



INTRODUCTION

The cutaway units are actual models of elements of study that have been cut to observe their interior. It allows the student to recognize all the components and understand the construction and operation of the parts that make up the element.

Most of the refrigeration units used today employ compressors. The compressors perform the function of increasing the pressure of the refrigerant liquid when it has been totally or partially transformed into steam due to the absorption of heat in the evaporator, to allow its condensation again and to restart the refrigeration cycle.

There are different types of compressors, they can be classified according to several characteristics, one of them is to order them as open, semi-hermetic or hermetic (closed). The hermetic compressor is generally used in freezers, refrigerators, air conditioners and low power units.

GENERAL DESCRIPTION

The Unit to Study a Hermetic Refrigerant Compressor Cutaway Model, "HCCM", allows the students to visualize the inner parts of a compressor, to evaluate the relation with each other accurately and to understand their function.

In the hermetic compressors the electric motor is installed directly on the crankshaft of the compressor and the body is a metal housing sealed with welding. The mechanized cutting to which the hermetic compressor has been subjected allows observing and understanding its operation and construction.

The cutaway model of a compressor is composed of real industrial elements designed in such a way that its inner parts can be observed by the user, maintaining its mechanical and functional capacity.

The unit is attached to a base plate with handles for easy transport.



ISO 9001: Quality Management (for Design, Manufacturing, Commercialization and After-sales service)



European Union Certificate (total safety)



Certificates ISO 14001 and ECO-Management and Audit Scheme (environmental management)



"Worlddidac Quality Charter" and Platinum Member of Worlddidac

SPECIFICATIONS

Bench-top unit with adjustable legs.

Anodized aluminum frame and panels made of painted steel.

Fixed equipment on a base plate with handles for easy transport.

Hermetic compressor:

Housing material: cast iron/steel.

Displacement: 7.95 cm³/rev.

Refrigerating performance:

From -20 to 5 °C: 171 W – 592 W.

Manuals: This unit is supplied with the following manuals: Required Services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.



RFS detail

EXERCISES AND PRACTICAL POSSIBILITIES

1.- Identification of compressors in industrial diagrams.

3.- Operation of a compressor.

2.- Identification of the main components of a compressor.

4.- Study and understanding of the maintenance of a compressor.

DIMENSIONS AND WEIGHTS

HCCM:

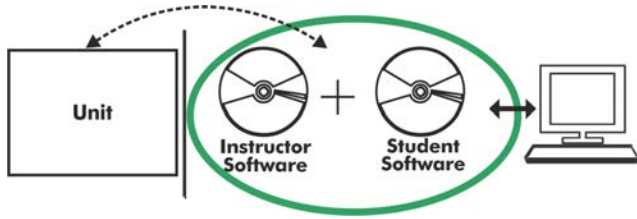
-Dimensions: 370 x 310 x 300 mm approx.

(14.56 x 12.20 x 11.81 inches approx.)

-Weight: 5 kg approx.

(11 pounds approx.)

HCCM/ICAI. Interactive Computer Aided Instruction Software:



With no physical connection between unit and computer, this complete software package consists of an Instructor Software (EDIBON Classroom Manager -ECM-SOF) totally integrated with the Student Software (EDIBON Student Labsoft -ESL-SOF). Both are interconnected so that the teacher knows at any moment what is the theoretical and practical knowledge of the students.

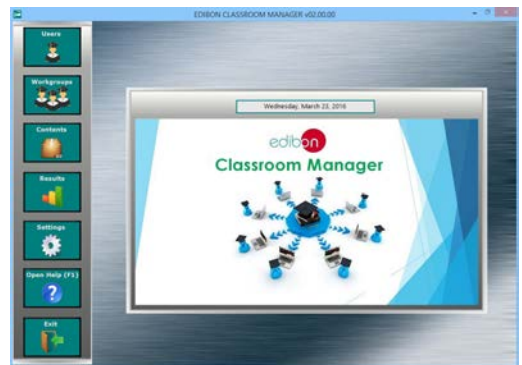
Instructor Software

- ECM-SOF. EDIBON Classroom Manager (Instructor Software).

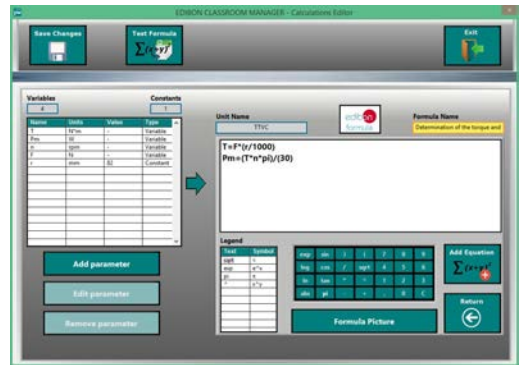
ECM-SOF is the application that allows the Instructor to register students, manage and assign tasks for workgroups, create own content to carry out Practical Exercises, choose one of the evaluation methods to check the Student knowledge and monitor the progression related to the planned tasks for individual students, workgroups, units, etc... so the teacher can know in real time the level of understanding of any student in the classroom.

Innovative features:

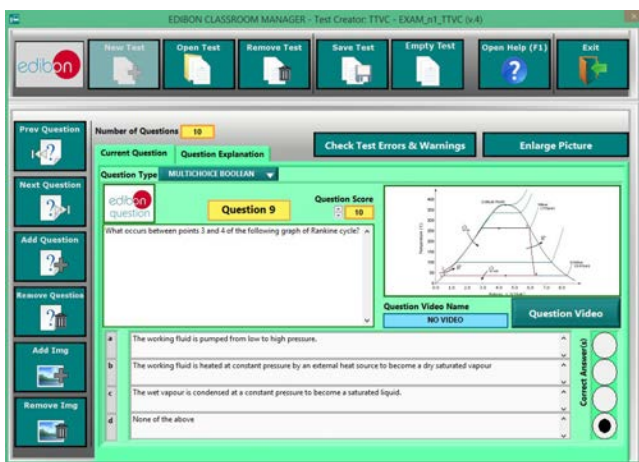
- User Data Base Management.
- Administration and assignment of Workgroup, Task and Training sessions.
- Creation and Integration of Practical Exercises and Multimedia Resources.
- Custom Design of Evaluation Methods.
- Creation and assignment of Formulas & Equations.
- Equation System Solver Engine.
- Updatable Contents.
- Report generation, User Progression Monitoring and Statistics.



ECM-SOF. EDIBON Classroom Manager (Instructor Software) Application Main Screen



ECAL. EDIBON Calculations Program Package - Formula Editor Screen



ETTE. EDIBON Training Test & Exam Program Package - Main Screen with Numeric Result Question



ERS. EDIBON Results & Statistics Program Package - Student Scores Histogram

Optional
Student Software

- ESL-SOF. EDIBON Student Labsoft (Student Software).

ESL-SOF is the application addressed to the Students that helps them to understand theoretical concepts by means of practical exercises and to prove their knowledge and progression by performing tests and calculations in addition to Multimedia Resources. Default planned tasks and an Open workgroup are provided by EDIBON to allow the students start working from the first session. Reports and statistics are available to know their progression at any time, as well as explanations for every exercise to reinforce the theoretically acquired technical knowledge.

Innovative features:

- Student Log-In & Self-Registration.
- Existing Tasks checking & Monitoring.
- Default contents & scheduled tasks available to be used from the first session.
- Practical Exercises accomplishment by following the Manual provided by EDIBON.
- Evaluation Methods to prove your knowledge and progression.
- Test self-correction.
- Calculations computing and plotting.
- Equation System Solver Engine.
- User Monitoring Learning & Printable Reports.
- Multimedia-Supported auxiliary resources.

For more information see ICAI catalogue. Click on the following link:

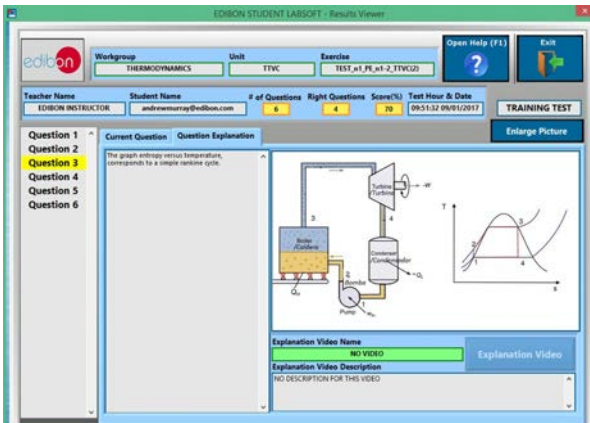
www.edibon.com/en/files/expansion/ICAI/catalog



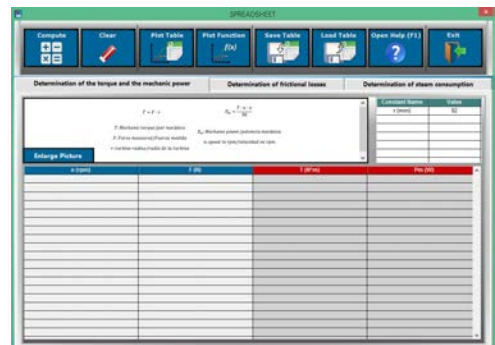
ESL-SOF. EDIBON Student LabSoft (Student Software) Application Main Screen



EPE. EDIBON Practical Exercise Program Package Main Screen



ERS. EDIBON Results & Statistics Program Package - Question Explanation



ECAL. EDIBON Calculations Program Package Main Screen

* Specifications subject to change without previous notice, due to the convenience of improvement of the product.



C/ Julio Cervera, 10-12-14. Móstoles Tecnológico.
28935 MÓSTOLES. (Madrid). ESPAÑA - SPAIN.
Tel.: 34-91-6199363 Fax: 34-91-6198647

E-mail: edibon@edibon.com Web: www.edibon.com

Edition: ED01/20
Date: April/2020

REPRESENTATIVE:

