (40.8 PS)
Fuel Type	Unleaded Gasoline (Min. 87 Octane)	Unleaded Gasoline (Min. 87 Octane)
Fuel Tank Capacity	18 L (4.76 gal)	18 L (4.76 gal)
Fuel Consumption	9 L/h / hr (2.38 gal / hr)	12 L/h / hr (3.17 gal / hr)
Fuel System	Single Carburetor with Auto Choke	Single Carburetor with Auto Choke
Oil Tank Capacity	1.8 L (0.47 gal)	1.8 L (0.47 gal)
Starting	Electric and manual	Electric and manual
Suction System	4 Blade Rotary-vane vacuum pump (Gifford-type)	4 Blade Rotary-vane vacuum pump (Gifford-type)
Priming System	Manual	Manual
Pump Type	Single Suction, Single Stage centrifugal pump	Single Suction, Single Stage centrifugal pump
Suction Thread and Dia.	JIS 3" (76mm)	JIS 3" (76mm)
Discharge Thread and Dia.	JIS 2-1/2" (63mm)	JIS 2-1/2" (63mm)
Discharge Number	Single	Single
Discharge Valve	Ball valve / Flat valve	Ball valve / Flat valve
Weight	Dry Weight: 85 kg (187.2 lbs) Wet Weight: 101 kg (222.6 lbs)	Dry Weight: 85 kg (187.2 lbs) Wet Weight: 101 kg (222.6 lbs)
Dimensions(mm)	Overall Length x Width x Height: 700 x 620 x 730	700 x 620 x 730

NOTE: JIS: Japanese Industrial Standard Thread Wet Weight: Ready for Operation

VE500AS

Small and compact, with outstanding
features



96kg
Competitor

>56kg
Operative weight

The lightest model in this class

Suction height



9m

The best suction performance in the industry (EN1500)

Specification

	VE500AS
Type	2-Cycle
Number of Cylinder	1-Cylinder
Cooling System	Air Cooled
Bore x Stroke	44 x 58 mm (1.7 x 2.28 inch)
Piston displacement	178 cc (10.8 cu in)
Output	8.9 kW (12.1 PS)
Fuel Type	Unleaded Gasoline (Min. 87 Octane)
Fuel Tank Capacity	9.9 L (2.61 gal)
Fuel Consumption	5.4 L/h / hr (1.43 gal / hr)
Fuel System	Electronic Fuel Injection
Oil Tank Capacity	0.5 L (0.13 gal)
Starting	Electric and manual
Suction System	4 Blade Rotary-vane vacuum pump (Gifford-type)
Priming System	Manual
Pump Type	Single Suction, Single Stage High Pressure Turbine Pump
Suction Thread and Dia.	JIS Thread Type: JIS 2-1/2" (63mm)
Discharge Thread and Dia.	81P Thread Type: 81P 2-1/2" (63mm) JIS Thread Type: JIS 2-1/2" (63mm) 81P Thread Type: 81P 2-1/2" (63mm)
Discharge Number	Single
Discharge Valve	Ball valve
Weight	Dry Weight: 50 kg (110.23 lbs) Wet Weight: 54 kg (119.16 lbs)
Dimensions(mm)	Overall Length x Width x Height: 555 x 505 x 537

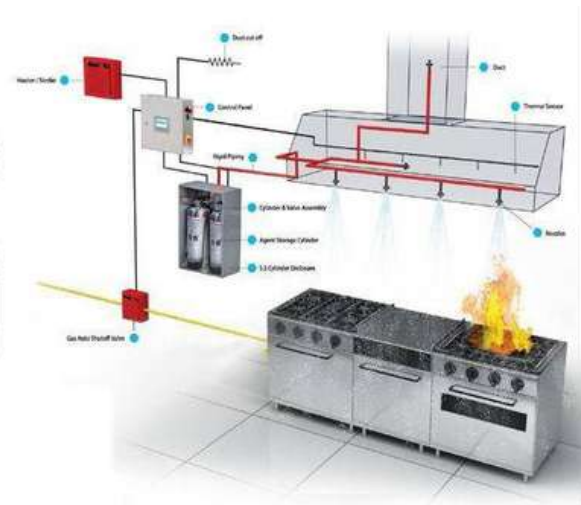
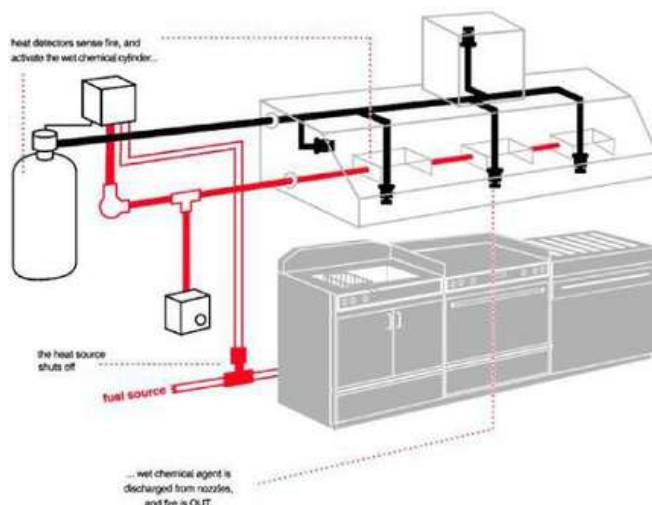
FM200 FIRE SUPPRESSIO SYSTEM



FIRE TRAP DIRECT & INDIRECT



PRESFIRE® FIRE KITCHEN





PT. GLOBAL MITRA PROTEKSINDO

Komplek Ruko Mall Mutiara Taman Palem Blok A15
No. 28 Cengkareng Jakarta Barat

