

TRAINING



FIRE SAFETY
TRAINING EQUIPMENT



LEADER

Since 1985, LEADER has **designed** and **manufactured** higher performing equipment used in **firefighting, fire training** and **search & rescue** applications and supplies them to Fire & Rescue Services, Civil Defense, Hazardous Industries, NGOs, Maritime Services, etc. on five continents.

AN INTERNATIONAL PRESENCE

SUBSIDIARIES AND A STRONG NETWORK OF DISTRIBUTORS



A major axis : INNOVATION

To meet the advancing challenges of fire hazards and search & rescue missions, equipment must continually **evolve** and **adapt** to be **more effective** while ensuring **maximum safety for workers**.

To meet these challenges, LEADER is committed to constant **innovation and new technologies** and has its own in-house **Research & Development** team which works alongside end-users to design and develop the equipment that will be available tomorrow.

To test our equipment and assess its performance, we at LEADER continually invest in our own infrastructure:

- ▶ Water and High-Expansion Foam test room (400 sq m)
- ▶ Ventilation test room (400 sq m)
- ▶ Casualty Search Equipment test area
- ▶ Fire test area in fire container - Fire extinguishing equipment

Our commitment

When you choose LEADER equipment, you are assured of the **quality and compliance of our products**. These have been made in our workshops by our engineering and electronics **specialists**.

ISO 9001 certified since 1999, LEADER:

- ▶ Carries out **checks** at every stage of the manufacturing process as well as on the finished products before dispatch,
- ▶ Provides **continuous training** for all its staff.

Guaranteed equipment

Every LEADER product comes with a specific contractual guarantee .

Close to our customers

Through our sales force, subsidiaries in **Germany and the USA, agencies in Latin America and China and an international distribution network**, LEADER is present worldwide, keeping us as close as possible to our customers.

An organisation at your service

For optimal and long-term use of the equipment you purchase, LEADER can propose suitable training **on the handling, on the use and maintenance of the equipment**. Training can be done at our site or at your own site.



CONTENTS

FIRE RISK PREVENTION TRAINING EQUIPMENT

Specially designed for fire safety trainers, the LEADER range of fire training equipment enables you to **organise realistic and dynamic exercises** corresponding to different emergency situations when a fire breaks out.



FLAME GENERATORS

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MOBILE PANS AND TRAINING ACCESSORIES

FOR ENVIRONMENTALLY FRIENDLY FIRE SAFETY TRAINING



TRAINING EXTINGUISHERS

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RECHARGEABLE IN LESS THAN 5 MINUTES

INDISPENSABLE TO OPTIMISE YOUR TRAINING COSTS



SMOKE GENERATORS

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TO SIMULATE A SMOKE-FILLED SPACE

FOR ALL YOUR REALISTIC BUT SAFE EVACUATION DRILLS AND FIRE TRAINING

Flame generators

For more than 15 years LEADER has been designing and manufacturing Flame Generators that are ideal for delivering fire safety training to any company's employees, while being **environmentally friendly**, **non-hazardous to health**, and **meeting trainees' safety requirements**.

These stainless-steel Flame Generators run on propane gas. With or without water, they produce **powerful, hot flames** with controllable height from 7.9 inch to 9.8 ft depending on the model.



GF42

COMPACT & LIGHTWEIGHT

- ▶ QUICK TO SET UP
- ▶ EASY TO TRANSPORT

Without water
Surface area of fire: **4.5 ft²**
Flame height: **up to 3.9 ft**



AEROS 2

COMPACT FOR POWERFUL FLAMES

- ▶ EASY TO TRANSPORT
- ▶ IMPRESSIVE OIL-SLICK FIRE EFFECT
- ▶ SOLENOID VALVE FOR AUTOMATIC GAS CONTROL

Volume of water: **9.2 Gallon**
Surface area of fire: **5.4 ft²**
Flame height: **up to 4.9 ft**



PYROS 3

HIGH, POWERFUL FLAMES FOR REALISTIC TRAINING

- ▶ IMPRESSIVE OIL-SLICK FIRE EFFECT
- ▶ POWERFUL, HOT FLAMES
- ▶ WIRELESS REMOTE CONTROL
- ▶ ERGONOMIC CONTROL CONSOLE
- ▶ SOLENOID VALVE FOR AUTOMATIC GAS CONTROL

Volume of water: **16.4 Gallon**
Surface area of fire: **8.9 ft²**
Flame height: **up to 9.8 ft**



OPTIONAL ACCESSORIES COMPATIBLE WITH ALL FLAME GENERATORS

To customize training sessions and familiarize trainees with all fire extinguishing situations, LEADER offers training accessories compatible with all Flame Generators, capable of simulating specific situations such as computer screen fires, rubbish bin fires, deep fryer fires, electric motor fires, aerosol explosions and reaction of water on contact with boiling oil.

The ease and speed of set-up of these accessories on the adaptor, which itself is easily positioned on the pan, will enable you to run multiple examples of fires in a minimum amount of time.

TRAIN IN COMPLETE SAFETY

We know just how important safety is during training sessions, so LEADER has focused the development of this aspect: fire-resistant connecting cable, control console with emergency stop button, gas control solenoid valve, positive safety control, etc.



GF42

No water
Surface area of fire: **4.5 ft²**
Flame height: **up to 3.9 ft**

COMPACT & LIGHTWEIGHT

WATERLESS FIRE PAN

- ▶ Easy to use
- ▶ Lightweight, takes up little space
- ▶ Produces flames up to 3.9 ft in height
- ▶ 10-position flame height control
- ▶ Works with any kind of extinguishing equipment: all types of fire extinguishers, nozzles, foam units, etc.

TRAIN IN COMPLETE SAFETY

- ▶ Fire is controlled (ignited) via remote control cable

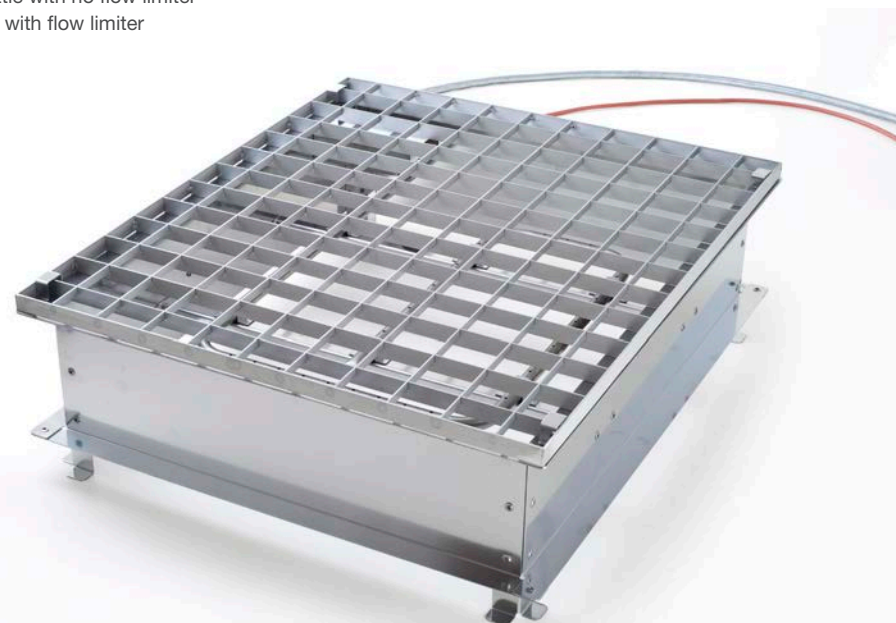
GAS SUPPLY

- ▶ From an industrial-type propane gas bottle with no flow limiter
- ▶ From two domestic propane gas bottles with flow limiter



KEY POINTS

- ▶ Easy to transport
- ▶ Quick set-up
- ▶ Simple to use



TECHNICAL CHARACTERISTICS

GF42 waterless fire pan		- Material: stainless steel - Dimensions: L 27.6 x D 24.8 x H 0.9 inch - Weight: 31.5 lbs
Remote-control cable	V90.00.024	- Splash-proof housing - Push button with protection against accidental ignition - Powered by 9V-6LR61 battery (not supplied) - 19.7 ft fire-resistant electric cable (standard IEC 331).
Armoured gas supply hose	V90.80.057	- 19.7 ft flexible connector to standard EN 559 - Flowrate: 26.5 lbs/h - Connects to industrial-type propane gas bottle without flow limiter
Basic kit: V90.00.050		

VARIANT for better control of the fire

	<p>GF42 pan + solenoid valve module</p> <p>Kit contents:</p> <ul style="list-style-type: none"> - 1 x GF42 pan - 1 x wired remote control with push button - 1 x solenoid valve module housing and its 12V battery, - 1 x gas pressure reducing valve for 1 gas bottle and associated supply flexible connector - 1 x charger
Ref : V90.00.038	

OPTIONAL ACCESSORIES

<p>Solenoid valve module</p> <p>Ref : V90.80.076</p> <p>For automatic instantaneous gas control.</p>	<p>2 domestic bottles kit</p> <p>Réf : V90.80.082</p> <p>To connect 2 domestic Propane bottles with integral flow limiter</p>	<p>Flexible connector</p> <p>Ref : V90.80.051</p> <p>With safety pedal.</p>	<p>Annual maintenance</p> <p>Essential for long-term safe use. 3-year contract</p>
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AEROS 2

Volume of water: **9.2 Gallon**
 Surface area of fire: **5.4 ft²**
 Flame height: **up to 4.9 ft**

COMPACT WITH POWERFUL FLAMES

FIRE PAN WITH WATER

- ▶ Impressive oil-slick fire effect: The water allows the fire to spread evenly across the entire surface of the pan
- ▶ Produces powerful realistic flames rising to a height of up to 4.9 ft
- ▶ 10-position flame height control
- ▶ Intense heat radiation, can be felt on the skin
- ▶ Works with all types of fire extinguishing equipment: all types of fire extinguishers, nozzles, foam units etc.

A FUNCTIONAL FIRE PAN

- ▶ Tilting legs make pan easy to drain
- ▶ Increased ground contact area enables use on loose ground

TRAIN IN COMPLETE SAFETY

- ▶ Wired remote control for control of the fire (ignition and extinction)
- ▶ Integrated solenoid valve for automatic and instantaneous gas control

GAS SUPPLY

- ▶ From an industrial-type propane gas bottle without flow limiter
- ▶ From two domestic propane gas bottles with flow limiter

+ KEY POINTS

- ▶ Impressive oil-slick fire effect
- ▶ Easy to transport
- ▶ Integrated safety solenoid valve for automatic and instantaneous gas control



TECHNICAL CHARACTERISTICS

AEROS 2 fire pan with water	V90.00.036	- Material: 304 stainless steel - Dimensions : L 38.4 x D 24.8 x H 9.5 inch - Weight: 45.9 lbs - Built-in rechargeable 12V battery.
Wired remote control		- Hand-held fire initiation and extinguishing by protected push button - 19.7 ft fire resistant electric cable (standard IEC 331)
Armoured gas supply hose	V90.80.057	- 19.7 ft flexible connector to standard EN 559 with pressure reducing valve - Flowrate: 26.5 lbs/h - Connects to industrial type propane gas bottle without flow limiter
Basic kit: V90.00.061		



OPTIONAL ACCESSORIES



2 domestic bottles kit

Ref : V90.80.082

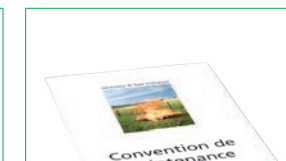
To connect 2 domestic Propane bottles with integral flow limiter



Quick coupling kit

Ref : V90.80.058

For quickly and easily connecting the flexible connector to the fire pan.



Annual maintenance

Essential for long-term safe use.
3-year contract

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PYROS 3

Volume of water: **62 litres**
 Surface area of fire : **0.83 sq m**
 Flame height: **up to 3**

HIGH, POWERFUL FLAMES FOR REALISTIC TRAINING

FIRE PAN WITH WATER

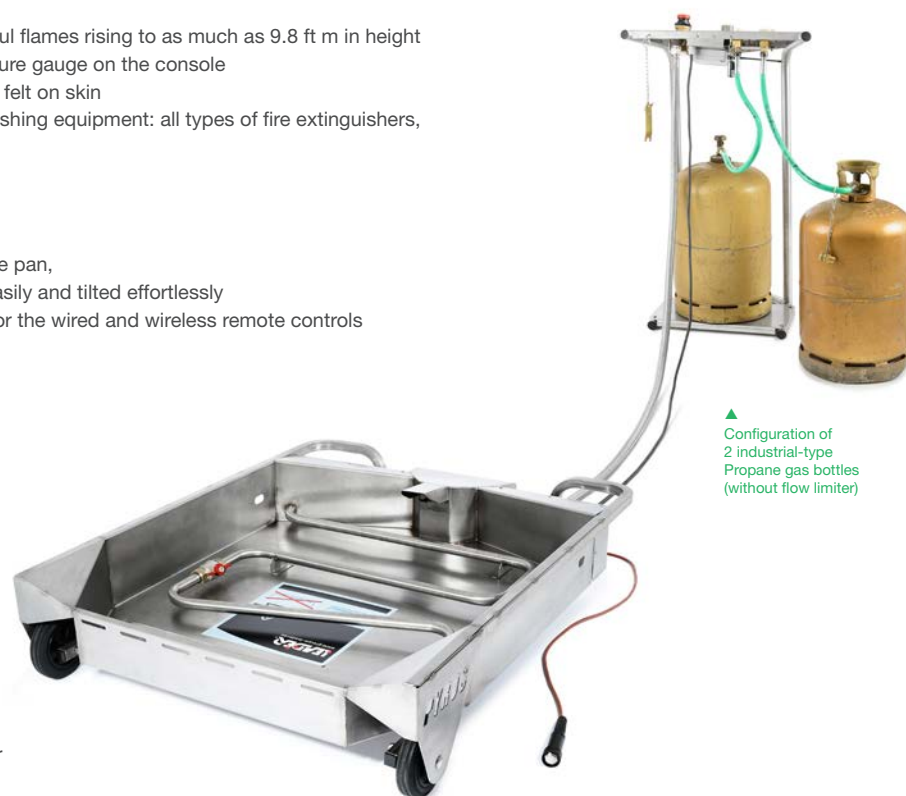
- ▶ Impressive oil-slick fire effect: The water allows the fire to spread evenly across the entire surface of the pan
- ▶ Produces realistic and very powerful flames rising to as much as 9.8 ft m in height
- ▶ Flame height controlled by a pressure gauge on the console
- ▶ Very intense heat radiation, can be felt on skin
- ▶ Works with all types of fire extinguishing equipment: all types of fire extinguishers, nozzles, foam units etc.

A FUNCTIONAL FIRE PAN

- ▶ Easy drainage ensured by:
 - Handles for secure handling of the pan,
 - Wheels allow pan to be moved easily and tilted effortlessly
- ▶ Storage space next to the igniter for the wired and wireless remote controls

KEY POINTS

- ▶ Large surface area of fire
- ▶ Powerful flames with intense heat radiation
- ▶ 2 remote controls supplied (wireless and wired)
- ▶ Ergonomic, easily transportable control console
- ▶ Integrated safety solenoid valve for automatic and instantaneous gas control



▲ Configuration of 2 industrial-type Propane gas bottles (without flow limiter)

COMPLETELY SAFE TRAINING WITH TRAINEE EVEN CLOSER TO REAL FIRE

- ▶ Two remote controls supplied for controlling the fire (ignition and extinction)
 - One wireless remote control: convenient when accompanying the student towards the fire without a cable
 - One wired remote control
- ▶ Integrated solenoid valve for automatic and instantaneous gas control
- ▶ Emergency stop button on console

AN ERGONOMIC CONSOLE

- ▶ Lightweight and stable
- ▶ Can connect 1 or 2 gas bottles
- ▶ Easy to transport: store in pan during transport
- ▶ Console has:
 - 2 gas supply taps
 - 1 flowrate adjuster for adjusting flame height
 - 1 pressure gauge for continuous gas pressure monitoring
 - 1 emergency stop button

GAS SUPPLY

- ▶ From one or two industrial-type propane gas bottles without flow limiter



Storage space/Electronic compartment
Gas supply connections



Console stows away in pan for transport

TECHNICAL CHARACTERISTICS

PYROS 3 fire pan with water	<ul style="list-style-type: none"> - Material: stainless steel - Dimensions : L 46.1 x D 38 x H 10.2 inch - Weight: 92.1 lbs - Fire surface area: 8.9 ft² - Volume of water: 16.4 Gallon - Integrated rechargeable 12V battery. - IP67 water- and dust-resistant connectors with protective caps. - Packaging: cardboard box on 3.3 x 3.9 ft pallet
Fuel supply console	<ul style="list-style-type: none"> - Material: stainless steel - Dimensions : L 22.4 x D 15.6 x H 39 inch - Weight: 19.4 lbs - Supply pressure adjustment from 0 to 43.5 PSI by pressure reducing valve fitted with pressure gauge - "Punch" safety button for emergency shutoff. - IP67 water- and dust-resistant connectors with protective caps. - Gas supply from 1 or 2 industrial-type propane gas bottles without flow limiter. - Easy-to-transport console: stows easily inside the fire pan.
Armoured gas supply hose	<ul style="list-style-type: none"> - Length : 19.7 ft, with screw connectors. - Ignition flowrate = 79.4 lbs/h (14.5 PSI), nominal flowrate = 130.1 lbs/h (29 PSI). - Electric cable: length 29.5 ft - fire resistance (standard IEC 331).
Wired remote control	<ul style="list-style-type: none"> - Hand-held fire initiation and extinguishing via protected pushbutton. - Splash-proof handle. - Electric cable: length 29.5 ft - fire resistance (standard IEC 331).
Wireless remote control	<ul style="list-style-type: none"> - Splash-resistant. - 98 ft range. <p><small>433 MHz frequency usable in European Union. Other countries: make enquiries.</small></p>
Basic kit: V90.00.041	



OPTIONAL ACCESSORY



4 domestic bottles kit
 Réf : V90.80.080

To connect 4 domestic Propane bottles with integral flow limiter.



Annual maintenance
 Essential for long-term safe use.
3-year contract

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PYROS with electrical cabinet module

TRAINING ACCESSORIES

COMPATIBLE WITH ALL LEADER FLAME GENERATORS

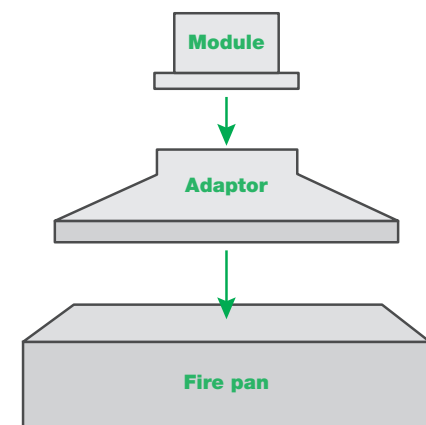
FOR CUSTOMISING AND VARYING YOUR TRAINING SESSIONS

To **familiarize** students with all fire extinguishing situations, LEADER offers modules for all of its flame generators capable of **simulating specific situations**: computer screen fire, rubbish bin fire, deep fryer fire, electrical cabinet fire, aerosol explosion, electric motor fire and oil explosion.

These training modules give trainees the chance to practice:

- ▶ recognising the type of fire (class A, B, C, D or F fires)
- ▶ selecting the appropriate extinguisher (water spray, water plus additive, powder, CO2 or foam)
- ▶ using the right technique to put the fire out (spraying the extinguishing agent onto the fire, covering the fire with a wet cloth, etc.)

SETUP



AEROS with flat computer screen module

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ADAPTORS

Necessary for installing the training modules



Adaptor for GF42 and AEROS 2
 Ref : V90.80.074
 H: 6.8 inch / L: 28 inch / D: 24.2 inch / Weight: 17.6 lbs



Adaptor for PYROS 3
 Ref : V90.80.077
 H: 11.4 inch / L: 28.7 inch / D: 17.7 inch / Weight: 19.8 lbs

TRAINING MODULES


compatible with adaptors for the LEADER GF42, AEROS 2 and PYROS 3 pans




Flat computer screen
 Ref: V90.80.071
 H: 15 inch / L: 18.3 inch / D: 3.3 inch (base: 5.7 inch) / Weight: 10.1 lbs



Bin
 Ref: V90.80.062
 Fits onto the flat computer screen module (Ref. V90.80.071).
 H: 14 inch / L: 15.5 inch / D: 7.1 inch / Weight: 6.4 lbs




Chip pan fire
 Ref : V90.80.070
 Mounts on top of the flat computer screen (Code V90.80.071) and the bin (Code V90.80.062).
 H: 5.5 inch / L: 15.5 inch / D: 10.2 inch / Weight: 3.1 lbs



Electrical cabinet
 Ref: V90.80.075
 1 Door with removable key which mounts on the flat computer screen module (Code V90.80.071).
 H: 15 inch / L: 18.3 inch / D: 4.3 inch (base: 5.7 inch) / Weight: 14.3 lbs




AEROS with aerosol explosion module



Electric motor
 Ref : V90.80.063
 H: 14 inch / L: 12.8 inch / D: 22 inch / Weight: 15 lbs



Aerosol explosion
 Module - Ref : V90.80.072
 Aerosol can - Ref : V90.80.079
 Module for use with 0.04 Gallon LEADER aerosol can only.
 H: 8.9 inch / L: 10.2 inch / D: 7.9 inch / Weight: 15.2 lbs



Oil explosion
 Ref : V90.80.073
 For use with vegetable oil only.
 H: 17.7 inch / L: 10.2 inch / D: 11.8 inch / Weight: 6.2 lbs



TRAINING FIRE EXTINGUISHERS

REFILLABLE WITH WATER IN LESS THAN 5 MINUTES

Essential at any fire safety training session, the LEADER training extinguisher has **all the characteristics of a real fire extinguisher** except that refilling is much **faster, simpler and less expensive** than with conventional extinguishers.

+ KEY POINTS

- ▶ Economical
- ▶ Quick and easy to set up
- ▶ Low maintenance
- ▶ Three versions available

3 VERSIONS AVAILABLE



Auxiliary pressure fire extinguisher
Ref : V90.90.000



Permanent pressure fire extinguisher
Ref : V90.90.001



CO₂ type fire extinguisher
Ref : V90.90.023

QUICK AND EASY TO SET UP

- ▶ Identical handling and appearance to standard extinguisher
- ▶ Handles well
- ▶ Quality spray
- ▶ Duration:
 - Auxiliary and permanent pressure fire extinguishers: 30 seconds (1.6 Gallon at 217 PSI)
 - CO₂ type fire extinguisher: 30 seconds (0.5 Gallon at 217 PSI)

SIMPLE, INEXPENSIVE REFILLING

- ▶ Fire extinguisher pays for itself in less than seven refills: uses water at 217 PSI to simulate the extinguishing agent
- ▶ Refill by trainer in less than 5 minutes
- ▶ Removable head with wide opening on screw thread for quick and easy refilling

SIMPLE TO PRESSURIZE USING

- ▶ A foot pump (not included)
- ▶ A 217 PSI compressor (not included)*
 - Either using the "Schrader" type valve from the fire extinguisher
 - Or using a connector that fits on the spray hose

*217 PSI compressor: consult us



TECHNICAL CHARACTERISTICS

Height: 22.8 inch

Diameter: 5.9 inch

Weight: 9.5 lbs

Maximum capacity of tanks:

- ▶ Auxiliary pressure fire extinguisher: 1.6 Gallon
- ▶ Permanent pressure fire extinguisher: 1.6 Gallon
- ▶ CO₂ type fire extinguisher: 0.5 Gallon



CAUTION

These fire extinguishers are designed for training use only. They must not be used or installed as standard fire extinguishers.

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SMOKE GENERATORS

LEADER Smoke

FOR DENSE, REALISTIC SMOKE FOR EVACUATION DRILLS AND COMPLETELY SAFE TRAINING SESSIONS!

ADJUSTABLE FLOW RATE

- ▶ Produces light or dense smoke.

PROGRAMMABLE EMISSION

- ▶ Controlled volume of smoke required for each scenario (to fill small and large volumes),
- ▶ Select length of time for which smoke is to be produced,
- ▶ Select time interval between smoke emissions.

PERMANENT HEATING SYSTEM

- ▶ Continuous dense smoke production in order to avoid interruptions of operation during the programmed period.

ROBUST COMPACT DESIGN

- ▶ Impact-resistant, splash-resistant outer casing
- ▶ Easy to transport
- ▶ Takes up little space

DETACHABLE STURDY REMOTE CONTROL

- ▶ For initiating remote production of smoke

CONTINUOUS OPERATION AT REDUCED FLOWRATE BY DEFAULT

- ▶ For maximum economy of fluid.





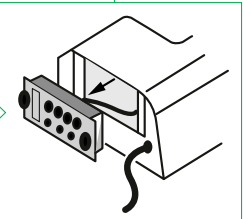
Removable remote control

KEY POINTS

- ▶ Even more realistic training
- ▶ Programmable smoke production
- ▶ Remote initiation possible
- ▶ Simple low-level maintenance.

TECHNICAL CHARACTERISTICS

		
	LEADER Smoke 2	LEADER Smoke 4
Reference 110 V with US plug	R20.00.105	R20.00.106
Heater	1000 W	1500 W Hi-Mass technology
Start-up time	7 minutes	8 minutes
Direct thermal protection	Yes (DTPD system: Direct Thermal Protection Device)	
Approximate flowrate	17,660 ft ³ /min in continuous low-flowrate operation	35,315 ft ³ /min in continuous low-flowrate operation
Power consumption	4.5 A @ 115 V / 60 Hz	7 A @ 115 V / 60 Hz
Dimensions	196.8 x 88.6 x 65 inch	269.7 x 135.8 x 88.6 inch
Weight	24.2 lbs	41.9 lbs
Removable remote control	Yes (16.4 ft of cable)	
Recommended fluid	LEADER Smoke fluid Any defect resulting from the use of fluids other than our own is not covered by the warranty.	
Capacity of built-in tank	1 x 0.66 Gallon	1 x 2.5 Gallon
Fluid consumption	0.02 Gal/min	0.04 Gal/min



OPTIONAL ACCESSORIES

Smoke removal piping:
Ref : R20.00.108
16.4 ft of 4.1 inch piping with adaptor.

LEADER SMOKE FLUID

FOR DENSE, REALISTIC, SAFE SMOKE


LEADER SMOKE FLUID
Ref : R20.00.107
Refill delivered in boxes of 4 x 1.32 Gallon cans.

Water- and glycol-based, the smoke produced is completely non-toxic.

- ▶ **Slight deposit** on the walls of the space where the smoke is produced, on the people and on equipment (ventilate the space after use).
- ▶ **Ecological, environmentally safe** fluid.
- ▶ **Ideal for a highly realistic exercise:** smoke density adjustable from very light to very dense
- ▶ **Economical:** long suspension time, 30% longer than other fluids available on the market!
- ▶ **Multi-purpose:** Ideal for small volumes (approx. 3,530 ft³) & large volumes (approx. 70,630 ft³)

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WARRANTY

LEADER guarantees its products from the date of acceptance by the customer.

The respective warranty periods are as follows:

- ▶ Fire pan and fuel supply console (PYROS 3, AEROS 2, GF42): 1 year
- ▶ Flame generator accessories (training modules): 1 year
- ▶ LEADER SMOKE smoke generators: 2 years
- ▶ Training fire extinguishers: 1 year
- ▶ Batteries and igniters: 6 months

This warranty does not apply where it has been found by our services that the equipment was damaged by:

- ▶ Normal wear due to operation
- ▶ An improper use of the equipment
- ▶ Accidents arising from carelessness
- ▶ A defective maintenance
- ▶ Failure to follow the standards and instructions of the manufacturer
- ▶ Improper storage

Consumables, such as pipes, legs, remote control cables, wheels, paint and labels etc. are excluded from the warranty if the faults are discovered after the first use of the product.



ALWAYS IN TOUCH WITH OUR CLIENTS
TO DESIGN THE PRODUCTS YOU WILL
NEED **IN THE FUTURE**



Fire extinction



Mobile ventilation



Thermal imaging



Fire training equipment



Search and Rescue equipment



Foam concentrates & foam proportioning

LEADER NORTH AMERICA Inc.
109-A Summerville Drive, Mooresville, NC 28115 - U.S.A
Tel: 704-662-3377 – Fax: 704-662-3397
info@LeaderNorthAmerica.com

LEADER GmbH
Zur Fabrik 10 - 66271 Kleinblittersdorf - Germany
Tel. : +49 (0) 6805/60067-0 - Fax : +49 (0) 6805/60067-10
info@leader-gmbh.de

GROUPE LEADER S.A.S.
ZI des Hautes-Vallées - Chemin n° 34 - CS20014 - 76930 Octeville sur Mer - France
Tel +33 (0)2.35.53.05.75 - Fax +33 (0)2.35.53.16.32
info@leader-group.eu

SPAIN / PORTUGAL / LATIN AMERICA
spain.portugal.latinamerica@leader-group.eu

CHINA / HONG KONG / MACAU
china@leader-group.eu

www.LeaderNorthAmerica.com