

FIRE INSTRUCTOR TRAINING EQUIPMENT

Product Code: FTT2 (121-1016)

FIRE TRAINING TRAY

Instructions for use overleaf



GAS OPERATED STAINLESS STEEL FIRE TEST TRAY

STORAGE AND TRANSPORT

Storage: Store the stainless steel fire tray in a dry, dust free location.

Transportation and positioning: This apparatus is provided with four independently adjustable feet to allow height adjustment on uneven ground and for secure transport by vehicle.

GENERAL DESCRIPTION

This fire training tray is intended for simulating test fires for fire fighting training purposes. A special kit of valves is supplied with the tray to make the tray safe and trouble free in use. The fuel is LPG (bottle not provided).

SAFETY

It is necessary to read carefully the information provided regarding use of this equipment. Only trained and authorised personnel must use this apparatus. The operator must use protective clothing including facemask as required by local regulations, both during training and preparation for use. Avoid damage to the valves and be sure that the flow of gas corresponds with the flow stated on the valve itself. Pay particular attention to the feed tube being completely clean and clear of any obstruction. Should it be found necessary to replace any component, use only original replacement parts. Before any maintenance or cleaning operation disconnect the tray from the gas bottle. While using the apparatus a second trained person must control the flow of gas from the valve at all times.

MAINTENANCE

A regular check that the gas tube, valves, o-rings and pressure control device o-ring is in good order. If replacement parts are necessary, use only original spare parts. This apparatus must be used only in full-ventilated locations.

EMERGENCY SHUT DOWN

To stop the flow of gas at any time, shut off the control valve at the gas bottle. This apparatus also has a non-return valve for added safety.

TECHNICAL FEATURES

The pressure control device has a valve to control the flow of gas with the following values:

Nominal Pressure (way in)	20 bar
Operating Pressure (way out)	3,5 bar
Flow	20Nm ³ /h
Weight	490g
Gas to be used	Propane C3 H8 Butane C4 H10

(recommended)

PYROSTATIC VALVE

Made in brass, complete with thermocouple M8x1, thread under push button m14x1, piloted exit, in and out coaxial. The valve is made according to current European norms. The installation of the valve on the apparatus must be verified in accordance with the specific norms relating to the apparatus itself. Qualified personnel only must carry out all the operations of this installation and control.

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TECHNICAL FEATURES

Group	2
Temperature Range	0-80°C
Maximum Entry Pressure	50mbar
Assembling Position	Any
Gas Coupling	Rp 1/4" ISO 7-1:1982
Class	B
Families of gas that can be used	1, 2, 3

FLOWS

FIRST

Family (D=0,45)

Q=2,45 m³/h

Ap=2,5 mbar

SECOND

Family (D=0,6)

Q=2,15 m³/h

Ap=2,5 mbar

THIRD

Family (D=0,45)

Q=2,7 kg/h

Ap=2,5 mbar

TRAY

Made in stainless steel Aisi 304 complete with feet for secure placement on any ground. A ball valve is provided to discharge the cooling water once training is completed.

COMPOSITION OF FIRE TRAY

The fire-training tray is supplied complete with all necessary accessories to function except the gas bottle, which should be sourced locally.

STANDARD ITEMS & COMPONENTS

- Tray in stainless steel complete with discharge water ball valve and pyrostat ic valve
- Primer - alcohol tray" in stainless steel for initial lighting
- Rubber tube (length 8 metres) complete with non-return valve
- Pressure control device

Continued overleaf

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INSTALLATION & OPERATION

This apparatus is supplied assembled ready to operate. Initially check for any damage in transit and that all items are complete.

- The tray must be placed in a well-ventilated location.
 - Adjust the height of the feet to make the tray steady on the ground.
 - Connect the flexible gas tube to the bottle and to the thermoelectrical valve placed under the tray
1. Place the propane cylinder at 8 metres from the tray
 2. Ensure the water discharge ball valve is closed
 3. Assemble the rubber tube to the pyrostatic valve using the special band noting the direction of the non-return valve is correct
 4. Fix the rubber tube to the pressure control device using the special band
 5. Fix the pressure control device to the gas bottle
 6. Half fill the tray with COLD water
 7. Be sure that the valve of the gas bottle is closed
 8. Check for correct discharge of gas from the tube pushing the push button on the pyrostatic valve on the side of the tray
 9. Part fill primer tray with alcohol
 10. Light the alcohol using the ignition 'wand' provided
 11. Push the pyrostatic valve button for about 5 seconds
 12. Open the valve of the gas cylinder
 13. Control the exit pressure of gas using the pressure control device (3.5 bar suggested). Ignition takes place.
 14. Proceed with the fire training
 15. Light the alcohol using the ignition 'wand' provided. When test fire is extinguished, after about 10 seconds, the pyrostatic valve activates stopping gas flow automatically
 16. After all tests are completed; remove pressure from the tube using the pressure control device
 17. Turn off the gas valve
 18. Empty alcohol tray and dispose of any residual alcohol safely
 19. Flush out tray with clean water and dry

Continued overleaf

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CHECK LIST FOR PROBLEMS

Gas does not light up:

1. Check that the alcohol is burning
2. Check that the valve of the gas cylinder is open
3. Check that the gas cylinder is full

SAFETY NOTE

After extinguishing the test fire, the gas continues to flow: check the thermoelectric valve has not activated. Then, shut off the valve on the gas cylinder, wait some minutes and replace the pyrostatic valve.

MAINTENANCE

ALWAYS BEFORE any maintenance or cleaning, **disconnect the tray from the gas bottle**. check that the o-rings of the valves are in good condition and replace if necessary.

The gas hose should be replaced every 4 years.

SPARES

The following spare parts are recommended:

- Pyrostatic valve
- O-rings
- Gas tube

RECYCLING OF COMPONENTS

This equipment should give years of trouble free service, however: when disposing of this equipment, be sure to recycle the various materials viz:

- Stainless steel
- Brass
- Aluminium
- Rubber
- Plastic

All in accordance with local laws and regulations.