



# GAS HEAT TRAINING SYSTEMS



*Hampden*<sup>®</sup>  
ENGINEERING CORPORATION



# GAS HEAT TRAINING SYSTEMS

*Having The Power To Make Informed Decisions Through Knowledge*

This 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. Operating on natural gas, however, it may be supplied for propane gas operation. The student can gain an understanding of four aspects of gas furnace operation with this trainer:



- ▶ Learn to identify, by appearance and function, the mechanical and electrical components of a gas-fired furnace.
- ▶ Develop an appreciation for the safety precautions necessary when connecting, operating, and servicing furnaces.
- ▶ Observe the correct operating sequence, analyze the reasons for each step, and learn how the control and protective devices operate.
- ▶ 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.

## MODEL H-GHT-3

Mobile Gas Burner Demonstrator introduces the student technician to a variety of common installation and operation features normally associated with residential and light commercial gas fired, hot air furnaces. ▶▶▶▶



This Hampden **Model H-GHT-2C** Gas Heat Trainer contains the actual control components of a commercial gas heat installation.

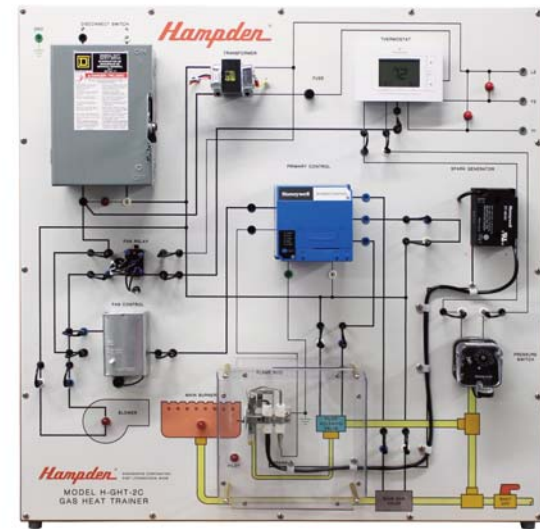
**No gas is required.**

Although operation of the blower motor, along with the pilot and main burner are simulated, the spark ignitor is real and fully functional.

**Up to 15 faults**

may be inserted from side panel. ▶▶▶▶

This unit is also available to mount on a mobile A-frame. Specify Hampden **Model H-GHT-2C-MCI-1000**



Model H-GHT-2C Gas Heat Trainer



rear view ▲



front view ▲

Hampden **MODEL H-GHT-4A**  
Gas Fired Warm Air Heating Trainer

This Hampden **MODEL H-GHT-4A** Gas Fired Warm Air Heating Trainer provides hands-on training by allowing students to conduct tests and adjustments on a modern forced air gas modulating furnace that is fired by either natural gas or liquified petroleum. It is a two-stage heating and modulating fan controlled trainer featuring:

- Sealed Combustion
- Pressure Switch
- Stainless Steel Secondary Heat Exchanger
- Induced Draft Motor Blower
- New Ignitor Technology
- Multi-Speed Blower
- Variable Speed Blower



Model H-GT-1 Gas Control Demonstrator Trainer

The Hampden **Model H-GT-1** Gas Control Demonstrator Trainer provides students with experience in:

- ▶ operating and testing the gas controls
- ▶ electrical circuits
- ▶ gas burner operation of a pilot flame-type gas ignition system

It contains all the components of a pilot flame type gas burner system, completely assembled, prewired and tested.

The low voltage thermostat is typical of those found in actual installations.

The Model **H-GT-2** Gas Trainer with Vent Damper and Retrofit Ignition provides students with experience in operating and testing a retrofit spark-ignited pilot gas system with automatic operation of a vent damper to retain heat when burner is off. It contains all the actual control components of an energy efficient spark-ignited, pilot fired furnace control system having automatic vent damper control. ▶▶▶▶



**Standard Products...Designed to Meet Your Growing Needs!**



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This Hampden **Model H-GC-2A** Gas Controls Trainer provides students with experience in connecting and operating three standard residential gas-fired furnace control systems for both winter heating and summer cooling. It contains all the standard control components for the following three types of systems:

- (1) single-function gas valve and pilotstat switch
- (2) combination gas control valve system
- (3) powerpile system

Pilot lamps indicate the operation of a simulated furnace blower and air conditioning compressor. A propane torch (not supplied) may be used as a heat source for automatic thermostat operation.

To order this unit for mounting on a Mobile A-Frame stand specify **Model H-GC-2A-MCI-1000**.



**MODEL H-EIG-1C**

The Hampden **Model H-EIG-1C** Electric Ignition Gas Trainer provides students with the opportunity to operate, test, and troubleshoot the gas controls, electrical circuits, and electronics components of an electronically-controlled direct spark ignition system. It contains all the components of a direct spark ignition gas burner system, completely assembled, prewired, and tested. With the addition of a propane fuel tank (not supplied), the trainer is ready to plug into any standard single-phase AC supply and operate. All components function exactly as they do on the job with the exception of the simulated combustion air fan. The instructor has the ability to provide students with realistic troubleshooting experience by inserting up to nine faults via toggle switches in the rear.

To order this unit for mounting on a Mobile A-frame stand specify **Model H-EIG-1C-MCI-1000**.



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