



ZM6133 Aeraulic Networks Balance Study Module



I Introduction

Among the ventilation, thermo ventilation, air conditioning installations, the verifications of a correct aeraulic network balance is an essential condition to avoid vane efforts of a correct design: the unbalance of one or more zones might cause the missing satisfaction of thermal loads or of ventilation flows of each served environment. The module, properly designed for educational purposes, allows the study of a duct network balance with field evaluation of parameters such as the static pressure and the air speed in correspondence of different points of the circuit. The student will be able to deepen the knowledge on the problems related with the air flow and with the pressure losses. Supply software which can monitor voltage, current, frequency, power, power factor, pressure, flow, etc, they can be displayed on PC in real time, and can print report.

II Training Program

Study of the components of a ventilation system: fan exhaust grilles, ducts, calibration dampers, supply grilles, etc.

Connection of the different installation components and verification of the system functionality

Field measurements of the static, dynamic and total pressure and of the air speed in different points of the air circuit 56

Localized and distributed pressure losses

The loss coefficients

Dampers calibration to respect the prescribed values of the room air flow

Supplied with :

English general air-conditioning manual

English experimental hand book

Note :

Due to keeping innovation,
the specification and
Machine pictures or color
are subject to alteration
without notice!