



PRACTICAL POSSIBILITIES:

- Visual demonstration of the phenomenon of “choking”.
- Determination of jet reaction and specific thrust at a variety of inlet and back pressure.
- Determination of the effect of inlet pressure on the mass flow rate through a nozzle discharging to a constant back pressure.
- Comparison of actual mass flow rate with the theoretical value.
- Determination of the effect of back pressure on the mass flow rate through a nozzle with constant inlet pressure.
- Comparison of actual mass flow rate with theoretical value.
- Calculation of nozzle efficiencies.
- Determination of the velocity of the jet issuing from a nozzle operating at a variety of inlet and back pressure.

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:

- Water free compressed air at 700 to 900 kN m⁻² gauge with a flow rate of 8 gr./s. (400 l. Or 13 ft³ free air/min).

DIMENSIONS AND WEIGHT:

- Packing dimensions approx.: 990x 750 x 600 mm.
- Nett Weight approx. : 20Kg.
- Gross Weight approx.: 90 Kg.

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



TEACHING EQUIPMENTS

C/ San José 11-13, 28921 ALCORCON. MADRID. SPAIN
Phone: 34-91-619 86 83 FAX: 34-91-619 86 47

E-mail: edibon@edibon.com WEB site: www.edibon.com

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