Dräger Swede Survival
Live fire training in Class A container systems
Class A

Dräger Swede Survival:
Real Smoke, Real Heat, Real Fire
OUR WOOD-FUELED SWEDE SURVIVAL SYSTEMS PROVIDE BOTH EQUIPMENT AND TRAINING, ENABLING YOU TO:

– Develop a progressive live firefighter training curriculum

These systems enable firefighters to incrementally develop knowledge of fire behavior and skills for fire control/suppression as they advance through six available skill centers – Phase 1 through Phase 6.

– Minimize risk

These systems combine purpose-built training units with Dräger-certified instructional programs that train the trainers on the safe operation of the unit – including proper fuel loading, ignition, ventilation control, and delivery of the training.

– Replicate real-world scenarios

This comprehensive solution enables you to deliver extremely realistic, hands-on training. By selecting one or more Phases, you can address most of the requisite skills for structural firefighting as per the NFPA 1001 Standard for Firefighter Professional Qualifications and the NFPA 1403 Standard on Live Fire Training Evolutions.

– Control training costs

Compared to the high cost of architectural concrete or steel burn buildings, Dräger Swede Survival Systems are extremely cost effective. Training units can be placed almost anywhere, can be moved from one location to another, and require minimal maintenance.

UNMATCHED TRAINING

All live fire training is inherently dangerous. That’s why Dräger is committed to developing and offering the most comprehensive training programs in North America. Dräger Swede Survival Systems and Dräger certified instructional training programs have been designed and delivered in accordance with training methods developed by the Swedish Rescue Services Agency through the Swedish Rescue Training Center (SRTC).
FEATURES OF THE DRÄGER SWEDE SURVIVAL SYSTEMS TRAINING CURRICULUM

Every Dräger Class A Swede Survival Fire Training Simulator provides real-world fire conditions and scenarios at your facility for up to ten of your agency’s instructors. Our unmatched “Train-the-Trainer” program which includes Dräger curriculum enables you to:

- Develop a progressive live firefighter training curriculum based in part from our published curriculum for each individual simulator
- Control training costs
- Replicate Modern Fire Behavior
- Achieve multiple NFPA training competencies through field proven curriculum
- Recognize and observe fire behavior and conditions in a safe and controlled environment

WORLD-CLASS TRAINING COMES STANDARD

With Dräger, formal training is included with the purchase of any Swede Survival System. The curriculum includes:

- Ignition sources
- Fire behavior
- Formation of fire gases
- Fire control
- Container operations
- Hydraulic ventilation
- Smoke and ventilation exercises
- Nozzle technique
- Smoke conditions recognition
- Container management
- Overall safety

Dräger also offers custom-designed Swede Survival Systems to meet your exact training requirements
“The system is flexible and realistic.”

-Battalion Chief Dan Miller, Omaha Fire Department

GENUINE SWEDE SURVIVAL SYSTEM
After two Swedish firefighters lost their lives to flashover in 1986, the Swedish government asked the country’s Rescue Service to develop a full burn behavior program that included flashover training. The intent of the program was to help firefighters recognize extreme fire behavior and avoid injuries and death.

Dräger brought this live fire training program to North America in 1990 and has delivered hundreds of systems in the US and Canada to fire departments, fire academies, airports, military agencies, and more.

DRÄGER TEACHES...DRÄGER LEARNS
After having conducted hundreds of training sessions using our standard Phase 1-5 Swede Survival Systems since 1990, Dräger has expanded the structure lineup and training scenarios, without sacrificing the core curriculum, integrity of content, and overall safety. Much of the new content has been the result of listening to the instructors and incorporating new, innovative features and scenarios. Today’s lineup now includes an Advanced Phase 2 design, featuring expanded props and scenarios in a mobile, compact unit, Phase 5 Modified designs, fully customizable to meet individual agency requirements, and a new Phase 6 concept, expanding training simulations to office and hotel designs.
Today’s building materials and furnishings produce fires that burn faster and hotter than ever before. In fact, modern homes reach flashover significantly faster than homes did 50 years ago*.

**PHASE 1: BURN BEHAVIOR AND FLASHOVER DEVELOPMENT OBSERVATION**

Demonstrates fire behavior, progression, flashover indicators, and prevention techniques

In a safe and controlled setting 3 feet below the burn chamber, trainees closely observe typical fire behavior in a room-and-contents fire. They witness ignition, the phases of fire development, and the signs that lead to a flashover – including heavy smoke, heat, thermal layering, and rollover.

Trainees can also witness the impact of ventilation and learn about ventilation-limited and fuel-limited fires. By experiencing these conditions, trainees learn to recognize warning signs and develop nozzle skills that can delay flashover and permit a rapid escape from this dangerous phenomenon.

The Phase 1 module can also be configured as a mobile unit, to facilitate training at multiple locations.

PHASE 2: INTERIOR ATTACK

Expands on fire behavior lessons from Phase 1 and progresses to attacking the fire
In a 40-foot container, training now takes place on the same level as the fire. Trainees enter the unit, identify the level of fire development, and use proper nozzle techniques to control the fire. If trainees recognize the development of flashover, they must use the nozzle techniques to delay the onset of the flashover and retreat from the unit. Instructors maintain control of the scenario through proper operation of the ventilation chimney. The Phase 2 can also be used to address other requisite skills required in a typical single-story building fire.

PHASE 2 MOBILE: INTERIOR ATTACK

Allows for fire attack in a mobile unit
This version of the Phase 2 system is available on a mobile trailer, comprising all of the training features of the stationary Phase 2 unit, while allowing for use in multiple locations.

Due to its mobile design, this unit allows departments to satisfy training requirements on-site with their satellite locations, maximizing return on their investment.

PHASE 2+: ADVANCED ATTACK (MOBILE)

Combines the training of Phase 2 with the benefits of a multipurpose skill facility
You can conduct numerous dynamic scenarios in this 48-foot mobile unit by using the unit’s additional training devices in conjunction with its live fire capability. There’s a moveable wall system to change the approach path and for search and rescue, a fold-up pitched roof and railing with second story window frame for laddering, bailout, and rescue, a confined space entry hatch through the roof, a vertical ventilation prop, and first-story windows and doors for mechanical, horizontal ventilation.
Dräger Swede Survival Systems

**PHASE 3: BACKDRAFT**

Demonstrates the warning signs of backdraft and the intensity of an explosion

If warning signs go unnoticed, a firefighter can cause a backdraft by opening a door or breaking a window to reach a compartment fire. For exterior observation only, the Phase 3 is a laboratory that gives trainees the opportunity to learn about the conditions that can cause or otherwise occur during a backdraft condition. The fire in the ventilation-limited compartment produces a significant amount of smoke and fire gases, which are heated beyond ignition temperature. When the compartment door is opened and oxygen is introduced, a large explosion results from the rapid combustion of the gases.

**PHASE 4: GARAGE**

Simulates an entry room with heat and smoke leading to a large live fire room, providing additional fire attack scenarios

This trainer is configured with two 40-foot containers side-by-side and a 20-foot container installed perpendicularly at the entry point of the burn chamber. This layout forms a hallway entry into a double-wide burn chamber for more advanced and dynamic scenarios. The additional width lets you train two nozzle teams entering from opposite sides of the structure. This system is offered with an optional car prop, to simulate a more realistic scenario.
PHASE 5: MULTI-STORY, MULTI-FIRE

Simulates a multi-story, single-family dwelling structure fire

This flexible unit leverages the lessons learned from Phases 1–4: size up, breach, ventilation, enter, search and rescue, attack, and overhaul. It enables fire attack at grade, below grade, and above grade, covering applicable NFPA 1001 requirements – at a fraction of the cost of similar architectural burn buildings. The Phase 5 is the ideal complement to other Phases, but is also a cost-effective stand-alone training facility.

PHASE 5 MODIFIED: MULTI-STORY, MULTI-FIRE

Simulates a multi-story, single family dwelling structure fire

Expanding on the standard Phase 5 design, the Phase 5 Modified structure also includes a double wide burn chamber, four cold containers, and a variety of additional fire attack props, including a flat roof prop, a Denver Drill prop, and angled ventilation. The Phase 5 Modified design can be further customized to meet specific requirements of individual fire departments.

PHASE 6: INTERIOR HALLWAY

Simulates a hotel or apartment building fire

With an 80 foot central hallway and 20-foot containers as burn chambers, this system lets you train for fire attack, smoke conditions, search and rescue, and hose handling through the main corridor. The design offers various scenarios due to the length of the central hallway and the number of potential burn chambers.
Why Dräger?

For more than 100 years, Dräger has worked with the municipal and industrial fire industry. Dräger is the only fire services vendor that designs and manufactures both operations equipment and live fire training systems.

We can support you in all phases of firefighting:

- **Pre-incident**: engineered training systems, training curriculum, and maintenance solutions

- **During the incident**: respiratory and personal protection equipment, gas detection, and tools to aid in rescue and tactical decision making

- **Post-incident**: thermal imagers for overhaul; testing, calibration and cleaning tools to efficiently return the gear to service

To learn more about Dräger Live Firefighter Training Systems, go to [www.draeger.com/firetraining](http://www.draeger.com/firetraining)
Dräger’s comprehensive portfolio of both Class A and B professional fire training props, as well as custom configurable SCBA confidence mazes, allow solutions that are tailored to the unique needs of individual fire departments, giving firefighters the ability to practice in a safe environment. Whether you are looking for a fixed or mobile solution, let the experts at Dräger help you design the solution that is right for you.

For more information see the link below.
http://www.draeger.com/en-us_us/Fire-Services
Dräger’s Interior Live Fire Training System can be operated with a comprehensive variety of training scenarios – residential or commercial. Safe, realistic, and customized to your fire training facility, these structures are designed with multiple training props, a remote fire control and observation area, various measurement and detection devices, and a ventilation system.

Dräger Containerized Live Fire Training System (CLFTS)

The Dräger Containerized Live Fire Training System can be equipped with a variety of interior fire simulators. The propane-based CLFTS is modular, expandable, utilizing multiple containers and requires only limited site preparation. It can even be moved and re-installed.

Aircraft Rescue and Firefighting System (ARFF)

Propane-based systems that allow for simulation of various aircraft fire scenarios, including underneath, due to fuel spillage, in the undercarriage, in the cargo area, and inside the cabin. Various aircraft types are available, based on individual requirements.
Mobile Live Fire Training Unit (MLFTU)

The Dräger Mobile Live Fire Training Unit (MLFTU) is an easily transportable, multifunction training structure. Designed to allow training on multiple fire scenarios, it is equipped with an on-board generator and a supply of gas cylinders. A second story is hydraulically lifted and lowered, to facilitate on-road transport. This unit can be equipped with additional customer props to meet individual fire training requirements.

Exterior Live Fire Training System (ELFTS) the QUAD

Firefighters are able to train on fire scenarios with multiple different propane-based props, including a car, locker, cylinder, flange, and customer-specific designs. 2-stage fires can be controlled via a main panel or a wireless hand-held pendant.

Dräger Exterior Live Fire Training System (ELFTS), the CAR

Access from 360 degrees, three separately controlled two-stage fires, including engine, passenger compartment, trunk, and realistic flame signatures make the CAR a great exterior tool for firefighter training.
Related Products

Dräger Exterior Live Fire Training System (ELFTS), the System 64

Designed to fit inside a truck bed, van, or small trailer, and be set up in under 30 minutes, this flexible exterior live fire trainer lets you conduct training scenarios virtually anywhere. With a 6x4 foot liquid propane fueled burn pan, 2-stage fires, and a variety of interchangeable props, the System 64 can address many fire training scenarios in a highly mobile configuration.

Dräger Training Gallery Maze Systems

Dräger Training Gallery Maze Systems are designed to build the confidence and agility of firefighters in confined spaces while wearing full PPE, including an SCBA. Trainees learn air management and discover how far they can go on a limited air supply. Each maze can be customized to individual needs and is available in either a mobile and stationary design.
Notes
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