COOLING SYSTEMS

S-860 ADVANCED REFRIGERATION FAULT SIMULATOR TRAINING SET



GENERAL EXPLANATION

This training set is designed to provide a number of faults that may occur in a mechanical cooling set and to facilitate fault diagnosis.

EXPERIMENTS

- 1. Excessive refrigerant charge
- 2. Missing refrigerant charge
- 3. Oil separator clogged
- 4. The oil separator float remains in the open position
- 5. Condensation of the fluid in the oil separator
- 6. Condenser fan defective
- 7. Air-cooled condenser battery is dirty
- 8. Condenser pressure regulator defective
- 9. Aqueous condenser dirty (lime)
- 10. Overpressure drop failure in wet condenser
- 11. Compressor capacity regulator defective
- 12. Fluid line solenoid valve defective
- 13. Leakage failure when fluid line solenoid valve stops system
- 14. Filter drier clogged failure
- 15. Failure to locate air in the cooling system
- 16. Expansion valve partially blocked failure
- 17. Failure of run-out of tail charge of expansion valve
- 18. Capillary tube partially clogged failure
- 19. Automatic expansion valve partially blocked
- 20. Check valve malfunction
- 21. Evaporator fan defective
- 22. Insufficient air flow in the evaporator
- 23. Evaporator pressure regulator defective
- 24. Heat exchanger pressure regulator defective
- 25. Insufficient compression in compressor
- 26. Compressor fluid walk-through failure
- 27. Compressor overheating fault
- 28. Defective hot gas defrost system
- 29. Water cooling tower fan failure
- 30. Cooling tower pump defective
- 31. Cooling tower three-way valve defective
- 32. Water regulation valve defective

TECHNICAL SPECIFICATION

The training set is used to detect defects in the cooling system. 32 different faults can be generated in the device.

TECHNICAL DETAILS

- Semi hermetic reciprocating compressor
- Air-cooled condenser
- Air-cooled evaporator
- Capillary tube
- Evaporator, condenser, capacity and heat exchanger pressure regulators
- Electronic expansion valve
- Water cooling tower
- Digital multimeter

DIMENSIONS

A x B x H : 2000 x 600 x 1600 mm

OPTIONAL FEATURES

- Touch LCD Display
- USB Computer Connection
- Computer Control

PACKAGE INCLUDED

Device, device cover, 1 printed experiment report, circuit diagram and product catalog