

RESIDENTIAL/ COMMERCIAL HEATING EQUIPMENT



**GAS • OIL • ELECTRIC
• RENEWABLE ENERGY**



Hampden
ENGINEERING CORPORATION



HEATING TRAINERS

Skilled heating equipment specialists are in demand for the installation, maintenance, and repair of oil, gas, electric, solid-fuel and multiple-fuel heating systems. Technicians in this field must possess knowledge of many mechanical, electrical, and electronic components such as: motors, compressors, thermostats, switches, fans, burner nozzles, controls, and other parts associated with heating equipment. They must also understand the use of testing devices such as: voltmeters, thermometers, pressure gauges, and manometers to check air flow, electrical circuits, burners, and other components.

Hampden Engineering offers a wide variety of heating system trainers appropriate for use in high schools, vocational schools, junior colleges, and industry. Our trainers provide students with hands-on experience with gas, oil, and electric furnaces, oil and electric boilers, forced air heating, and cir-

culating hot water heating. Through the use of our trainers, a student will learn to maintain, diagnose, and correct problems that may arise throughout the entire system. Training programs offering this type of hands-on experience have a distinct advantage over text-based classroom programs.

Hampden provides training equipment for all sources of heating

Hampden Engineering systems are fully equipped and carefully arranged to provide maximum accessibility to the student. All equipment and hardware is of commercial quality and is typical of that encountered in the field by the service technician.

Concern about energy management and conservation has prompted the development of new energy-saving heating systems in homes and buildings. Hampden Engineering strives to keep up with changes in technology and offers training for today's contemporary heating systems.

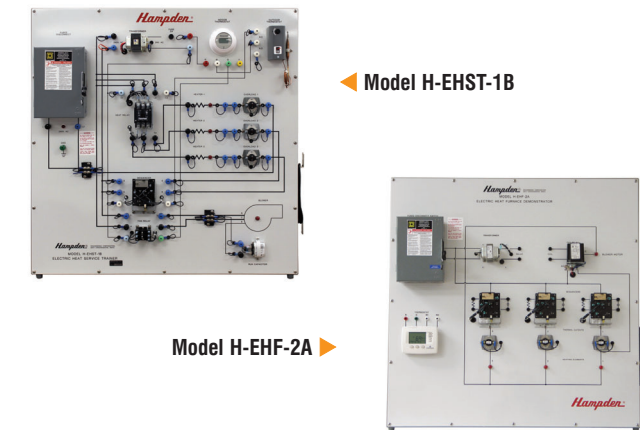
Oil Heat Trainers



Hampden has a number of trainers and demonstrators covering every aspect of oil operated systems. Train your students how to adjust, check-out, operate, and troubleshoot a typical oil burner or oil furnace.

- ◆ **H-OBD-1T** Oil Burner Test Kit
- ◆ **H-OBD-2** Mobile Oil Burner Demonstrator
- ◆ **H-OBD-3** Mobile Dual-Fueled Burner Demonstrator
- ◆ **H-OBD-5B** Domestic Oil Furnace Demonstrator
- ◆ **H-OBD-1** Oil Burner Demonstrator with Mobile Bench
- ◆ **H-OPT-1** Oil Pump Trainer
- ◆ **H-OBIT-1** Oil Burner Ignition Trainer

Electric Heat Trainers



Hampden has a number of trainers and demonstrators covering every aspect of electric heating systems. Your students will learn to connect and operate an electric heat furnace. Training is available for designing, wiring, checking out, and troubleshooting electric furnace control systems of the type found in residential dwellings and commercial establishments.

- ◆ **H-EHF-1A** Mobile Electric Heat Furnace Control System
- ◆ **H-EHF-2A** Electric Heat Furnace Demonstrator
- ◆ **H-EHST-1B** Electric Heat Service Trainer

HEATING TRAINERS

Train your students on standard equipment found in both residential dwellings and commercial establishments

Gas Heat Trainers



Hampden offers a complete line of trainers and demonstrators covering every component of gas operated systems.

- ◆ **H-GHT-1B** Gas Heat Trainer with Faults
- ◆ **H-GHT-1T** Gas Burner Test Package
- ◆ **H-GT-1** Gas Control Demonstration Trainer
- ◆ **H-GT-2** Electronic Ignition Gas Trainer with Flue Damper
- ◆ **H-EIG-1C** Electronic Ignition Gas Trainer
- ◆ **H-GC-2A** Gas Controls Trainer
- ◆ **H-GHT-2B** Gas Heat Trainer
- ◆ **H-GHT-3** Gas Burner Demonstrator
- ◆ **H-GHT-4** Gas Fired Warm Air Heating Trainer

Heating/Cooling Trainers

Hampden Engineering offers a wide variety of forced air and hydronic heating and cooling system trainers. These trainers provide students with experience in gas, oil, and electric furnaces, oil and electric boilers, forced air heating and cooling, and circulating hot water heating and chilled water cooling. All units that have forced air heating may also be equipped with air conditioning and all units that have hydronic heating may also be equipped with chilled water cooling.

- ◆ **H-AHST-D** Air & Hydronics Gas/Oil Heating Trainer
- ◆ **H-AHST-D2** Air & Hydronics Gas/Oil Heating Trainer with A/C
- ◆ **H-AHST-D3** Air & Hydronics Gas/Electric Heating Trainer with A/C
- ◆ **H-FAHT-1-G** Gas Fired Forced Air Furnace
- ◆ **H-FAHT-1-G-1** Forced Air Heating Trainer with Summer Air
- ◆ **H-FAHT-2** Forced Air Heating Trainer



Model H-AHST-D3 Air/Hydronic: Gas/Electric with Summer Air



H-FAHT-1-G-A Forced Air Heating Trainer with Summer Air

COMPUTER AIDED DESKTOP TRAINERS

Digital Instruction Modules

Hampden's line of Computer Assisted Panel Instruction Modules have been designed to provide realistic system operation and troubleshooting functions to virtually Any Classroom! They are designed to demonstrate the principles of operation and troubleshooting of various types of systems. These modules provide a complete aid for the teacher who desires to teach appliance analysis and troubleshooting.

Each module's front panel is silkscreened with a complete schematic and pictorial layout of all system operations and combined with actual test-point pushbuttons, LED's and meters. All units are controlled via a PC computer using supplied Hampden software and interface cards.

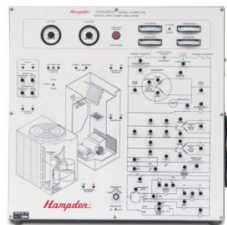
Hampden offers the following heating system trainers for digital instruction:

- ◆ **H-DOHS-CSI** Oil Heating System Simulator
- ◆ **H-DHPS-CSI** Heat Pump Simulator
- ◆ **H-DOHE-CSI** Oil Heating Electric Simulator
- ◆ **H-DGHS-CSI** Gas Heating System Simulator

**Realistic problem solving
in the classroom**

Each unit includes the following standard features:

- ◆ Schematic and Pictorial Test Points
- ◆ Specification Chart
- ◆ Improper Equipment Use Warning
- ◆ Component Isolate Switch
- ◆ Malfunction Indication
- ◆ Windows Digital Control System
- ◆ Computer Interface Cards



◀ **Model H-DHPS-CSI**

Model H-DOHS-CSI ▶



Hampden is committed to providing industry-leading technology.

For the latest from Hampden, visit our home page at <http://www.hampden.com> or e-mail us at sales@hampden.com

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