



Tesca Absorption Refrigeration Training 32405 is based on basic absorption system designed with scale down module for training purpose. This module is designed to enable student to understand the theory and practice of absorption system.

The trainer consists of: mimic diagram, air cooler, NGV burner, solar panel, electric heater DC current type with step down transformer, pressure gauge on high side and low side, digital thermometer on high and low side, complete mimic diagram, switches and metal epoxy coated frame works. Floor standing type frame with brake type castor wheels.

Specifications

- Model of an absorption refrigeration system
- Electrically operated Boiler
- Adjustable heating at the evaporator serves as a cooling load
- Demonstrates the basic principle of an absorption refrigeration system
- Demonstrates absorption refrigeration system and its main components
- Operational behavior under load conditions
- Operation of an absorption refrigeration system
- Main system components: evaporator, absorber, boiler with bubble pump, condenser
- Ammonia-water solution as working medium, hydrogen as auxiliary gas
- Boiler to separate ammonia
- Bubble pump for transportation in the circuit
- Adjustable electrical heater at the evaporator serves as cooling load
- Boiler is heated by electrical heater
- Digital displays for temperature and power
- Working medium: ammonia-water solution
- Auxiliary gas: hydrogen
- Electric heater: 125 W

Note: Specifications are subject to change.

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Technical Specifications:

Gross Volume	: 41 Liters
Refrigerant	: Water, Ammonia, Hydrogen
Generator	: Electrically Heated
Condenser	: Natural Convection Type
Evaporator	: Natural Convection Type
	Material Of
Construction Supply	: M.S.
Energy Consumption	: 230 Volts, 50 Hz, 1 Ph, 1.07 Kwh Per 24 Hrs
Energymeter	: Provided
Temperature Indicator:	Digital Indicator At The Salient Points

Provide easy understanding of:

- How absorption refrigeration works.
- Safety requirement of operating the system.
- Instrument measuring purpose of understanding the system operation

Experiments List

- Complete system Energy balance.
- Operating procedure and parameter changing of absorption chiller system.

Dimension : 1300H X 1000L X 500W in mm.

Weight : @ 60kgs.

Scope of Delivery:

Operation manual & experimental manual included.