

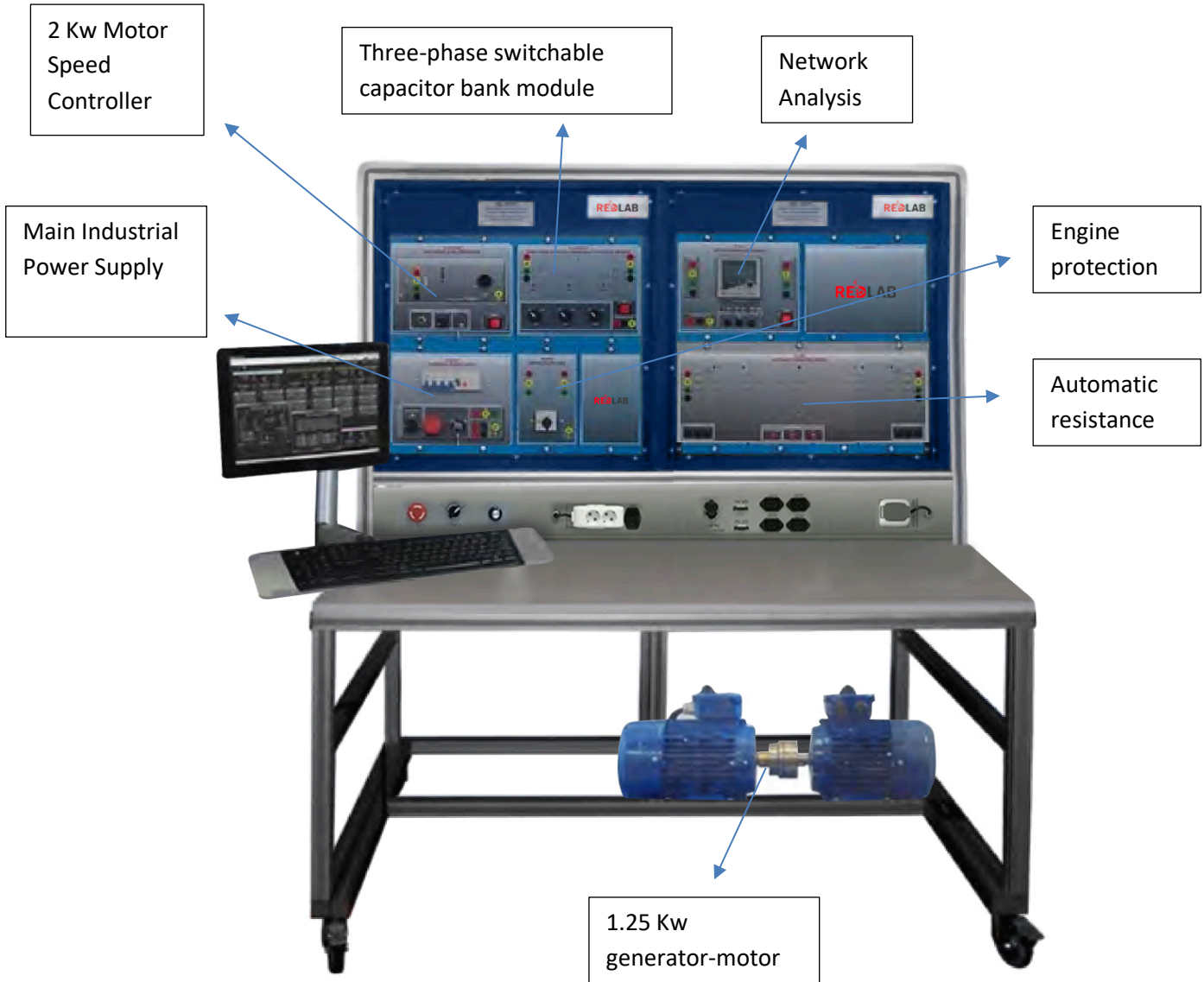
RW-140 INDCUTION GENERATOR SYSTEM EXPERIMENT SET



The system is used for experimenting wind power plants with induction generator. The system is designed for observation of synchronous state (normal, under and over synchronous), analysing electrical parameters and simulating different wind speeds. The module instruments and sensors are monitored real time over a PC with simulation capabilities.

System Components:

- Mobile metallic carriage trolley table, stands and racks for mounting and carrying the overall system and below modules:
- Power supply with a voltage of 400 VAC supporting three-phase + neutral
- Motor speed controller
- Motor-generator group
- Series of sensors (rotor speed, wind velocity)
- Resistors starter
- Softwares and PC for simultaneous display of system components
- Other auxiliary connections, wirings, modules and cabling if needed for operation of the equipment.



This set includes the following modules:

- Main industrial power.
- Three-phase interchangeable capacitor bank module. Engine speed controller 2 Kw.
- Network analyzer
- Motor protection (1.6 A - 2.5 A).
- Automatic resistance start
- Generator-motor group 1.25 kW.

Supply voltage of capacitors module is 230VAC. It include indicating LEDs input/output power terminals and ground terminal.

Motor speed controller is voltage of 400 VAC and power of 2 kW. The controller have output connector, potentiometer and ground terminal.

Resistors starter module is integrated to system with a supply voltage of 230 VAC. There are input and output terminal connections and operation state switches.

Rated power of the generator is 1 KVA and a speed of 3000 rpm.

Rated power of the motor is 4 KVA and a speed of 3000 rpm.

The software ensures simultaneous display of measured and calculated values. The recorded/stored variables can be recalled for observation and comparison. The system ensure that the user can control parameters involved in the process in real time.

All cables, modules, data acquisition system, software and related accessories required for fully operation of the system are provided. The components are integrated to each other over the carriage trolley and monitored via software.

The system comply with CE Marking and conformity declarations are provided.