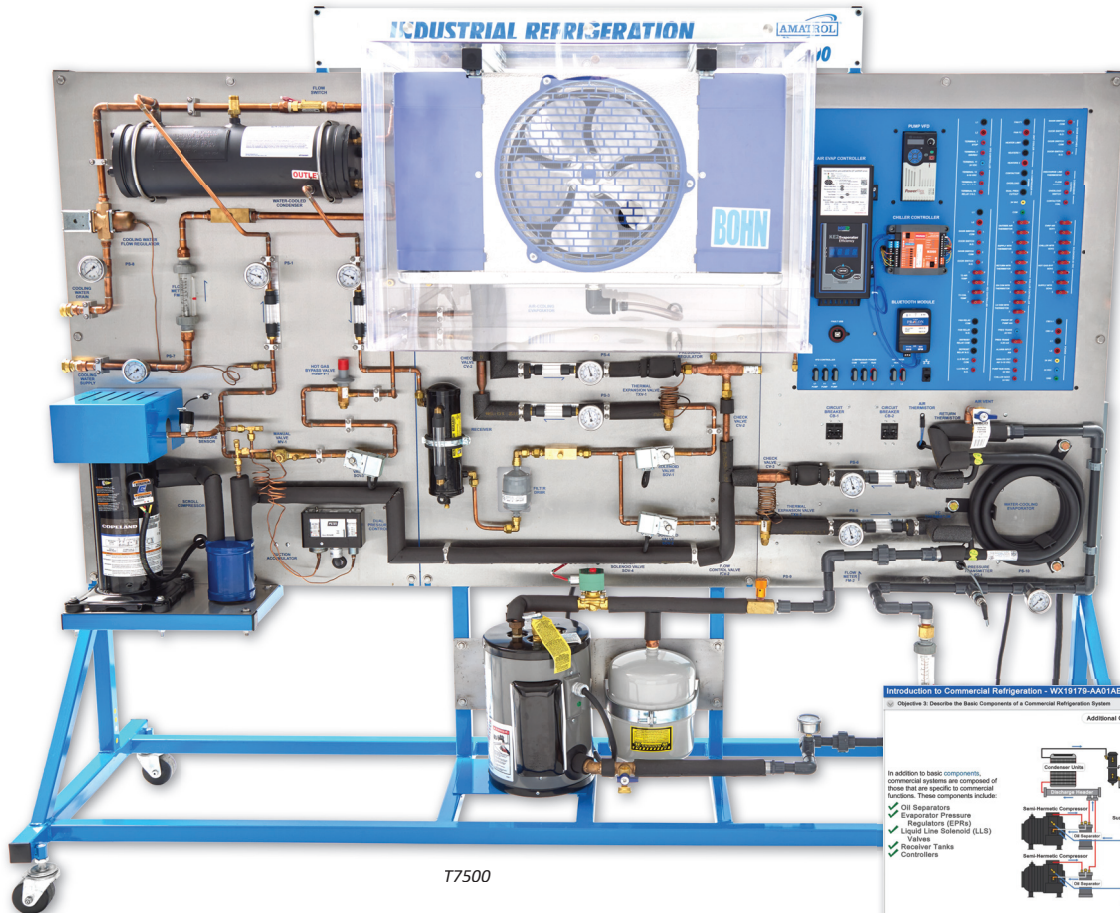
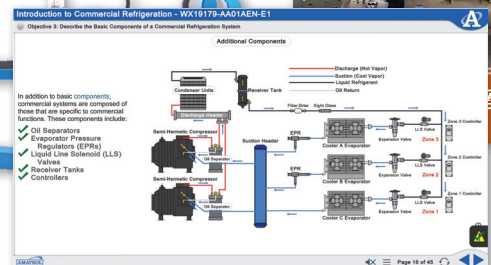
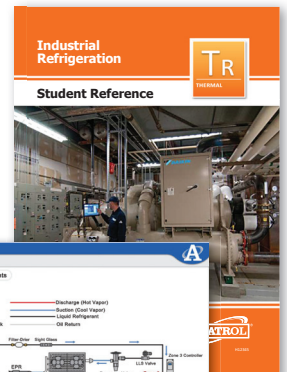


Industrial Refrigeration Learning System

T7500



T7500



Interactive Multimedia Curriculum and Student Reference Guide

Learning Topics:

- Introduction to Industrial Refrigeration
- Scroll Compressors
- Water-to-Air Refrigeration Systems
- Smart Refrigeration Controllers
- Defrost and Hot Gas Bypass
- Ethernet and WIFI Communications
- VFD Operation
- Chiller System Operation
- Chiller-VFD Control
- Chiller System Configuration
- Multi-Zone Industrial Refrigeration
- Mechanical Component Troubleshooting
- Electrical Component Troubleshooting
- Controller Troubleshooting
- Systems Troubleshooting

Amatrol's Industrial Refrigeration Learning System (T7500) teaches basic to advanced knowledge and skills related to the operation, maintenance, repair, and troubleshooting of large commercial and industrial refrigeration systems. The T7500's hands-on training workstation features a variety of real industrial HVACR components users will encounter in the workplace, including a scroll compressor, crankcase pressure regulator, hot gas bypass system, water-cooled condenser, air-cooling evaporator, water-cooling evaporator (chiller), smart air condition controller, programmable chiller controller, Bluetooth adapter, electric defrost, variable frequency drive (VFD), variable speed pump, electric water heater, expansion tank, and Amatrol's exclusive FaultPro computer-based fault insertion software.

The Industrial Refrigeration Learning System includes Amatrol eLearning multimedia curriculum that begins with an introduction to industrial refrigeration before moving on to 34 hands-on skills related to scroll compressors, water-to-air refrigeration systems, smart refrigeration controllers, chiller systems, multi-zone industrial refrigeration, and troubleshooting of mechanical and electrical components, controllers, and systems. Users will learn important skills, such as configuring and operating a smart refrigeration controller for single-zone operation; configuring and using a mobile app with a smart refrigeration controller; operating a chiller-controlled VFD; monitoring a smart chiller controller using Bluetooth communications; operating a multi-zone industrial refrigeration system; and troubleshooting a water-to-air smart industrial refrigeration system with insufficient cooling.



Technical Data

Complete technical specifications available upon request.

Mobile Workstation (84-in. W x 26-in. D x 74.5-in. H)

1HP Scroll Compressor
Crankcase Pressure Regulator
Hot Gas Bypass System
Water-Cooled Condenser
Air Cooling Evaporator
Water-Cooling Evaporator
Smart Air Condition Controller
Programmable Chiller Controller
Bluetooth Adapter
Electric Defrost
VFD

Variable Speed Pump
Water Regulating Valve
Water Flow Switch
Water Pressure Transmitter
Electric Water Heater
Expansion Tank
Thermal Expansion Valves (2)
Solenoid Valves (3)
Evaporator Pressure Regulating Valve
Dual Pressure Control Switch
Computer-Based Fault Insertion
Lockout/Tagout
Multimedia Curriculum (M19480)
Instructor's Guide (C19480)
Installation Guide (D19480)
Student Reference Guide (H19480)

Additional Requirements:

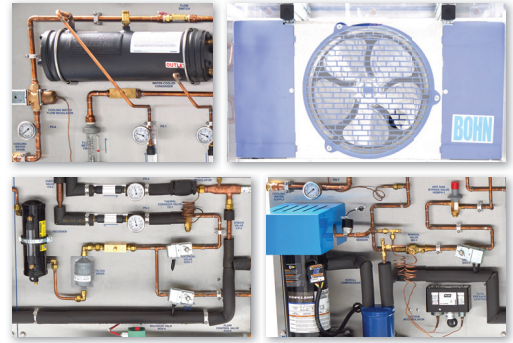
Water source and drain
Tool kit
Computer (visit www.amatrol.com/support)

Utilities:

Electric service (220V/60Hz/1ph)

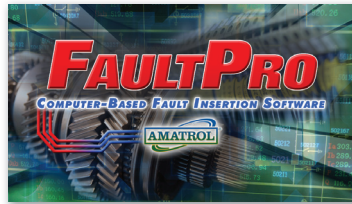
Gain Hands-On Skills with Real Industrial HVACR Components

Amatrol's Industrial Refrigeration Learning System (T7500) teaches relevant commercial and industrial refrigeration hands-on skills by providing direct experience with a variety of real industrial HVACR system components, such as a scroll compressor, crankcase pressure regulator, hot gas bypass system, water-cooled condenser, air-cooling evaporator, water-cooling evaporator (chiller), electric defrost, variable frequency drive (VFD), variable speed pump, electric water heater, expansion tank, water regulating valve, water flow switch, water pressure transmitter, thermal expansion valves, solenoid valves, evaporator pressure regulating valve, and dual pressure control switch.



T7500 HVACR Components

Teach Advanced Troubleshooting Skills



The Industrial Refrigeration Learning System features robust troubleshooting training via Amatrol's exclusive FaultPro computer-based fault insertion. The instructor can insert faults into the system to create a more realistic troubleshooting environment for students. FaultPro allows students to solve real-world problems they'll encounter on the job safely. The T7500 features 35 faults across all elements of the system, including mechanical and electrical components and controllers.

Learn How to Operate and Troubleshoot Smart HVACR Components

Industry 4.0 technologies have taken over industry and the HVACR sector is no exception. Learners using the T7500 will gain experience with the latest smart HVACR components, such as a programmable chiller controller and a smart evaporator controller. These smart components can be programmed and monitored via PC software or via Bluetooth communication with a smartphone app.



Smart Controllers & Bluetooth Communications

eLearning Multimedia Student Curriculum with 34 Hands-On Skills

Amatrol's curriculum features a highly interactive, multimedia format that includes stunning 3D graphics and videos, voiceovers of all text, and interactive quizzes and exercises designed to appeal to learners with different learning styles. The T7500 curriculum starts with an introduction to industrial refrigeration before moving on to 34 hands-on skills related to scroll compressors, water-to-air refrigeration systems, smart refrigeration controllers, chiller systems, multi-zone industrial refrigeration, and troubleshooting of mechanical and electrical components, controllers, and systems. The combination of theoretical knowledge and hands-on skills solidifies understanding and creates a strong basis for pursuing more advanced skills.



Interactive Multimedia Curriculum

