

## UNIT OF TRANSFERS OF MATERIAL GAS / LIQUID

**REFERENCE : ET600**



*Non contractual photo*

**SERVICE : 220 V - 50 HZ; NETWORK WATER**

**DRY AIR, FLOW 2 M<sup>3</sup> / H**

**DIMENSIONS : 760 X 730 X 360 MM**

This device allows a simple approach to material transfer. It consists mainly of a column with wet discs. Water trickles down this column, while air is flowing countercurrently. In contact with the disks, the air becomes moist and the coefficient of material transfer between the liquid and the gas is calculated simply from the measurement of the air flow and its humidity. The water content of the air is determined by means of a hygrometer. The air and water flow rates as well as the dry and humid air temperatures and the water temperatures at various points of the apparatus are measured.

### Technical specifications :

- Determination of the gas phase mass transfer coefficient
- Influence of gas flow on the material transfer coefficient
- Influence of gas flow on exchange efficiency
- Influence of gas flow on the number of transfer units
- Determination of the heat transfer coefficient.
- Technical specifications

### The apparatus includes :

- 1 column with wet discs (exchange surface: 51.7 cm<sup>2</sup>)
- 1 filter
- 2 solenoid valves
- 2 flowmeters
- 1 manometer
- 1 hygrometer
- 5 temperature probes
- 1 digital indicator
- 1 regulator
- 1 chassis