

VOCATIONAL LAB (TOOLS AND EQUIPMENTS)

1. REFRIGERATION CYCLE SIMULATOR

Make: EEI, Model: EEI-VTC-010, Origin: INDIA



- Understanding the concept of refrigeration and fault finding.
- Stand type wheel mounted model having simulation of refrigerator.
- Understanding components like Compressor, Condensing coil, Evaporator, High pressure gauge meter, Low pressure gauge meter.
- Understanding the concept of refrigeration and fault finding.
- Reverse Carnot Cycle Application
- Comprehensive platform for exploring the refrigeration cycle.
- Clearly labelled and color-coded parts.
- Detailed wiring diagrams for enhanced learning.
- Fault Simulation Switches: Compressor Fault, Fan Fault, Thermostat Fault, Heater Fault.
- Dimensions: 1200mm x 300mm x 900mm (App).
- Weight: 70 Kgs (App).



Manufacturing unit: Plot No 8, Street No 1, Rajendra Nagar Industrial Area, Mohan Nagar, Ghaziabad- 201005 (Delhi NCR)
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2. REVERSE OSMOSIS CYCLE

Make: EEI, Model: EEI-VTC-013, Origin: INDIA



Understanding the concept of reverse osmosis and fault finding.

All RO Parts Included & Labelled.

Sediment filter, carbon filter, RO membrane, pump, UV, tank & more.

Open Piping - Watch water Pipelines through each stage for easy understanding.

Modular & Reusable Design.

Easily assemble, disassemble, and reconfigure components.

Detailed wiring/Piping diagrams for enhanced learning.

Dimensions: 1200mm x 300mm x 1900mm (App).

Weight: 30 Kgs (App).



3. SATELLITE COMMUNICATION SIMULATOR

Make: EEI, Model: EEI-VTC-012, Origin: INDIA



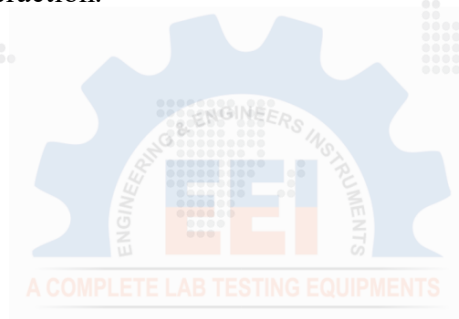
Wall mounted simulator for understanding, how signals are transmitted from ground to space-based satellite and again back to the ground station.

4x4 membrane keypad for user interaction.

LCD display (16x2).

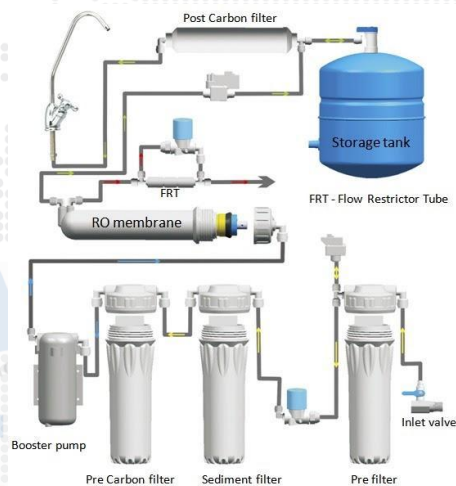
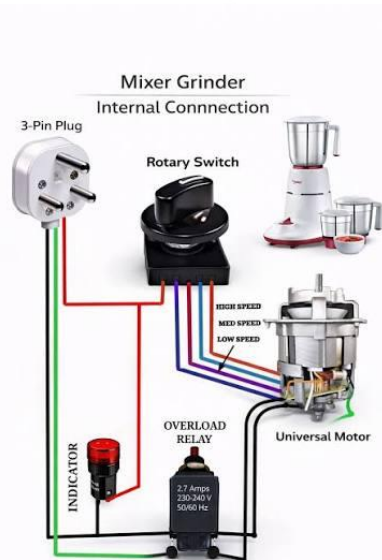
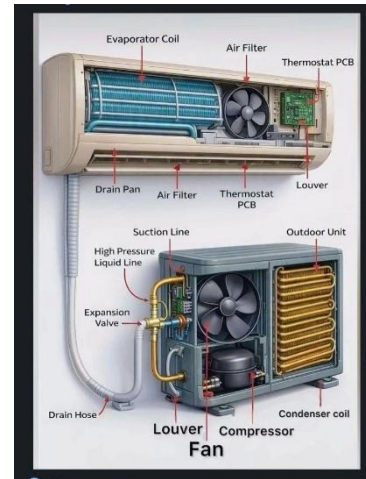
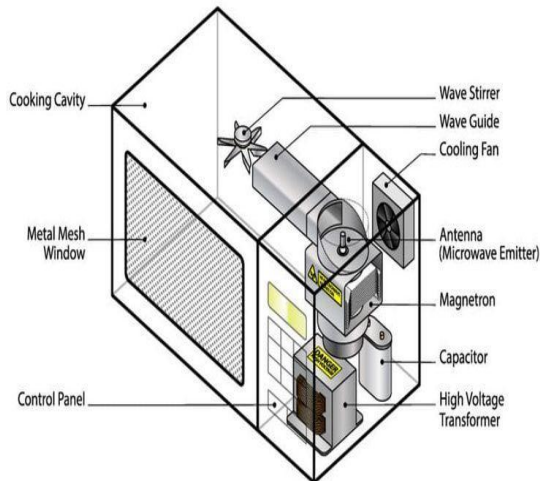
Dimension: 15 x 30 inches.

Refrigeration Cycle Simulator



4. LARGE SCHEMATICS

Make: EEI, Model: EEI-VTC-015, Origin: INDIA



Schematics and understanding of home appliances like Microwave, Air Conditioner, Mixer Grinder and water purifier etc.

Understanding the concept of home appliances viz principle, Structure, Assembly, Key Components, Types etc.

Quantity: 10 units.

Waterproof Glossy vinyl printed Graphics.

Backing material: Sun board, thickness: 5mm.

wall mounting, equipped with hanging studs/Holes for secure installation.

Dimensions: 24" x 36".



5. Motorized Pottery Wheel

Make: EEI, Model: EEI-VTC-016, Origin: INDIA



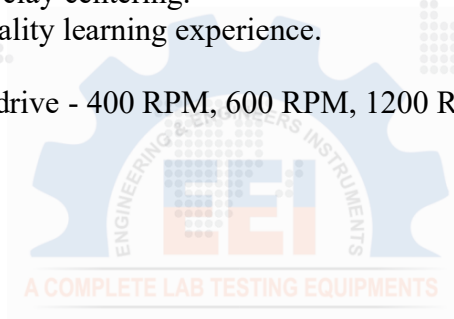
The pottery wheel and practice clay centering.

Easily operated machine for quality learning experience.

20+ Sculpting Tools.

3 Speed variation through belt drive - 400 RPM, 600 RPM, 1200 RPM

Weight: 30kgs (App).

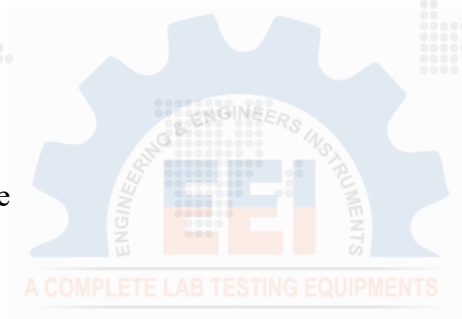


6. SOLDERING KIT

Make: EEI, Model: EEI-VTC-017, Origin: INDIA



1. Soldering Iron - Variable Temp
2. Multimeter
3. Solder Wire - 250gms
4. Screwdriver
5. Combination Plier
6. Long Nose Plier
7. Wire Stripper
8. Soldering Helping Hand
9. Tweezer Set
10. Solder Flux
11. Solder Stand
12. Soldering Pump
13. Soldering Wick
14. Metal Peg Board with frame



7. ELECTRICIAN TOOL KIT

Make: EEI, Model: EEI-VTC-018, Origin: INDIA



1. 650 W Hammer / Impact Drill
2. Auxiliary Handle
3. Depth Gauge
4. Screwdrivers
5. Screwdriver Bits
6. Screwdriver Head (bit holder)
7. Flexible Shaft
8. Socket Wrenches
9. Adjustable Knife / Cutter
10. Allen Key Set (hex keys)
11. Steel Drill Bits
12. Wood Drill Bits
13. Measuring Tape
14. Pliers
15. Adjustable Wrench
16. Claw Hammer
17. Spirit Level
18. Digital Tester (electrical test tool)
19. Insulation Tape / PVC Tape
20. Metal Peg Board with frame



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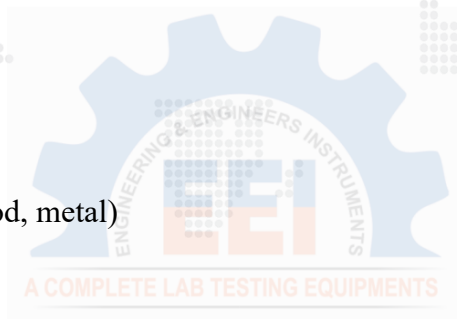


8. CARPENTER TOOL KIT

Make: EEI, Model: EEI-VTC-019, Origin: INDIA



- A. Cutting & Shaping -
 - 1. 12 different carving knives/chisels
 - 2. Hand Planer
- B. Finishing & Detailing Kit-
 - 3. Rotary tool
 - 4. Multiple drill bits
 - 5. Cutting wheels
 - 6. Sanding drums
 - 7. Grinding stones
 - 8. Polishing pads
 - 9. Collets & mandrels
- C. Drilling & Fastening Kit-
 - 10. Impact drill machine
 - 11. Drill bits set (masonry, wood, metal)
 - 12. Claw hammer
 - 13. Screwdriver set & bits
 - 14. Adjustable spanner
 - 15. Measuring tape
 - 16. Utility knife
 - 17. Combination plier
 - 18. Insulation tape
 - 19. Wall plugs & screws
 - 20. Metal Peg Board with frame



9. IOT BASED PROJECTS

Make: EEI, Model: EEI-VTC-020, Origin: INDIA



1. Activity board with wireless Home Automation

Configurable through Blynk interface for switching devices.

Supports AC-powered loads like lights, socket, and bulb holder.

Neatly arranged with labelled connections and safe wooden mounting.

Program control systems, test switching, and troubleshoot relay operations.

Explore practical wiring and safe AC load handling techniques.

Separately provided for hands-on circuit assembly and wiring practice.

Dimensions: 400mm x 250mm x 100mm (Approx.).

2. ESP based integrated weather station for real-time environmental sensing.

Equipped with multi-sensor measurement including temperature, humidity, barometric pressure, altitude, PM2.5 concentration, and rainfall detection.

Live data displayed on an LCD module for continuous monitoring and study.

Supports BMP180 for pressure and altitude, DHT11 for temperature and humidity, GP2Y1010 for particulate matter (PM2.5), and rain sensor for precipitation detection.

Well-organized sensor layout with labelled I/O points for easy understanding and safe experimentation.

Ideal for testing sensor behavior, calibrating readings, understanding atmospheric variations, and building beginner-to-advanced weather projects.

Allows hands-on wiring, coding practice, and fault-finding exercises for students and hobbyists.

3. Moisture finding Rovers

Rover having moisture and temperature sensor.

4. Pre-planned Navigated Vehicle

Activity related to sensors such as Ultrasonic sensors, learn about motors, and understand how to integrate them with Arduino using motor drivers. Introduction to Mechatronics

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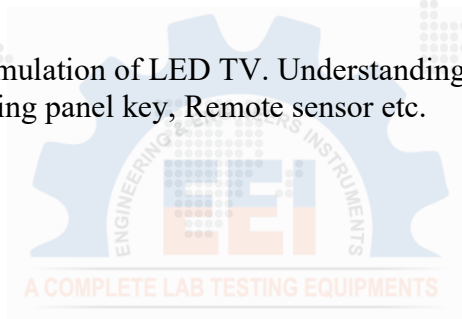


10. LED TV SIMULATOR

Make: EEI, Model: EEI-VTC-021, Origin: INDIA

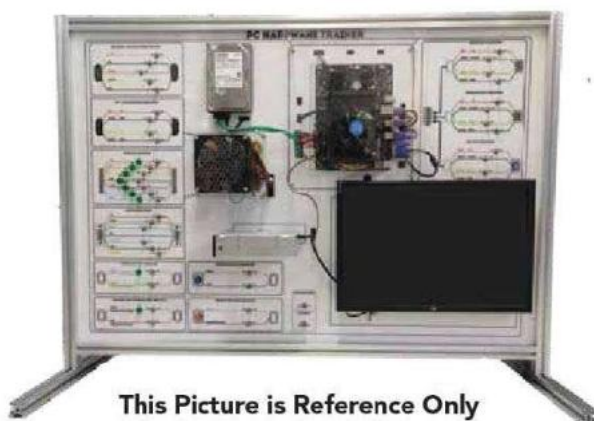


Wall mounted model having simulation of LED TV. Understanding concepts LED TV panel, Controller Board Operating panel key, Remote sensor etc.



11. COMPUTER HARDWARE SIMULATOR

Make: EEI, Model: EEI-VTC-022, Origin: INDIA



This Picture is Reference Only

Wall mounted Simulation of computer hardware and understanding the assembly concept using monitor, motherboard, SMPS, Hard disk, RAM Power cord SATA Cable

