# CATALOG NIV



**MADE IN GERMANY** 







# INDEX OF CONTENTS

| 7   |  |    |
|---|--|----|
| <u>Firetra</u>                                    | <u>iner</u>  |    |
| Fi  | iretrainer Evolution   | 3  |
| Fi  | iretrainer smartfire, ECO, Business                              | 4  |
| М   | ock-Up modules   | 5  |
| Fi  | iretrainer complete set  | 6  |
| A   | utomatic fire extinguisher filling System                        | 7  |
|   |  |    |
| Fire Mo   | odules for firefighter-training                                  |    |
| Fi  | iretrainer Business III Professionell                            | 8  |
| U   | niversal fire pan  | 10 |
| В   | urning gas-bottle-valve / Acetylen-fire unit                     | 11 |
| V   | alve fire unit   | 12 |
| S   | urface fire module   | 13 |
|   |  |    |
| Hazardous goods and fire simulation training unit |  |    |
| М   | obile dangerous goods training facility                          | 14 |
| D   | angerous goods training facility tank vehicle/railway/container. | 16 |
|   |  |    |
|   |  |    |
|   | <u>nized fire training plants</u>                                |    |
| Fi  | ire container 45"  | 18 |
| A   | ircrafttrainer A320  | 20 |
| Ir  | ndividual exterior fireplaces                                    | 21 |
| Tı  | raining building "FRTC Frankfurt"                                | 22 |
| Н   | igh Rise fire training building"                                 | 23 |
| P   | etro-chemical fire training plant"                               | 25 |
| Ti  | rain fire simulation plant"                                      | 26 |





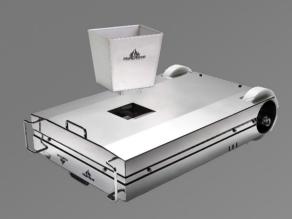
# FIRETRAINER EVOLUTION (Article no. 2150-6440)

The fire simulation training device **Evolution** is the new, innovative unit in our HeatWave Firetrainer series. It has been specially designed for exercises with hand-held fire extinguishers and, due to its compactness, can be transported and operated by one person - perfect for instruction and employee training.

The training unit features user-friendly transport wheels at the rear and transport handles at the front, which make it easy to tilt over the device. A tilt sensor detects the 2 operating positions. Liquid fires (fire class B) can be represented in the 1st operating position. The 2nd operating position allows unrestricted use of all dummy modules (of fire class A/C). The connections for electricity, gas and hand-held remote control are located on the side of the wheel hub. Thus, the training device can be tilted over at any time without cumbersome handling.







- Dimension L/W/H ca.: 700 x 500 x 200mm
- Representation of liquid fires with water bath technique
- Suitable for all common extinguishing agents
- Connections for electricity, gas and hand remote control are detachable
- Weight: ca. 27 kg
- Manual operation
- Mains an battery operation
- Easy cleaning due to special surface finishing
- Built according to DIN 14097-2 (gas fuelled display units).



### Completely made of stainless steel







# HANDHELD FIRE EXTINGUISHING TRAINER

### FIRETRAINER SMARTFIRE



The mobile fire simulation training device smartfire is specially designed for instruction and employee training. It is characterized by its easy handling and compactness.

Dimension fire tray closed: L/W/H: 840 x 650 x 250mm
 Dimension fire tray open: L/W/H: 1.220 x 650 x 230mm

• Weight: ca. 65 kg

• Fire classes A/C and B can be represented

Suitable for all extinguishing agents (foam, powder, water, CO<sup>2</sup>)

Battery operation optional

Manual operation

(Article no. 2150-2811)

Due to its external control unit, the fire simulation training device Firepocket Eco can be used for employee training as well as for the operation of fire training modules for firefighters.

Dimension fire tray closed: L/W/H: 840 x 650 x 250mm
 Dimension fire tray open: L/W/H: 1.220 x 650 x 230mm

Weight: ca. 112 kg

- Fire classes A/C and B can be represented
- Mains and battery operation standard
- Automatic or manual operation selectable
- Connectors for fire simulation training modules: 1
- Suitable for all extinguishing agents (foam, powder, water, CO<sup>2</sup>)
- (Article no. 2150-2326)

## **FIRETRAINER ECO**



# FIRETRAINER BUSINESS



The fire simulation training device Firepocket Business has been developed for professional firefighter training. Depending on the variant type, up to 4 fire simulation modules stations can be operated simultaneously.

Dimension fire tray closed: L/W/H: 840 x 650 x 250mm

Dimension fire tray open: L/W/H: 1.220 x 650 x 230mm

• Weight: ca. 140 kg

 Suitable for all extinguishing agents (foam, powder, water, CO<sup>2</sup>)

- Fire classes A/C and B can be represented
- Mains and battery operation standard
- Automatic, manual or programmed operation selectable
- Connectors for fire simulation training modules: 4
- (Article no. 2150-2323)





# MOCK-UP MODULES

# **WASTE PAPER BASKET**



- Dimension L/W/H:
   300 x 300 x 330 mm
- Weight: 5,7 kg
- (Article no. 1750-2235)

# **SPRAY TIN / AEROSOL EXPLOSION**



- Dimension L/W/H:
   200 x 200 x 500 mm
- Weight: 5,9 kg
- (Article no. 1750-2254)

## **ELECTRIC MOTOR**



- Dimension L/W/H:550 x 270 x 400 mm
- Weight: 9,3 kg
- (Article no. 1750-2248)

# FRYING PAN/BURNING OIL EXPLOSION



- Dimension L/W/H:270 x 200 x 480 mm
- Weight: 5,7 kg
- (Article no. 1750-3131)

### **ELECTRONIC SWITCH BOARD CABINET**



- Dimension L/W/H:530 x 400 x 550 mm
- Weight: 22,5 kg
- (Article no. 1750-2249)

### **MONITOR / TELEVISION SET**



- Dimension L/W/H: 420 x 400 x 500 mm
- Weigth: 8,7 kg
- (Article no. 1750-2247)

# **COFFEE MACHINE**



- Dimension L/W/H:340 x 250 x 590 mm
- Weight: 10,9 kg
- (Article no. 1750-6783)

# **GAS VALVE**



- Dimension L/W/H:200 x 200 x 890 mm
- Weight: 8,0 kg
- (Article no. 1750-2531)





# FIRETRAINER COMPLETE SET (Article no. 2900-0835f)

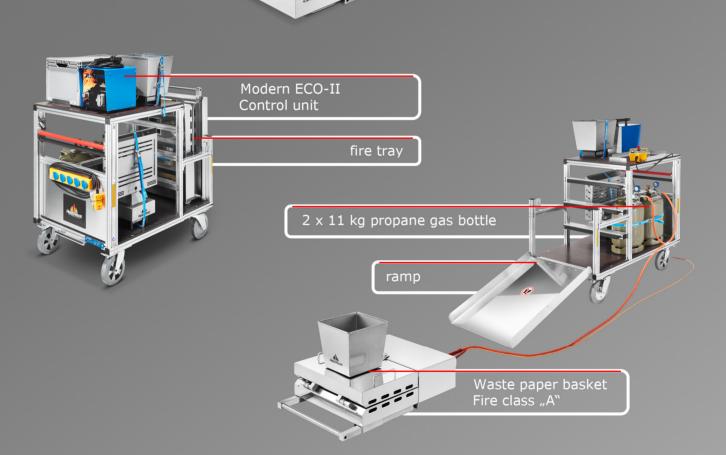
With the Firetrainer complete sets, we offer a customised transport and storage option for all our entry-level equipment on a roll container basis. You decide which equipment should be compactly stored in the roll container.

# **Example of loading list for roller containers:**

- Firetrainer ECO-II control unit
- Handheld remote controler
- Fire tray tiltable
- Dummy modules wastebasket and monitor
- Heating mats for gas bottles (Qty. 2)
- Gas hoses with pressure reducer



Liquid fire Fire class "B"







# AUTOMATIC FIRE EXTINGUISHER FILLING SYSTEM (Article no. 2900-0835g)

Similar to the Firetrainer complete set, we offer a customised transport and storage option for fire extinguishers including a filling system. With the automatic filling system, 2 fire extinguishers can be filled at the same time via quick-release couplings. This saves you the trouble of opening the fire extinguishers to fill them with water.

3 x CO<sub>2</sub> Extinguisher

# **Example roller conterner mesh box:**

- L: 1.200 W: 800 H: 1.200mm
- 4 swivel castors with dead man's brakes
- Drum an parking brakes
- Actuation is hydraulic
- Capacity for 12 pcs. fire extinguisher
- Attached drawer carriage fort he compressor and the filling unit









# FIRETRAINER BUSINESS III PROFESSIONAL (Article no. 2150-1388)

The worldwide unique control unit Firepocket Business III is a microprocessor control based on CAN-BUS. All training scenarios are programmed, controlled and stored via a wired (optionally wireless) hand-held remote control in LCD technology. All of our company's fire modules, from the small hinged fire pan to a complete fire training container, can be operated with this control unit, giving you maximum flexibility in creating different training scenarios for hand-held fire extinguishing and Hollow jet nozzle training. Up to 4 fire points can be operated simultaneously in the modes "manual mode, automatic mode or programme mode".



# **Functional principle manual operation**

Pressing the corresponding button ignites the pilot flame. As soon as the pilot flame has been detected, the main flame can be started by pressing the button once more. When the button is pressed a third time, the fire goes out again.

### Functional principle automatic operation

If the automatic mode is active, the first flame is ignited when any button is pressed. If the pilot flame is detected, the main flame starts automatically. As soon as the first fire is extinguished, the second one starts automatically. Once the second is extinguished, the third starts and once this is extinguished, the fourth starts.

# Functional principle programme operation

If the unit is in the modus programme, 3 jump-over times can be set. Fire place 1 is started by pressing any button. Once the first timeout period has elapsed, the second fire point starts regardless of the status of the first. This continues until the fourth fire point is reached.

Some examples of scenarios of the Firepocket Business III control unit are shown on the right.







Scope of delivery of the ready-to-use Firetrainer BUS-III:

- BUS-III control unit
- Fire tray tiltable
- Handheld remote control unit
- All gas hoses
- Transport trolley

Now you only need propane gas to go!

We will of course configure your BUS-III according to your training preferences.





# UNIVERSAL FIRE PAN (Article no. 2050-2346)

The universal fire pan is the ideal training device for firefighting training and is also suitable for the use of hand-held fire extinguishers. With a fire of the size of a Euro pallet, not only can all dummy modules be used, but also empty barrels or metal structures.



- Dimension L/W/H:1.200 x 800 x 400mm
- Weight: ca. 90 kg
- Suitable for all extinguishing agents (foam, powder, water, CO<sup>2</sup>)
- Fire classes A/C and B can be represented
- Optionally also available with integrated control unit













# BURNING GAS-BOTTLE-VALVE / ACETYLEN-FIRE UNIT (Article no. 2050-2331/2317)

The universal fire pan serves as the basic module for the gas cylinder fireplace. Similar to the barrel fireplace, this fire module also has an inactive unit in the form of a 33 kg gas cylinder which can be filled with water (weight) for recovery exercises. The second gas cylinder has a gas hose fire which can be extinguished by closing the cylinder valve. Of course, this training module also offers a surround/surface fire.

Dimension L/W/H:1.200 x 800 x 1.700mm

• Weight: ca. 160kg

 Suitable for all extinguishing agents (foam, powder, water, CO<sup>2</sup>)

Optimal for indoor use

• This module can also be ordered as an acetylene fireplace. In this version, a heating mat which can be heated infinitely up to 200°C is additionally installed in the active gas cylinder to simulate the decomposition of acetylene. OPTIMAL FOR THE EMPLOYMENT OF THERMAL IMAGING CAMERAS!













# VALVE FIRE (Article no. 2050-2348)

The valve fireplace is a professional training device for "teamwork", "water jet pipe training" and "heat familiarization". Due to its modular design, this fire module can either be set up as a "stand alone" version on a tripod or flanged to structures, flanges, pipelines, container walls, cisterns etc. With an output of approx. 2000 kW! it places extreme demands on the trainee.



- Dimension without tripod L/B/H:1.030 x 680 x 460mm
- Dimension with tripod L/B/H:1.030 x 820 x 1.460mm
- Weight: ca. 125 kg
- Ideally suited for hollow waterjet gun training
- Optionally also available with integrated control unit













# SURFACE FIRE (Article no. 2050-4761)

The surface burning module is offered in different sizes (e.g., Ø2m or Ø3m). It can be operated in two stages, whereby the liquid phase is added in the second stage to obtain maximum output. By attaching a specially designed baffle, one or more waterjet nozzles can be used simultaneously.



- Built to DIN 14097
- Diameter 2m, up to 3m
- Fire surface: approx. 7m<sup>2</sup>
- Extinguishing success control via optical and thermal sensors
- Water drainage / filling valve at the lowest point of the fire pan
- Weight: ca. 500 kg
- Ideally suited for hollow waterjet gun training
- Optionally also available with integrated control unit







# HAZARDOUS GOODS AND FIRE SIMULATION TRAINING UNIT GUBAS

GUBAS is the most modern mobile fire and leakage training unit on the market, offering real, efficient and safe training opportunities. The complete training unit is operated with environmentally friendly propane gas and does not contaminate air, soil or extinguishing water during training. The units are built in accordance with DIN 14097-2 (fire training systems for gas-operated display units) and are thus subject to the highest safety requirements.



### **BRANDSIMULATION**

- Crack fire with product leakage
- Flow / ground fire
- Valve fire
- ► Pressure relief valve / tank rupture
- ► Fire simulation with inactive dummies
- Mobile (additional) fire modules



### **LEAKAGES**

- ► Tank crack and leaking weld
- **▶** Leaking valves
- Pipe training system / salvage pumping
- Crash leakage at the front
- ► All known methods for leak sealing are applicable



# ACETYLEN GAS (ADDITIONAL EQUIPMENT)

- ► Recovery of gas cylinders
- ► Cooling of gas cylinders
- Hose Fire
- Detection of decomposition inside
- Soot formation due to decomposition inside
- ► Thermal imaging camera training



### **TACTICS**

- Reconnaissance in the event of accident
- Action training incl. recognition of the effectiveness of acteions
- ► Tactics training for hazardous goods accidents
- **▶** Tactics for gas cylinder fires
- Situation awareness training
- **▶** Rescue of persons from containers
- **▶** Firefighting training







# **Design variants**

GUBAS is designed and built entirely according to your wishes and specifications. Whether on a roll-off frame, a tandem trailer, with or without container rescue unit. You determine the equipment and appearance of your training system. Of course, all system variants can also be delivered as a completely self-sufficient solution.



TIPPING TRAILER







# **MODULE und LEAKAGES**

- Chemical plant leakage
- Road tanker fittings Railroad tanker fittings
- Defective gas pipe
- Valve fire unit

- gases/vapours
  Colour mixing system (food colouring) up
  to 4 different colours













# Projekt example mobile hazardous goods training facility

- Dimension L/W/H: 5.900 x 2.550 x 2.500mm
- 13 leakage points
- Valve fire unit
- Acetylene fire module
- Smoke system (presentation of gases/vapours)
- Colour mixing system (food colouring) up to 4 different colours















# PROJEKT EXAMPLE MOBILE HAZARDOUS GOODS TRAINING FACILITY

### **BUILT TO CUSTOMER REQUIREMENTS!**

The dangerous goods training facility shown here was specially developed for practising damage to tank vehicles, tank containers, tank rail cars (railway) and pipelines (GSG situations). The roll-off container consists of a free-standing container and an equipment room for storing equipment and a training system for sealing pipeline leaks. The purpose of the exercise facility is to work on common valves of one valve type each of road tanker, rail cisterns and tank container.

The roll-off container is only charged with water and fog for exercise purposes. All systems were depicted as realistically as possible in terms of type and design. All depicted leakages are controlled via pipelines.

- Dimension L/W/H: 5.900 x 2.550 x 2.500mm
- Smoke system (presentation of gases / vapours
- Possible exercise scenarios:
  - Sealing leaks in pipelines and tank containers
  - Repair of simulated leaks on valves
  - Rescue of persons from containers
  - Getting to know different valve systems on tank vehicles and their operating principle







Tank dummy tanker container fittings







# PROJEKT EXAMPLE MOBILE FRE CONTAINER..MBA-2017-GVG"

- Mobile 45 'HQ fire container with 6 fire places
- Vertical and lateral extension
- Curtain fireplaces
- Flash-over fire module
- Kitchen fire with frying pan fire
- Salon table fire (mobile)
- Bed fire (mobile)
- Staircase fire
- Artificial smoke system













# PROJEKT EXAMPLE MOBILE FIRE CONTAINER "KÖTTER"

- Mobile 45´ HQ fire container with 6 fire places
- Gas bottle valve fire module
- Flash-over fire module
- Bed fire module
- Flange fire module
- Staircase fire
- Kitchen fire with frying pan fire
- Hot Door
- Artificial smoke system















# PROJEKT EXAMPLE AIRCRAFTTRAINER A320

- Aircraft trainer with 6 fire places
- Cockpit fire, kitchen fire (galley), rubbish bin fire in the toilet
- Hat-rack fire, landing gear fire
- Engine fire with 3 burner elements in liquid and gas phase
- Opening in the engine for use with Fognail
- Automatic spreading of the fire possible
- Flashover training

# Implementation of customer wishes possible!









# PROJEKT EXAMPLE INDIVIDUAL EXTERIOR FIREPLACES

- Fire training facility into 3 fire stations
- Firecar (tyre fire, engine fire, interior fire, boot fire
- Railroad cistern with 2 valve fires and surface fire
- Filling station fire

















# PROJEKT EXAMPLE FIRE TRAINING BUILDING "FRTC FRANKFURT"

- Size: B/T/H: 20,00m x 8,80m; 7-storey building
- 11 fire training rooms
- 2 wireless remote-control units
- 3 mobile fire places
- Staircase fire
- 4 Fireplaces mock-up's (kitchen, workbench, bed, sofa)
- 4 stationary fireplaces (window fire, flash-over, roof fire, gasometer fire)
- Artificial smoke / fog system















# PROJEKT EXAMPLE HIGH RISE FIRE TRAINING BUILDING CIVIL DEFENCE ACADEMY, ABU DHABI, UNITED ARAB EMIRATS



- Size HRB: 12-storeys, 2 Tunnels
- Hazardous goods warehouse
- 14 fire sectors, 3 sectors + HAZMAT can be operated simultaneously
- 3 Operator stations & 3 RCU
- 27 firesimulators with 35 fireplaces
- 13 Special Effect Props in the HAZMAT
- Solid Fire Room & Flue Gas Cleaning Plant
- 1 Hot Door
- 24 Smoke generators
- 28 Day/Night & 27 Thermal Cameras
- 2 Gas Evaporators (450 & 600 kg/h)
- 50 Gas Sensors
- 20 Combustion Air fans
- 28 Exhaust axial & roof fire gas fans



Flash-over with ceiling fire

















# PROJEKT EXAMPLE PETRO-CHEMICAL FIRE TRAINING PLANT HANDAN, CHINA

- 2 Oil Tanks, 1 Gas Tank
- 1 Petro-Chemical Installation
- 13 Fireplaces on 4 floor levels
- 1 Oil Tank top fire
- 4x3 Pipe leaks
- 3 Fire Sectors (2 can operate simultaneously)
- 2 Operator Stations & 2 Remote Control Units
- 2 Gas Evaporators (2x 450 kg/h)











# PROJEKT EXAMPLE TRAIN FIRE SIMULATION PLANT RESC KORSOR, DENMARK

- 1 Train Coach in Tunnel
- Seat Fire, double
- Seat Fire, Business Case
- Suitcase Fire
- Electric Cabinet Fire
- Wireless remote control
- Gas monitoring system











# TRAINING FOR SECURITY - IN SAFETY!

More than 25 years of experience and continuous further developments lead to new innovative products. These cover a wide range of exercise and training possibilities.

High-quality materials, state-of-the-art components and an innovative team guarantee first-class product quality. Due to the modular design of our systems, the products can be flexibly adapted to customer requirements. All products are operated with environmentally friendly propane or natural gas.

Our creative team consists of experienced firefighters, engineers and sales people and is available to you worldwide for service and after-sales support.

We guarantee a high industrial standard for the production of all devices, among others according to DIN 14097. All devices are manufactured and tested according to strict QMS specifications.

### Our company guarantees:

- High manufacturing quality unbeatable in service life
- Reliability and funtionality
- Fair price-performance ratio
- Close customer contact and mutual trust
- TÜV certified plants
- QM-System
- DIN 14097
- Guarantee beyond the warranty period
  - QMS ✓
  - Warranty 24 months
  - TÜV certified
  - - DIN 14097 GDG (2018-05)
       Fire training systems gas-fuelled display units
    - DIN EN 746-2 (2011-02)
       Safety requirements for furnaces and fuel management systems
    - VDE 0116 (1989-10)



# www.naderer-firetrainer.com









Naderer Brandsimulationer AG Ocostrasse 20 CH- 5330 Bad Zurzach

Telefon: +41 56 249 26 58 Telefax: +41 56 249 26 59

Mail: info@naderer-firetrainer.com



HeatWave Fire Training Systems
Badstrasse 26
D- 79761 Waldshut-Tiengen

Telefon: +49 (0)7741 969 50 30 Telefax: +49 (0)7741 969 50 39 Mail: info@heat-wave.de

