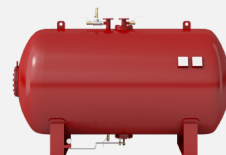




EXPERIENCE YOU CAN DEPEND ON

Fire Protection Equipment

Product Range Overview





KCA - Experience You Can Depend On

When the risks of fire are high and the consequences enormous, it is crucial to partner with a fire protection company that is trusted for its engineering skills, manufacturing quality and turnaround times, for its products and bespoke solutions that can resist the most extreme circumstances.

KCA is one of the leading worldwide manufacturers of foam-water fire equipment and technologies with global expertise and regulatory compliance.

We are at home in markets where flammable and combustible liquids are a daily presence, such as airports, hospitals, refineries, distilleries, chemical plants, waste disposal plants and logistics warehouses.

Approved, compliant and tested

KCA designs and manufactures integral components for fire protection systems that have been approved by different international certification and approval bodies around the world. These include, but are not limited to FM, UL, PED, and ASME.

KCA offers ASME certificated Bladder Tanks manufactured in Europe with U Stamp option

The ASME BPVC certification program conforms to the rules governing the design, fabrication, assembly, and inspection of boiler and pressure vessel components during construction. ASME began offering certification to companies in the pressure equipment industry to certify their quality control systems comply. Products manufactured by ASME BPVC certificate holders can be certified and stamped with the Certification Mark in accordance with the applicable ASME BPVC section.

Utilization of the Certification Mark is a means of complying with the laws and regulations in nearly all U.S. States and Canadian Provinces. In addition, it has been estimated that over 100 countries accept the ASME BPVC as a means of meeting their government safety regulations.

The quality systems of more than 7,000 companies in more than 70 countries are currently certified by ASME. Whether or not an ASME Certification Mark is legally required, it provides users with a high degree of confidence that the stamped items conform to established safety standards.

This publication provides an overview of KCA's product range. Learn more at www.kcantincendi.com

Table of contents

Foam Storage Tanks	4
Proportioning Devices	6
Discharge Devices & Nozzles	8
Monitor Equipment	10
Trailers & Cabinets	14
Foam Pumps	15

Foam Storage Tanks

The KCA bladder tank requires no external power and is part of a balanced pressure proportioning system used to mix water and firefighting foam together to generate an effective extinguishing medium.

Bladder tanks are used extensively in the firefighting industry due to the effectiveness of the foam-water ratio remaining stable despite variable flow rates and pressure conditions that occur during system operation. This feature makes bladder tanks particularly suitable for multiple hazard systems, sprinkler systems and any other system operating under variable, non-predictable flow and pressure conditions. KCA also has a range of atmospheric foam storage tanks of various construction types for use with foam pump and dosing systems.

Model MXCI and MXC Vertical Bladder Tanks



- From 100 to 15,000 litre capacity
- 12 and 16 bar standard pressure ratings with approval, other pressures available on request
- Standalone or pre-assembled
- Protective coatings available
- Available approvals: FM, UL, GOST-R, CCCF and design codes: EN13445, ASME Sec VIII Div.1

Model MXCI and MXC Horizontal Bladder Tanks



- From 200 to 20,000 litre capacity
- 12 and 16 bar standard pressure ratings with approval, other pressures available on request
- Standalone or pre-assembled
- Protective coatings available
- Available approvals: FM, UL, GOST-R, CCCF and design codes: EN13445, ASME Sec VIII Div.1

Model MXCI and MXC Vertical Twin Bladder Tanks



- From 200 to 15,000 litre capacity
- 12 and 16 bar standard pressure ratings with approval, other pressures available on request
- Pre-assembled or skid mounted
- Protective coatings available
- Available approvals: FM, UL, GOST-R, CCCF and design codes: EN13445, ASME Sec VIII Div.1

Model MXCI and MXC Stainless Steel Vertical Bladder Tanks



- From 100 to 15,000 litre capacity
- 12 and 16 bar standard pressure ratings with approval, other pressures available on request
- Standalone or pre-assembled
- Protective coatings available (image for illustration only)
- Available approvals: FM, UL, GOST-R, CCCF and design codes: EN13445, ASME Sec VIII Div.1

Model MXCI and MXC Stainless Steel Horizontal Bladder Tanks



- From 200 to 20,000 litre capacity
- 12 and 16 bar standard pressure ratings with approval, other pressures available on request
- Standalone or pre-assembled
- Protective coatings available (image for illustration only)
- Available approvals: FM, UL, GOST-R, CCCF and design codes: EN13445, ASME Sec VIII Div.1

Foam Storage Tanks

36 Gallon Bladder Tank Hose Station Tank



- Standalone hose station as required by NFPA 409
- Galvanised steel hose reel with water supply through centre of reel
- 30 metre hose with pistol grip nozzle
- Protective Assembled with FM and UL Listed components, CE compliant, design codes: EN13445, ASME Sec VIII Div.1

Eductor Foam Hose Station



- 60 US Gallon Stainless Steel Tank
- FE-90 Eductor (UL Listed)
- 100ft / 1.5" Hose Reel
- Tested with SFFF Concentrate
- Pistol Grip Nozzle

SAFE-Tank® Secondary Containment Atmospheric Tanks



- Double wall flat bottom tank manufactured of high-density cross-linked polyethylene (XLPE)
- Provides secondary containment to avoid equipment or property damage, chemical loss, or injury in the event of a spill
- Designed for above-ground, vertical installation
- From 400 to 32,930 litre capacity

Model S-ES Atmospheric Foam Storage Tank



- From 200 to 15,000 litre capacity
- Available pre-assembled with eductor or skid mounted
- Carbon steel
- Protective coatings available
- Fibre glass and HDPE atmospheric storage tanks also available

Self-Contained Premix Foam Tank



- Nitrogen pressurised premix system for use when no water supply is available
- From 400 to 20,000 litre capacity
- Different discharge pressure according to system design
- CE compliant. Design codes: EN13445 or ASME Sec VIII Div.1
- Use with specially selected premix foam solutions

Model QS Quickseal Unit



- Self-contained pre-mix foam storage vessel
- For the protection of floating roof tanks
- Available in carbon or stainless steel
- Painted or galvanised
- Electric or pneumatic detection

Proportioning Devices

KCA has a wide range of foam proportioning options available. Choice of product is depending on your project requirements.

Proportioning is a key part of any fixed foam system as it needs to accurately introduce foam concentrate into the water supply to produce foam solution. Equipment should be carefully selected based upon application, flow rate, foam and system type.

Model KNR Wide Range Bladder Tank Proportioner



- Ensures correct proportioning at low flows such as sprinkler systems
- 6" (150 mm) and 8" (200 mm)
- Range covers 189 to 11,355 l/min (see specific model)
- FM Approved

Model KWR Wide Range Bladder Tank Proportioner



- Ensures correct proportioning at low flows such as sprinkler systems
- 4" (100 mm) to 10" (250 mm)
- Range covers 75 to 16,100 l/min (see specific model)
- Available with GOST-R certificate
- CNBOP and ÉMI certified to EN13565-1

Model FP and KFP Grooved Ratio Controller



- 2", 2.5", 3", 4", 6" and 8"
- Horizontal, vertical and pre-assembled to bladder tank installation
- Nickel aluminium bronze or brass construction
- For use with fresh or salt water
- Available with FM approval and UL listing

Model KFP Flanged Ratio Controller



- 3", 4", 6" and 8"
- Horizontal, vertical and pre-assembled to bladder tank installation
- Nickel aluminium bronze or brass construction
- For use with fresh or salt water
- Available with FM approval and UL listing

Proportioning Devices

Model KBP

In-Line Balanced Proportioner



- 3", 4", 6" and 8"
- Horizontal or vertical installation
- Nickel aluminium bronze or brass construction
- For use with fresh or salt water
- Available with FM approval and UL listing

Model BKR and BKWR

Balanced Proportioner and Balanced Wide-Range Proportioner



- 4" (100 mm) to 10" (250 mm)
- Range covers 400 to 25,000 l/min (Model BKR), 75 to 16,100 l/min (Model BKWR)
- Bronze or stainless steel body
- Available with GOST-R certificate

Model ES

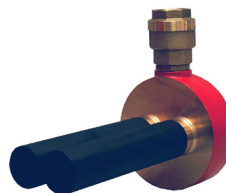
In-Line Mixer / Eductor



- 225 to 4,500 l/min @ 4-12 bar working pressure
- Brass, bronze or aluminium
- 0% / 3% / 6% selector valve available on request

Model BFZ

Eductor



- 1.5", 2", 2.5", 3", 4", 6" and 8"
- Fixed, between-flange installation
- High backpressure
- High suction height
- Customized for system flow rates

Discharge Devices & Nozzles

Model US and USD Aspirated Foam Nozzle (Low Expansion)



- Low expansion
- 1"
- 120 l/min flow rate with 750 l/min foam production
- Stainless steel

Model KLF Foam Maker



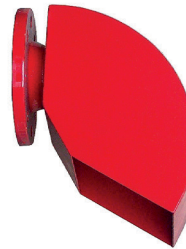
- Low expansion
- 1.5", 2.5", 3", 4"
- 23-310, 98-848, 310-1,806, 492-2,782 l/min
- 2.1 - 8.6 bar inlet pressure range
- Painted carbon steel
- Stainless steel available

Model UASPD and UASUP Aspirated Foam Nozzle (Low Expansion)



- Low expansion
- 1/2"
- K-factor = 41
- Pendent or upright
- Bronze or stainless steel

Model KVF Foam Pourer



- Low expansion
- 3", 4", 6", 8"
- Use with model KLF foam maker
- Painted carbon steel
- Stainless steel available

Model LFP Rim Seal Foam Pourer



- Low expansion
- For use with floating roof flammable liquid storage tanks
- 200, 400, 800, 1,500, 2,000 l/min
- Painted or galvanised carbon steel
- Stainless steel available

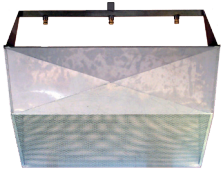
Model KCS Foam Chamber



- Low expansion
- 2.5", 3", 4", 6"
- 136-848, 310-1,806, 492-2,782, 1,363-4,743 l/min
- 2.1 - 8.6 bar inlet pressure range
- Painted carbon steel
- Stainless steel available
- Available with split deflector, solid deflector and tank mounting kit

Discharge Devices & Nozzles

Model GK30 and GK100 High Expansion Foam Generator



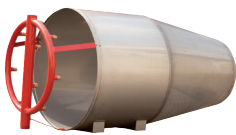
- High expansion @ 450:1 to 630:1 (dependent on foam type)
- 27 or 91 l/min @ 5 bar
- Stainless steel
- CNBOP and ÉMI certified to EN13565-1

Model UME Medium Expansion Foam Nozzles (Basket Type)



- Medium expansion
- Up to 60:1 expansion
- K-factor = 27 or 45
- Pendent

Model GAE250 and GAE400 High Expansion Foam Generator



- High expansion @ 400:1 to 830:1 (dependent on foam type)
- 235 or 355 l/min @ 4 bar
- Stainless steel body
- 2.1 - 8.6 bar inlet pressure range
- Carbon steel or stainless steel piping
- Brass or stainless steel nozzles
- Tested by CNPP to APSAD T12 with xMax synthetic and aMax alcohol resistant foam
- CNBOP and ÉMI certified to EN13565-1

Model SME Medium Expansion Foam Generator - Fixed & Portable



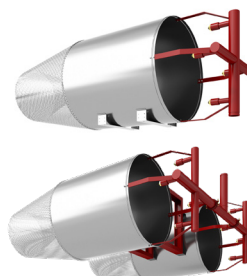
- Medium expansion
- 100, 225, 450, 800, 2,000 l/min
- Stainless steel
- Threaded, grooved or flanged connections

Model GAE800 Twin High Expansion Foam Generator



- High expansion @ 400:1 to 830:1 (dependent on foam type)
- 710 l/min @ 4 bar
- Stainless steel body
- Carbon steel or stainless steel piping
- Painted carbon steel
- Brass or stainless steel nozzles
- CNBOP and ÉMI certified to EN13565-1

Model KGH10000 Single & Paired High Expansion Foam Generator



- UL Listed with 3% XMAX High Expansion Foam
- Aspirated type generator
- No moving parts
- High performance
- 2 sizes for design flexibility

Monitor Equipment

KCA offers a wide range of different monitor sizes, construction materials and operation types to suit your varying project demands. We offer manual, self-oscillating, electric and hydraulic solutions with a stainless steel or nickel aluminum bronze body as standard to ensure a longer lifespan and dependability in the field.

To compliment our monitor range we have various aspirating and non aspirating discharge devices with the ability to self induct foam concentrate as required.

Our range of EKM electrical monitors can be fully customized for each project to ensure the highest level of end user flexibility.

Model KMT, KMH & KMW Manual Monitor



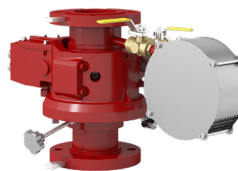
- Tiller, 1-handwheel or 2-handwheel operation
- 2.5", 3" stainless steel body
- 2.5", 3" & 4" inlet flange
- 2,000, 4,000 l/min
- Painted flame red RAL3000
- UL Listed

Model KNN Non-Self-Inducting Monitor Nozzle



- 2.5" & 3" BSP or NH thread
- Fixed 250, 350, 500, 750, 1,000 GPM (946, 1,325, 1,892, 2,838, 3,785 l/min) 2.5", 3" & 4" inlet flange
- For use with model KMT, KMH, KMW monitors
- Anodized aluminium, nickel aluminium bronze or stainless steel
- Adjustable from jet to spray
- UL Listed

Model KSO Oscillating Unit



- 3" stainless steel body
- 3" & 4" inlet flange
- 2,000, 4,000 l/min
- Painted flame red RAL3000
- Adjustable from 15° to 360° continuous cycle
- Oscillation range test feature
- UL Listed

Model KM-L Lever Manually Operated Monitors



- 2.5", 3", 4" stainless steel body
- 2,000, 4,000, 8,000 l/min
- Painted flame red RAL3000 or polished stainless steel
- Available with GOST-R certificate
- CNBOP and ÉMI certified to EN13565-1

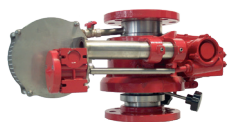
Model KMV Handwheel Manually Operated Monitors



- 3", 4" stainless steel body
- 4,000, 8,000 l/min
- Painted flame red RAL3000 or polished stainless steel
- Available with GOST-R certificate
- CNBOP and ÉMI certified to EN13565-1

Monitor Equipment

Model GA Oscillating Unit



- 3", 4" stainless steel body
- 2,000, 4,000, 8,000 l/min
- Adjustable from 15° to 360° continuous cycle
- Available with GOST-R certificate
- CNBOP and ÉMI certified to EN13565-1

Model AKM-L Lever Operated Oscillating Monitors



- 2.5", 3", 4" stainless steel body
- 2,000, 4,000, 8,000 l/min
- Adjustable from 15° to 360° continuous cycle
- Available with GOST-R certificate
- CNBOP and ÉMI certified to EN13565-1

Model AKM-V Handwheel Operated Oscillating Monitors



- 3", 4" stainless steel body
- 4,000, 8,000 l/min
- Adjustable from 15° to 360° continuous cycle
- Available with GOST-R certificate
- CNBOP and ÉMI certified to EN13565-1

Model KML-ALBZ Lever Manually Operated Nickel Aluminium Bronze Monitors



- Suitable for a wide range of aggressive environments
- 3" nickel aluminium bronze body
- 4,000 l/min
- Natural bronze finish or painted flame red RAL3000
- Also available in handwheel version
- CNBOP and ÉMI certified to EN13565-1

Model KMLP Lever Operated Portable Monitor



- 2.5" stainless steel body
- 2,500 l/min
- Available with self aspirating nozzle
- Available with GOST-R certificate
- ÉMI certified to EN13565-1

Monitor Equipment

*Model ECP
Control Panel for Electric Monitors*



- ATEX version available
- Automated functions with complex pattern movement
- Advanced functions with intuitive touch screen display interface
- For control of up to 6 monitors

*Model WRC
Wireless Remote Controller for EKM Monitors*



- Duplicate ECP panel feature
- Control up to 4 monitors
- ATEX version available

*Model FX
Foam-Water Adjustable Monitor Nozzle*



- 2.5", 3", 4" BSP thread
- 3,000, 4,000, 8,000 l/min
- For use with model KML, KMV, AKM-L, AKM-V, KMLP, EKM monitors
- Anodized aluminium, nickel aluminium bronze or stainless steel
- Adjustable from jet to spray
- CNBOP and ÉMI certified to EN13565-1

*Model FX-A
Self Inducting Foam-Water Adjustable Monitor Nozzle*



- 2.5", 3", 4" BSP thread
- 3,000, 4,000, 8,000 l/min
- For use with model KML, KMV, AKM-L, AKM-V, KMLP, EKM monitors
- Anodized aluminium, nickel aluminium bronze or stainless steel
- Adjustable from jet to spray
- CNBOP and ÉMI certified to EN13565-1

*Model EFX - Electrically Operated, Remote Controlled
Foam-Water Monitor Nozzle*



- 2.5", 3", 4" BSP thread
- 3,000, 4,000, 8,000 l/min
- Full control of spray pattern from jet to fog
- For use with model EKM electric monitor
- ATEX version available
- CNBOP and ÉMI certified to EN13565-1 (as part of EKM electric monitor)

*Model EKM
Electrically Operated Remote Controlled Monitors*



- 3", 4" stainless steel body
- 4,000, 8,000 l/min
- ATEX version available
- Robust construction, durable mechanics
- CNBOP and ÉMI certified to EN13565-1

Monitor Equipment

Model OFX - Hydraulically Operated Remote Controlled Foam-Water Monitor Nozzle



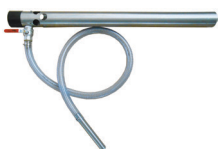
- 2.5", 3", 4" BSP thread
- 3,000, 4,000, 8,000 l/min
- For use with model OKM hydraulic monitor
- Adjustable from jet to spray
- ÉMI certified to EN13565-1

Model LS Foam Branch Pipe



- Up to 6:1 expansion
- For use with model OKM, KML, KMV, AKM-L, AKM-V, KMLP, EKM monitors
- Stainless steel body
- Anodized alloy nozzle
- CNBOP and ÉMI certified to EN13565-1

Model LS-A Self Inducting Foam Branch Pipe



- Up to 6:1 expansion
- For use with model OKM, KML, KMV, AKM-L, AKM-V, KMLP, EKM monitors
- Stainless steel body
- Anodized alloy nozzle

Model CA Water Branch Pipe



- 2.5", 3", 4" BSP thread
- 1,000 to 8,000 l/min
- For use with model OKM, KML, KMV, AKM-L, AKM-V, KMLP, EKM monitors
- Stainless steel body
- Anodized alloy nozzle

Model TPM-F Fixed Platform Monitor Tower



- Various heights
- Fabricated to EN14122
- For use with model OKM, KML, KMV, AKM-L, AKM-V, EKM monitors
- Painted or galvanised
- Cooling system
- Bespoke features available

Model TPM-G Rotating Platform Monitor Tower



- Various heights
- Fabricated to EN14122
- For use with model OKM, KML, KMV, AKM-L, AKM-V, EKM monitors
- Painted or galvanised
- Suitable for ATEX area
- Bespoke features available

Trailers & Cabinets

Our range of monitor trailers can be fully customized to suit your specific site requirements. They are suitable for use with our fixed or self-oscillating monitor units and will self induce foam concentrate from the on board storage tank. Standard units are available with single or twin axles.

Model KC Self Inducing Monitor Trailer



- 200 litre storage capacity
- Up to 3,000 l/min
- Carbon steel
- Flame red RAL3000

Model KCA-2R Monitor Trailer with Foam Storage Tank (2 Wheels)



- 1,000 litre storage capacity
- Up to 4,000 l/min
- Carbon steel or stainless steel tank
- Flame red RAL3000

Model KCA-4R Monitor Trailer with Foam Storage Tank (4 Wheels)



- 2,000 or 2,500 litre storage capacity
- Up to 6,000 l/min
- Carbon steel or stainless steel tank
- Flame red RAL3000

Model LSB and LSBA Portable Foam Branch Pipe and Self Inducing Branch Pipe



- Low expansion
- 225, 450, 800 l/min
- Stainless steel
- Pick-up tube and regulator (LSBA)

Model WFU Wall or Self-Standing Foam Cabinet



- 25 litre bladder tank & 1% mixer
- 90-110 l/min
- Use with fixed and/or mobile discharge devices
- Accurate proportioning and foam induction even if hose is not fully unwound

Our Wall Foam Unit (WFU) is particularly suited to small fixed systems such as garage paint shops and/or can be utilized for mobile hose fire fighting. The 25 or 50 litre bladder tank ensures accurate foam induction without having to completely unwind the hose. The accessories, proportioning system and foam storage tank are housed in an aesthetically pleasing cabinet for wall or floor mounting.

Foam Pumps

FoamPak Integrated Foam Pumping Assembly



- Preassembled skid with UL Listed and FM Approved components)
- Foam concentrate pump(s) flow range: 25 - 420 US gpm
- Pump controllers: 220/230 V, 380/415 V, 460/480 V – 50Hz or 60Hz
- Pressure range: 6.9 bar (100 psi) to 18 bar (261 psi)
- Single electric, double electric or electric diesel configurations
- Carbon steel frame with stainless steel pipework, painted flame red RAL3000

Bespoke Products and Foam Concentrates

Bespoke Products

KCA is renowned for its range of quality products and rapid manufacturing times but we are also capable of supplying non standard bespoke products tailored to your specific project requirements. Such variations could be different pressure ratings, construction materials or protective coatings for example.

We are also capable of constructing pumping or bladder tank mounted skids and would be willing to discuss any specific project requirements you may have.

Many of the standard products featured in this brochure can be configured for specific flow and pressure requirements according to your project needs.

Foam Concentrates

Selected KCA foam system components are FM approved and UL listed with a range of specially developed foam concentrates.

The resulting system combination assures quality, technical compliance and assured performance in fire conditions.

Foam concentrates ship in 25 l drums, 200 l barrels or 1,000 l IBC's.

Contact KCA for more information.



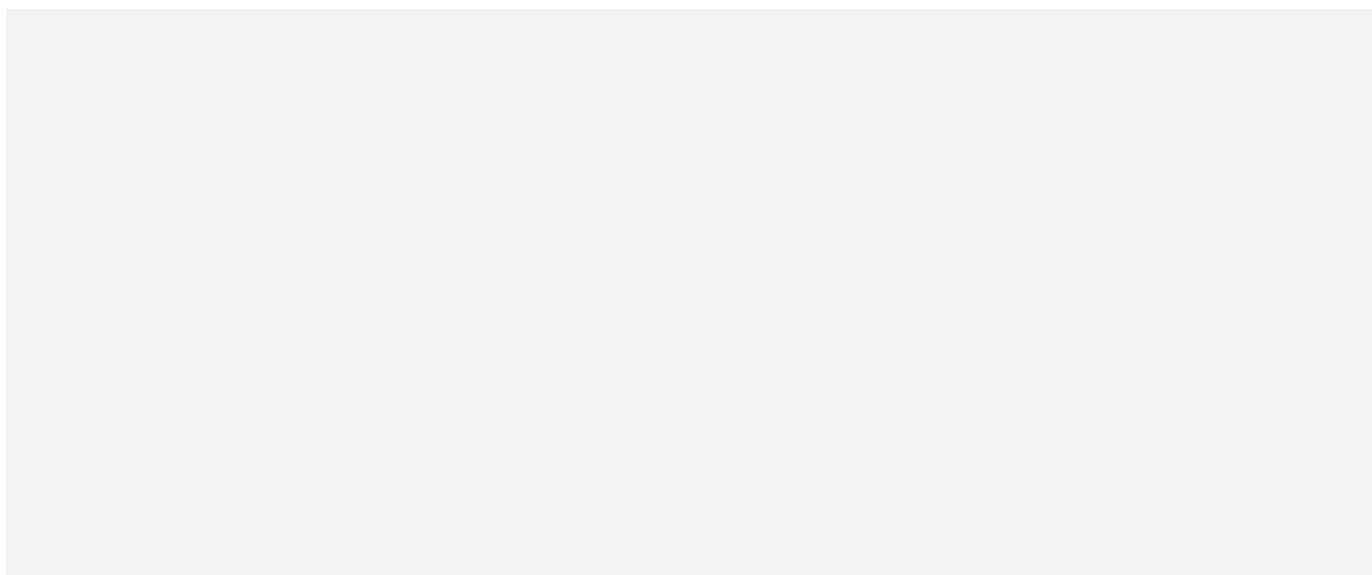
Notes

KCA - Experience You Can Depend On





Contact your local distributor:



For further information, please visit www.kcantincendi.com

For further information, please contact KCA or refer to the technical documentation.
The contents of this publication are subject to modifications without notice.

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EXPERIENCE YOU CAN DEPEND ON

