Air Cycle Machine Trainer
Model ACM-100A

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The Air Cycle Machine trainer demonstrates how an aircraft air cycle machine system function.
The compact construction of the set allows trainees to conceive the system as understanding the connection between the various parts of the system.
Simulated turbine-engine bleed air,representing a typical system in a modern turbine engine powered aircraft.

Specifications

Features

- Understanding fundamentals of aircraft air cycle machine and its components.
- The set is functional and configured like a typical aircraft air cycle machine system.
- The selections made in the panels are visible on the screen.
- Wirings on the trainer are connected via terminals.
- Wires should have clear identification labels for each wire.
- All wires should be coded and labeled for troubleshooting.
- Instructor's panel for Fault Insertion
- The system mounted on a metal/aluminum mobile stand.
- Metal/aluminum frame with 4 wheels. 2 of 4 wheels are lockable.
- Training video for teachers
- Delivered fully assembled tested and ready to operate
- Colored Ultraviolet printing method on aliminium compozit panel

Components

- Air cycle machine (ACM)
- Primary and Secondary Heat Exchangers
- Over Temperature Sensor
- Water Seperator
- Over Temperature Sensor
- Temperature control valves
- Digital display of the temperatures of the cabin chamber, bleed air, and ambient air controller etc.
- Bypass valve

- Ventilation blower
- Compensation chamber
- Simulated bleed air source
- Terminals
- Master power panel
- Master power light
- Master caution panel
- Aural warning horn
- Test panel
- Circuit Breakers,
- LAN output
- Fault Panel for instructor.
- 24 VDC power supply

Documentation

- User's Manual
- Study Guide
- Instructor's Guide

Power Specs

- Electrical box
- Residual current device
- Emergency Button
- Energy Signal Lamp
- 110 VAC 60 Hz or 220-240 VAC 50 Hz

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