

# Oil Burner Demonstrators and Trainers

Educational Training Equipment for the 21st Century

Bulletin 229-106E

## H-OBDD-2 Mobile Oil Burner Demonstrator

### Purpose

The Hampden **Model H-OBDD-2** Mobile Oil Burner Demonstrator duplicates typical field installations from oil tank to combustion chamber, flame and draft adjustment to indicate variable firing efficiency and observation of flame and nozzle patterns.

### Description

The unit consists of:

- Mobile bench
- Oil burner
- Blast tube pressure gauge
- Instant glow combustion chamber w/shield

- Oil fuel filter
- Oil tank w/fuel gauge
- Thermostat
- Protectorelay oil burner control
- Interchangeable nozzles (2)
- Instruction Manual & Text Book

The unit is completely piped including necessary safety valves which would be found in standard residential systems.

**MODEL H-OBDD-2** Oil Burner Demonstrator ➤  
Dimensions: 76"H x 64"W x 23"D  
Shipping Weight: 600 lbs.



## H-OBDD-3 Mobile Dual-Fueled Burner Demonstrator



**MODEL H-OBDD-3** Mobile Dual-Fueled Burner Demonstrator  
Dimensions: 95¼"H x 60"W x 30"D  
(Shown without oil tank)

### Purpose

The Hampden **Model H-OBDD-3** Mobile Dual-Fueled Burner Demonstrator duplicates typical field installation from oil tank to combustion chamber, flame and draft adjustment to indicate variable firing efficiency and observation of flame and nozzle patterns. This unit operates on oil and natural gas utilizing a commercial burner management system.

### Description

The unit consists of:

- Mobile bench
- Oil burner
- Blast tube
- Instant glow combustion chamber w/shield
- Oil fuel filter

- Oil tank w/fuel gauge
- Thermostat
- Burner management system
- Interchangeable nozzles
- Fuel change-over switch
- Direct spark ignition
- Oil pump pressure and compound gauges
- Gas solenoid valve
- Instruction Manual & Text Book

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.

The unit is completely piped including necessary safety valves which would be found in standard commercial systems.

## H-OBDD-1 Oil Burner Demonstrator

### Purpose

The Hampden **Model H-OBDD-1** contains all of the mechanical and electrical components necessary to operate an actual oil burner of the type used in oil-fired furnaces and hot water heaters.

With the Hampden Oil Burner Demonstrator, the student learns how to adjust, check-out, operate, and troubleshoot oil burners and their control systems. They learn to identify components by appearance and function. They acquire the

skills required to make mechanical and electrical connections. Further, the student learns how to identify the symptoms produced by malfunctioning components; to diagnose, isolate, and repair the system, both mechanically and electrically.



**MODEL H-OBDD-1** mounted on Transite-II-top steel bench  
Overall Dimensions: 50"H x 60"W x 30"D - Shipping weight: 500 lbs

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



**Hampden**  
ENGINEERING CORPORATION