



Safe, realistic, reliable

DRÄGER FIRE
TRAINING SYSTEMS

22
CLASS

Dräger

SETT

D-5157-2009

Everything from a single source



In a real firefighting situation, there is no time to get used to stress, heat and smoke. Mistakes in firefighting tactics can have grave consequences. Exposure by training in Dräger fire training systems offers the best possible preparation for real firefighting. So when you are fighting fires, you are not playing with fire.

Everything from a single source – worldwide

For more than 100 years, the name Dräger has been synonymous for products and systems that improve the protection and safety of people. This refers not only to high-quality individual products but also to facilities and systems that train the use of protective equipment under conditions of realistic use. All over the world, Dräger has successfully implemented fire simulation systems for its customers as a reliable partner for planning, implementation and after-sales service.

Individual and flexible solutions

Our experts work with you to develop a suitable training concept and a fire training system that is tailored to your needs and meets the appropriate

training needs requirements. Whether it is a small fire pan, a mobile fire trailer, an aircraft fire training system that is actual size or a fire training building. Using modular systems we create individual fire training systems and we can adapt the solution to your financial resources. We can also help develop packages for financing projects.

Realistic training scenarios

To ensure the best possible training, you must be able to reproduce both the typical scenarios and the hazardous situations in a fire. The focus falls equally upon training in the use of extinguishing tactics under safe conditions and on acclimatization to both the physical and psychological stresses associated with firefighting. This means



we place particular emphasis on the correct selection of the training scenarios, realistic representation of flame patterns and incorporation of small details, resulting in well-rehearsed, safe procedures in actual firefighting – because in case of fire, each move must be the right move.

**Safety and Quality –
two of our most important priorities**

The safety of all trainees is top priority in Dräger fire training systems. For that reason we only use proven high-quality products and implement existing safety guidelines without compromising the protection of the trainees. Thanks to the quality processes of Dräger, you can be confident that your training systems comply with the highest

safety standards. We will also assist you in carrying out the acceptance procedures for your training system with the local authorities.

Reliability and Efficiency

We offer regular training for your operating personnel and make use of our established network of service centres to manage the maintenance of your fire training system even after installation. Should your training goals change, we are at your side to support, advise and assist you in matters relating to the expansion or alteration of your fire training system. Our goal is a long-term partnership and relationship with our customers.

realistic,
reliable and safe



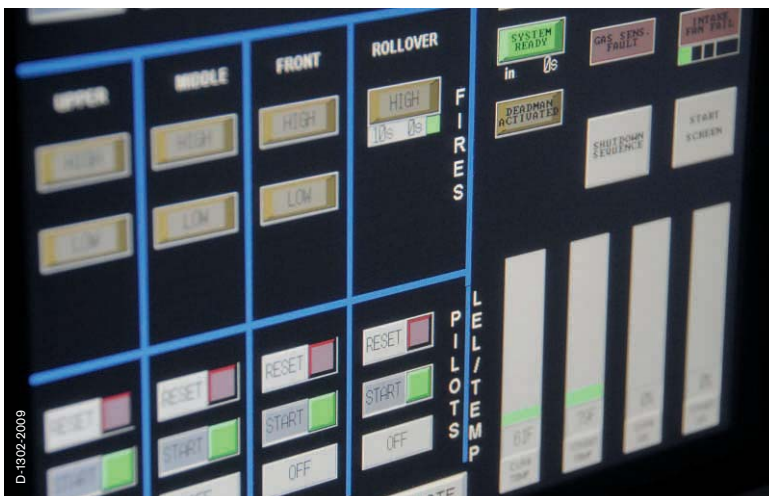
Training for every stage of your professional life – realistic, reliable and safe.

Your partner for complete firefighter training, from respiratory protection training to heat acclimation and tactical and practical firefighting, Dräger offers professional systems for every possible application.

Safety first

In all Dräger gas operated fire scenarios the following safety concepts apply:

- At least four temperature sensors per room
- Two gas sensors per room
- Monitoring from the control room and additional optional local monitoring by the instructor/trainer in the fire training room
- A trainer can intervene at any time via remote control
- Emergency shutoff buttons installed in all rooms
- Immediate ventilation of the total facility when an emergency shutoff button is activated
- Optional monitoring with a heat-imaging and infrared camera



Here today, somewhere else tomorrow.

Mobile fire training systems are always there when you need them

To provide you with a mobile fire training system that allows you to train wherever the trainees are, we have implemented realistic fire scenarios into our mobile fire training systems. Fires in a kitchen, on a sofa, under stairs, at the gas meter, in a pipeline, a flashover and much more can be simulated. If you need to remain flexible and increase your training variety, we can install universal fire points into your fire training system that can be fitted with a variety of attachments. This makes it possible to change scenarios that represent the different classes of fire, therefore providing you with a wide variety of training situations and possible outcomes. Combinations that include a fire training system, a fitness/conditioning system and a respiratory protection training system are also possible.

Instill the correct tactics during safe, realistic training

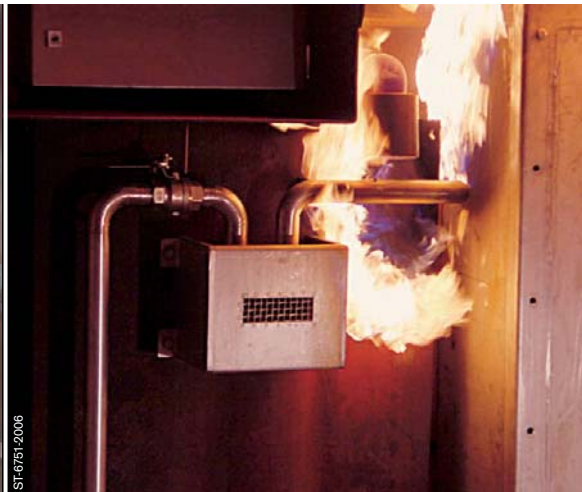
What happens if there's too little extinguishing water or it's in the wrong place? All Dräger fire points can be equipped with an optional automatic extinguishing success monitoring. This gives you the possibility to operate fire scenarios automatically depending on the degree of success when extinguishing the fire. If extinguishing is wrong the flames will increase in intensity and can even spread to other fire points or even initiate a flashover. For safety reasons it is always possible for the instructor to intervene and stop an exercise by using his remote control.

Real fire in a class "A" flashover container

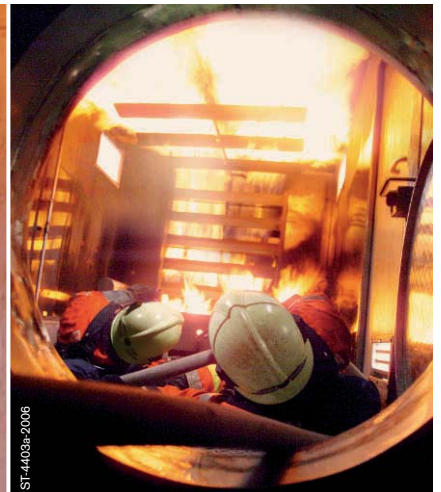
A class "A" Dräger flashover container gives firefighters an excellent opportunity to recognize and experience thermal development of a fire. Every trainee learns to recognize the signs of a flashover based on smoke and fire development and also how to prevent a flashover occurring.



D-1306-2009



ST 6761-2006



ST 4403a-2006



D-1303-2009



ST-2281-2006

Mobile respiratory protection training gallery:

Equipped with gas-operated fire points for efficient training at variable locations.



ST-295-2000

Combined training system:

Combination of respiratory protection training gallery and gas-operated fire training system.



ST-296-2000

Flashover container:

Solid-fuel-operated the flashover fire training container.



Fire training buildings and industrial training systems.

Whether the fire is in a domestic or commercial environment, we provide for realistic implementation of your training scenarios.

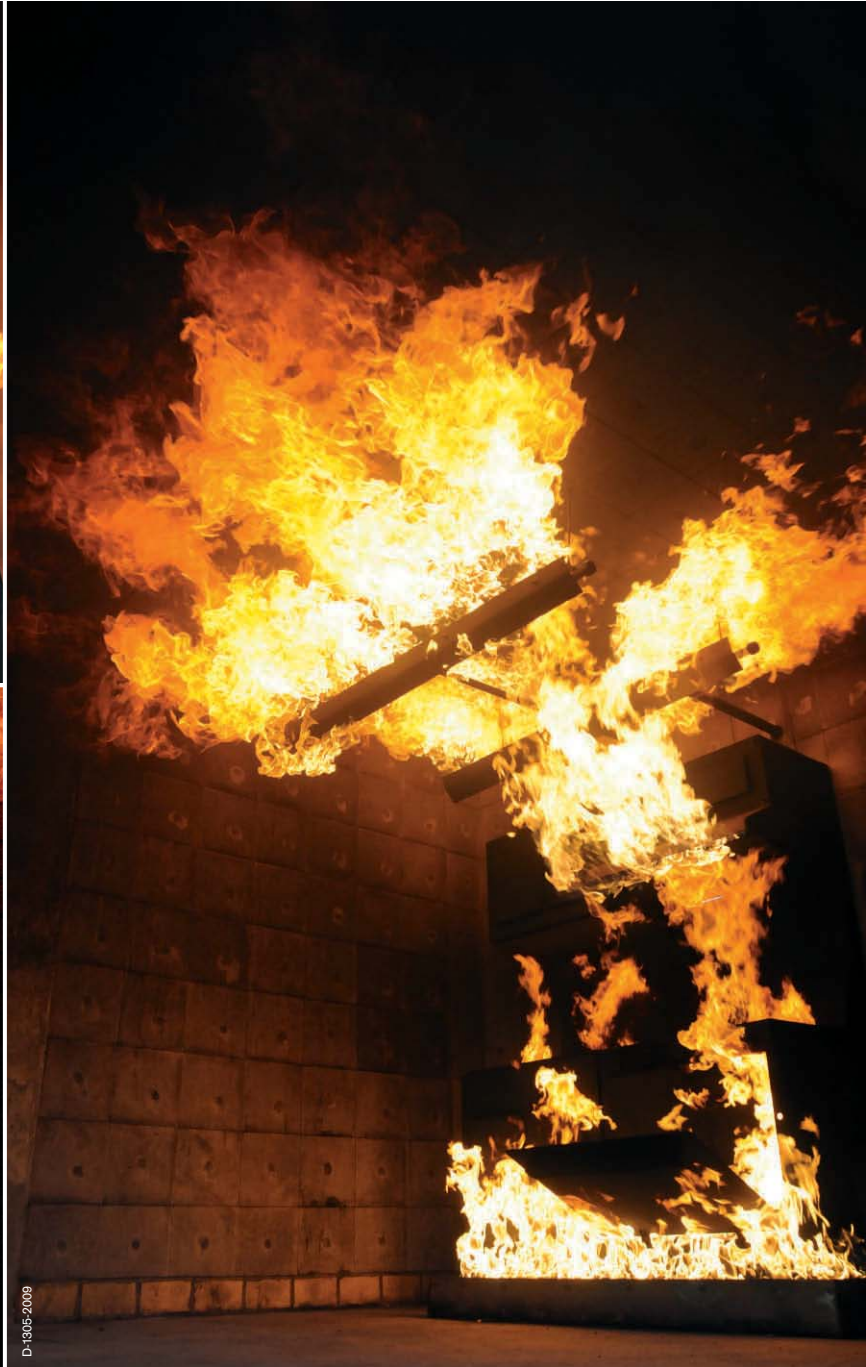
Everything under control – Dräger fire training buildings

We can implement your complex requirements. This can offer the most comprehensive variety of fire scenarios, for instance in a house fire, a garage fire or an industrial fire can be simulated realistically. Whether it is a burning kitchen, a sofa fire, an attic fire, a car fire in an underground garage, burning gas cylinders or gas meters – anything is possible and we have already completed installations that include these types of fire scenario. The safety of the individual fire points and the overall training system is guaranteed by the uncompromising implementation of all safety requirements and the innovative monitoring and control systems, these are always our highest priority. As in all gas-operated systems, fire training buildings can be equipped with optional extinguishing success monitoring and scenario programming. For instance, if an incorrect extinguishing tactic is used, a sofa fire might spread to the curtains or even lead to a flashover

taking place. Additionally, the height of flames are infinitely variable, this can be dependent on the degree of experience of the trainees for example. We would also be pleased to advise you about the practical sequencing of fire scenarios.

We've got even more in the pipeline – Dräger

Are you responsible for safety and firefighting in industrial systems in the chemical or petrochemical industry. If so, we also have the right training systems for the hazardous environments that you work in and face everyday. Whether it's a tank fire training simulator with cracks, burning valves, leaking liquids, leaking pipeline systems with ruptured and leaking flanges, or even complete simulated industrial process plants with different fire scenarios and fires that are at different levels Dräger is able to advise you on the planning and implementation of such projects. We are also available to provide both skilled and reliable support during operation of your training facility.





ST-4810/2006



ST-4831/2007



ST-4817/2007

Training on a scale of 1:1 with Dräger Aircraft Firefighting system.

Aircraft fires represent a special challenge in firefighting due to the extreme nature of the potential hazard and the immediate impact on both the passengers and aircrew.

A wide range of training scenarios

In an aircraft, fire can develop in many places: engines, under the aircraft due fuel leakage, on the landing gear, in the cargo hold, in the passenger compartment, in overhead baggage compartment, in the cabin seating areas or in the galley. Each fire requires an individual approach and tactic, this can be optimised through realistic training in Dräger aircraft firefighting simulators with a variety of internal and external fire scenarios.

We build the aircraft of your choice, it can be a combination of different types of aircraft and can even be full size and scale if required. We are also able to support you with the implementation of ICAO and FAA requirements with regards to the training scenarios for aircraft firefighting. The search for injured people and the evacuation of passengers, via an emergency slide for example, require a well trained and competent team. In addition to firefighting it is possible to include a variety of different training features into our simulators.

Fighting liquid fires

Leaking aviation fuel that ignites is possibly one of the most dangerous situations in aircraft firefighting. The right tactics for extinguishing the fire, proper teamwork and the correct use of extinguishing media are key elements to success. The Dräger training facilities that include simulated fuel spill fires provide the ideal environment for teaching, learning and developing these skills.

Since exercises with kerosene are becoming increasingly problematic in terms of the environmental impact, Dräger offers a gas operated fuel spill fire which offers a safe and environmentally friendly option. Without any loss of realism, the intelligent control of different fire training courses can be staged; even the particularly difficult situation of changing wind directions can be simulated. Our portfolio is complemented by fire screens for firefighter training with a monitor.

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