







CONSTRUCTION

Let us make your plumbing and piping a breeze

The Hampden Model H-RIG-1C Rigging Systems Trainer

is designed to teach the techniques of safely moving

loads of various shapes, sizes and types. The Trainer contains a variety of lifting and moving vices to allow the student to learn the proper methods of moving loads safely.



The Hampden Model H-PPST-1 Piping / Pipefitters System Trainer

provides the student with a "hands-on" trainer for

piping. The student will learn the necessary methods of connecting and running metal/iron piping, plastic piping, copper tubing, and hydraulic hose.



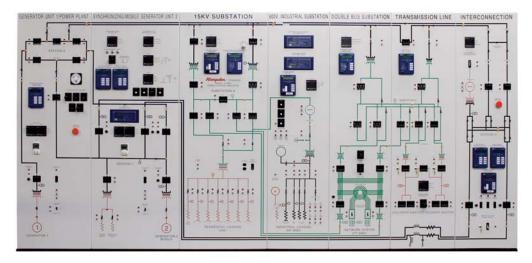
ENERGY

The Hampden Model H-180A Power System Simulator

Teaches the student to go from Generation and Interconnection through

Transmission to Distribution

With 7 Sections depicting a complete Power System Simulator it can be configured either along a straight wall or in a corner setting





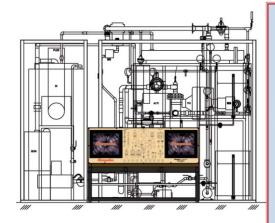


Train your students on standard equipment found in both residential dwellings and commercial establishments

ENERGY

Our Energy Program teaches students how power stations produces electricity with the

H-181A Steam Power Plant Trainer



HAMPDEN MODEL H-181-A/G or H-181-A/O Steam Power Plant Trainer - Gas/Oil or Mix

consists of four modular sections. The primary function of the Hampden Steam Power Plant Trainer is to demonstrate to the student how a power station uses steam to turn a turbine which is coupled to an alternator which produces electricity. The boiler converts the water to steam which is piped through the superheater and steam separator to the turbine. The returning steam from the turbine is piped to the condenser. The steam is converted to water and piped to the condensate storage tank. Water is pumped from this storage tank to the economizer and back into the boiler.

TRY DIGITAL INSTRUCTION MODULES >>>

The Hampden **Model H-185-2A Advanced Boiler Trainer** serves to demonstrate principles of operation and troubleshooting techniques of a current model boiler system. All functions operate as on the actual equipment and present the student with realistic problem solving opportunities.





Hampden Transformer Learning Systems are Designed to Fit into Any Level of Study!

Model H-DTT-26 Transformer Lab Kit allows students to correctly make connections to power transformers located on utility poles.





MANUFACTURING TRAINING

Our Manufacturing Training Program offers the equipment, components and learning materials necessary to obtain a solid understanding of Basic Electrical Circuits & Principles, HVAC Design and Control, and Security / Fire / Ground-Fault Circuit Design & Troubleshooting. An Industrial Maintenance Certificate is available with this program for the "IMI".



Model **HMD-100-CM Deluxe Mobile** Console

Instructions.

comes with practical "hands-on" **AC-DC Power** Supplies, designing, wiring, AC and DC Instrumentation, and troubleshooting Single and Three "real-world" motor phase Wattmeters. control systems. Lockable Storage, Cords and



Complete your

experience in

checking out,

Hydraulic and Pneumatic Power

curriculum. Each program has been carefully engineered to provide you with a complete applications demonstration laboratory on wheels.

Components are first grade commercial quality, labeled and permanently secured in place in order to provide your students with the best "hands-on" learning environment available.



Mobile Refrigeration System Trainer

The Hampden Model H-RCSD-3B Residen-

tial/Commercial Remote Control

Switching Demonstrator

provides a complete

state-of-the-art building

of lighting and appliances

wiring system control

via programmed or

manual remote.

trainer showing a

is designed to provide students with an actual working model of a refrigeration system, complete in every detail.

H-RST-2

PLC / Energy Management

Our Programmable Logic Control systems are designed to provide a comprehensive education in the basic functions and advantages of Modern Logic Control Devices

The Hampden's Model H-MFA-3C Fire Alarm Demonstrator

is a fully functioning fire alarm system which can be utilized to present the student with a variety of common installation and operational features. The trainer is a composite of basic equipment usually associated with residential and commercial layouts.



The Hampden Model H-IRT-1 Industrial Refrigeration Trainer consists of industrial

refrigeration components completely factory assembled and wired. It is designed to provide training with larger commercial and industrial refrigeration systems.



Model H-IMTS-1

Industrial Maintenance Training System

is an excellent selection of eductional training equipment designed to fully introduce students to the subjects of Mechanical Transfer Systems,

Valve Operations, and Diesel Power Systems, with techniques for maintaining and designing complex drive and linkage systems, valve and actuator assemblies and more.



- Petrochemical Plants
- Aluminum Mills
- Chemical Plants
- Bus & Rail Manufacturers
- **Agricultural Centers**
- **Engine Manufacturers**
- Steel Plants
- Utilities/Gas/Oil/Nuclear
- **Gas Distribution Companies**
- **Labor Unions**
- Fisheries
- Mines

- Aircraft Manufacturers
- Semiconductor Industry
- Military Training Centers
- Component Manufacturers
- Pharmaceuticals
- Automotive/Truck Plants
- Pulp & Paper Industry







WATER / WASTEWATER

Aerobic Digester

Model H-6518 provides a comprehensive study of the continuous activated sludge process used in public health engineering facilities.

Anaerobic Digester

Model H-6515 is a bench-top trainer designed to demonstrate the fundamentals of the anaerobic treatment processes.

Aeration Demonstrator

Model H-6517 provides a means of understanding the biological treatment of waste waters.

Flocculation Test Unit

Model H-6529 is used to determine optimal chemical dosages for flocculation by helping the student determine the exact amount of alum or polymer necessary to trigger flocculation.

Permeability Fluidization Studies

Model H-6519 is designed to investigate the measurement and characteristics of flow through a bed of particles.



H-6515 ANAEROBIC DIGESTER



H-6520 INFILTRATION DEMONSTRATOR



H-6518 AEROBIC DIGESTER

Ion Exchange Demonstrator

Model H-6516 is a bench-mounted unit designed to emulate the industrial operation of ion-exchange resins for either continuous water softening or demineralization.

Filterability Index Unit

Model H-6528 has been developed to investigate filters and how they relate to water treatment or demineralization.

Infiltration Demonstrator

Model H-6520 is a table top unit designed to investigate the infiltration rates of different soil types and soil surface treatments.

Solid Handling Investigation Bench

Model H-6809 has been designed to allow students to familiarize themselves with various methods of handling solids through blending, separating, sizing, and much more.

Sediment Transport Channel Demonstrator

Model H-6523A is a selfcontained teaching apparatus used to demonstrate the development of various bedforms that arise from the flow of water in a channel.

Mobile Bed and Flow Visualization

Model H-6524 is a selfcontained unit used to investigate flow visualization and mobile bed situations in relation to Civil Engineering structures.



H-6527 SEDIMENTATION STUDY TRAINER

Reverse Osmosis Demonstrator

Model H-6505 is a self-contained unit used to investigate ultra filtration techniques as they are applied to water purification and desalination, waste material treatment and more.

Sedimentation Studies Trainer

Model H-6527 has been developed to investigate the physical processes of sedimentation. The student will be able to evaluate and measure the particles as to height, size and settling rates for making up the sedimentation curve.

Model Sedimentation Tank

Model H-6521 can be used to investigate the hydraulic characteristics and settling efficiencies of a model settling basin. The student will be able to evaluate how non-uniform flows occur and their interaction with sediment settling characteristics.





BIO-PROCESS and ETHANOL

Bio-process and Ethanol, the development of products by using a biological process, represents an important and rapidly expanding area of science. Many problems associated with water, air, and soil contaminants can be fixed with biotechnology. Modern biotechnology is currently being used in soils for growing better crops, in sewage treatment plants for eliminating odors and meeting regulatory requirements, and in toxic waste clean-up, as well as many other areas. Biotechnology represents a tremendous opportunity for many businesses to change the way they do business, whether they are in manufacturing, pharmaceuticals, or agriculture. Many products modified by the newer techniques of biotechnology are currently in the supermarket, drug and retail stores. Additional products, such as the clean-burning ethanol, are being developed which offer advantages to farmers, the environment and human health.

H-ICS-8189-4 Instrumentation and

Controls Trainer provides experience in setting up, tuning, operating, and troubleshooting actual instrument and control systems of the type used in the power and process industries. By simulating a different process loop, this unit provides struction in the measuring and transducing of such physical variables as pressure, temperature, flow and level.

H-6252 Modular Chemical Reactor System

investigates the chemical reactor, the most commonly used and important piece of equipment in a chemical plant.

eliminating the use of tools.



H-6852 Modular Heat Exchanger System

is used to investigate the fundamental principles of heat transfer devices. The unit can be configured to operate four different types of heat exchanger modules using quick connect couplers

H-ETS-1A Ethanol Production

Process Trainer is designed to facilitate the instruction of students on the process required to produce ethanol for experimental purposes. Ethanol is a very promising fuel alternative to oil since sources are widely available and ethanol is clean-burning and environmentally friendly.



H-ICS-8189-4pH Instrumentation, Controls and pH Controls Trainer

provides experience in setting up, tuning, operating, and troubleshooting actual instrument and control systems

of the type used in the power and process industries.



H-6150 Liquid-to-Liquid Extraction Demonstrator

studies the fundamentals of a liquid-to-liquid extraction system. This unit can also be used to determine the mass transfer rates, heat transfer coefficients, extraction efficiency, and operating conditions at different liquid flow rates.



Hampden's H-6535 Hydrostatics Bench

consists of an assortment of apparatus needed for numerous experiments into the properties of fluids and hydrostatics, including all of the plumbing, pumps and valve control to direct the fluids in the system.



The H-BIO-100 Bio Diesel Demonstrator is built to

withstand rigorous experiments. This unit is designed upon the same principals and protocols as large-scaled units. Key features include ease of use, no wash process and price/capacity ratio. Experiments entail a variety of variables such as pressure, temperature, time to temperature proportions, feedstock types, etc.





LOOK TO HAMPDEN WHEN YOU WANT THE LATEST TECHNOLOGY!

Take your classroom with you.

Think of the possibilities! Workforce at your finger-tips and your students.







STRAP DOWN
FOR
YOUR TRAVELS







CUSTOMIZE THE EQUIPMENT TO FIT YOUR NEEDS!



