

europa

WILDFIRE FIGHTING

IDEX
FIRE & SAFETY



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NATURAL DISASTER FOREST FIRE

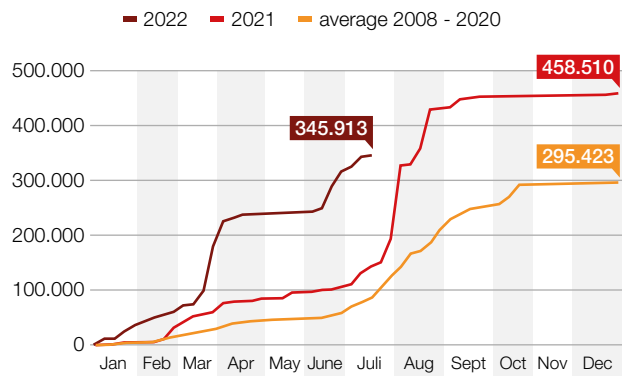
NATURAL DISASTERS ACCUMULATE AND INTENSIFY

Too hot and long summers, CO2, global warming, „Fridays For Future“, increase in natural disasters - these are just a few of the buzzwords that come up when talking about man-made climate change. In short, global greenhouse gas emissions are increasing every year, causing the average temperature on Earth to rise, which in turn leads to an increase in the number and intensity of natural disasters.

According to the European Forest Fire Information System (EFFIS), an area of 660,000 hectares of land was lost to raging flames in Europe alone in the negative record year of 2022. Despite global reforestation, according to a 2020 study by the Food and Agriculture Organization of the United Nations (FAO), the world's forest area has shrunk by 4.7 million hectares a year since 2010, and the trend is upward.

ANOTHER EXTREME FOREST FIRE YEAR FOR EUROPE

Area affected by forest fires (cumulative) in the EU (in hectares)*



*covers only fires with an affected area of 30+ hectares.

Source: European Forest Fire Information Systems / www.de.statista.com

Burnt future? No! We face up to the wildfires of the 21st century and work every day in order to provide innovative solutions for wildland firefighting.



Forest fires can have a wide variety of causes. The smallest part of them is attributed to natural causes. In most cases, it is deliberate arson, such as slash-and-burn agriculture or clearing due to negligence.

But even a carelessly discarded cigarette butt can be enough to start a vegetation fire. Due to the increasing weather extremes and the resulting dry and hot periods, forest fires have been particularly severe in recent years.

In southern European countries as well as in California and the Amazon region, these fires have caused severe damage in recent years.

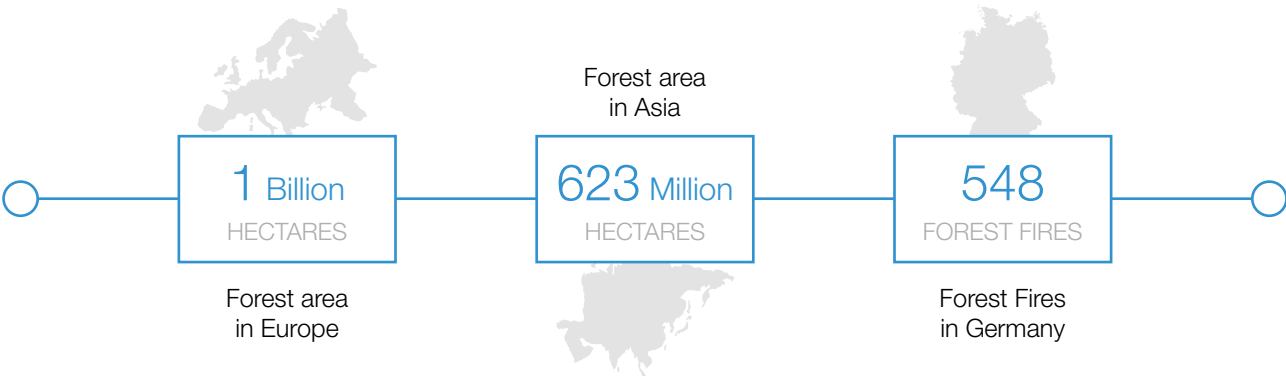
Firefighters are not only challenged by technology, but also by tactics, safety clothing and equipment to fight fires, as wildfires have increased in intensity and speed.

That's why IDEX Fire & Safety, as a global company, works closely with analysts and experts from around the world to better understand the needs and expe-

riences of responders. We leverage synergies and our experience in the rescue and fire industry from each business unit around the world to become more efficient and effective in developing new and better rescue tools, pumps, sprayers and equipment to protect rescuers and people around the world and to preserve forest ecosystems.



Forests are „green lungs“ and important climate buffers for our planet. But their extent continues to shrink. A new study shows that the global forest area has shrunk by 81.7 million hectares in the last 60 years.



IDEX

IDEX CORPORATION

IDEX Corporation is an American company founded in 1988. IDEX has an interest in mid-sized companies that focus on technical products and invests in these types of businesses. Everyone at some point has undoubtedly come into contact with IDEX, and in fact IDEX companies manufacture thousands of products that play a critical role in everyday activities. Chances are, the car you drive is equipped with a BAND-IT® clip that holds

your side airbag securely in place. If you've ever been involved in a car accident, a LUKAS or Hurst Jaws of Life® rescue device may have saved your life. If you or a family member has a medical condition, your doctor may have tested your DNA to find the best medication for you. It is likely that your DNA test was performed with equipment containing components manufactured by the IDEX Health & Science team.

IDEX PRODUCTS PROVIDE SOLUTIONS IN THE FOLLOWING INDUSTRIES AND MARKETS:

AEROSPACE

INDUSTRY

AGRICULTURE

LIFE SCIENCES

ANALYTICAL INSTRUMENTS

MEDICINE AND DENTISTRY

AUTOMOTIVE INDUSTRY

MILITARY AND DEFENSE

CHEMICAL PROCESSING

MUNICIPAL

DISPENSING EQUIPMENT

RESCUE

ENERGY

SEMICONDUCTOR AND ELECTRONICS

FOOD AND PHARMA

WATER AND WASTE WATER



IDEX FIRE & SAFETY

Within the IDEX Corporation, companies working in the same industry have joined forces to share international application knowledge and bring high-performance products for rescue and fire protection to the market all over the world. This simplifies the workflows of the teams and synergies can be used globally. In the last few years, IDEX Fire & Safety has gradually broken away from the structure of individual locations and will in future increasingly become an integrated solution provider

that concentrates on complex challenges. We do not want to sell you only the rescue equipment, lifting bags, turbo sprayers or pumps, our vision is to be the provider who has intelligent solutions ready for you. We work to shorten response times through smart solutions for all our IDEX Fire & Safety products. Our goal is that all rescue and fire protection products communicate with each other in order to facilitate your operations as much as possible and save lives.

**WITH 7,000 EMPLOYEES AND MANUFACTURING OPERATIONS
IN MORE THAN 20 COUNTRIES, IDEX IS A HIGH-PERFORMING,
GLOBAL COMPANY WITH MORE THAN \$2 BILLION
IN SALES DEDICATED TO PRODUCING RELIABLE SOLUTIONS
THAT IMPROVE LIVES.**



TWELVE BRANDS WORLDWIDE BELONG TO IDEX FIRE & SAFETY:

As a leader in fire protection, rescue and safety, we promise to always strive for improvement - whether that means reliable performance of new technologies or partnership and personalized customer service.



- North America
- Akron Brass
 - Weldon
 - Class1
 - Hale
 - Hurst Jaws of Life

- Germany
- Lukas
 - Vetter
 - AWG & Alco

- Great Britain
- Godiva

- India/China
- Dinglee
 - IDEX India

IDEX FIRE & SAFETY BRINGS BRANDS TOGETHER, PROVIDING INTEGRATED SOLUTIONS THAT REVOLUTIONIZE THE CUSTOMER EXPERIENCE, MAKE FIRE AND RESCUE SERVICES SAFER AND SAVE LIVES.



Since 1904, AWG Fittings, one of the leading manufacturers of firefighting equipment, has made an important contribution to increasing the efficiency and effectiveness of firefighting operations. AWG is in direct contact with its customers and partners to develop new products that the market needs.



TURBO-NOZZLE 2090

Operations in burning forest areas are extensive, lengthy and energy-consuming. The extinguishing water supply is often costly and the extinguishing water is scarce. The AWG Turbo-Nozzle 2090 has been developed especially for vegetation fires and defending forest- and bushfires. The perfect operation tool that combines maximized flow range with high mobility.



HS-NOZZLE HS7

HS nozzles stand for easy handling and robustness. By turning the rubber coated head of the nozzle it operates continuously from hollow straight stream to spray jet between 0° and 120°.

The operating head is made of rubber and chrome plated brass, the barrel is made of extremely impact resistant plastic.



ADVANTAGES

- Designed for D-hose lines
- Maximized extinguishing water range at 30 l/min
- Suitable for use with water, wetting agents and foam agents
- Lightweight and compact
- With all the usual turbo nozzle functions, e.g. flushing position for effective cleaning

ADVANTAGES

- Easy handling
- Robust material
- Continuously switchable from hollow straight stream to spray jet between 0° and 120° spray angle

Technical Data	TURBO-NOZZLE 2090	HS-NOZZLE HS7
Reference pressure	6 bar	6 bar
Flow rate at reference pressure	30 / 60 / 90 l / min	80 l / min
Throw distance at reference p1	12 - 17 - 22 m (full jet)	26 m (full jet)
max. permissible operating pressure p1	16 bar	16 bar
Spray angle	0° - 120°	0° - 120°
Inlet	Storz 25 (D)	Storz 25 (D)
Nominal size	2090	HS 7
Material adapter	Aluminium	Aluminium
Dimensions	253 x 100 x 232 mm	262 x 57 x 171 mm
Weight	1,5 kg	0,8 kg

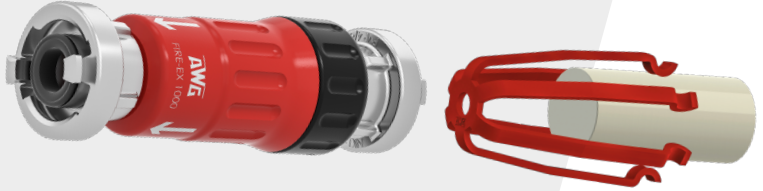
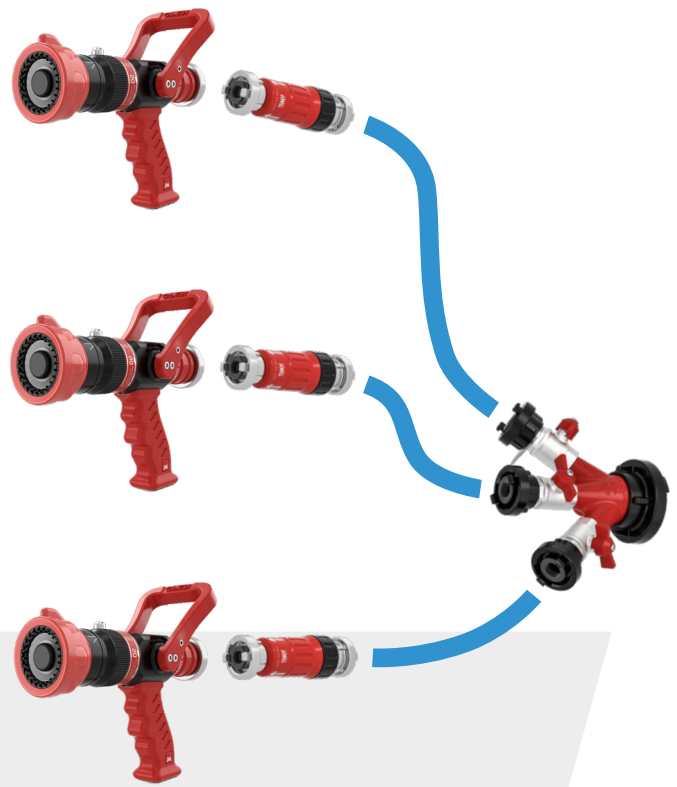
PRODUCT ACCESSORIES



FIRE-EX TURBO 1000

The small wetting agent cartridge reduces the surface tension of up to 1,000 liters of extinguishing water. When in use, the cartridge is flushed by the water, which means that the wetting agent is evenly mixed into the extinguishing water.

The wetting and penetration capacity of extinguishing water is improved, thus fires of fire class A can be fought faster, more effectively and with less water consumption.



For wetting agent use with the aid of blast pipes with the Storz 25 (D) inlet, fill the „loaded“ FIRE-Ex TURBO 1000 wetting agent cartridge adapter into the FIRE-EX 1000 D-D wetting agent cartridge and couple it directly into the hose line, regardless of the flow rate.

At a maximum flow rate of a Turbo Sprayer 2090 of 90 l/min, the service life of a wetting agent cartridge without interruption is approx. 11 minutes.

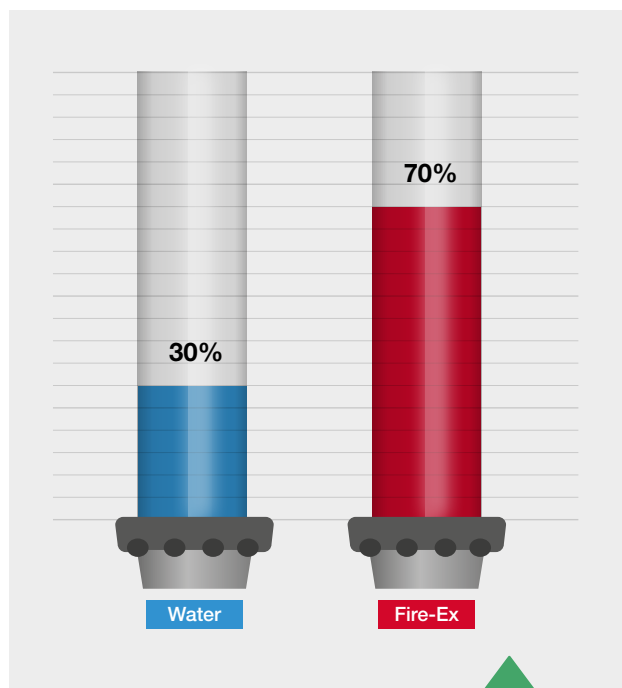


Use the patented FIRE-EX TURBO 1000 cartridge directly in the inlet of your AWG Turbo syringe.

Can be used exclusively in all AWG Turbo nozzles and the AWG Turbo-Twist system with inlet to base thread G2" AG, e.g.

- Storz 52 (C)
- Storz 75 (B)

EXTINGUISHING EFFICIENCY



APF 1-DC EVO

The Alco PowerFighter APF 1-DC EVO is ideal for forest and vegetation fire fighting or for operations where only little water is available. The flow guide vanes and optimised water routing ensure minimal pressure losses whilst maintaining a large throwing range when discharging water or water/foam mixtures.

VERY LIGHT. EXTREMELY EFFICIENT. IDEAL FRONT MONITOR.

The very compact design and the low minimum flow rate of only 100 l / min make the APF 1-DC EVO the ideal front monitor for forest fire vehicles or smaller fire trucks.



ADVANTGES

- Ideal for forest fire vehicles
- Protected engines and transmissions
- Effective extinguishing from as little as 100 l / min flow rate
- Very compact and lightweight
- Innovative material mix
- Stepless flow and jet shape adjustment
- Emergency manual operation

Technical Data	APF1-DC EVO
Flow rate	1.000 l / min at 8 bar
Connection inlet	Flansch DN50 PN16
Connection outlet	Multi-purpose nozzle MZV 1000/100-DC
max. permissible operating pressure	16 bar
Angle [°] Vertical	-50 bis +90
Angle [°] Horizontal	±165° (360° depending on model)
Operation	electrical
Dimensions	383 x 247 x 318 mm
Weight	8,2 kg



The Godiva logo consists of the word "GODIVA" in a bold, italicized, sans-serif font, followed by a circular icon containing a stylized six-pointed star or gear-like shape.

GODIVA

Godiva Limited has been manufacturing high performance portable and vehicle mounted fire pumps since 1937. The company offers a range of integrated compressed air foam systems using electronic instrumentation by Class1 Electronics. Godiva is a brand known for its quality products in over 100 countries.

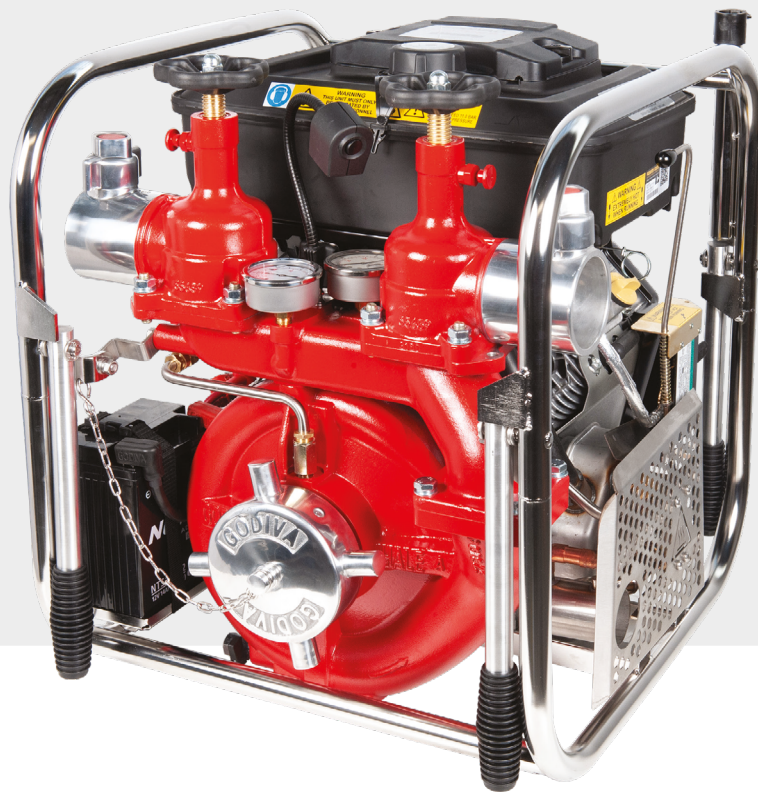


POWERFLOW 8/5 TWIN DISCHARGE

The PowerFlow 8/5 Twin is a compact and lightweight portable fire pump with a rated capacity of 800 l/min at 5 bar pressure and a 3 m lift height. Powered by an 18 hp Briggs and Stratton engine, this pump has two discharge valves and is available with exhaust venting system, electric or manual start.

WHEN SIZE MATTERS

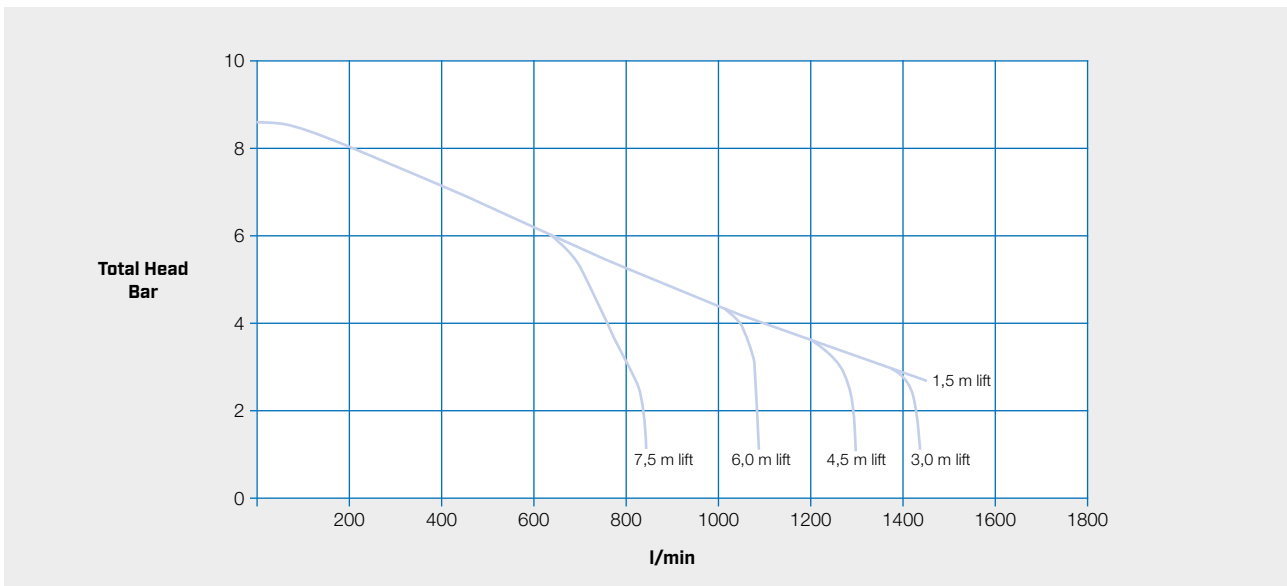
The ultra-compact and lightweight fire pump is up to 12% smaller and 10% lighter than comparable pumps, freeing up important space for other equipment and easily carried by two people without sacrificing reliability, robustness and safety.



ADVANTAGES

- Ultra-compact and lightweight - creates space for other equipment
- Up to 12% smaller and 10% lighter than comparable pumps
- All-round stainless steel frame
- Light alloy pump and volute casing
- **Wide range of flow rates for different requirements:**
 1400 l/min at 3 bar for dewatering & water relay
 800 l/min at 5 bar for fire fighting

POWERFLOW 8/5 - POWER CURVE



Technical Data	PowerFlow 8/5 Twin Discharge
min. capacity	800 l/min at 5 bar
max. flow	1400 l/min at 5 bar
Weight	74 kg
Dimensions	500 x 555 x 584 mm
Fuel	Gasoline





LUKAS

LUKAS rescue equipment masters every operational scenario, offering the highest quality and technical sophistication that you can rely on. With the new e³ generation, the exchange between rescuer and equipment is no longer a vision. From now on, operations will be more effective, intelligent and powerful.

All for a common mission: saving lives.



STRONGARM

The LE 100 StrongArm from LUKAS doesn't take a joke when someone gets in its way. This strong multitasker makes short work of anything that tries to be a hindrance! The StrongArm moves obstacles with up to 4 tons of weight aside! Powered by a powerful battery, the device offers full performance in extreme environmental conditions. When in use, the StrongArm is easy to transport with the matching backpack.

LIGHT, MOBILE, VERSATILE

With the door opener tips, the StrongArm opens doors and windows and lifts loads. The combination tips turn it into the perfect spreading and cutting tool.



■ LE100 StrongArm



■ E100 StrongArm

ADVANTAGES

- **Opening:** The multitasker opens anything up to 4 tons
- **Spreading:** With up to 700 kN spreading force

Cutting: Round steel up to 22 mm and chains up to 10 mm thick.

Technical Data	LE 100 StrongArm
Cutting force up to	155 kN
Round steel up to	22,2 mm
Blade opening with combi tips	207 mm
Spreading force	28 kN to 700 kN
Spreading distance with door opener tips	184 mm
Spreading distance with combi tips	215 mm
Dimensions with combi tips: L x B x H	796 x 195 x 210 mm
Weight	9,8 kg
NFPA cutting class	A5 / B3 / C5 / D6 / E6

STRONGARM ACCESSORIES





Since 1964, Vetter has been one of the industry's leading manufacturers of pneumatic rescue equipment and tents for emergency services around the world. Vetter works hand in hand with rescuers to develop products that are as close to reality as possible, and to understand the needs and demands of the rescue team. The aim is to understand pneumatics and to manufacture high-quality rescue products in the field of emergency pneumatics.



OPEN WATER TANK (OWT)

The open water tank made of tear-resistant PVC straightens itself thanks to the floating ring.



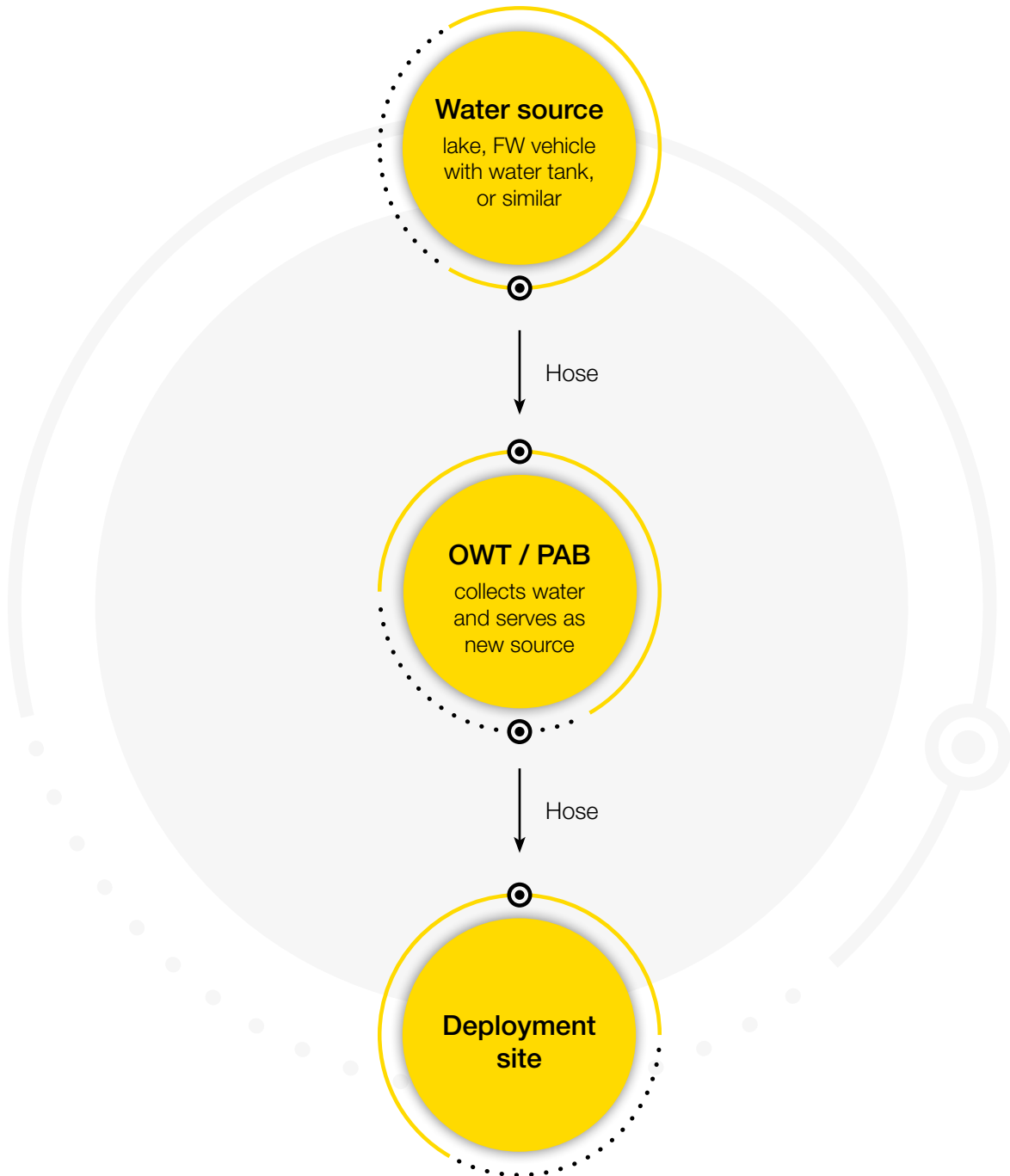
ADVANTAGES:

- Available in 3 sizes: 1,000, 3,000 & 5,000 liters.
- Connection via Storz C
- Use for tank shuttle: Is the only possible use for this product for the forest fire sector.

Technical Data	Diameter [floor] m	Diameter [Opening] m	Height m	Weight *, ca. kg	Folded size cm
OWT 1.000 Liter	1,76	0,7	0,8	12	70 x 45 x 45
OWT 3.000 Liter	2,64	1,4	0,9	21	115 x 64 x 33
OWT 5.000 Liter	3,04	2	1	2	115 x 64 x 33

EXPLANATION TANK SHUTTLE

The operation site is far away from the water source and hoses are not long enough. The terrain does not allow a close approach with the vehicle, then the open water tank (OWT) or the pneumatic collection containers (PAB) can be used as an intermediate station.



PNEUMATIC COLLECTION CONTAINERS

If large quantities of clean, contaminated or hazardous liquids need to be temporarily stored at the site, you are optimally equipped with the pneumatic collection containers from Vetter. The containers are set up in seconds, giving you a valuable time advantage. They form safe reservoirs that you simply pump out afterwards.



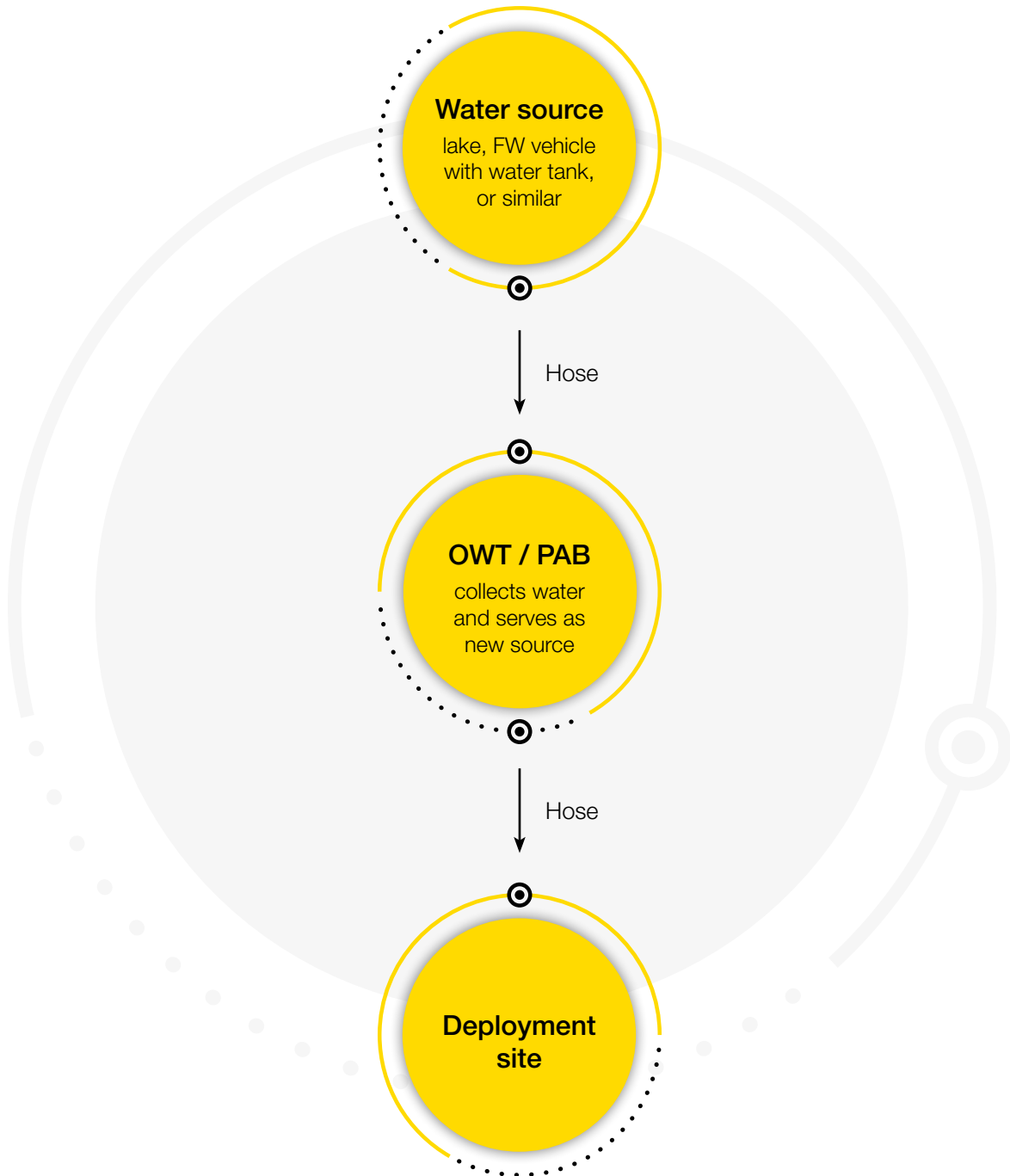
ADVANTAGES

- Available in 2 sizes: 3,000 & 5,000 liters.
- Chemical resistant inner tarpaulin
- Stable construction
- Use for tank shuttle

Technical Data	Inner diameter cm	Outer diameter cm	Air requirement at 0,5 bar Liter	Capacity Liter	Weight Set kg	Folded Size cm
PAB 3.000 L	Ø 225	Ø 265	705	3.000	33	110 x 72 x 30
PAB 5.000 L	Ø 280	Ø 320	843	5.000	44	110 x 85 x 40

EXPLANATION TANK SHUTTLE

The operation site is far away from the water source and hoses are not long enough. The terrain does not allow a close approach with the vehicle, then the open water tank (OWT) or the pneumatic collection containers (PAB) can be used as an intermediate station.



MEDICAL TENTS MT 20 & MT 30

Quick assembly and disassembly and easy handling - the MT-Line supports you immensely during operations. With an optimal usable width and well thought-out functions, the MT Line is perfectly equipped for a wide range of scenarios.



ADVANTAGES

- Rapid deployment tent
- Filling via compressed air bottle or blower
- Use as emergency control center, mobile hospital, meeting room, warehouse

SAVE PERSONNEL AND TIME

The tents are designed in such a way that from the transport to the erection and dismantling of the tent, the use can be carried out with as little personnel and time as possible. This means: self-erecting support frame, low weight, compact pack size as well as easy handling.



BASIC EQUIPMENT PREMIUM SET IN DETAIL

- Tent frame including tensioning ropes
- Covering tarpaulin with separately removable entrance tarpaulins
- patented fastening net in the roof area (removable)
- two independent connection possibilities
- sufficient number of windows & removable tent floor (barrier-free)
- four vents, two on each side of the tent

Technical Data (inches & lbs)	MT 20	MT 30
Usable area m ²	20	30
Number of possible beds	6	8
Setup time s	120	180
External Dimensions [W x L x H] cm cm	370 x 593 x 294	550 x 593 x 324
Internal Dimensions [W x L x H] cm cm	370 x 534 x 294	550 x 534 x 294
Air requirement Liter	3052	4566
Folded Size with packing bag [L x W x H] cm	110 x 85 x 60	110 x 85 x 60
Weight Premium kg	76	110
Weight Basic kg	74,5	107,5

PSA CHANGING TENT

Out of contaminated clothing, into a clean change of clothes: The new Vetter changing tent is equipped with a compressed air connection and is ready for use in less than a minute. It fits comfortably on the sidewalk or behind the emergency vehicle and offers enough space in two cabins for changing clothes by squad while still at the scene.

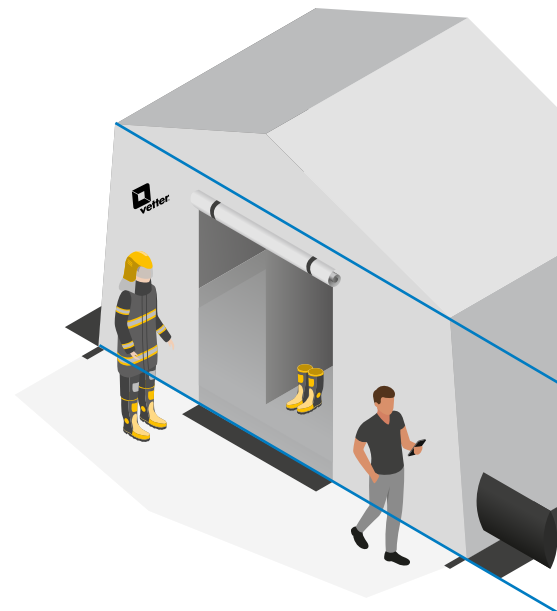


During firefighting operations, firefighters are exposed to danger not only from the cause of the operation itself, but also from the pollutants generated by fires, for example. The firefighters are often exposed to considerable quantities of toxic and carcinogenic substances - an everyday hazard that endangers the health of the women and men.

To minimize the health risk, the German Social Accident Insurance (DGUV) therefore specifies in DGUV Information 205-035 that contaminated PPE should be discarded while still on site and exchanged for a clean change of clothing.

1 TENT, 2 CHANGING CABINS & MANY ADVANTAGES:

- Space-saving stowage:
The tent is delivered as a single compact package.
- Quickly erected and self-erecting:
Pitched in less than a minute
- Ready for immediate use: side walls, partition wall and groundsheet already attached to the tent
- Enough space to change clothes in two cabin squads
- Protects emergency personnel and offers a wind- and weather-protected place to change contaminated PPE
- Customized: optional banners can be added to the side walls
- Quickly cleaned: The tent floor is removable for easier cleaning
- Flexible: Equipped with entrance tarpaulin on both sides



Technical Data	PSA Changing Tent
External Dimensions [W x L x H] cm	380 x 180 x 255
Cabin area [W x D] cm	190 x 180
Folded Size [L x W x H] cm	95 x 55 x 35
Floor area m ²	6,84
Weight kg	35
Cabins	2
Colour	grey
Air requirement Liter	1.005
Setup time via compressed air bottle	40 s
Setup time via blower	55 s

Trusted IDEX Fire & Safety Brands



IDEX Fire & Safety

Leading global provider of innovative solutions in the field of fire protection and safety

idexfiresafety.com

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