

# 9.- THERMODYNAMICS & THERMOTECHNICS

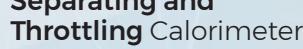
## 9.1. FUNDAMENTALS AND BASIC CONCEPTS OF THERMODYNAMICS

with  
EDIBON  
SCADA



**TBCF**  
**Bomb** Calorimeter

with  
EDIBON  
SCADA



**TCESC**  
Computer Controlled  
**Separating and**  
**Throttling** Calorimeter

with  
EDIBON  
SCADA



**TECMC**  
Computer Controlled  
**Marcet Boiler** Unit

with  
EDIBON  
SCADA



**TMTC**  
Computer Controlled  
**Temperature Measurement** Unit

with  
EDIBON  
SCADA



**TRLC**  
Computer Controlled  
**Recycle Loops** Unit

with  
EDIBON  
SCADA



**TEPGC**  
Computer  
Controlled  
**Expansion**  
Processes  
of a **Perfect**  
Gas Unit

## COMPUTER CONTROLLED TECHNOLOGY

**EDIBON SCADA** System



Control Interface



Data  
Acquisition  
Board



Supervisory  
Software

**TLBGC**  
Computer Controlled  
**Gas Laws** Unit (Boyle  
and Gay-Lussac Laws)



**TMHA**  
Air Humidity  
Measurement  
Unit

with  
EDIBON  
SCADA



**HFCC**  
Computer  
Controlled  
**Flow of Compressible**  
Fluids Unit

# 9.- THERMODYNAMICS & THERMOTECHNICS

All these units are supplied

with  
**EDIBON**  
SCADA

## 9.2. HEATING, VENTILATION, AIR CONDITIONING AND HOT WATER



**TEHSC**  
Computer Controlled Unit to **Study the Efficiency of a Heating System**

## 9.3. HEAT PUMPS



**THIBAR44C**  
Computer Controlled Heat Pump + Air Conditioning + Refrigeration with 4 Condensers and 4 Evaporators (Water/Air)

## 9.4. REFRIGERATION

**TRCVC**  
Computer Controlled Vapour-Compression Refrigeration Unit



## 9.5. THERMAL HYDRAULIC PIPING SYSTEM



**TETD**  
**Thermal Expansion**  
Training Unit

## 9.6. HEAT TRANSFER



**TSTCC**  
Computer Controlled **Heat Transfer Series**  
TXC/CL. Linear Heat Conduction Module for TSTCC.  
TXC/TE. Three Axes Heat Transfer Module for TSTCC.  
TXC/TC. Ceramic Heat Transfer Module for TSTCC.  
...and more.

## 9.7. HEAT EXCHANGERS



**TICC**  
Computer Controlled **Heat Exchangers** Training System

**TIAAC**  
Computer Controlled **Water-to-Air Heat Exchanger** Unit



## 9.8. THERMAL MACHINES



**TGFC**  
Computer Controlled Axial Flow Gas Turbine/ Jet Engine



**TMSC**  
Computer Controlled Stirling Motor

## 9.9. INTERNAL COMBUSTION ENGINES



**TBMC12**  
Computer Controlled Test Bench for Single-Cylinder and Two-Cylinders Engines, 11 kW



**TBMC-CG**  
Computer Controlled Exhaust Gas Calorimeter

## 9.10. INSTALLATIONS AND MAINTENANCE



**TRAMC**  
Computer Controlled **Refrigeration and Air Conditioning Modular Unit**

**MUCH MORE** at: [www.edibon.com/en/thermodynamics-thermotechnics](http://www.edibon.com/en/thermodynamics-thermotechnics)