



Key features

- Working Principle
- Organic Rankine Cycle (ORC) with low-boiling-point fluid (e.g., R245fa or similar)
- Power Output ~150 W – 300 W (electrical via generator load bank)
- Heat Input Power ~1.5 – 2 kW (Electrical heating element with safety cutoff)
- Working Fluid Safe organic refrigerant (e.g., R245fa or SES36), fully sealed circuit
- Evaporator Stainless steel tube-in-shell or plate-type heat exchanger
- Condenser Air-cooled or water-cooled (fan-assisted radiator type recommended)
- Pump Gear or diaphragm type, fluid-compatible, ~1–2 bar delivery pressure
- Turbine Type Micro radial or impulse turbine with transparent casing cover (for observation)
- Generator micro-generator with resistive load or LED indicator bank
- Pressure Range 0 – 4 bar gauge (operating)
- Temperature Range - Up to 150°C (heating side), monitored at inlet/outlet points
Sensors 4x Thermocouples (T-type or K-type), 2x Pressure Transducers
- Flow Measurement - Sight glass + variable area rotameter (manual reading, no DAQ)
- Monitoring Display - 7" or 10" touchscreen (color) showing real-time temperature, pressure, rpm, electric input power, electric output power, ...etc.
- Frame & Enclosure - Powder-coated steel or aluminum profile, mobile with locking casters
- Power Supply 220–240V AC, 50/60 Hz, single-phase
- Safety Features Over-temp cutoff, pressure relief valve, emergency stop button

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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