Environmental Applications Learning System - T7083

The model T7083 Environmental Applications Learning System adds to the T7082 Thermal Learning System to teach heating and cooling applications. Students will learn industry-relevant skills including how to size, select, and analyze thermal systems to optimize performance.

The T7083 is a working system that connects to the T7082 System to provide a functional thermal application of air conditioning and heat pumps. The T7083 models the characteristics of a living structure with outside environmental effects, such as sun or humidity, and internal design characteristics such as insulation, lighting, and ceiling fans.

The T7083 consists of a living structure with reversible ducting system, comfort controls, instrumentation, environmental input devices, insulation system, student learning materials for both theory and lab, and teacher's guide.

Variable Environmental Conditions – The T7083 replicates a variety of real world environmental conditions with devices that simulate effects caused by the sun, humidity, and lighting.
Variable Thermal Design Characteristics – The T7083 demonstrates the effects of a structure's design with removable insulation panels to vary insulation performance, ceiling fan, window that can be opened, attic fan, attic exhaust, and reversible upper and lower ducts.
Instrumentation Features – The T7083 includes many instrumentation features to observe and monitor system operation. Digital thermometers are placed at key locations in the structure to show how temperature can vary inside a living space. A digital humidity sensor is also included to determine the level of comfort.

Multimedia Curriculum Available

Amatrol's unmatched multimedia utilizes text, audio, and stunning 3D animations that engage learners in both theoretical knowledge and hands-on skills. This thorough, exceptionally detailed curriculum is built to begin with the basics and steadily advance to more complex concepts and skills. Through partnerships with key industry leaders and leading edge educators, Amatrol

developed the right balance of knowledge and applied skills needed to train learners to work in their chosen field.

Student Reference Guide

A sample copy of this course's Student Reference Guide is included with the learning system. Sourced from the multimedia curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfect-bound book. If you would like to inquire about purchasing additional Student Reference Guides for your program, contact your local Amatrol Representative for more information.

Key Features

- Variable Environmental Conditions
- Variable Thermal Design Characteristics
- Instrumentation Features
- Multimedia Curriculum Available
- Student Reference Guide