COBRA INFORMATION

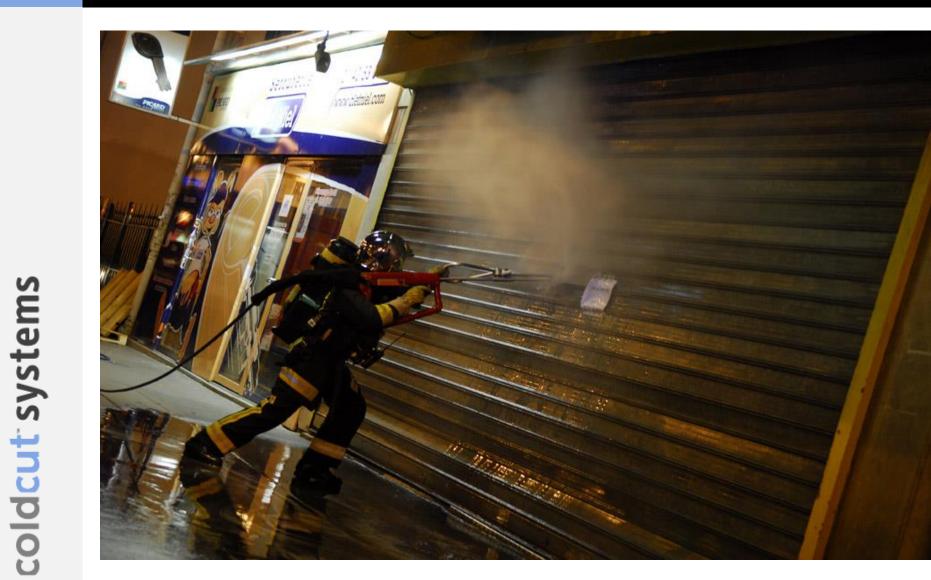


coldcut systems

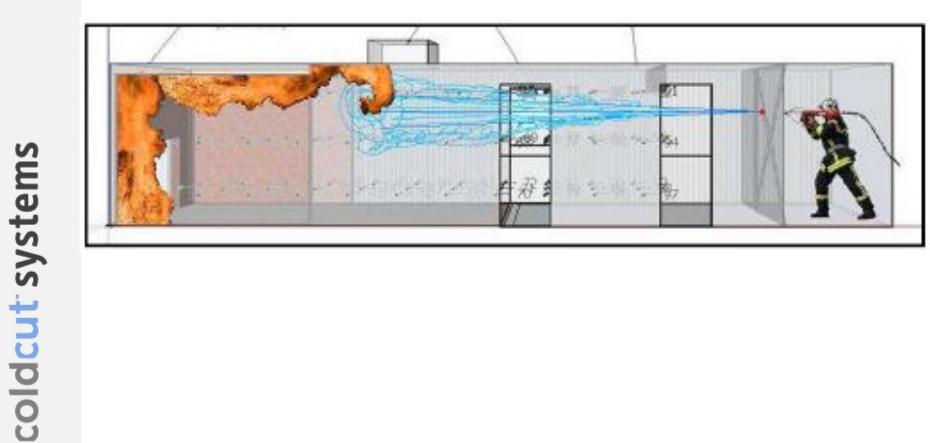
 The coldcut[™] cobra cuts through any material and cools the fire gases from a safe position from the outside

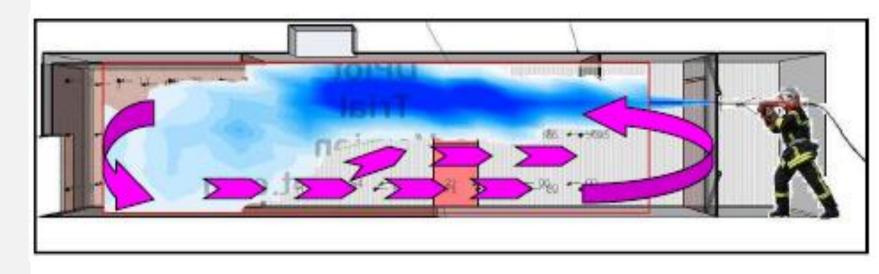
• Together with PPV and thermal camera this method can create a safer environment for fire personnel.



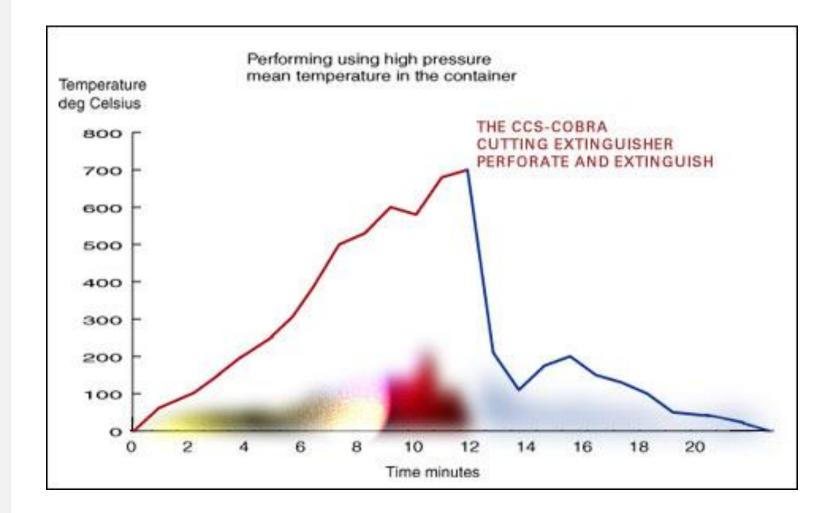








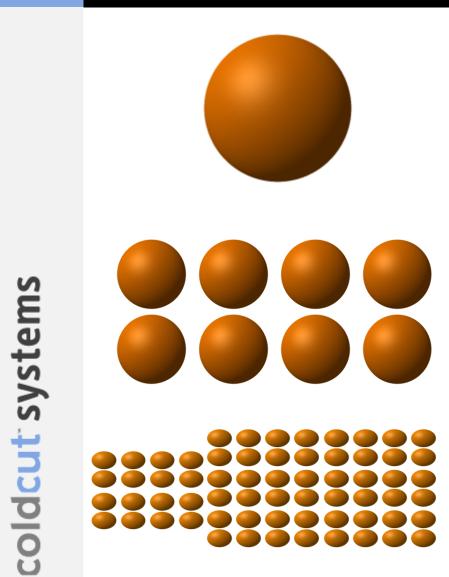
- Very small droplets behaving more like an aerosol than traditional droplets from other fire fighting equipment.
- Most of the water vaporize when it hits hot gases or hot surfaces.
- Very efficient cooling effect that takes down the temperature and inert the fire gases.







Waterdroplets



Traditional nozzle (10-12 bar) Y=1,54 (Y=4x3.14x0,35²)

High pressure (30-40 bar) Y=3,01 (Y=4x3.14x0,175²)

Cobra (300 bar) Y=6,14 (Y=4x3.14x0,0875²)

SAVING ENVIRONMENT

 Fire destroys extensive economic values every year. Over 50% of these costs in large fires derive from water damages



SAVING ENVIRONMENT

• The coldcut[™] cobra uses 30-60 liters of water per minute and most of the mist evaporates.



DEMOFILM BBC









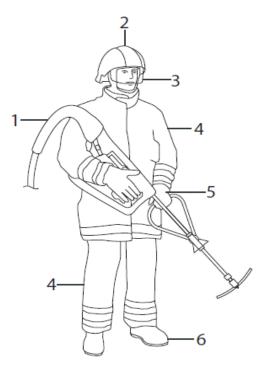


VENTILATED FIRE





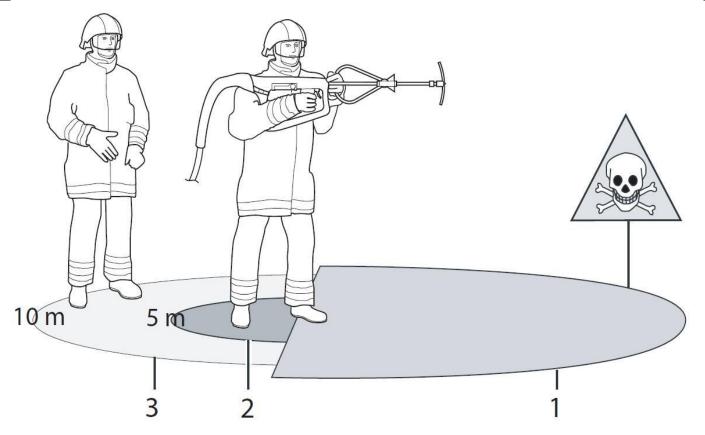
SAFETY AND SECURITY



- 1. Protective cover
- 2. Helmet

- 4. Protection suit
- 5. Protection gloves
- 3. Visor or safety goggles 6. Protection boots

SAFETY AND SECURITY



- 1. Make sure no people are in the front-safety zone.
- 2. 5 meter distance to persons with protective gear.
- 3. 10 meter distance to a to unprotected person.

SAFETY AND SECURITY

- In certain situations the firefighter how handles the lance can be supported by a assisting firefighter.
- The assisting person must always stay behind the lance- man. He must be trained and wear protective gear.



coldcut™ academy

Training program

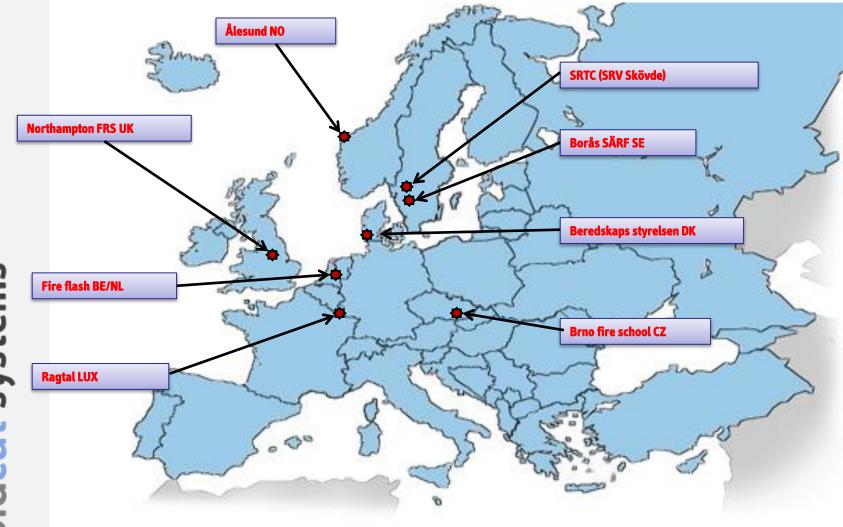
Basic training2 daysTactical training: officers course1 dayInstructor course: train the trainer3 (5) daysService course1 day



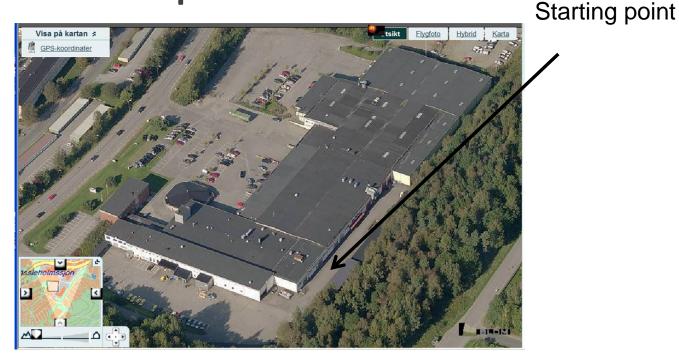
coldcut[™] academy



coldcut[™] academy



- **v** Totally 10 000 m2
- **Sectioned in smaller parts**
- **15 different companies**



Arson fire in cars outside warehouse



y Fire spread in to the building

Early decision: No inside fire fighting. Stop the fire spread into other parts of the building.

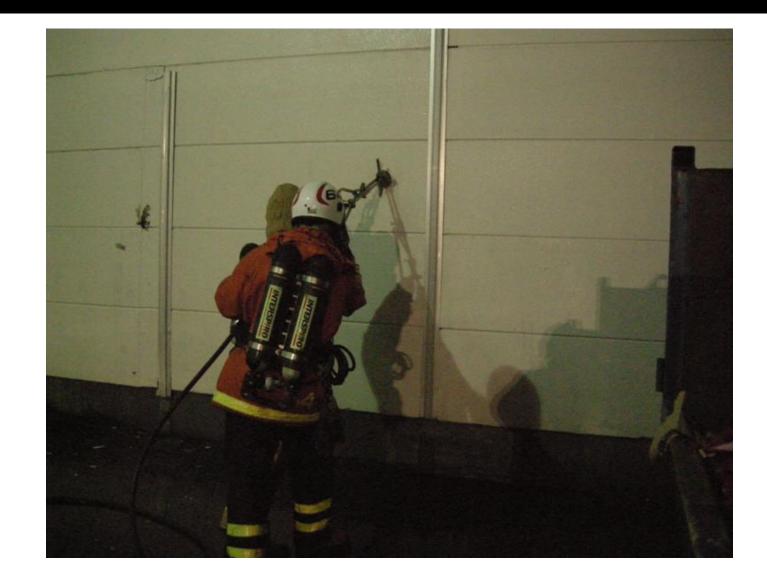


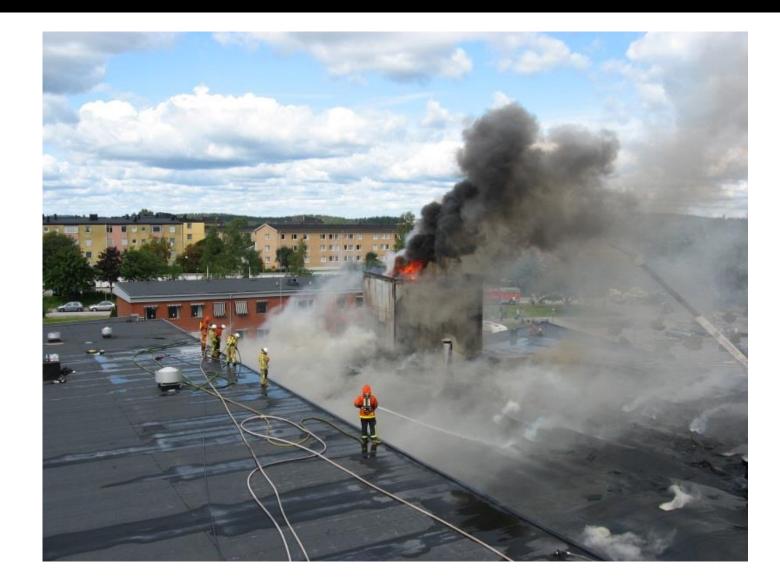
Chosen methods

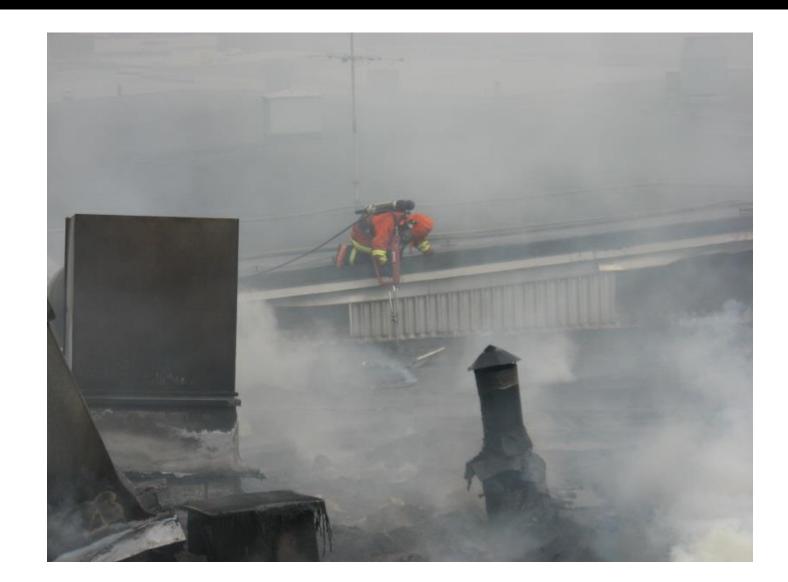
- PPV
- Cobra
- IR- technique
- Aerial platforms













- **11 PPV fans was used**
- 🖌 6 Cobra was used
- **1 200 m2 was totally burnt out**
- **2 500 m2 was smoke damage**

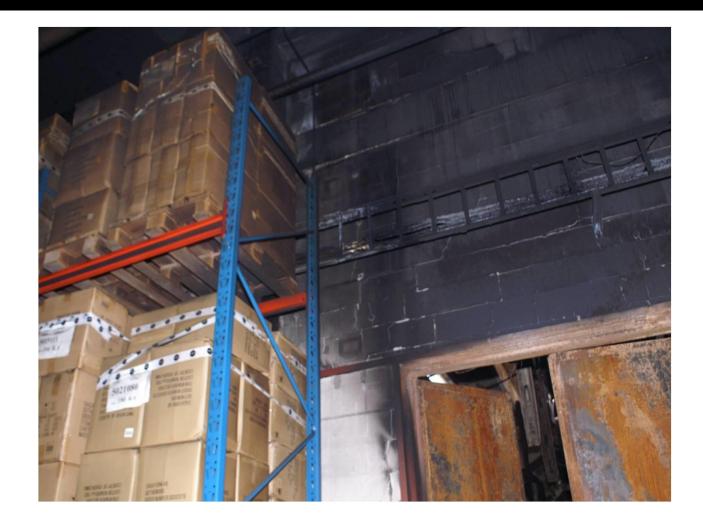


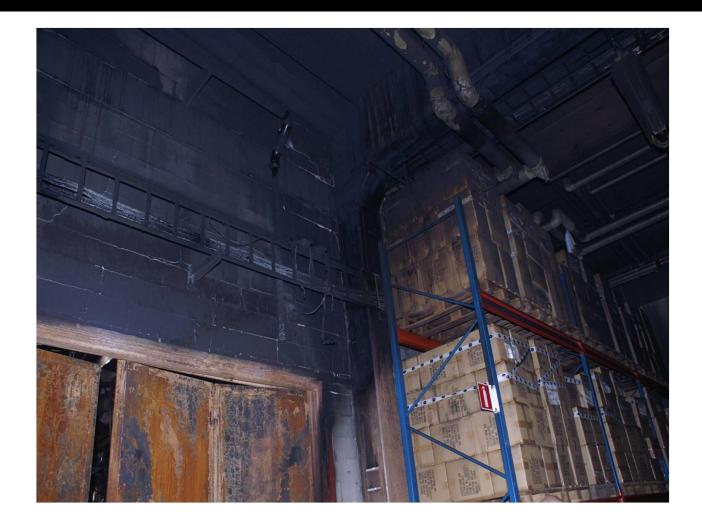






coldcut⁻ systems







Settimated savings according to insurance company 10 million €





Catalent Pharma Solutions Sedge Close Headway, Corby

24/03/11 Time of Call 0846hrs







Catalent Pharma Solutions

development, manufacture and packaging services for pharmaceutical, biotechnology and consumer health companies







