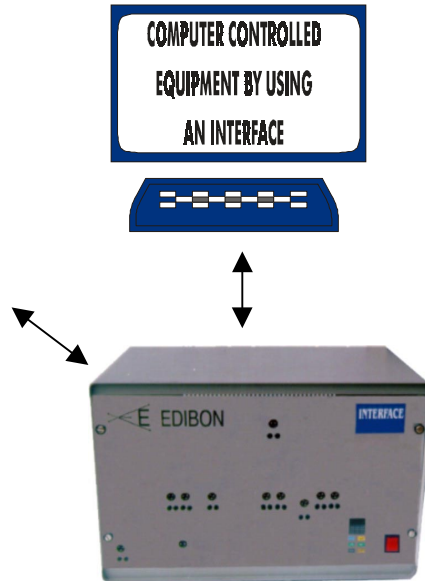




Solar/Heat Source Vapour Turbine, Computer Controlled

HTVC

PROVISIONAL
CATALOGUE



PRACTICAL POSSIBILITIES:

- Production of torque/speed and power/speed curves for a single stage impulse turbine.
- Easy and clearly observed demonstration of a classic Rankine cycle.
- Determination of thermal efficiency at a range of turbine inlet and exhaust pressures.
- Use of property charts or tables and the application of the First Law of Thermodynamics to produce energy balances.
- Estimation of total frictional losses in turbines.
- Comparison of performance with the Rankine Cycle, (including the external isentropic efficiency of turbines).

With optional solar panel:

- Measurement of the solar energy collection at a range of mean water temperatures.
- Demonstration of the production of shaft work from solar radiation.

COMPUTER CONTROLLED SYSTEM:

INTERFACE: IT HAS BEEN DESIGNED FOR DOING COMPUTER CONTROLLED PLUS DATA ACQUISITION.

- Box (Approx. 500x300x350 mm).
- Front panel in box with complete diagram of the process.
- Board with data acquisition and control.
- Individual board for each sensor for signal processing.

- Power supply included.
- Different type of connectors for each sensor for avoiding connections mistakes between unit and interface.
- Single cable for connecting interface and computer, for avoiding dangerous and mistakes.

CONTROL AND DATA ACQUISITION SOFTWARE DESCRIPTION:

The Software Supplied allows:

- To provide graphic environment where it is possible to visualize and record all variables automatically.
- To provide menu for the required control selection (PID, set point, T^a, etc,...).
- The recording and graphic representation of the data obtained on PC screen.
- To obtain data concerning temperature and state of alarms.
- Windows work environment, with graphic simulation of the process.
- Control system operates on all parameters used on the process and indicated in all practical possibilities.

SERVICES REQUIRED:

- Electric supply: 1.7 kW , 220-110 / 50-60 Hz, single phase.
- Water: 3 l./m in cooling water at 15m head (min).

DIMENSIONS AND WEIGHT:

- Equipment dimensions approx.: 1060 x 430 x 925 mm.
- Nett Weight approx. : 80 Kg.

* Specifications subject to change without previous notice due to continuous improvements of the product.



TEACHING EQUIPMENTS

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