

# Gas Burner Trainers

Educational Training Equipment for the 21st Century

Bulletin 229-2A

## H-GHT-3

### Mobile Gas Burner Demonstrator

#### Purpose

The Hampden **Model H-GHT-3** Mobile Gas Burner Demonstrator provides hands-on experience for students to conduct tests and adjustments on modern forced air gas furnaces.

#### Description

The unit consists of:

- Mobile bench
- Gas burner
- Gas manifold
- Forced air heat exchanger
- Draft diverter
- Direct spark ignition
- Thermostat
- Gas solenoid valve
- Instruction Manual and Text Book

The heat exchanger is protected with an expanded metal protector.

- \* Natural gas supply and connection to the gas solenoid are not included, customer is responsible for meeting all local and state code requirements prior to hook-up.
- \*\* Liquid Propane available on request.

**Model H-GHT-3** Mobile Gas Burner Demonstrator ➤  
Dimensions: 60½"H x 48"W x 25"D  
Shipping Weight: 600 lbs.



## H-GHT-1B Gas Heat Trainer

#### Purpose

The Hampden **MODEL H-GHT-1B** Gas Heat Trainer provides practical experience in the operation, testing, and troubleshooting of gas-fired furnaces, and furnace control system.

#### Description

The Hampden Gas Heat Trainer is a standard commercial furnace that operates on natural gas. If desired, however, it may be supplied for propane gas operation.

The unit plugs into a standard 1 $\phi$  AC receptacle. For a thorough understanding of its operation, thirty points in the electrical circuit are brought out to pin jacks on the front of the Trainer. This provides the student with easy access to measurement and test points.

#### Operation

With the Hampden Gas Heat Trainer, the student can gain an understanding of four aspects of gas furnace operation.



**Model H-GHT-1B**  
Dimensions: 15-3/8"H x 30-1/8"W x 48-1/8"D  
Shipping Weight: 282 lbs

1. Learn to identify, by appearance and function, the mechanical and electrical components of a gas-fired furnace.
2. Develop an appreciation for the safety precautions necessary when connecting, operating, and servicing furnaces.
3. Observe the correct operating sequence, analyze the reasons for each step, and learn how the control and protective devices operate.
4. Acquire practical troubleshooting experience. On the side panel, there are fifteen toggle switches which can be used to insert faults in the electrical circuit. After the instructor has programmed in the desired faults, it is up to the student to discover the source of the problem.

## H-GHT-1T Gas Heat Trainer Test Kit

The **Model H-GHT-1T** Hampden Gas Heat Trainer Test Kit contains the equipment necessary to make tests and perform experiments with Hampden's line of **H-GHT Series** Gas Heat Trainers.

The equipment in the **Model H-GHT-1T** Gas Heat Trainer Kit consist of:

- Gas Testing Kit
- Hampden H-444-1 Digital Multimeter

All Hampden units are available for operation at any voltage or frequency

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