

# **Process Combustion™**

[www.process-combustion.co.uk](http://www.process-combustion.co.uk)

## **Custom Firefighter Training Systems**

*Authentic Fire Replication  
Variety of Applications  
Flexible Design Options  
Advanced Safety Controls  
Many References*

**+44 (0)1423 879944**



# Process Combustion™

## Custom Designed Firefighting Training Systems

Process Combustion Ltd is a market leader in supplying world class firefighting training systems to the firefighting industry. We provide our customers with a comprehensive range of flexible, custom designed systems based around our low emission, clean burn, FS burner. These systems offer many advantages and when combined with our advanced control systems provide a realistic, reliable training experience with important safety features and low environmental impact. Many references including new systems, replacements and upgrades can be provided. We also provide aftersales support service to help ensure our customer's systems remain safe, efficient and reliable.



### PROCESS COMBUSTION EXPERTISE

- Combustion Company with over 20 years experience
- Strong technical ability
- Understanding of burner design, safety, control & emissions
- Low emission LPG systems with high safety standards
- Reliable systems, straightforward to operate and maintain
- Flexible, custom designed systems
- Aftersales support
- Thermal Oxidiser system option for pollution control
- Clean burn systems
- Quick response to customer needs
- Instant shutdown control for added safety

### FLEXIBLE, CUSTOMISED DESIGN

- Mobile units, modular systems & large installations
- Multiple fires, different scenarios
- Special effects - flashover and rollover
- Integrated control systems
- Stress heating
- Ventilation
- Smoke systems & exhaust cleanup
- Lighting & thermal camera systems
- Audio systems
- Gas detection
- Temperature monitoring
- Oxidiser option for lower emissions into the environment



### FS BURNER

- Realistic flame behaviour
- Low emission levels
- High efficiency
- Reliable & easy to re-start
- Controllable flame size
- Quick shut-off





# Variety of Design Options and Applications

# Process Combustion™



## ADVANCED CONTROL SYSTEMS

- Custom control systems
- Fully integrated packages or functional systems
- PLC and SCADA systems
- In-house design, build, test and commission expertise
- Features to enhance safety and reliability.
- Designed to internationally recognised standards
- Integration with firefighting system
- Full testing capability
- Easy site installation and use with pendant control
- Support including remote monitoring



## EXAMPLE FIRE SCENARIOS BY PROCESS COMBUSTION

- **Ships** - interior, engines, sumps, electric motors, generators, bunks
- **Aircraft** - interior, engines, wheels and brakes
- **Houses** - beds, armchairs, sofas, cookers, televisions
- **Industrial Buildings and Units** - pallet storage, work bench, storage shelves, equipment
- **Offices** - computers, waste bins, shelves
- **Oil and Gas, Petrochemical** - pipes/flanges, fuel spills, tanks, storage, HAZMAT
- **Vehicles** - trucks, off-road equipment, cars, motorcycles



## SOME REFERENCE INSTALLATIONS TO CONSIDER

- **Royal Navy, UK** - HMS Excellent and HMS Raleigh - Flagship Firefighting Training
- **Hellenic Navy, Greece** - Firefighting Training Unit
- **Singapore Civil Defense Force** - Maritime Firefighting Training Unit
- **Royal Air Force, UK** -
  - Lakenheath - F15 Aircraft Simulator
  - Mildenhall - KC135/DC10 Aircraft Simulator
  - Menwith Hill - Modular Fire Training Building
- **Vigilaris Ltd, UK** - Mobile Fire Training Unit
- **South Wales Fire and Rescue Service, Wales** - Training Centre
- **Cheshire Fire Service, UK** - Modular Realistic Fire Training Unit
- **Essex Fire and Rescue Service, UK** - Stress heating upgrade to three smoke buildings

# Custom Firefighter Training Systems



**For a Design & Estimate, Contact**  
**+44 (0)1423 879944**  
**mail@process-combustion.co.uk**

**Installation Code and Annual Inspections:** All installations and service of PROCESS COMBUSTION™ equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Process Combustion Ltd and conform to all requirements set forth in the Process Combustion Ltd manuals and all applicable governmental authorities pertaining to the installation, service and operation of the equipment. To help facilitate optimum performance and safety, Process Combustion Ltd recommends that a qualified contractor annually inspect your PROCESS COMBUSTION™ equipment and perform service where necessary, using only replacement parts sold and supplied by Process Combustion Ltd.

Fire training systems and simulators must only be used under the supervision of a trained professional and in strict accordance with all applicable government regulations and safety criteria.

**This document is intended to assist licensed professionals in the exercise of their professional judgement.**

## **PROCESS COMBUSTION LTD**

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