

① Unit: PLC-PI. PLC Module for the Control of Industrial Processes (for working with EDIBON Computerized Teaching Units).

**www.edibon.com**

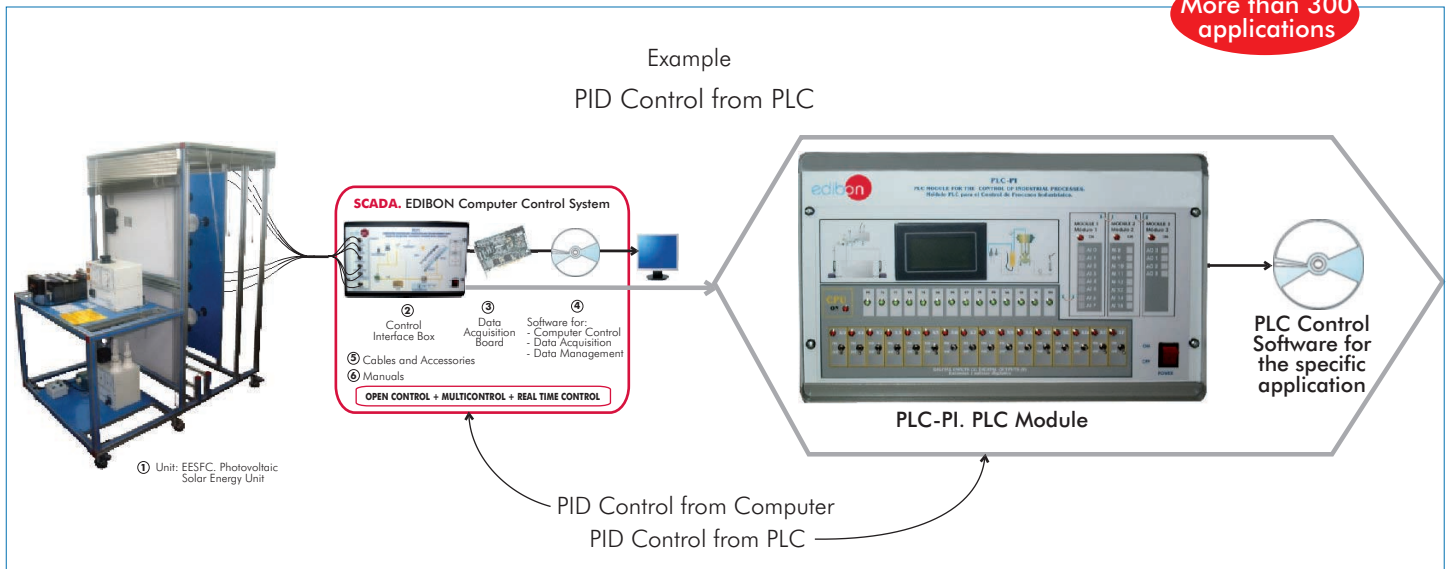
- ↳ Products
- ↳ Products range
- ↳ Units
- ↳ 6.- Systems & Automatics

## DESCRIPTION

This PLC-PI unit contains a metallic box, with a front panel in order to manipulate the unit in a simple and easy way, the power supply and all necessary connectors and cabling and, additionally, the PLC itself with its own touch screen. We have design and supply the proper software for any particular application (for each particular EDIBON Computerized Teaching Unit).

## Available wide range of PLC Applications (PID Control)

More than 300 applications



## SPECIFICATIONS

### Items supplied as standard

#### ① **PLC-PI. Unit:**

Metallic box.

Circuit diagram in the front panel.

Front panel:

Digital inputs(X) and Digital outputs (Y) block:

16 Digital inputs, activated by switches and 16 LEDs for confirmation (red).

14 Digital outputs (through SCSI connector) with 14 LEDs for message (green).

Analog inputs block:

16 Analog inputs (-10V. to + 10V.) ( through SCSI connector).

Analog outputs block:

4 Analog outputs (-10V. to + 10V) (through SCSI connector).

Touch screen:

Dimensions approx. : 110 mm x 72 mm. High visibility and multiple functions. Display of a highly visible status. Recipe function. Bar graph function. Flow display function. Alarm list. Multi language function. True type fonts.

Back panel:

Power supply connector. Fuse 2A.

RS-232 connector to PC.

Inside:

Power supply outputs: 24 Vdc, 12 Vdc, -12 Vdc, 12 Vdc variable.

Panasonic PLC:

High-speed scan of 0.32  $\mu$ sec. for a basic instruction.

Program capacity of 32 Ksteps, with a sufficient comment area.

Free input AC voltage (100 to 240 V AC).

DC input: 16 (24 V DC).

Relay output: 14 (250 V A AC/2 A).

Program capacity: 32 ksteps.

Equipped with a USB communication port.

High-speed counter.

Multi-point PID control.

Digital inputs/outputs and analog inputs/outputs Panasonic modules.

Communication RS232 wire, to computer (PC).

#### ② **PLC-SOF. PLC Control Software:**

For each particular EDIBON Computerized Teaching Unit.

#### ③ **Cables and Accessories**, for normal operation.

#### ④ **Manuals:**

This unit is supplied with 8 manuals: Required Services, Assembly and Installation, Software, Starting-up, Safety, Maintenance, Calibration & Practices Manuals.

## EXERCISES AND PRACTICAL POSSIBILITIES

### Some General Practical Possibilities:

- 1.- Control of the particular unit process through the control interface box without the computer.
- 2.- PID control.
- 3.- Visualization of all the sensors values used in the particular unit process.
- 4.- Calibration of all sensors included in the particular unit process.
- 5.- Hand on of all the actuators involved in the particular unit process.
- 6.- Realization of different experiments, in automatic way, without having in front the particular unit. (These experiments can be decided previously).
- 7.- Simulation of outside actions, in the cases do not exist hardware elements. (Example: test of complementary tanks, complementary industrial environment to the process to be studied, etc).
- 8.- PLC hardware general use.
- 9.- PLC process application for the particular unit.
- 10.- PLC structure.
- 11.- PLC inputs and outputs configuration.
- 12.- PLC configuration possibilities.
- 13.- PLC program languages.
- 14.- PLC different programming standard languages (ladder diagram (LD), structured text (ST), instructions list (IL), sequential function chart (SFC), function block diagram (FBD)).
- 15.- New configuration and development of new process.
- 16.- Hand on an established process.
- 17.- To visualize and see the results and to make comparisons with the particular unit process.
- 18.- Possibility of creating new process in relation with the particular unit.
- 19.- PLC Programming Exercises.
- 20.- Own PLC applications in accordance with teacher and student requirements.

## REQUIRED SERVICES

- Electrical supply: single-phase, 220V. 50Hz or 110V. 60Hz.
- Computer (PC).

## DIMENSIONS & WEIGHTS

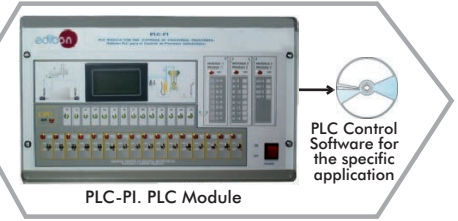
- PLC-PI Unit: -Dimensions: 490 x 330 x 310 mm. approx.  
-Weight: 30 Kg. approx.

Units which can use PLC-PI:

## 4.- Electricity

### 4.4.- Electrical Machines

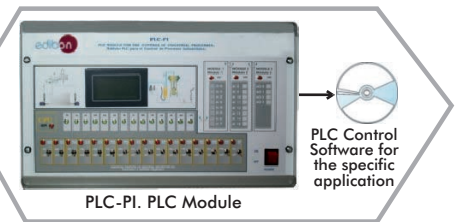
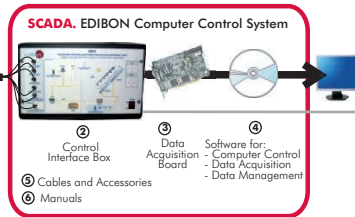
EME. **Electrical Machines Unit**



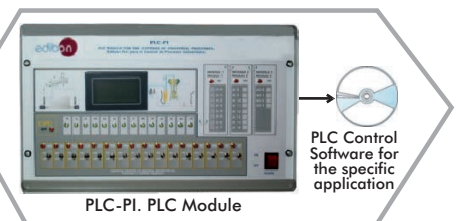
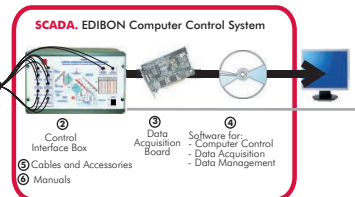
## 5.- Energy

### 5.3.- Renewable (Alternative) Energies

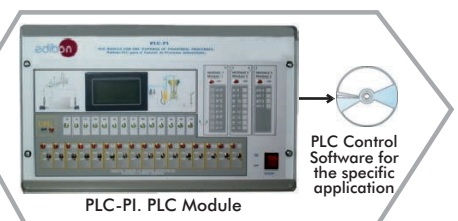
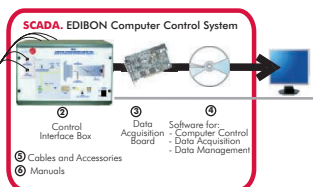
EESFC. Computer Controlled **Photovoltaic Solar Energy Unit**



EESTC. Computer Controlled **Thermal Solar Energy Unit**



EEEC. Computer Controlled **Wind Energy Unit**

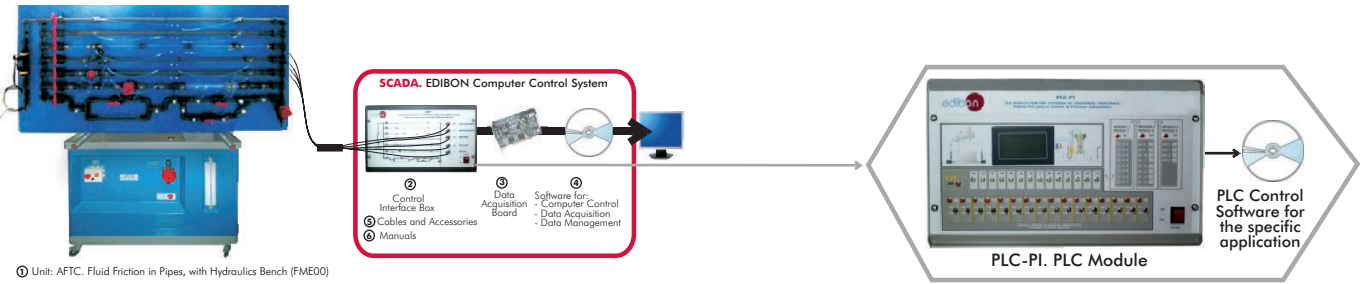


Units which can use PLC-PI: (continuation)

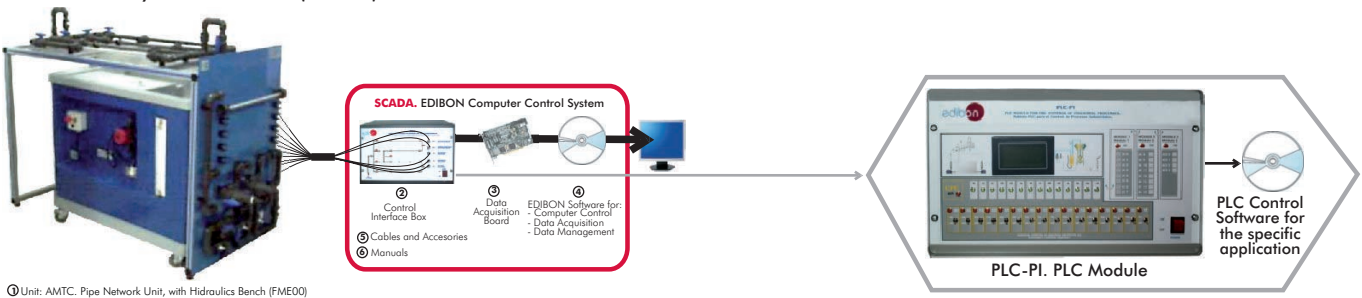
## 8.- Fluid Mechanics & Aerodynamics

### 8.2.- Fluid Mechanics (General)

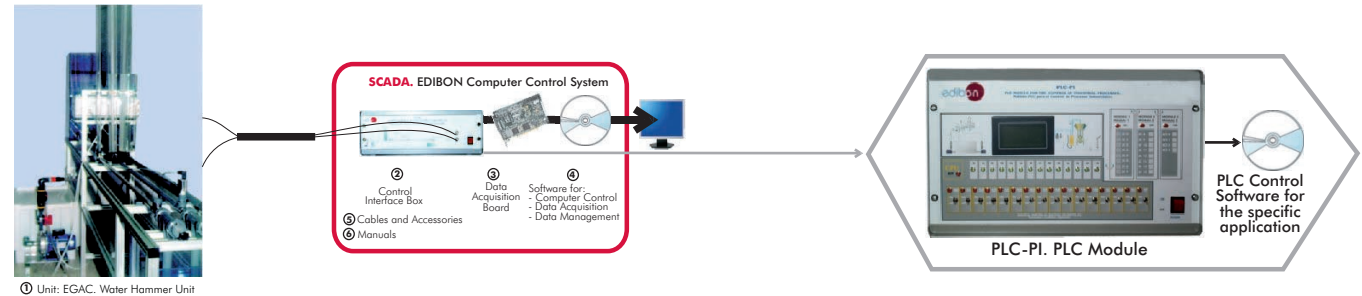
AFTC. Computer Controlled **Fluid Friction in Pipes**,  
with Hydraulics Bench (FME00)



AMTC. Computer Controlled **Pipe Network Unit**,  
with Hydraulics Bench (FME00)

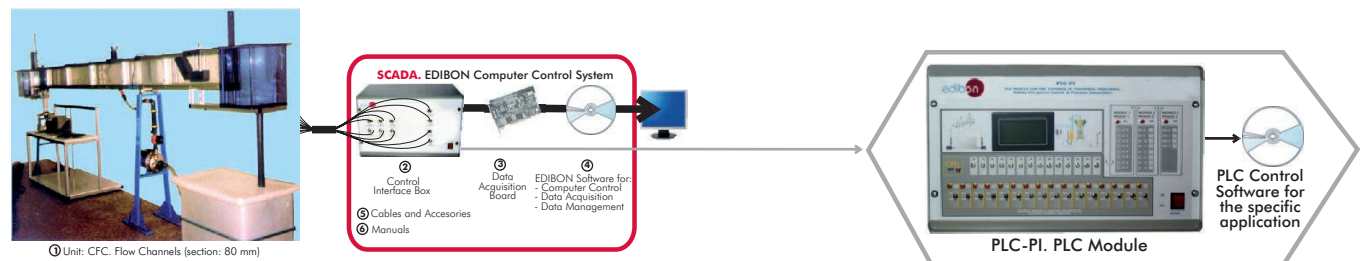


EGAC. Computer Controlled **Water Hammer Unit**

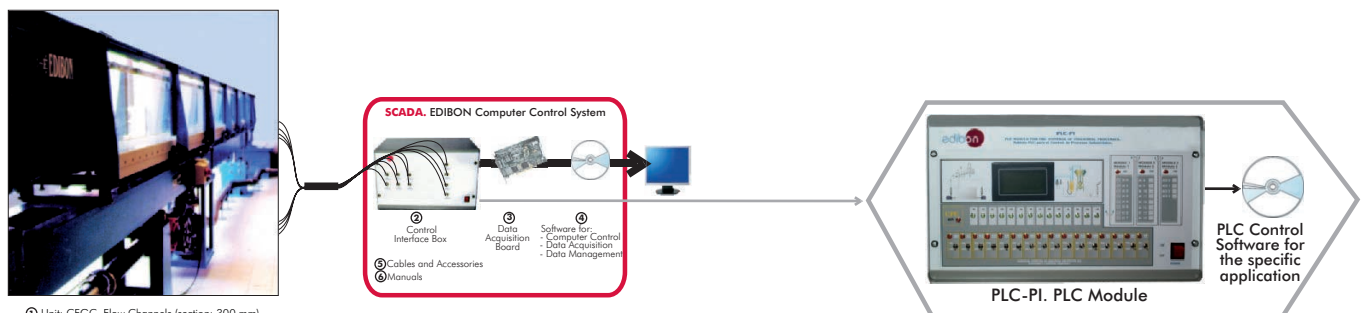


### 8.3.- Fluid Mechanics (Flow Channels)

CFC. Computer Controlled **Flow Channels (section: 80 mm)**



CFGC. Computer Controlled **Flow Channels (section: 300 mm)**



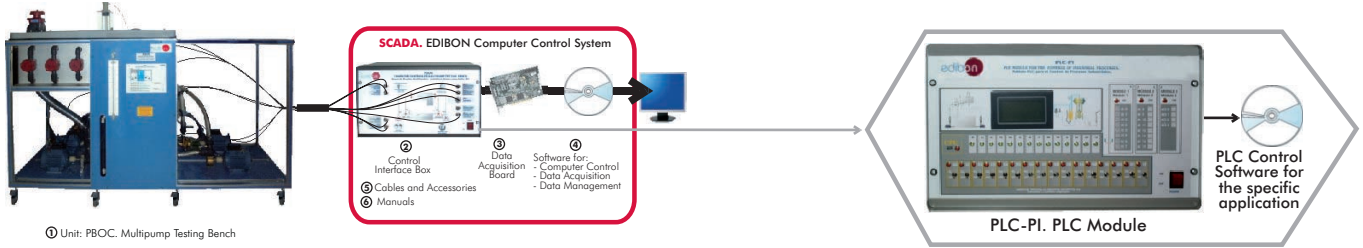
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Units which can use PLC-PI: (continuation)

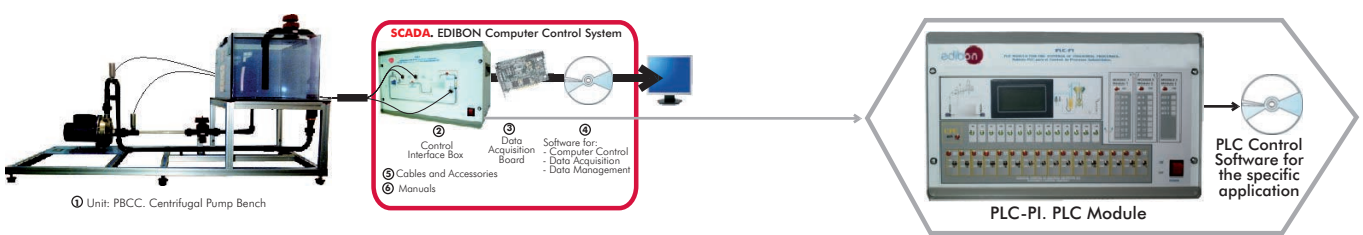
## 8.- Fluid Mechanics & Aerodynamics

### 8.4.- Hydraulic Machines (Pumps)

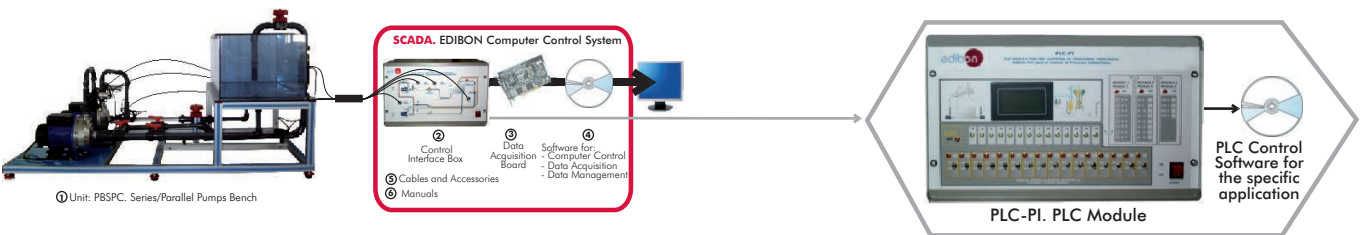
#### PBOC. Computer Controlled Multipump Testing Bench



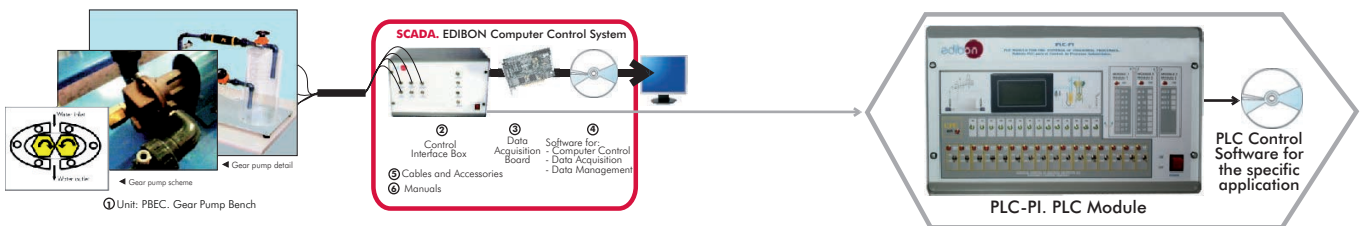
#### PBCC. Computer Controlled Centrifugal Pump Bench



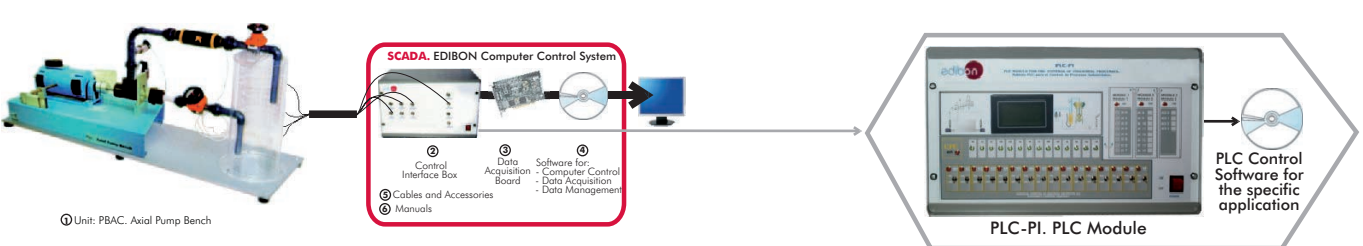
#### PBSPC. Computer Controlled Series/Parallel Pumps Bench



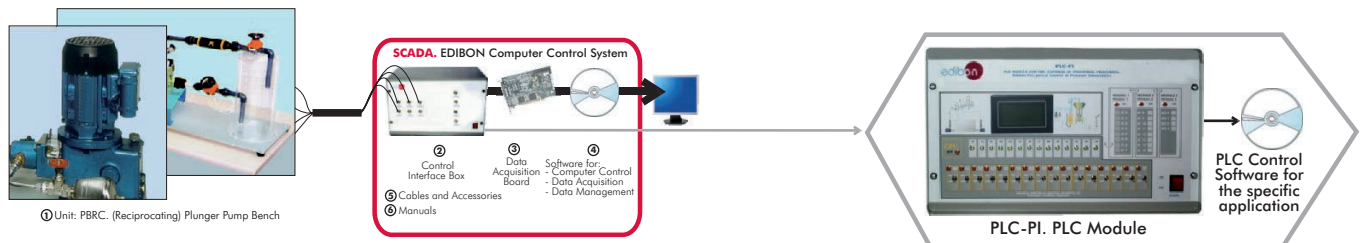
#### PBEC. Computer Controlled Gear Pump Bench



#### PBAC. Computer Controlled Axial Pump Bench



#### PBRC. Computer Controlled (Reciprocating) Plunger Pump Bench



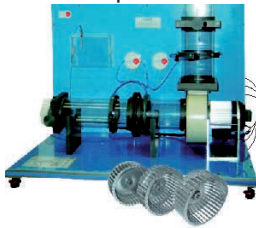
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Units which can use PLC-PI: (continuation)

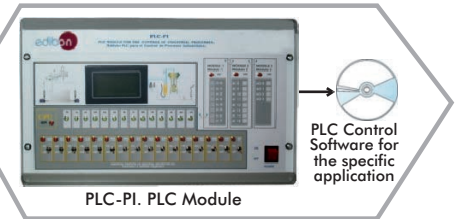
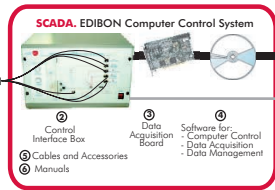
## 8.- Fluid Mechanics & Aerodynamics

### 8.5.- Hydraulic Machines (Fans)

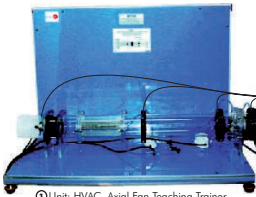
HVCC. Computer Controlled Centrifugal Fan Teaching Trainer



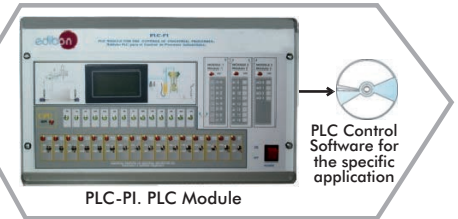
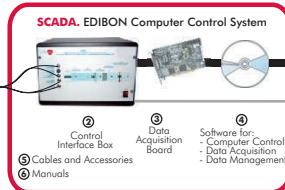
① Unit: HVCC. Centrifugal Fan Teaching Trainer



HVAC. Computer Controlled Axial Fan Teaching Trainer

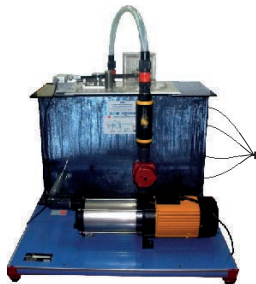


① Unit: HVAC. Axial Fan Teaching Trainer

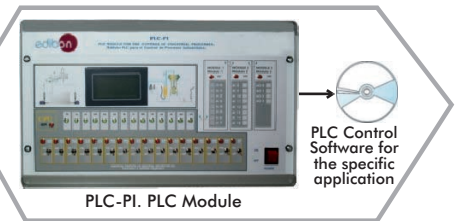
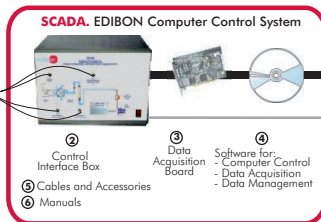


### 8.6.- Hydraulic Machines (Turbines)

TFRC. Computer Controlled Radial Flow Turbine



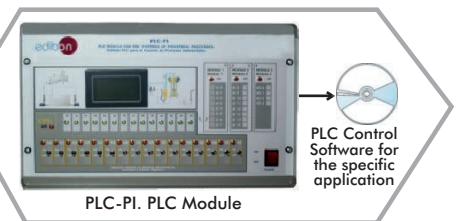
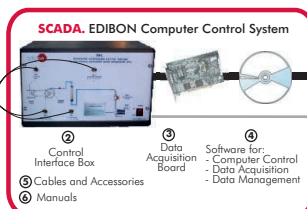
① Unit: TFRC. Radial Flow Turbine



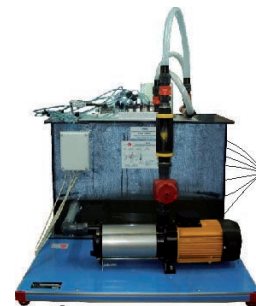
TPC. Computer Controlled Pelton Turbine



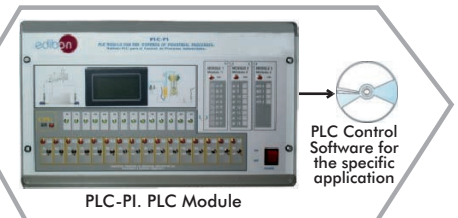
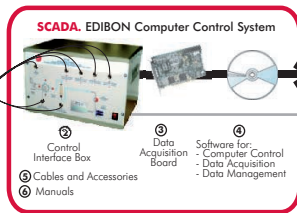
① Unit: TPC. Pelton Turbine



TFAC. Computer Controlled Axial Flow Turbine



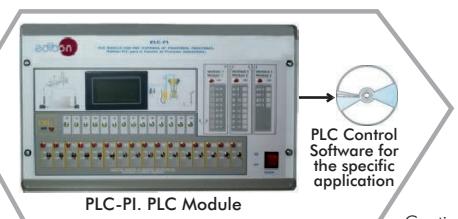
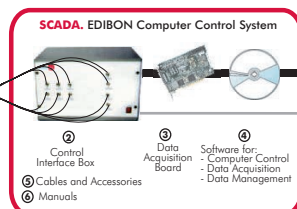
① Unit: TFAC. Axial Flow Turbine



TIVC. Computer Controlled Steam Turbine



① Unit: TIVC. Steam Turbine



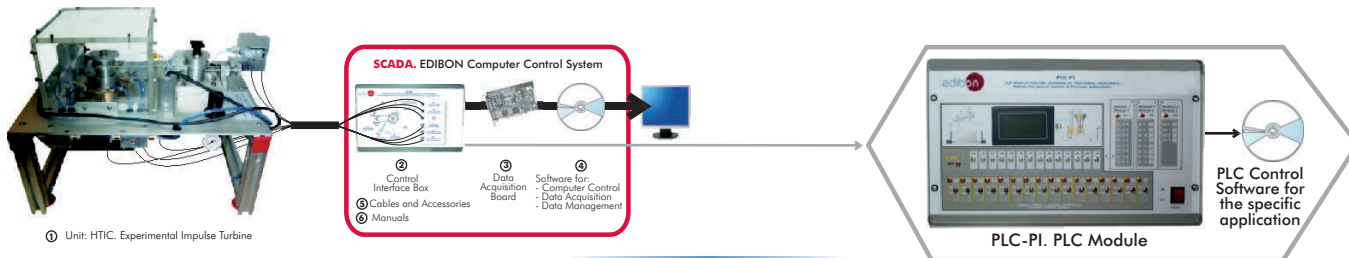
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Units which can use PLC-PI: (continuation)

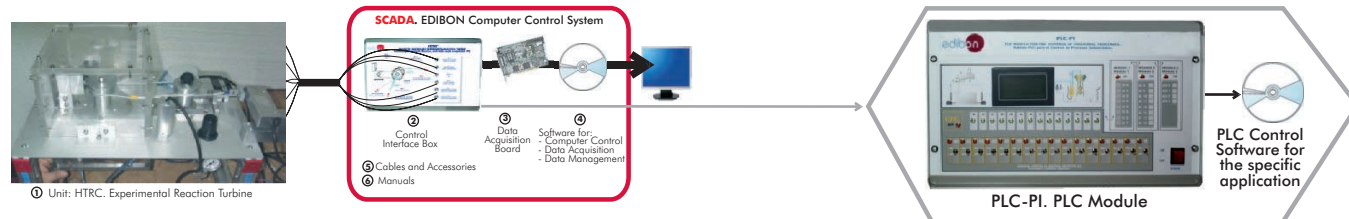
## 8.- Fluid Mechanics & Aerodynamics

### 8.6.- Hydraulic Machines (Turbines)

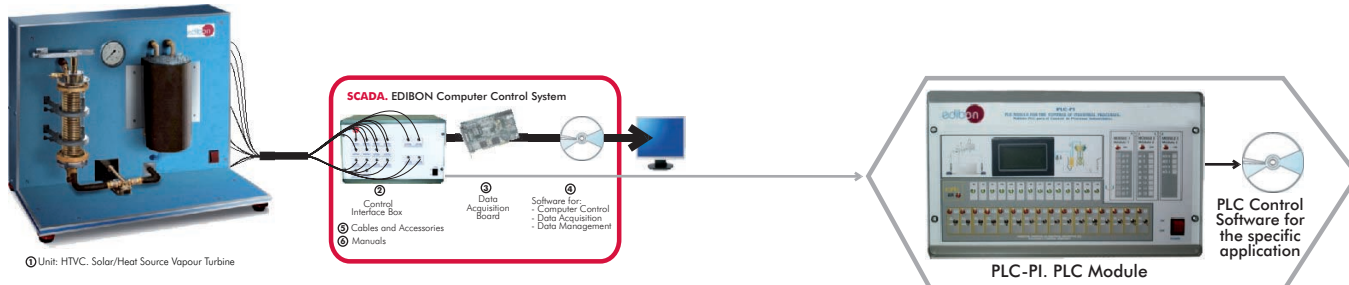
HTIC. Computer Controlled Experimental Impulse Turbine



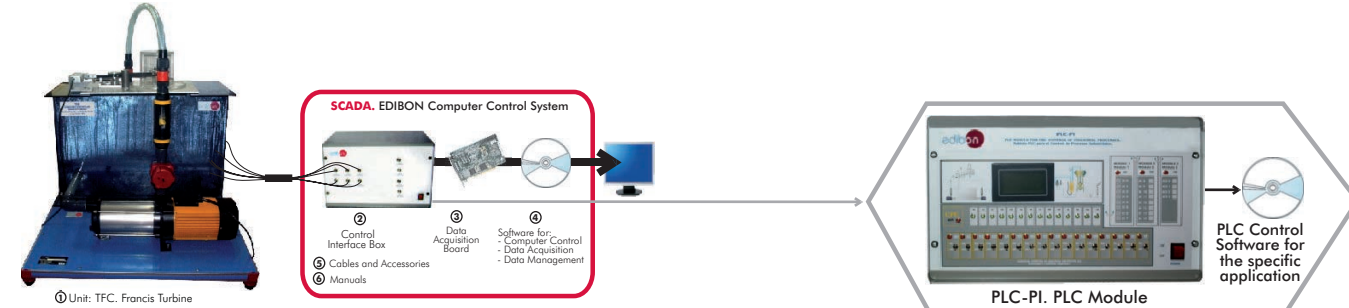
HTRC. Computer Controlled Experimental Reaction Turbine



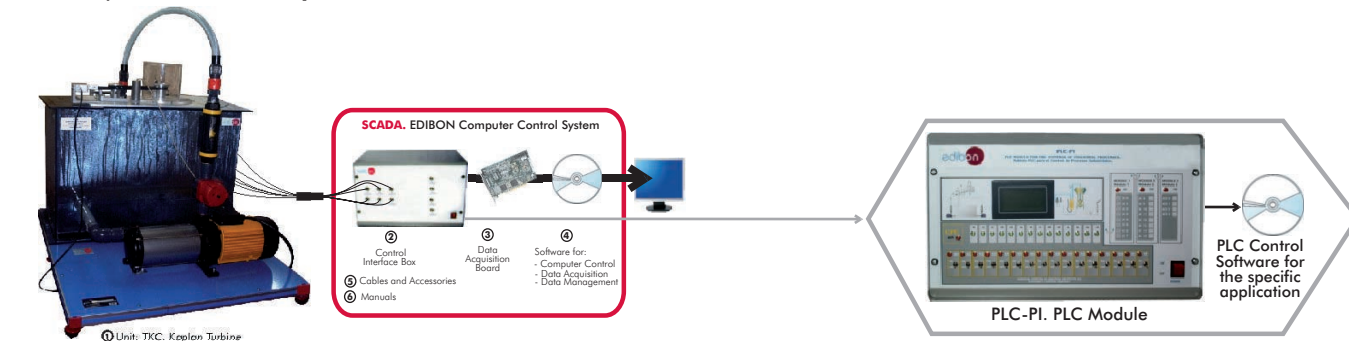
HTVC. Computer Controlled Solar/Heat Source Vapour Turbine



TFC. Computer Controlled Francis Turbine

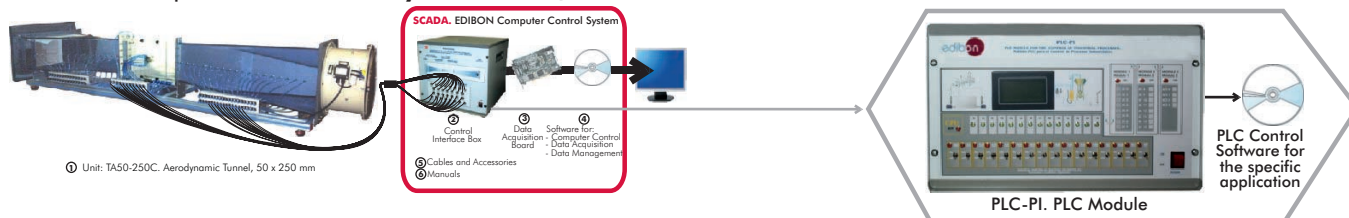


TKC. Computer Controlled Kaplan Turbine



### 8.7.- Aerodynamics (Basic)

TA50/250C. Computer Controlled Aerodynamic Tunnel, 50 x 250 mm

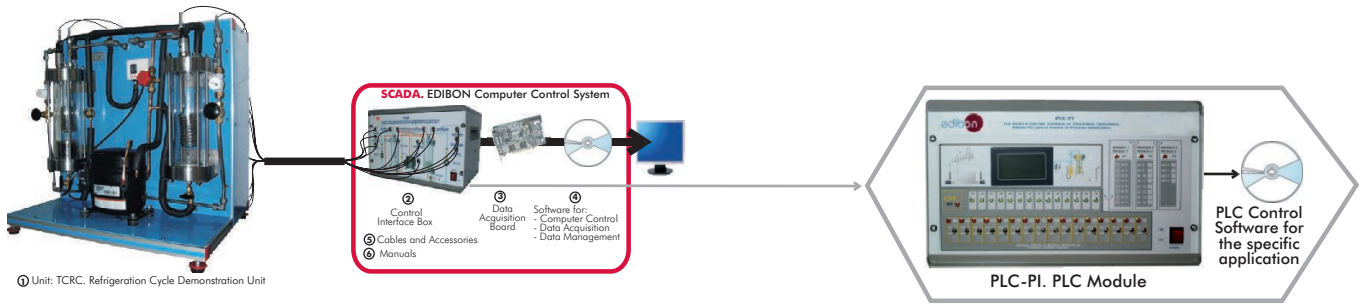


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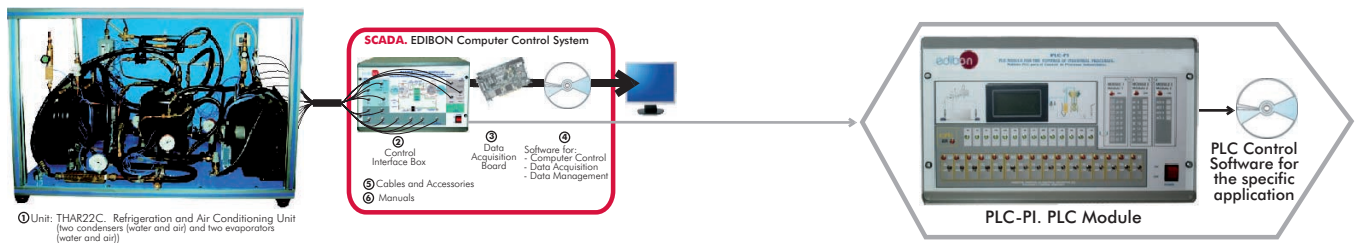
## 9.- Thermodynamics & Thermotechnics

### 9.1.- Refrigeration

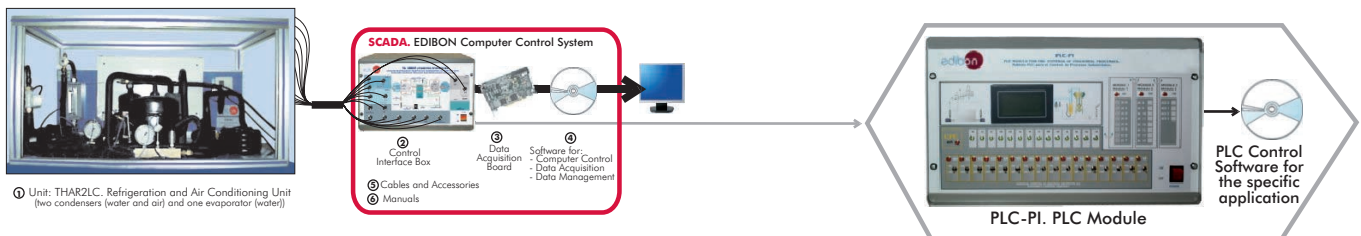
#### TCRC. Computer Controlled Refrigeration Cycle Demonstration Unit



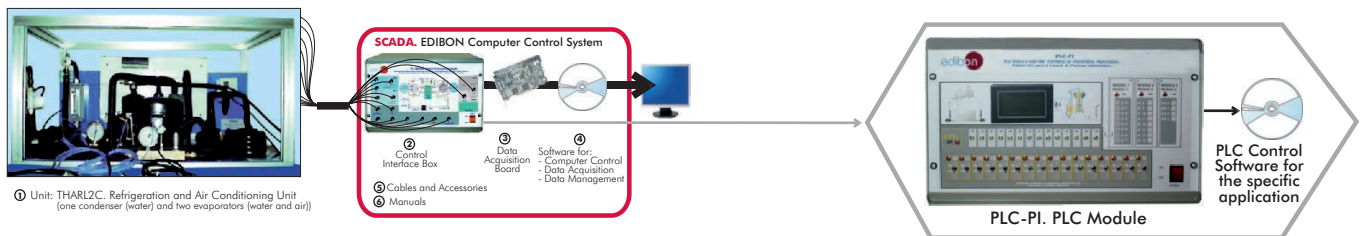
#### THAR22C. Computer Controlled Refrigeration and Air Conditioning Unit (two condensers and two evaporators)



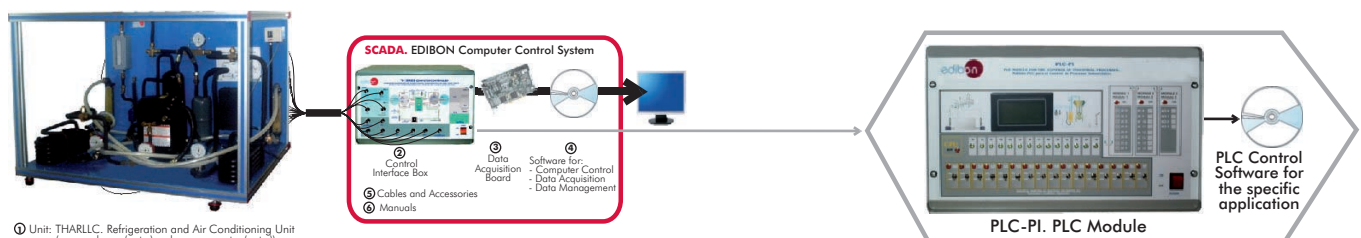
#### THAR2LC. Computer Controlled Refrigeration and Air Conditioning Unit (two condensers and one evaporator)



#### THARL2C. Computer Controlled Refrigeration and Air Conditioning Unit (water condenser and two evaporators)



#### THARLLC. Computer Controlled Refrigeration and Air Conditioning Unit (water condenser and water evaporator)

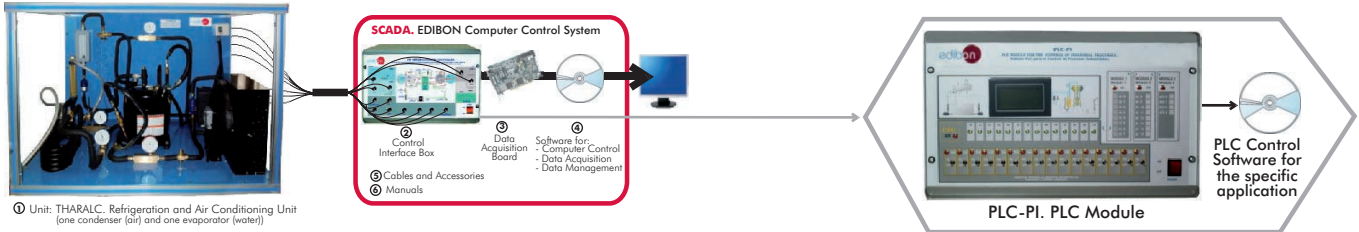




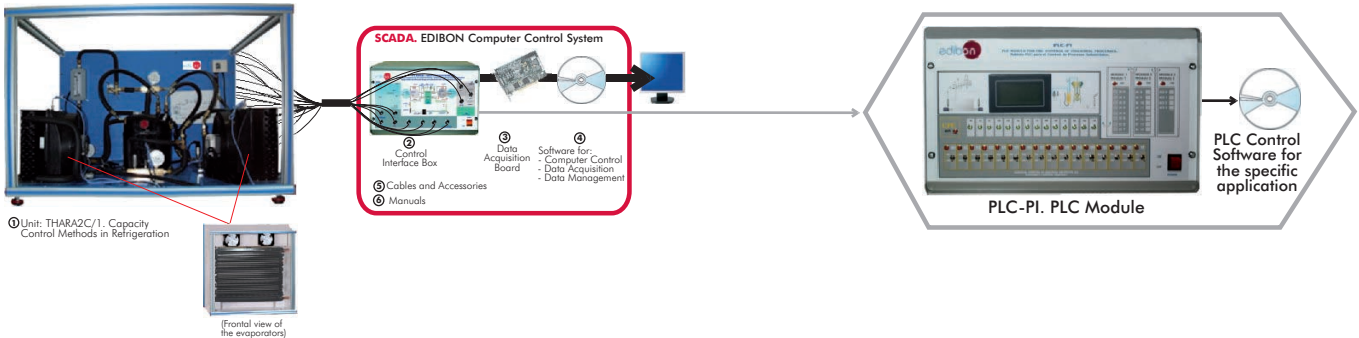
## 9.- Thermodynamics & Thermotechnics

### 9.1.- Refrigeration

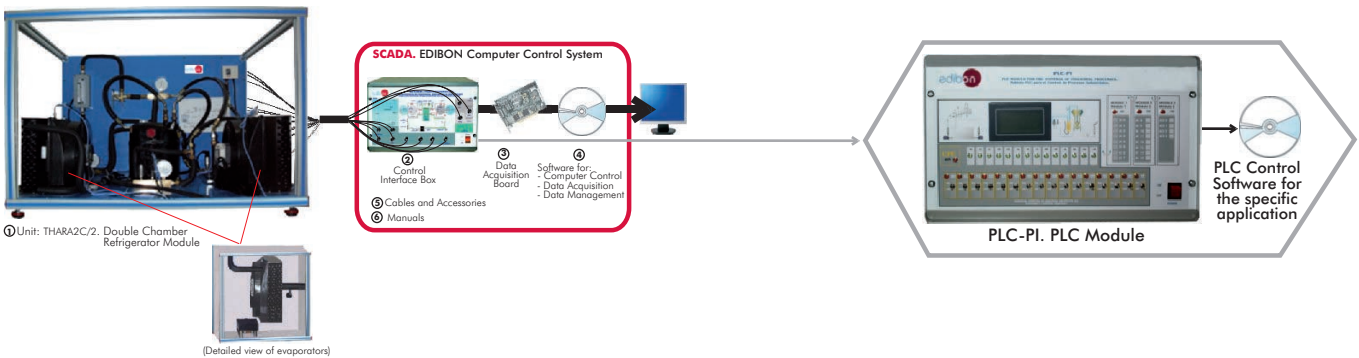
#### THARALC. Computer Controlled Refrigeration and Air Conditioning Unit (air condenser and water evaporator)



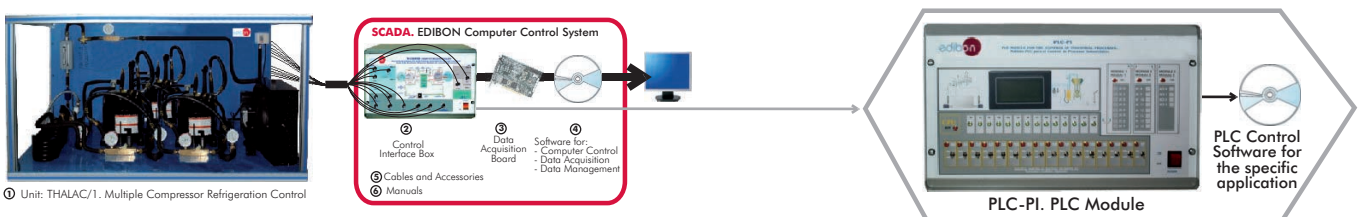
#### THARA2C/1. Computer Controlled Capacity Control Methods in Refrigeration



#### THARA2C/2. Computer Controlled Double Chamber Refrigerator Module



#### THALAC/1. Computer Controlled Multiple Compressor Refrigeration Control

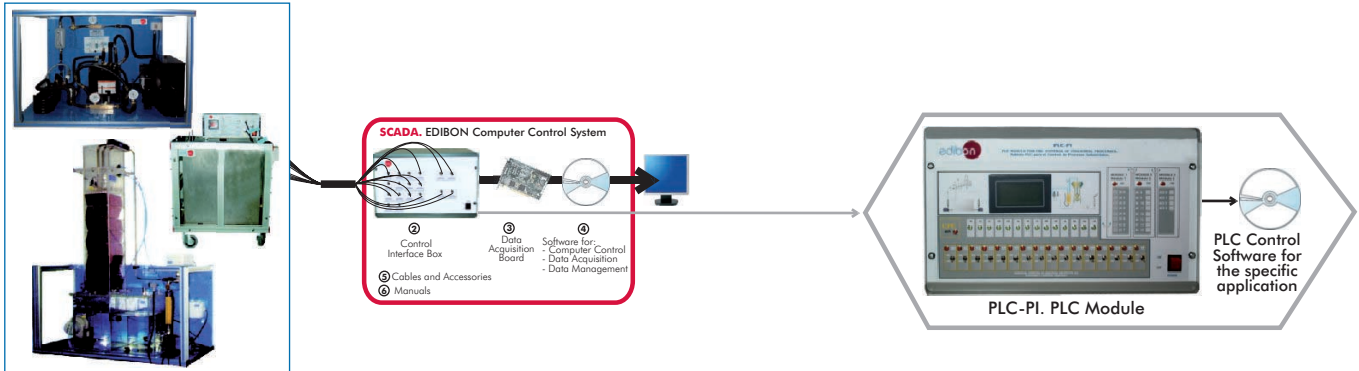


Units which can use PLC-PI: (continuation)

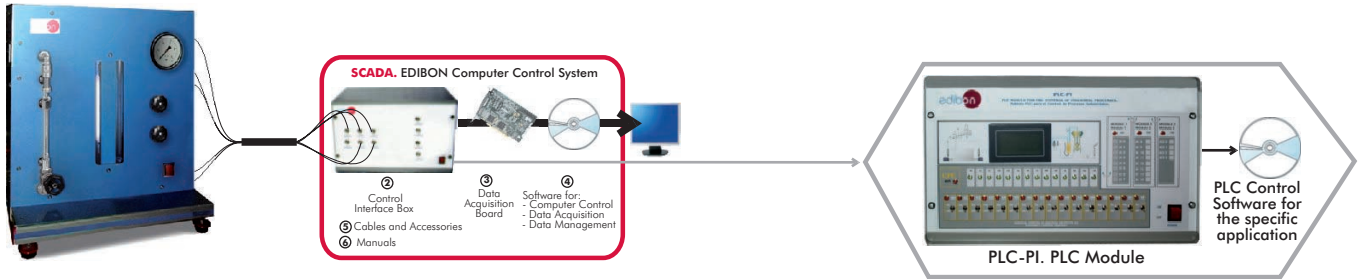
## 9.- Thermodynamics & Thermotechnics

### 9.1.- Refrigeration

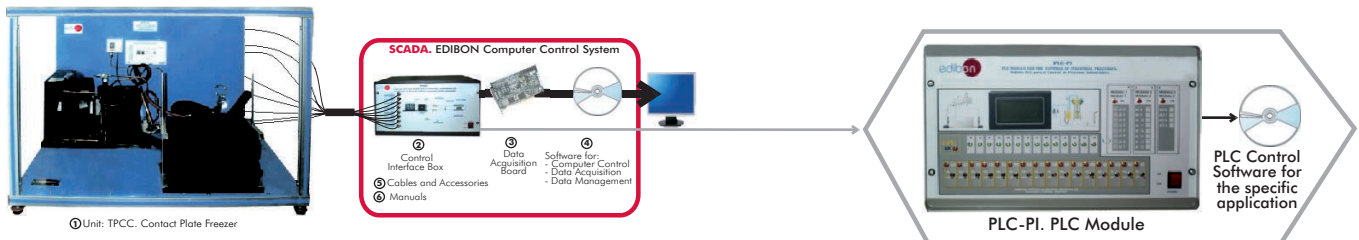
TCPISC. Computer Controlled **Cooling Plant with Ice Store**



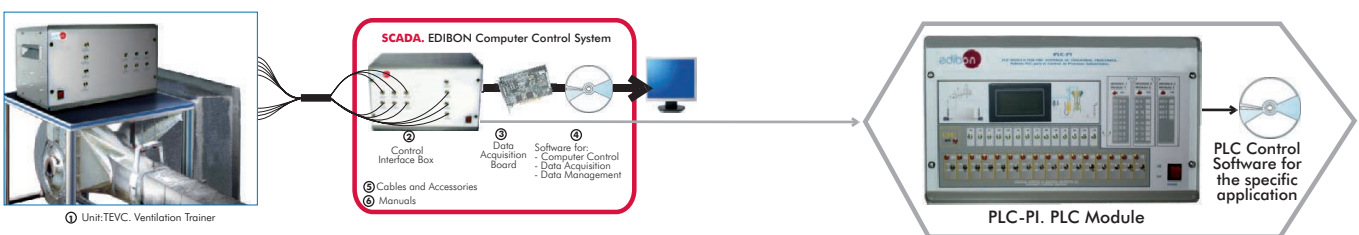
TPVC. Computer Controlled **Vortex Tube Refrigerator Unit**



TPCC. Computer Controlled **Contact Plate Freezer**

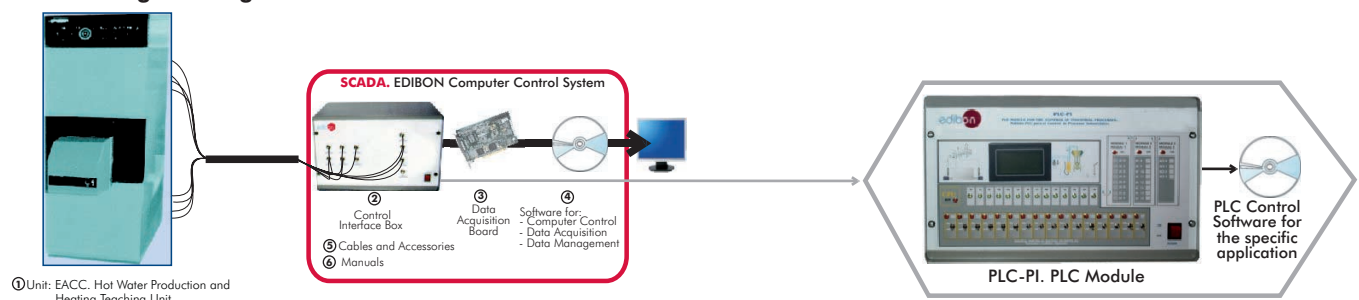


TEVC. Computer Controlled **Ventilation Trainer**



### 9.3.- Heating

EACC. Computer Controlled **Hot Water Production and Heating Teaching Unit**

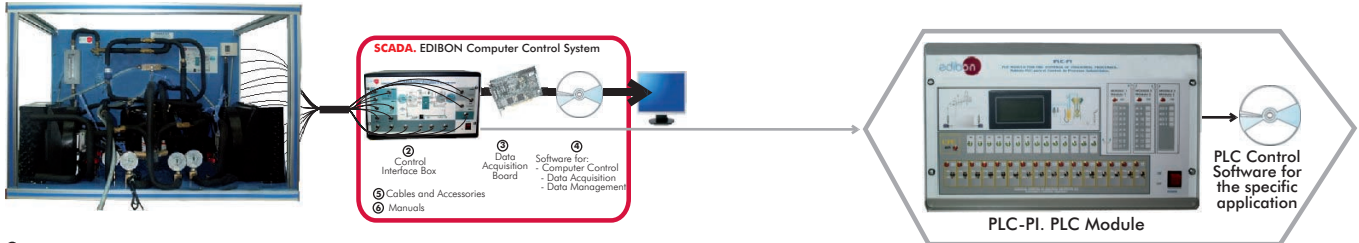


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## 9.- Thermodynamics & Thermotechnics

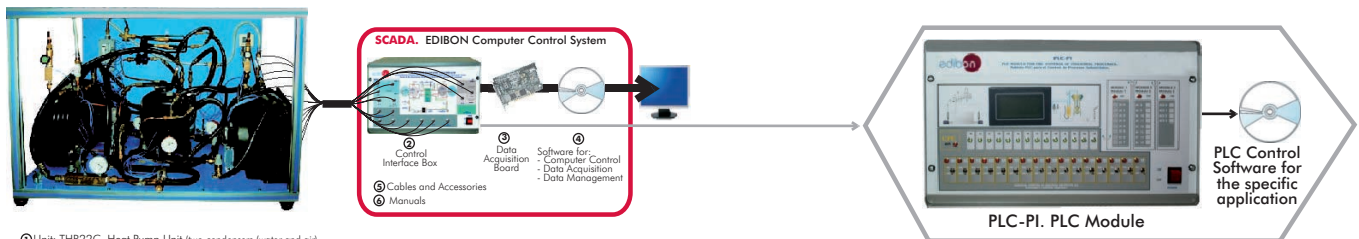
### 9.4.- Heat Pumps

#### THIBAR22C. Computer Controlled Heat Pump + Air Conditioning + Refrigeration Unit, with Cycle Inversion Valve



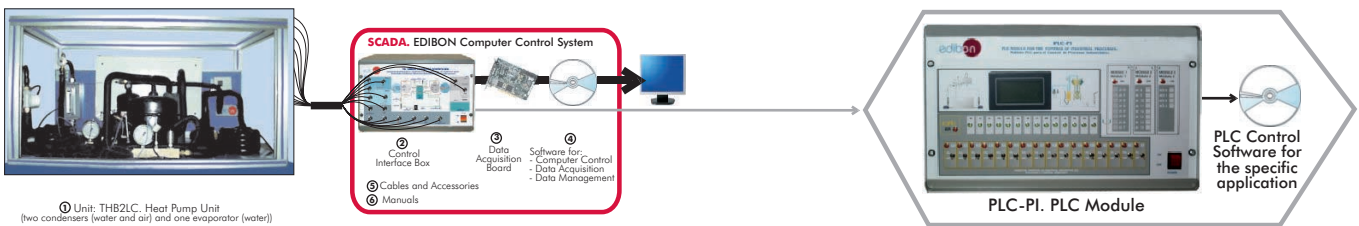
① Unit: THIBAR22C. Heat Pump + Air Conditioning + Refrigeration Unit, with Cycle Inversion Valve

#### THB22C. Computer Controlled Heat Pump Unit (two condensers and two evaporators)



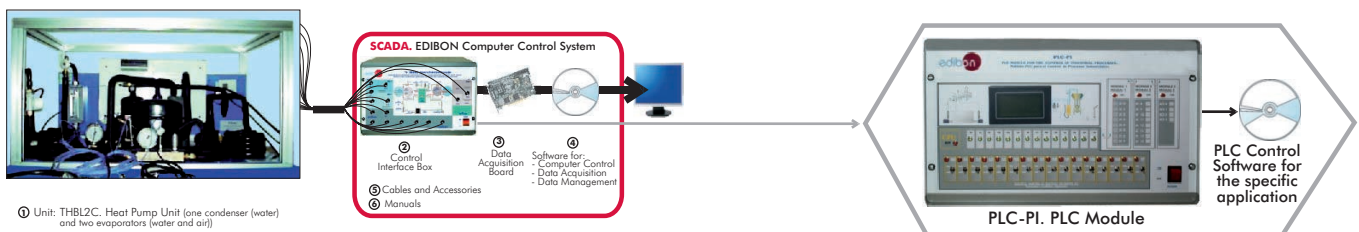
① Unit: THB22C. Heat Pump Unit (two condensers (water and air) and two evaporators (water and air)).

#### THB2LC. Computer Controlled Heat Pump Unit (two condensers and water evaporator)



① Unit: THB2LC. Heat Pump Unit (two condensers (water and air) and one evaporator (water))

#### THBL2C. Computer Controlled Heat Pump Unit (water condenser and two evaporators)



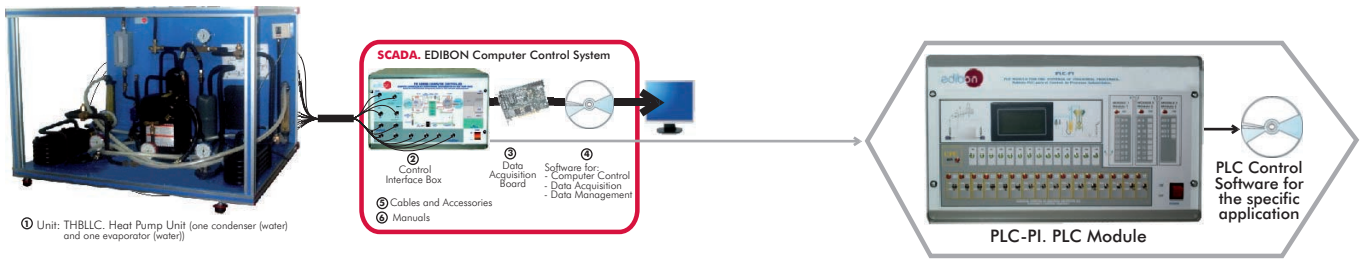
① Unit: THBL2C. Heat Pump Unit (one condenser (water) and two evaporators (water and air))

Units which can use PLC-PI: (continuation)

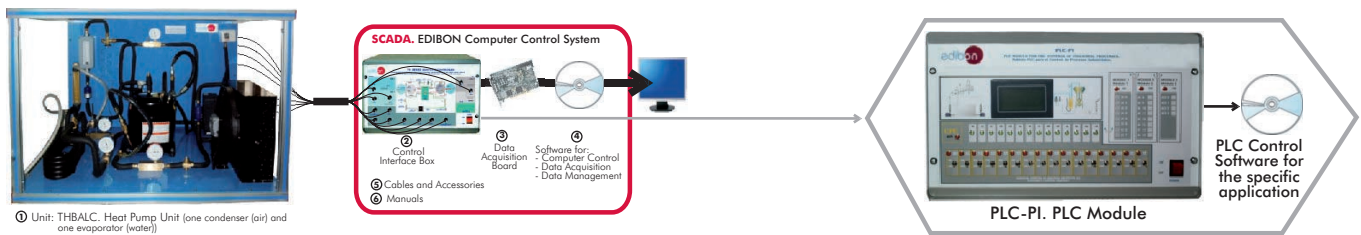
## 9.- Thermodynamics & Thermotechnics

### 9.4.- Heat Pumps

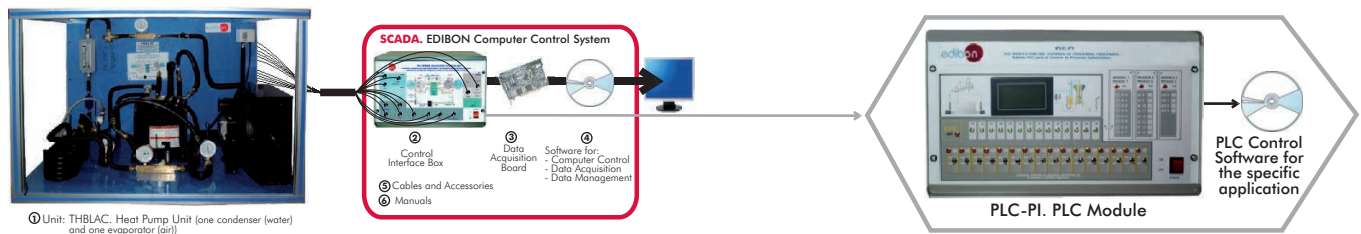
THBLLC. Computer Controlled Heat Pump Unit (water condenser and water evaporator)



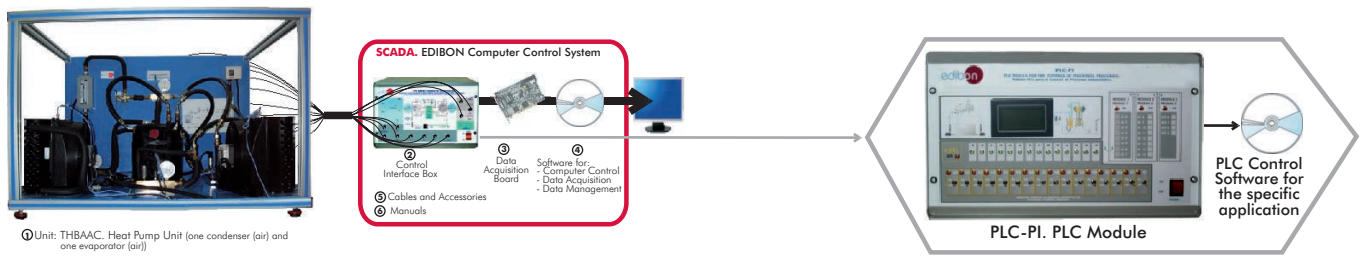
THBALC. Computer Controlled Heat Pump Unit (air condenser and water evaporator)



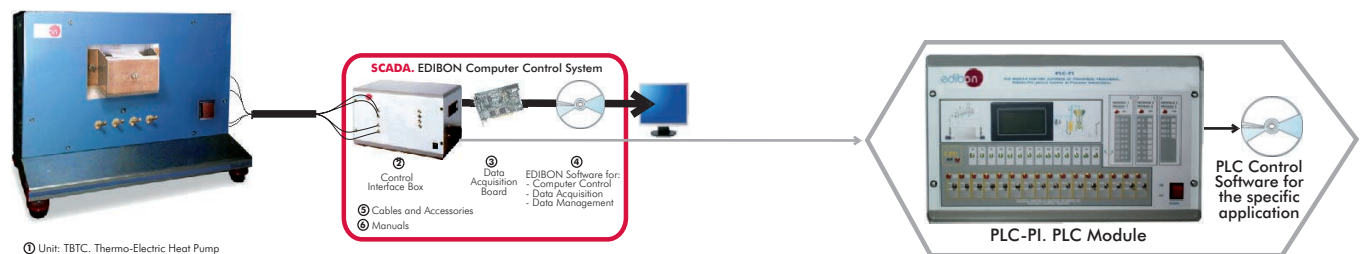
THBLAC. Computer Controlled Heat Pump Unit (water condenser and air evaporator)



THBAAC. Computer Controlled Heat Pump Unit (air condenser and air evaporator)



TBTC. Computer Controlled Thermo-Electric Heat Pump



Continue ...

Units which can use PLC-PI: (continuation)

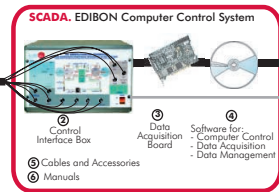
## 9.- Thermodynamics & Thermotechnics

### 9.5.- Air Conditioning

THAAAC. Computer Controlled Air Conditioning Unit (air condenser and air evaporator)



① Unit: THAAAC. Air Conditioning Unit (one condenser (air) and one evaporator (air))



PLC-PI. PLC Module

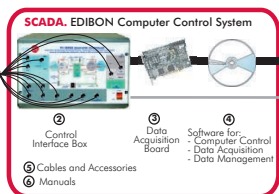


PLC Control Software for the specific application

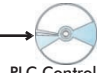
THALAC. Computer Controlled Air Conditioning Unit (water condenser and air evaporator)



① Unit: THALAC. Air Conditioning Unit (one condenser (water) and one evaporator (air))



PLC-PI. PLC Module

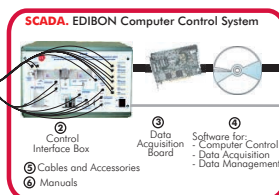


PLC Control Software for the specific application

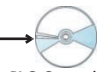
TAAC. Computer Controlled Air Conditioning Laboratory Unit



① Unit: TAAC. Air Conditioning Laboratory Unit



PLC-PI. PLC Module

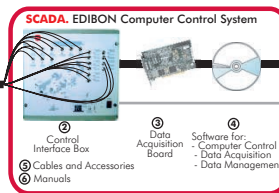


PLC Control Software for the specific application

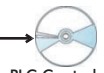
TARC. Computer Controlled Recirculating Air Conditioning Unit



① Unit: TARC. Recirculating Air Conditioning Unit



PLC-PI. PLC Module

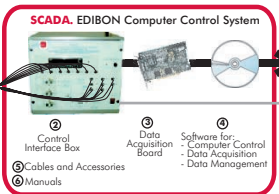


PLC Control Software for the specific application

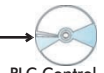
TAAUC. Computer Controlled Automobile Air Conditioning Trainer



① Unit: TAAUC. Automobile Air Conditioning Trainer



PLC-PI. PLC Module



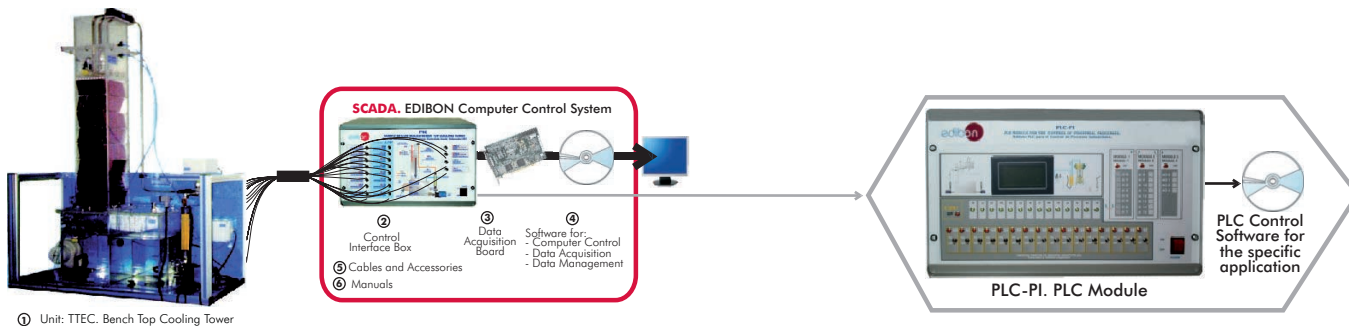
PLC Control Software for the specific application

Units which can use PLC-PI: (continuation)

## 9.- Thermodynamics & Thermotechnics

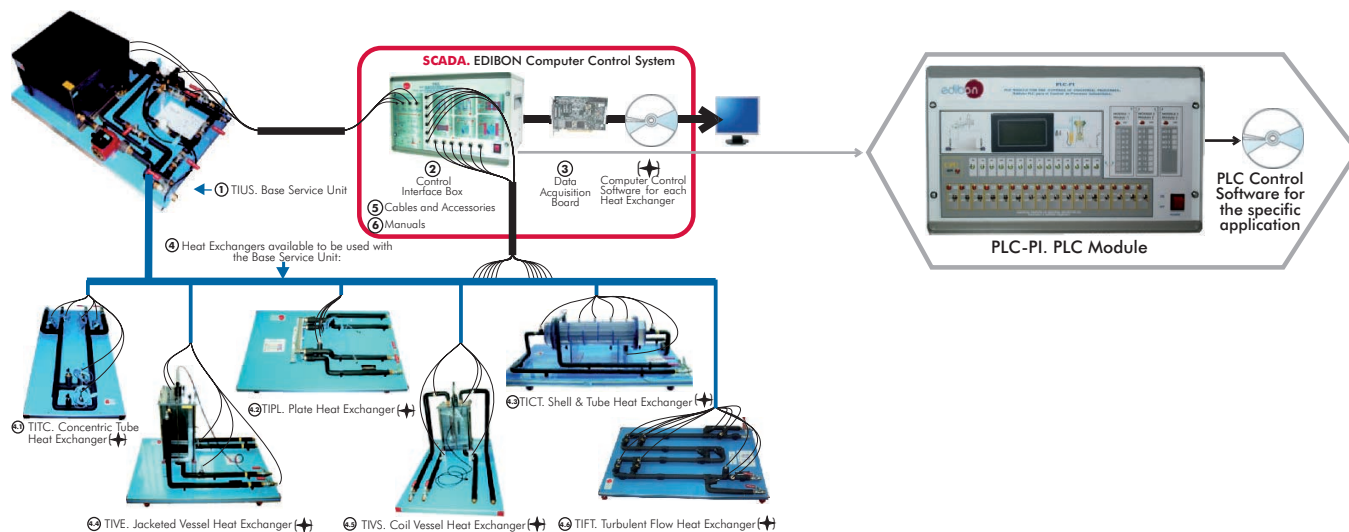
### 9.6.- Cooling Towers

TTEC. Computer Controlled Bench Top Cooling Tower



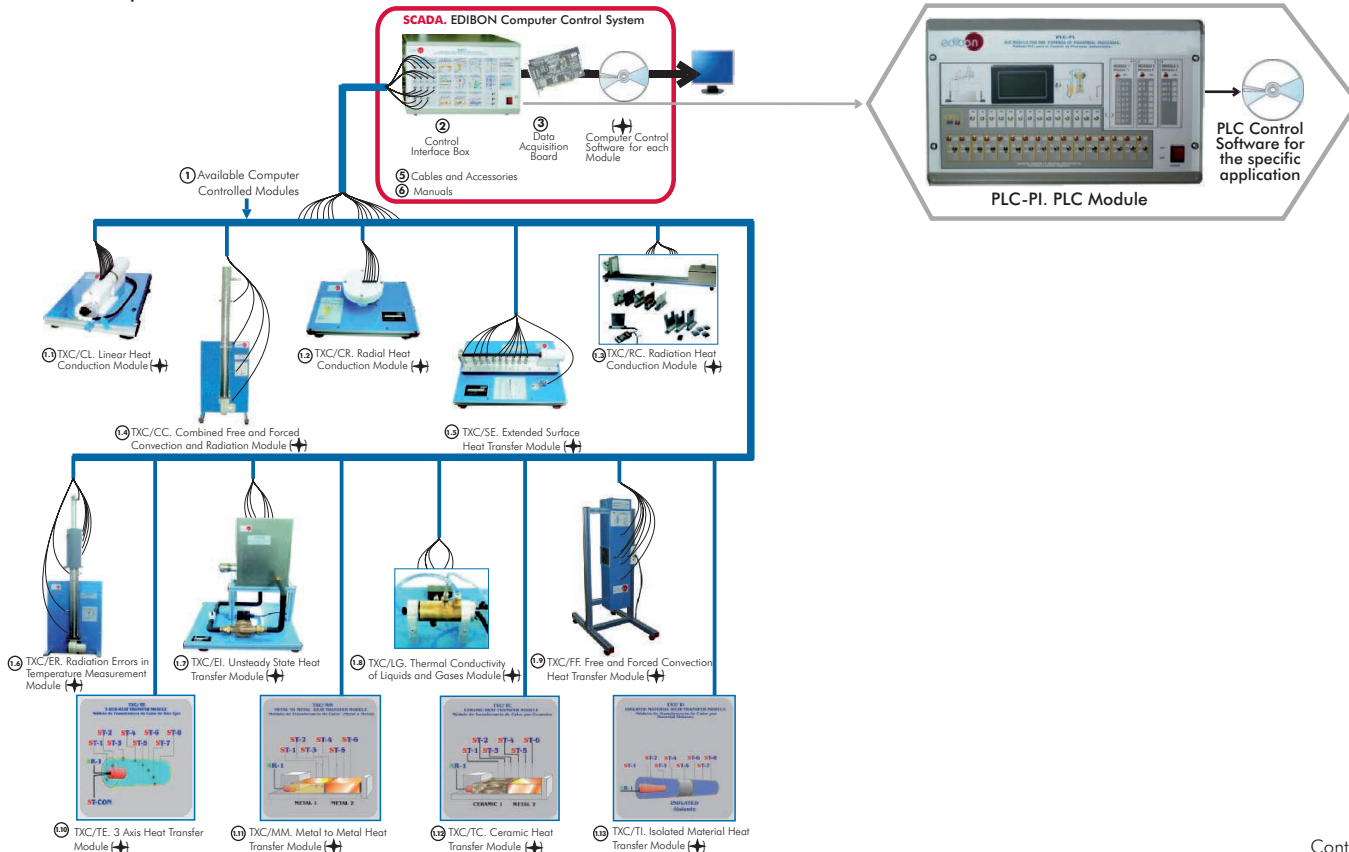
### 9.7.- Heat Exchange

TICC. Computer Controlled Heat Exchangers Training System:



### 9.8.- Heat Transfer (Basic)

TSTCC. Computer Controlled Heat Transfer Series:



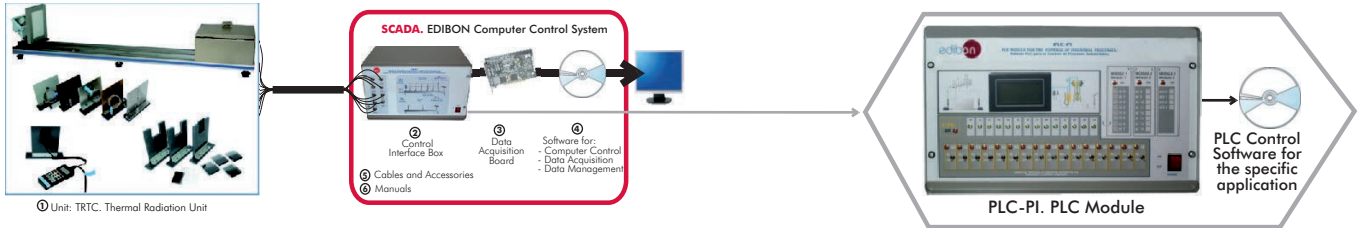
Continue ...

Units which can use PLC-PI: (continuation)

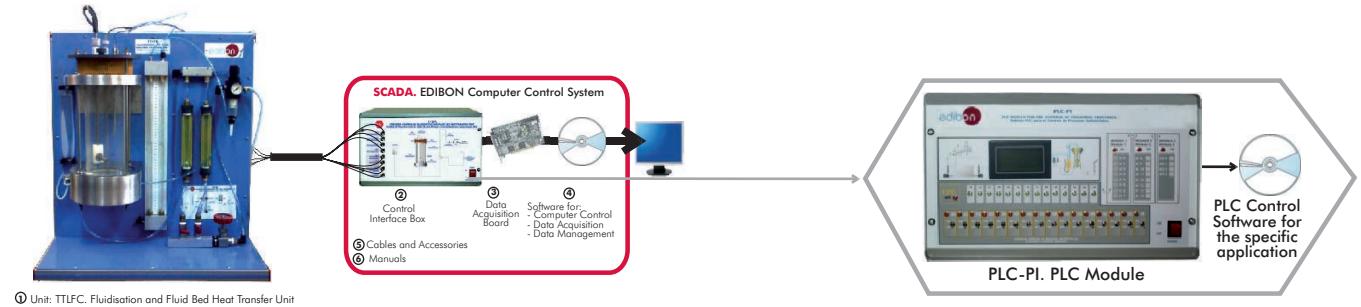
## 9.- Thermodynamics & Thermotechnics

### 9.9.- Heat Transfer (General)

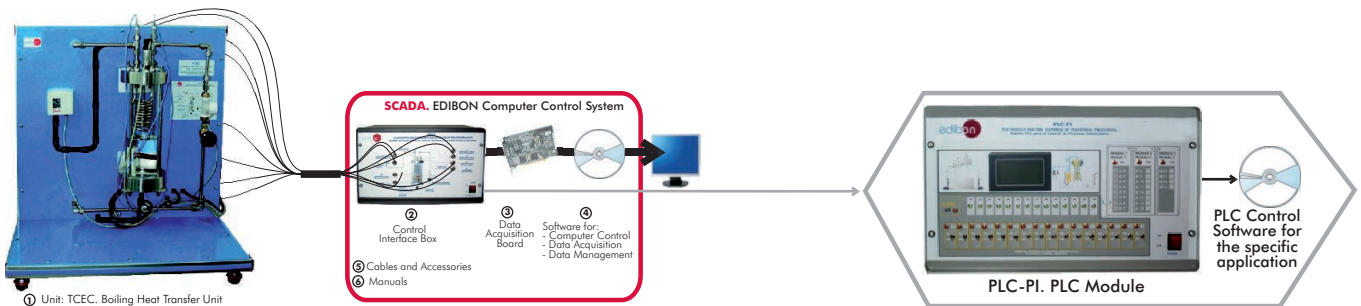
#### TRTC. Computer Controlled Thermal Radiation Unit



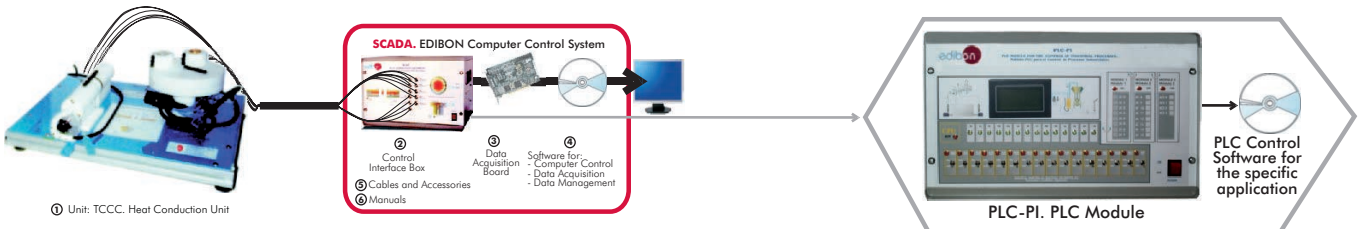
#### TTLFC. Computer Controlled Fluidisation and Fluid Bed Heat Transfer Unit



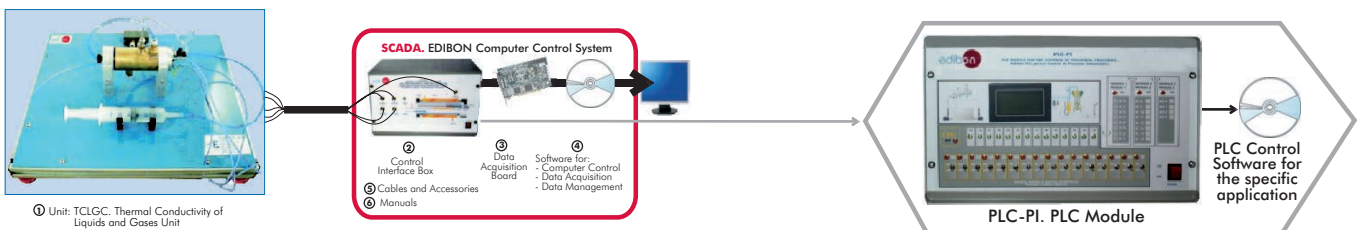
#### TCEC. Computer Controlled Boiling Heat Transfer Unit



#### TCCC. Computer Controlled Heat Conduction Unit



#### TCLGC. Computer Controlled Thermal Conductivity of Liquids and Gases Unit

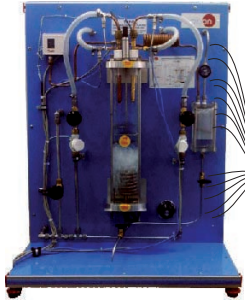


Units which can use PLC-PI: (continuation)

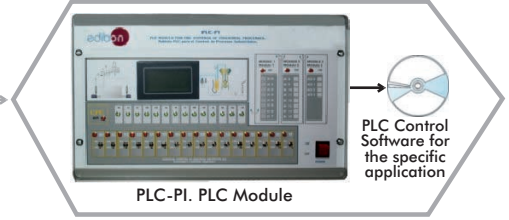
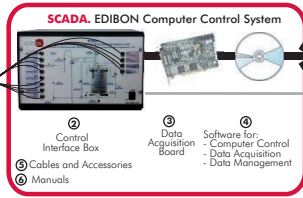
## 9.- Thermodynamics & Thermotechnics

### 9.9.- Heat Transfer (General)

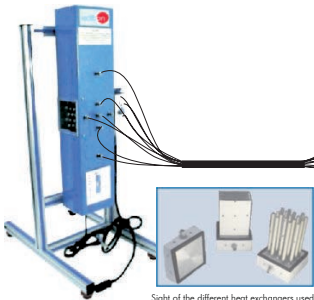
TCPGC. Computer Controlled **Film and Dropwise Condensation Unit**



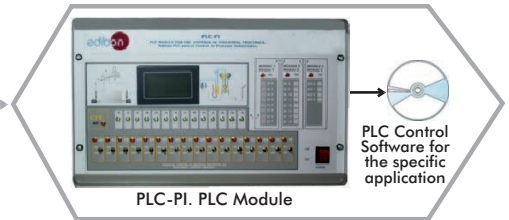
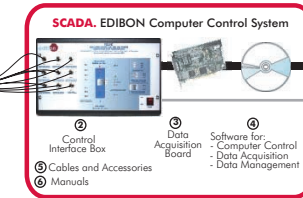
① Unit: TCGPC. Film and Dropwise Condensation Unit



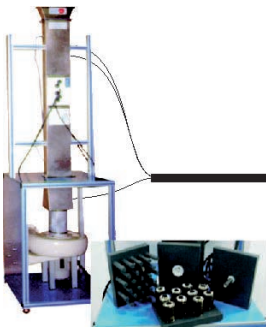
TCLFC. Computer Controlled **Free and Forced Convection Heat Transfer Unit**



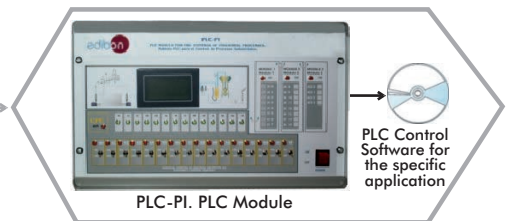
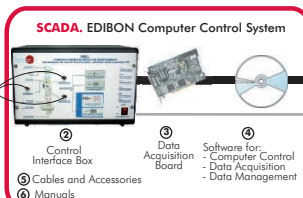
① Unit: TCLFC. Free and Forced Convection Heat Transfer Unit



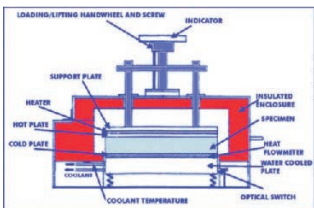
TIFCC. Computer Controlled **Cross Flow Heat Exchanger**



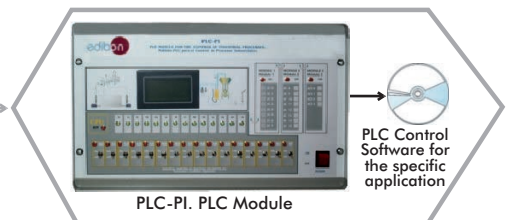
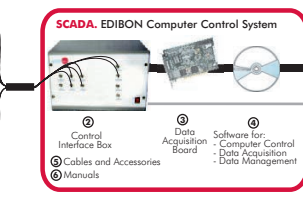
① Unit: TIFCC. Cross Flow Heat Exchanger



TCMC. Computer Controlled **Thermal Conductivity of Building and Insulating Materials Unit**



① Unit: TCMC. Thermal Conductivity of Building and Insulating Materials Unit

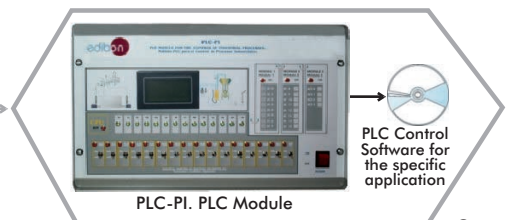
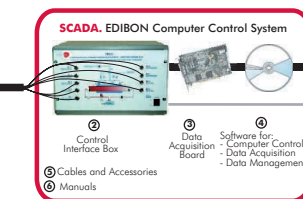


### 9.10.- Heat Transfer (Special)

TFLVC. Computer Controlled **Laminar/Viscous Flow Heat Transfer Unit**



① Unit: TFLVC. Laminar/Viscous Flow Heat Transfer Unit



Continue ...



Units which can use PLC-PI: (continuation)

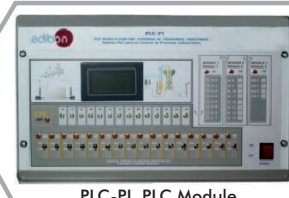
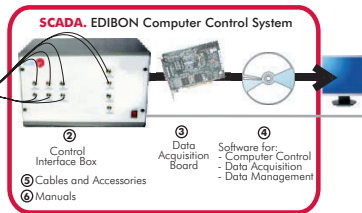
## 9.- Thermodynamics & Thermotechnics

### 9.10.- Heat Transfer (Special)

#### TIVAC. Computer Controlled Steam to Water Heat Exchanger



① Unit: TIVAC. Steam to Water Heat Exchanger



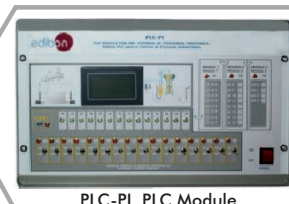
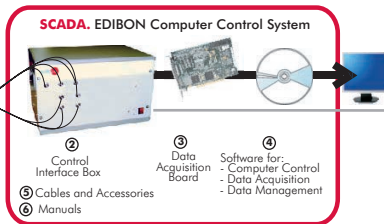
PLC-PI. PLC Module

PLC Control Software for the specific application

#### TFEC. Computer Controlled Flow Boiling Demonstration Unit



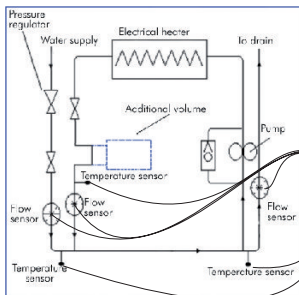
① Unit: TFEC. Flow Boiling Demonstration Unit



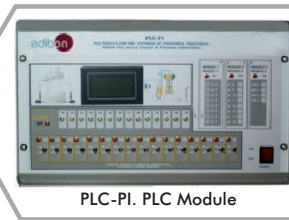
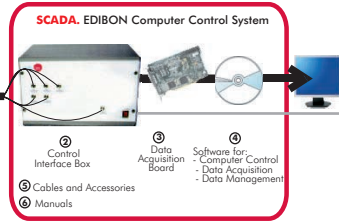
PLC-PI. PLC Module

PLC Control Software for the specific application

#### TRLC. Computer Controlled Recycle Loops Unit



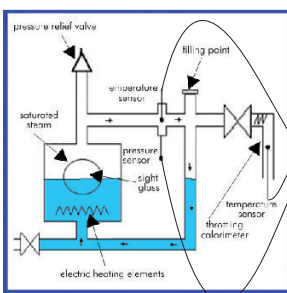
① Unit: TRLC. Recycle Loops Unit



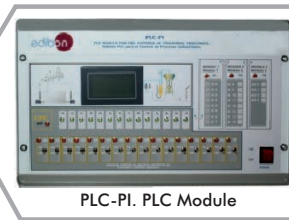
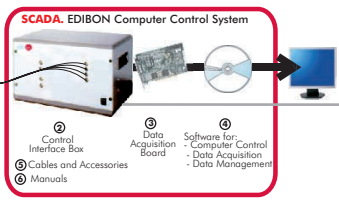
PLC-PI. PLC Module

PLC Control Software for the specific application

#### TSPC. Computer Controlled Saturation Pressure Unit



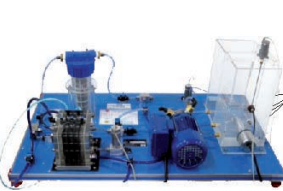
① Unit: TSPC. Saturation Pressure Unit



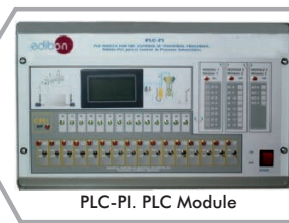
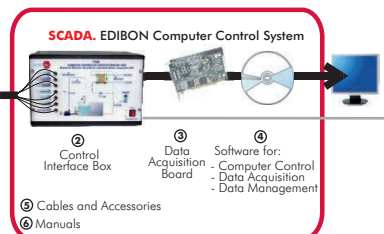
PLC-PI. PLC Module

PLC Control Software for the specific application

#### TFUC. Computer Controlled Batch Filtration Unit



① Unit TFUC. Batch Filtration Unit



PLC-PI. PLC Module

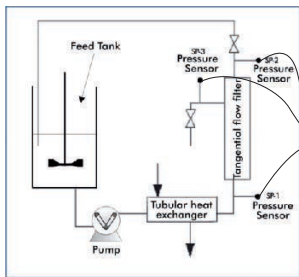
PLC Control Software for the specific application

Units which can use PLC-PI: (continuation)

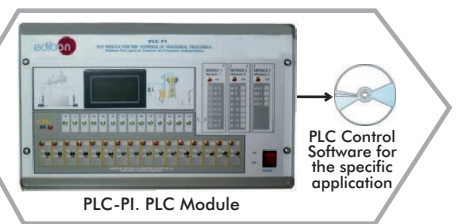
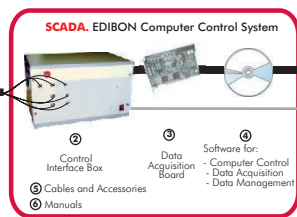
## 9.- Thermodynamics & Thermotechnics

### 9.10.- Heat Transfer (Special)

#### TCFUC. Computer Controlled Continuous Filtration Unit



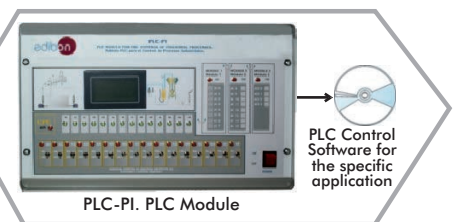
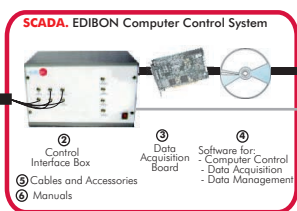
① Unit: TCFUC. Continuous Filtration Unit



#### TEPGC. Computer Controlled Expansion Processes of a Perfect Gas Unit



① Unit: TEPGC. Expansion Processes of a Perfect Gas Unit

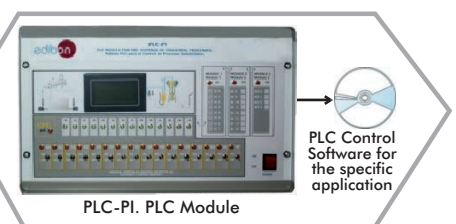
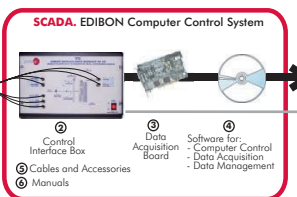


### 9.11.- Nozzles & Steam

#### TFTC. Computer Controlled Nozzle Performance Test Unit



① Unit: TFTC. Nozzle Performance Test Unit

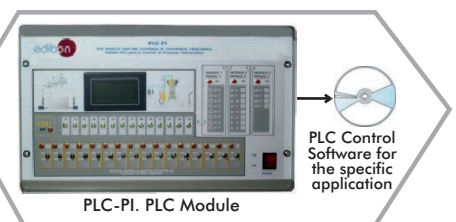
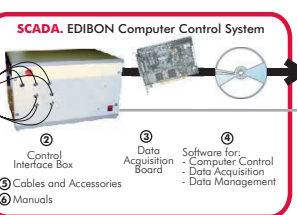


### 9.12.- Combustion

#### TVCC. Computer Controlled Combustion Laboratory Unit



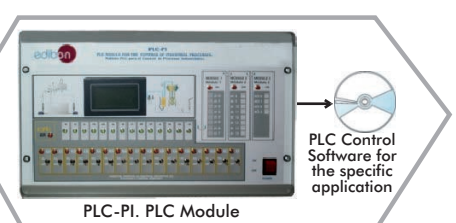
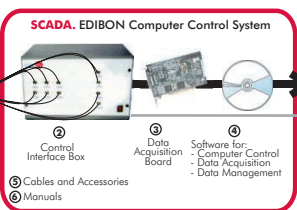
① Unit: TVCC. Combustion Laboratory Unit



#### TVPLC. Computer Controlled Flame Propagation and Stability Unit



① Unit: TVPLC. Flame Propagation and Stability Unit



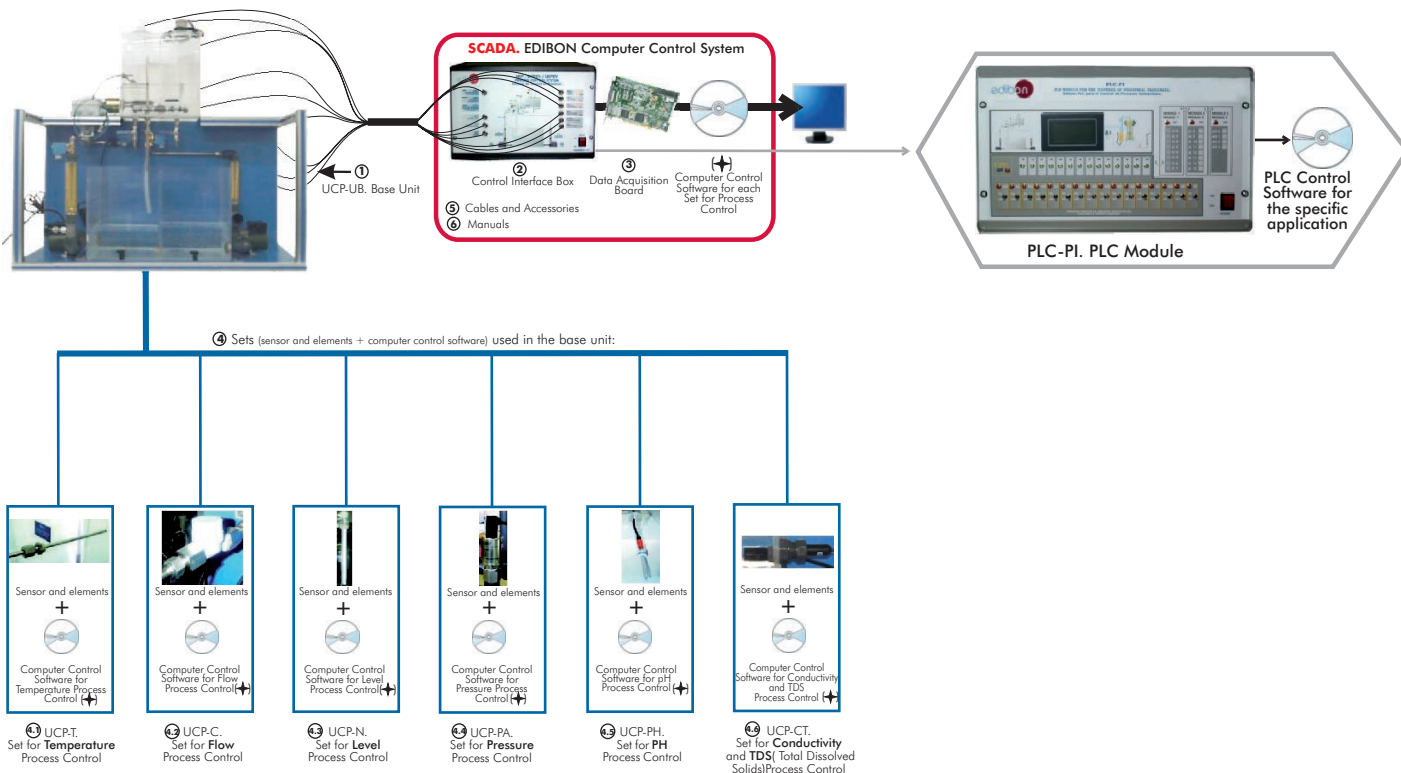
Continue ...

Units which can use PLC-PI: (continuation)

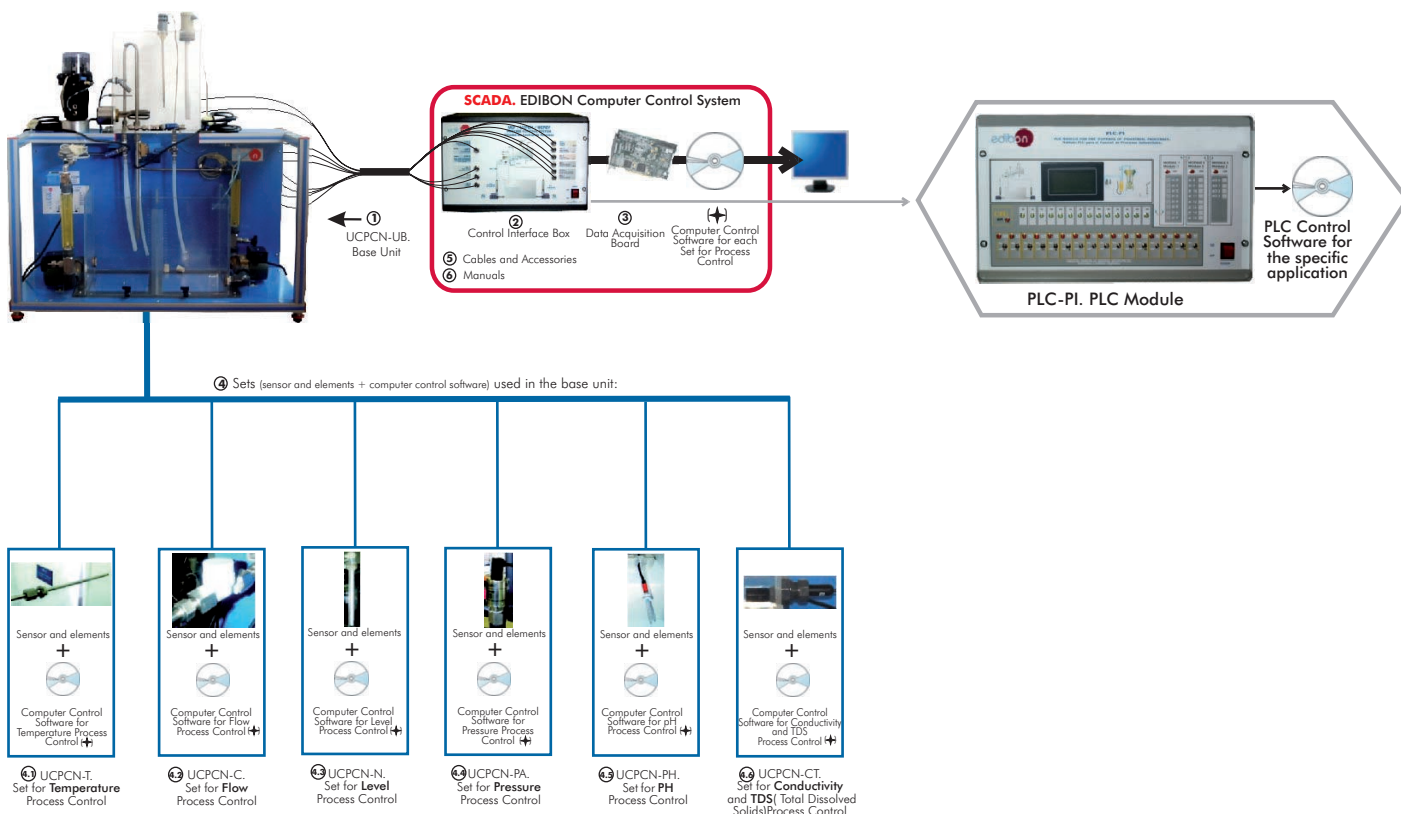
## 10.- Process Control

### 10.1.- Process Control. Fundamentals

UCP. Computer Controlled Process Control System, with electronic control valve :



UCPCN. Computer Controlled Process Control System, with pneumatic control valve :



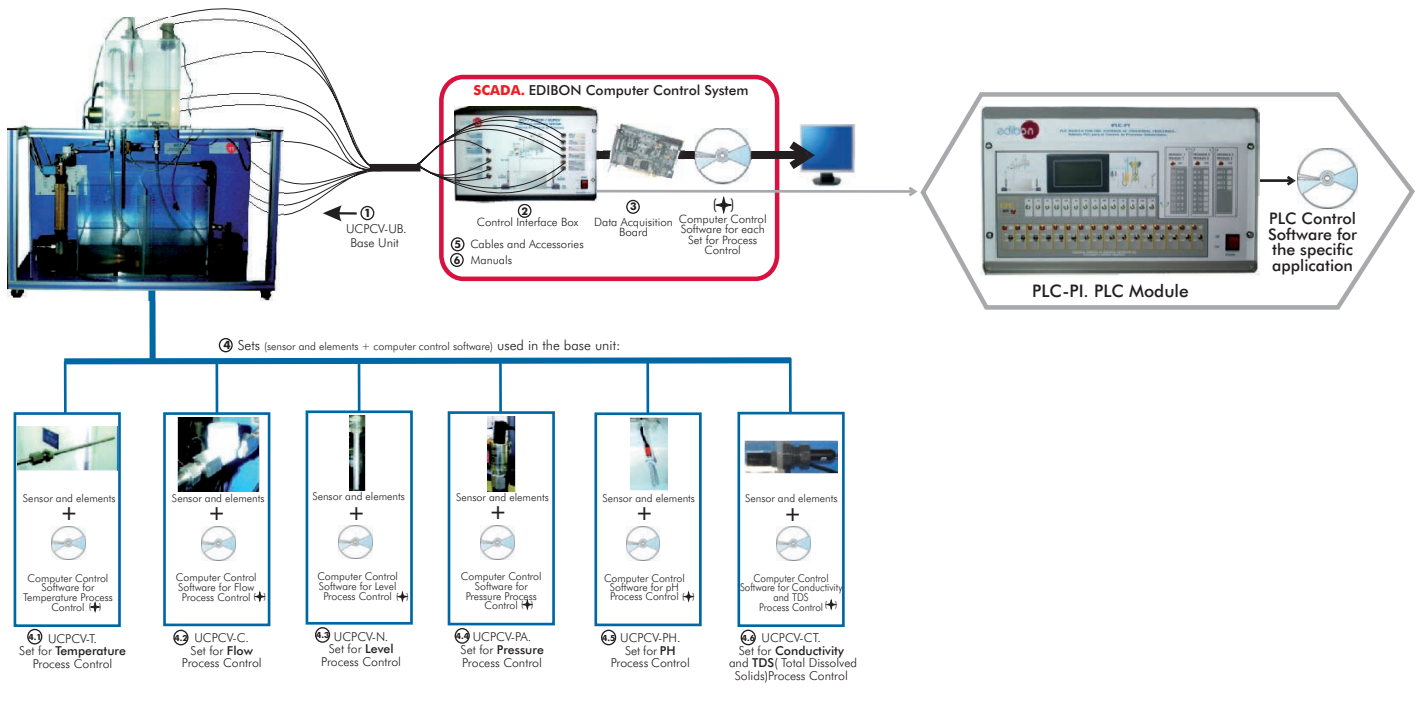
Continue ...

Units which can use PLC-PI: (continuation)

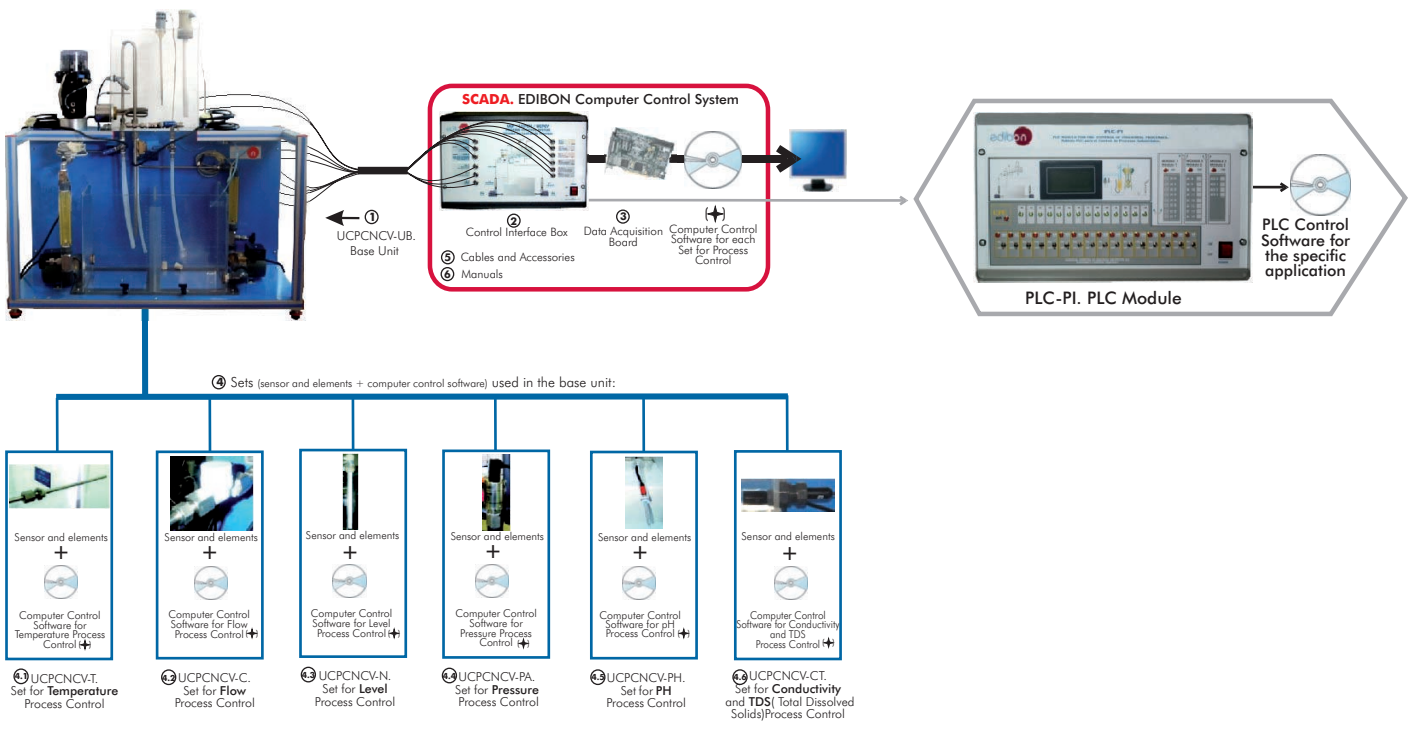
## 10.- Process Control

### 10.1.- Process Control. Fundamentals

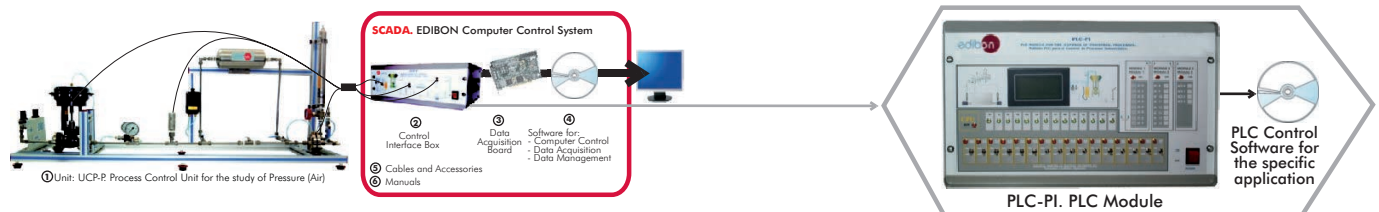
UCPCV. Computer Controlled Process Control System, with speed controller :



UCPCNCV. Computer Controlled Process Control System, with electronic control valve + pneumatic control valve + speed controller :



UCP-P. Computer Controlled Process Control Unit for the Study of Pressure (Air)



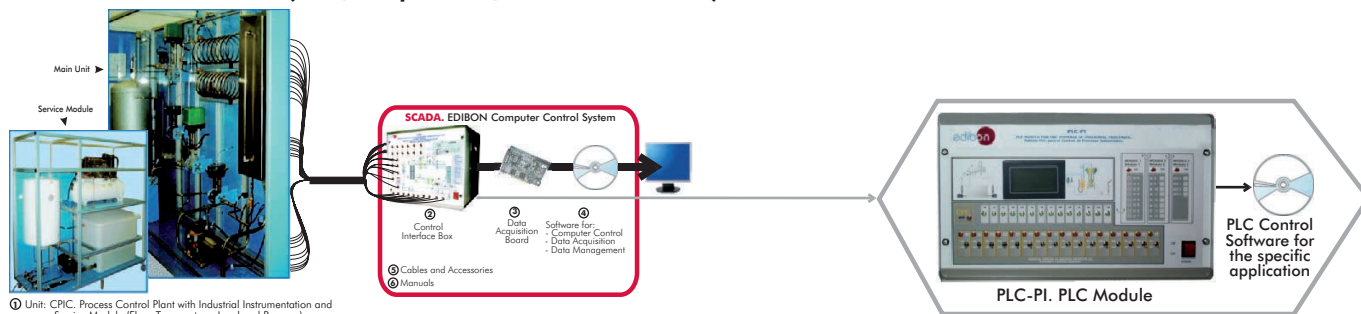
Continue ...

Units which can use PLC-PI: (continuation)

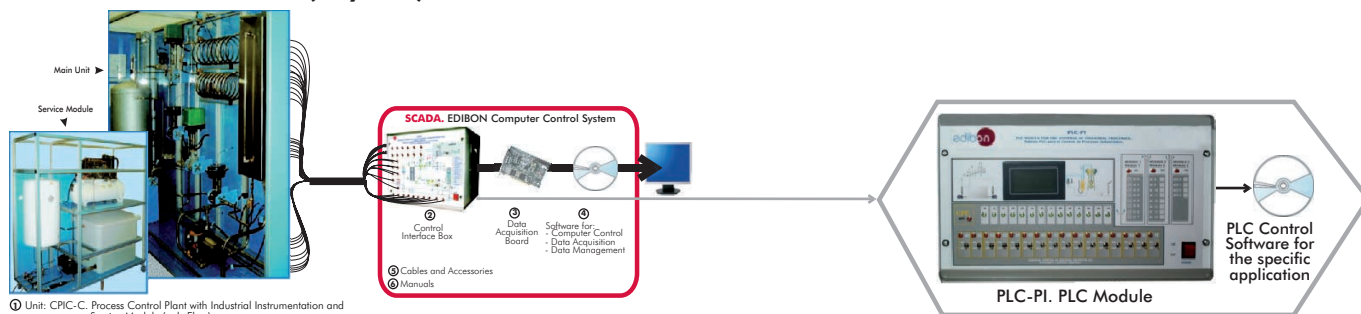
## 10.- Process Control

### 10.2.- Industrial Process Control

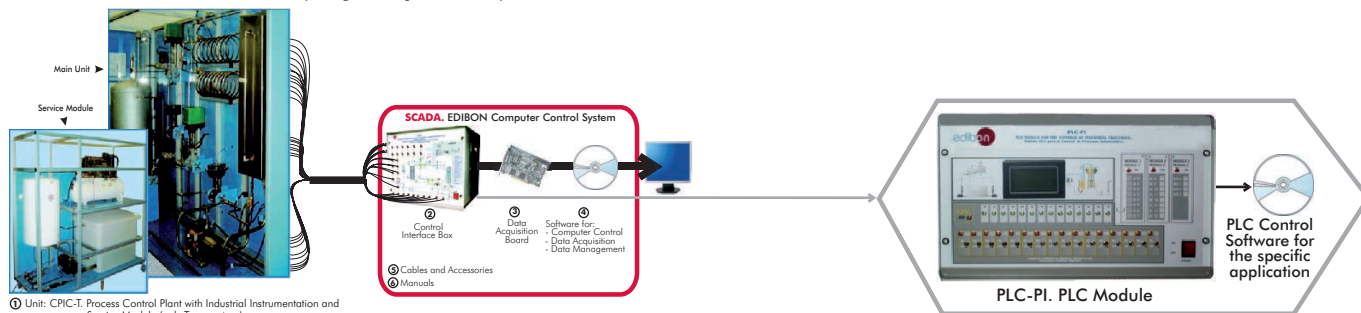
#### CPIC. Computer Controlled Process Control Plant with Industrial Instrumentation and Service Module (Flow, Temperature, Level and Pressure)



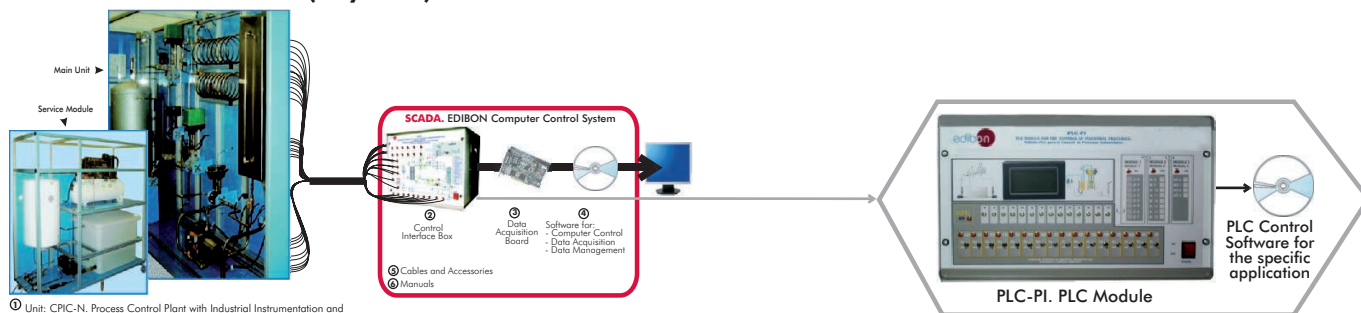
#### CPIC-C. Computer Controlled Process Control Plant with Industrial Instrumentation and Service Module (only Flow)



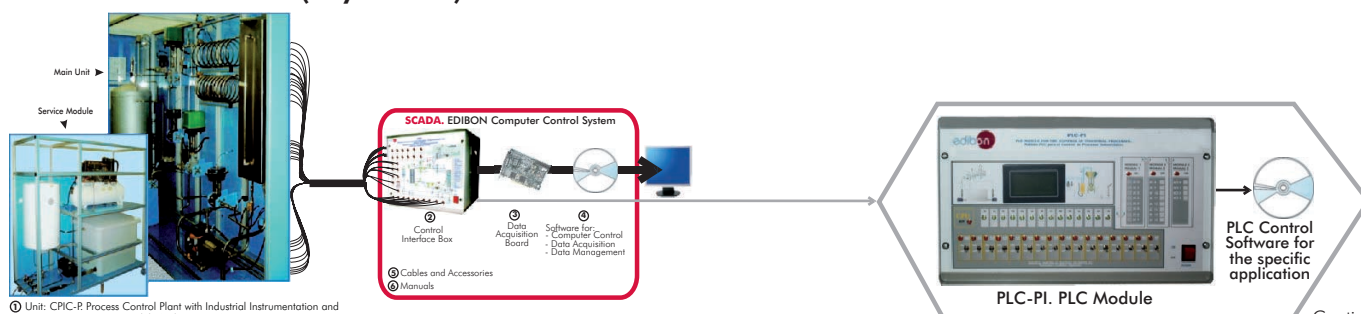
#### CPIC-T. Computer Controlled Process Control Plant with Industrial Instrumentation and Service Module (only Temperature)



#### CPIC-N. Computer Controlled Process Control Plant with Industrial Instrumentation and Service Module (only Level)



#### CPIC-P. Computer Controlled Process Control Plant with Industrial Instrumentation and Service Module (only Pressure)



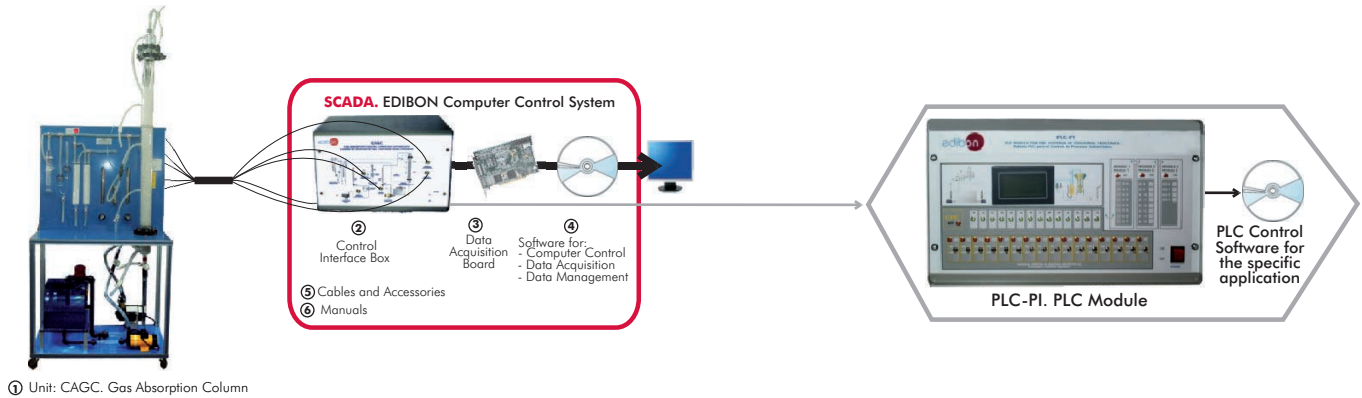
Continue ...

Units which can use PLC-PI: (continuation)

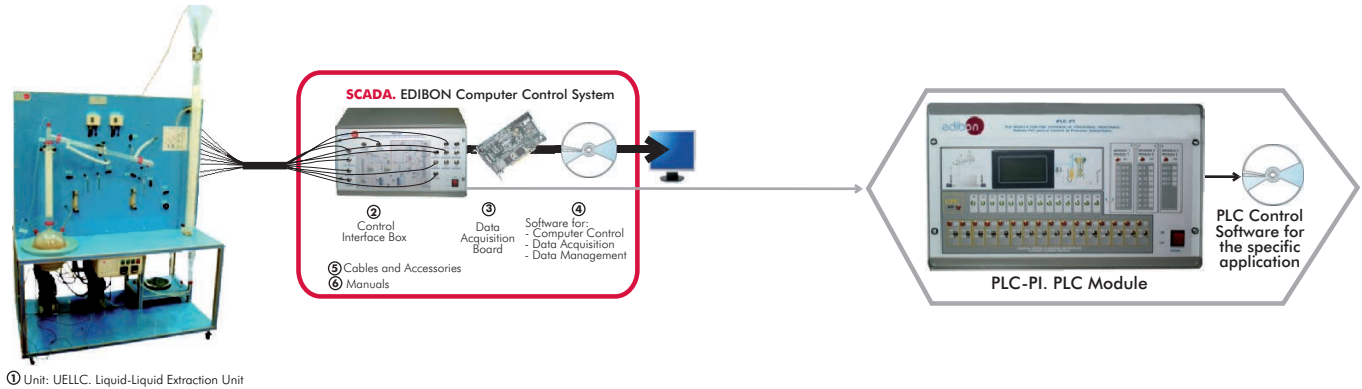
## 11.- Chemical Engineering

### 11.1.- Chemical Engineering (Basic)

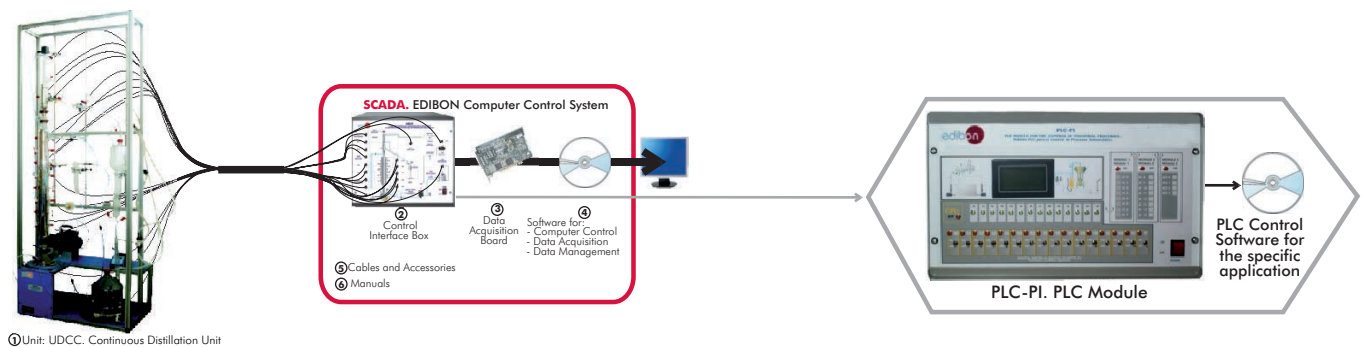
CAGC. Computer Controlled **Gas Absorption Column**



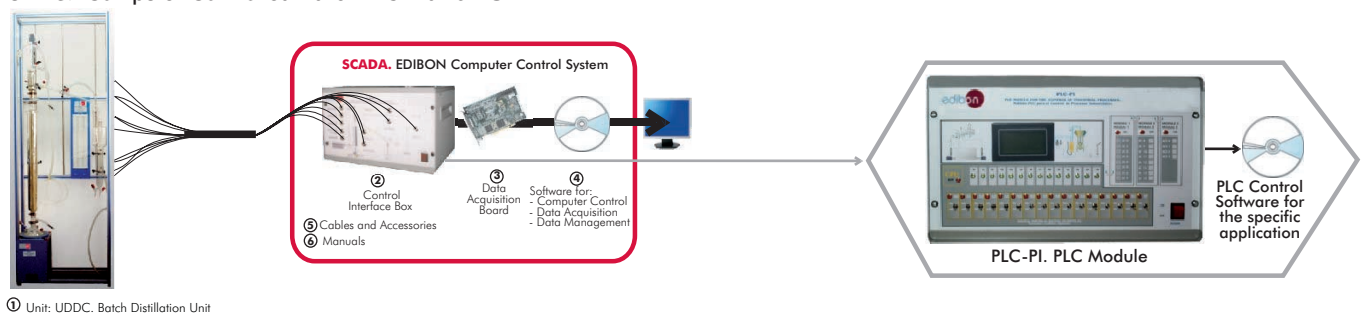
UELL. Computer Controlled **Liquid-Liquid Extraction Unit**



UDCC. Computer Controlled **Continuous Distillation Unit**



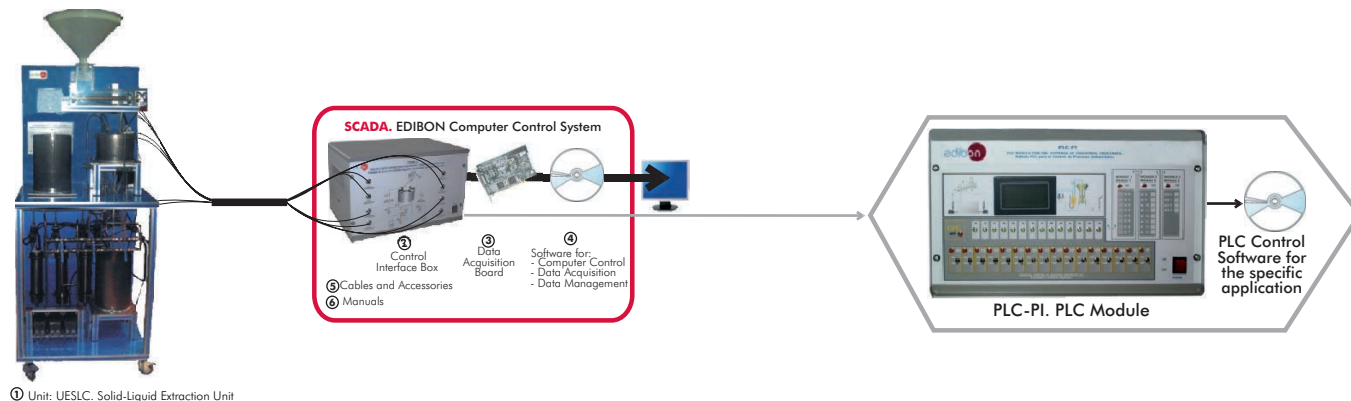
UDDC. Computer Controlled **Batch Distillation Unit**



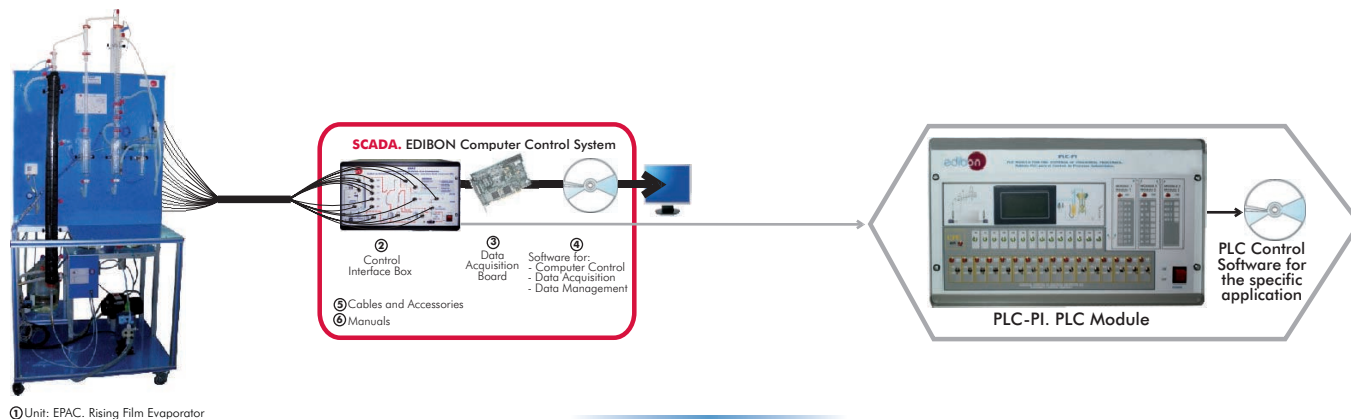
## 11.- Chemical Engineering

### 11.2.- Chemical Engineering (General)

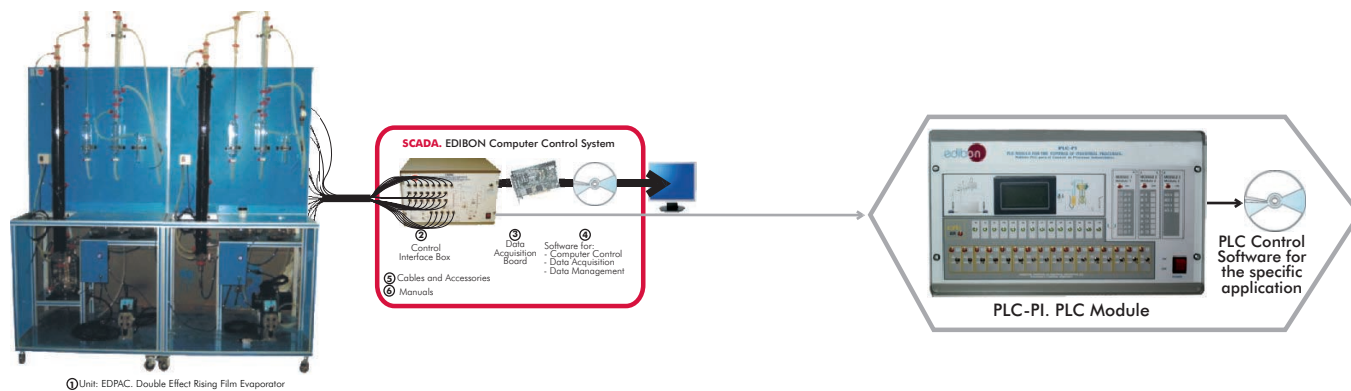
#### UESLC. Computer Controlled Solid-Liquid Extraction Unit



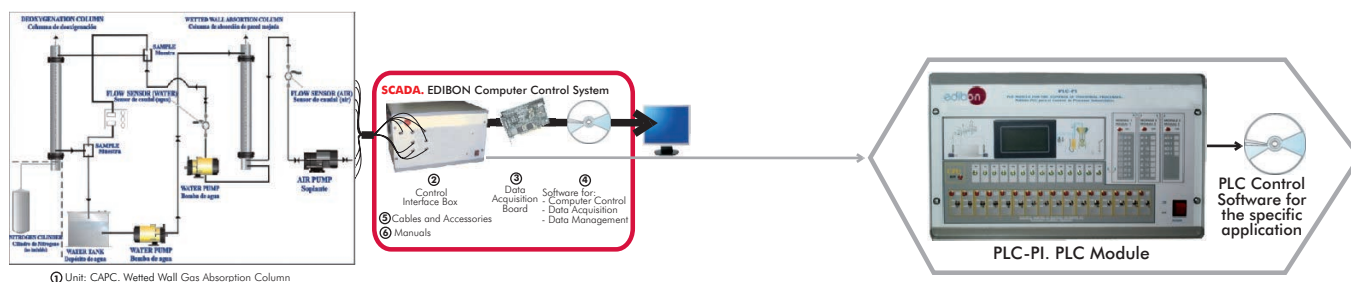
#### EPAC. Computer Controlled Rising Film Evaporator



#### EDPAC. Computer Controlled Double Effect Rising Film Evaporator



#### CAPC. Computer Controlled Wetted Wall Gas Absorption Column

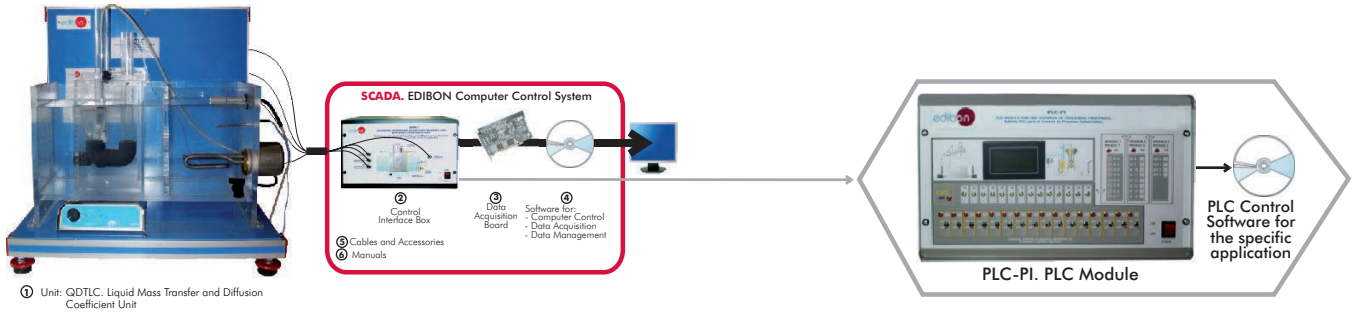


Units which can use PLC-PI: (continuation)

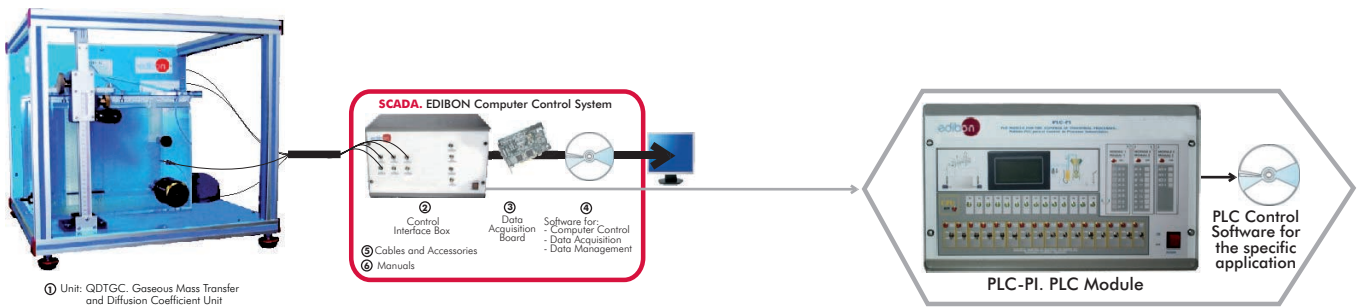
## 11.- Chemical Engineering

### 11.2.- Chemical Engineering (General)

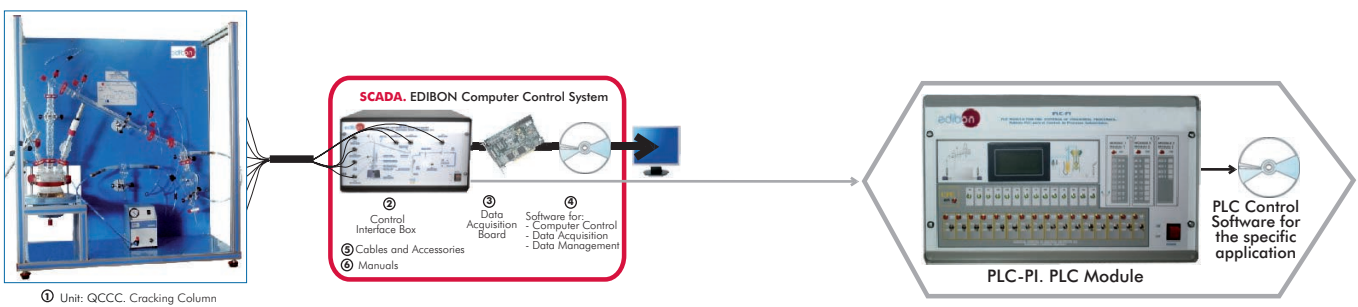
#### QDTLC. Computer Controlled Liquid Mass Transfer and Diffusion Coefficient Unit



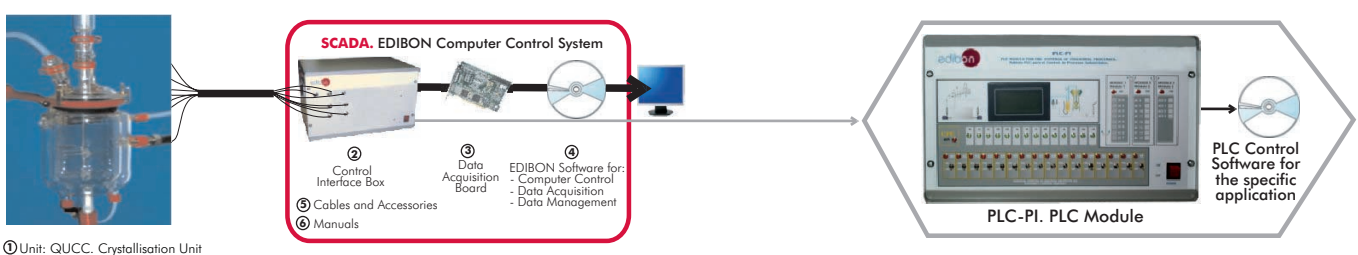
#### QDTGC. Computer Controlled Gaseous Mass Transfer and Diffusion Coefficient Unit



#### QCCC. Computer Controlled Cracking Column



#### QUCC. Computer Controlled Crystallisation Unit

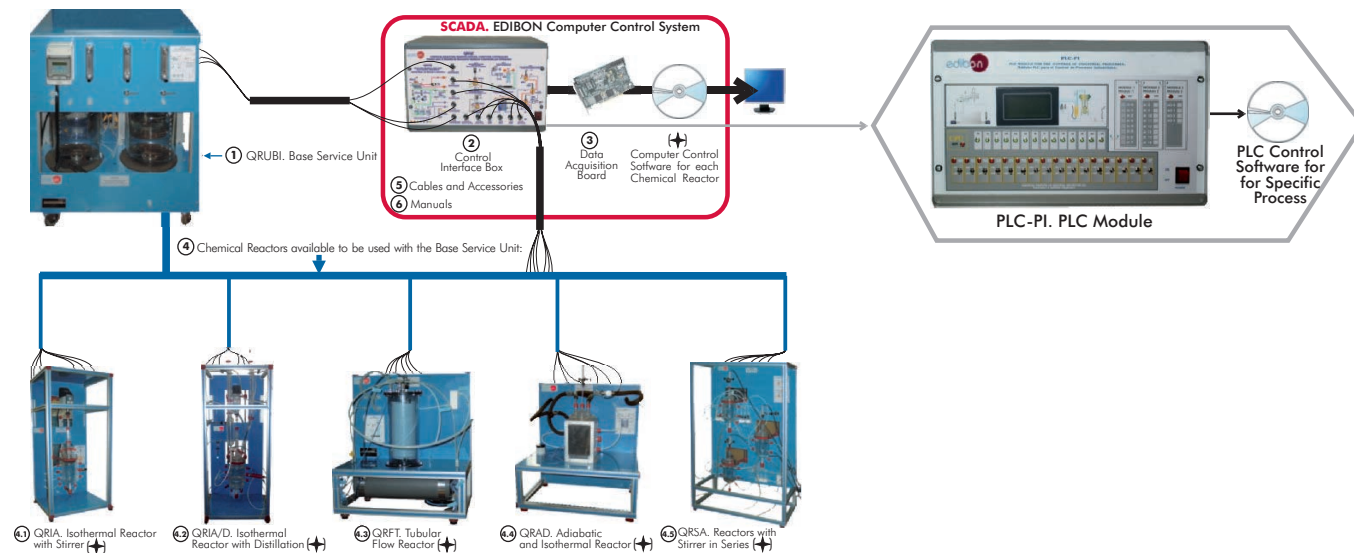




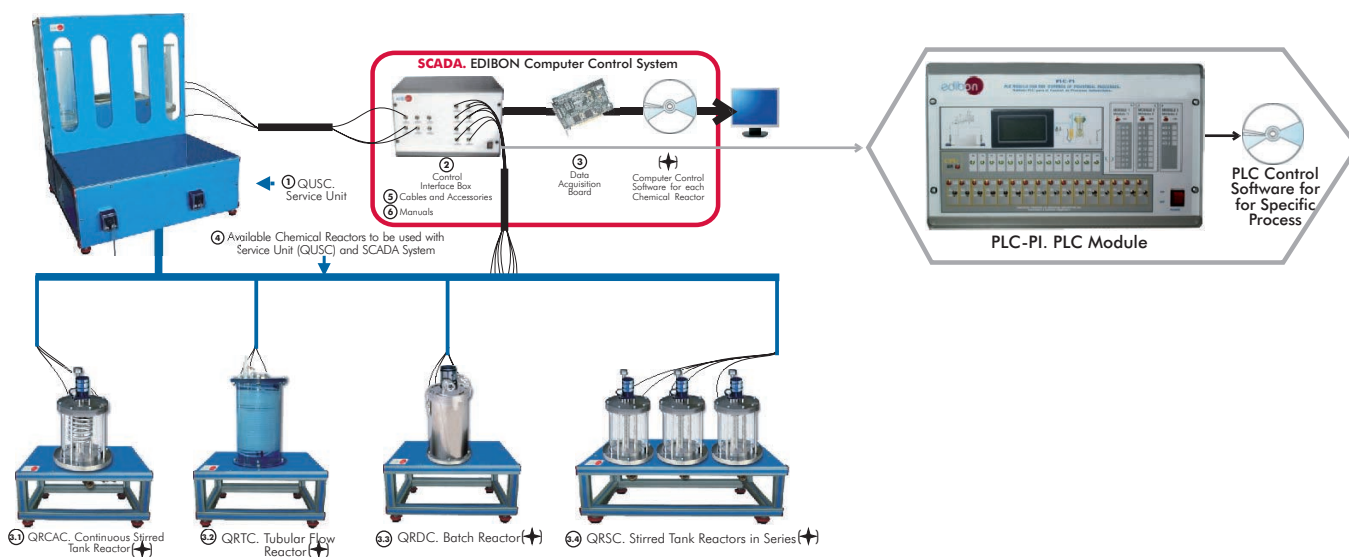
## 11.- Chemical Engineering

### 11.3.- Chemical Reactors

#### QRQC. Computer Controlled Chemical Reactors Training System:

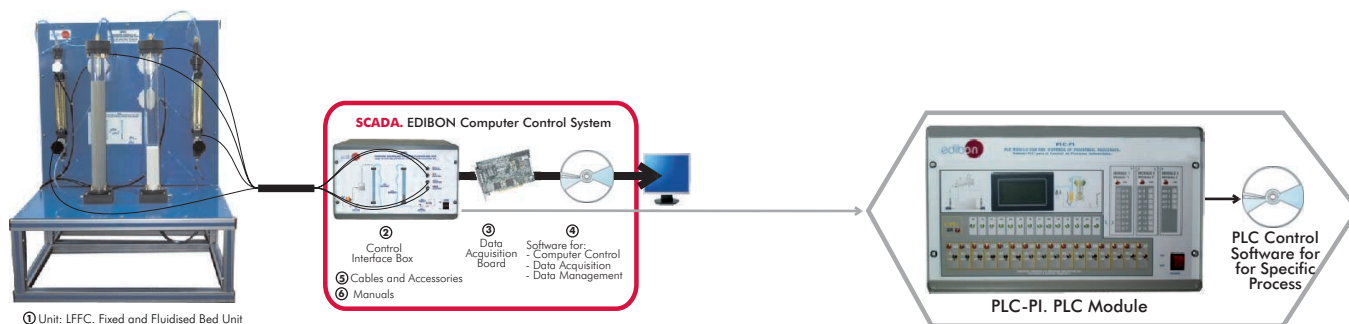


#### QRC. Computer Controlled Chemical Reactors Trainer:



### 11.4.- Chemical Process

#### LFCC. Computer Controlled Fixed and Fluidised Bed Unit



Units which can use PLC-PI: (continuation)

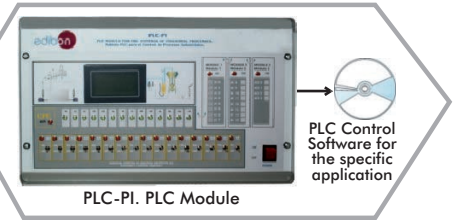
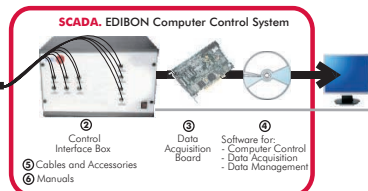
## 11.- Chemical Engineering

### 11.4.- Chemical Process

#### QEDC. Computer Controlled Batch Solvent Extraction and Desolventising Unit

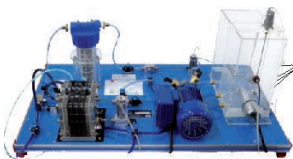


① Unit: QEDC. Batch Solvent Extraction and Desolventising Unit

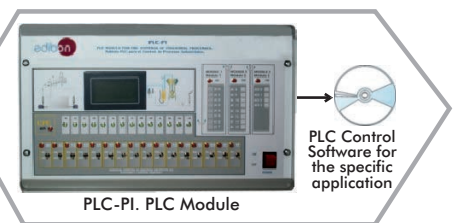
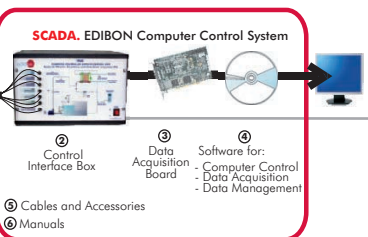


PLC-PI. PLC Module

#### TFUC. Computer Controlled Batch Filtration Unit

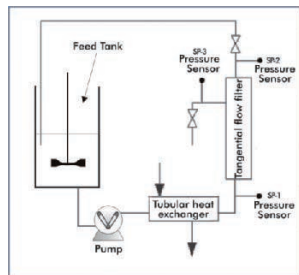


① Unit TFUC. Batch Filtration Unit

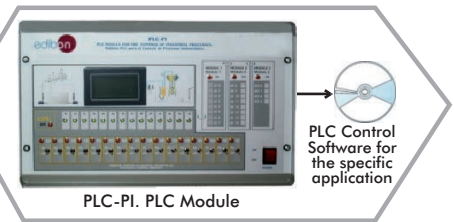
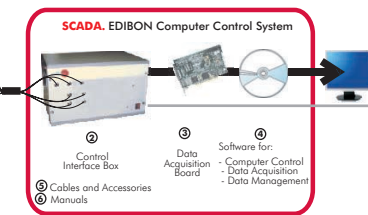


PLC-PI. PLC Module

#### TCFUC. Computer Controlled Continuous Filtration Unit



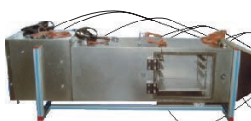
① Unit: TCFUC. Continuous Filtration Unit



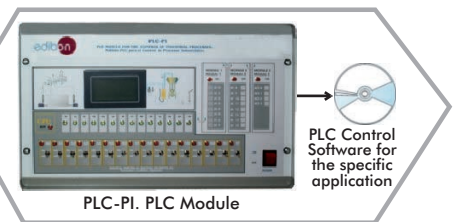
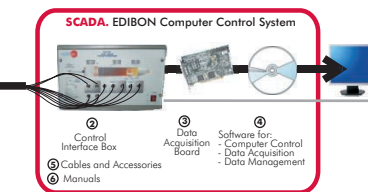
PLC-PI. PLC Module

### 11.5.- Chemical Process (Agronomical Industry)

#### SBANC. Computer Controlled Tray Drier



① Unit: SBANC. Tray Drier

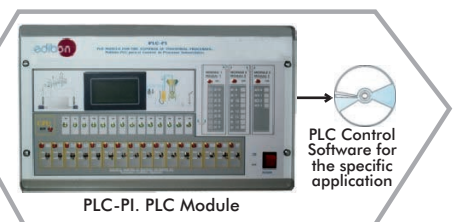
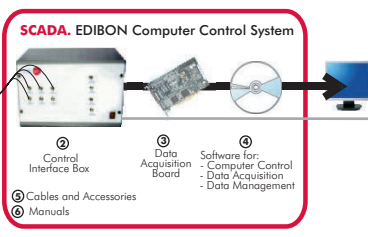


PLC-PI. PLC Module

#### SSPC. Computer Controlled Spray Drier



① Unit: SSPC. Spray Drier



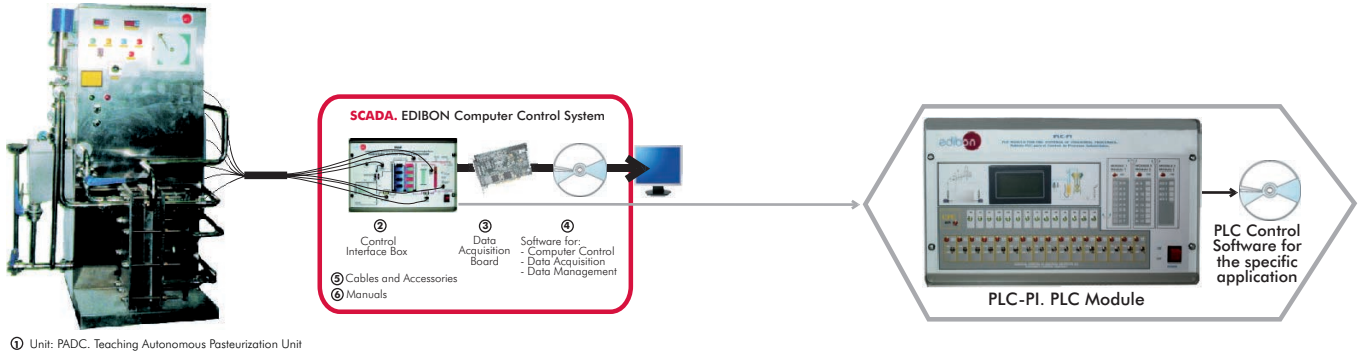
PLC-PI. PLC Module

Units which can use PLC-PI: (continuation)

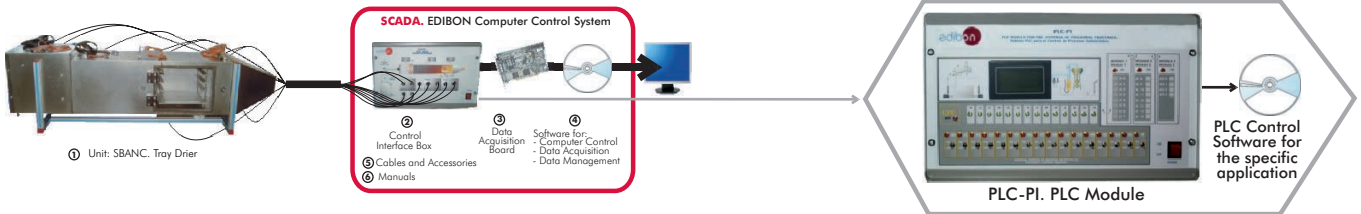
## 12.- Food & Water Technologies

### 12.1.- Food Technology (Basic)

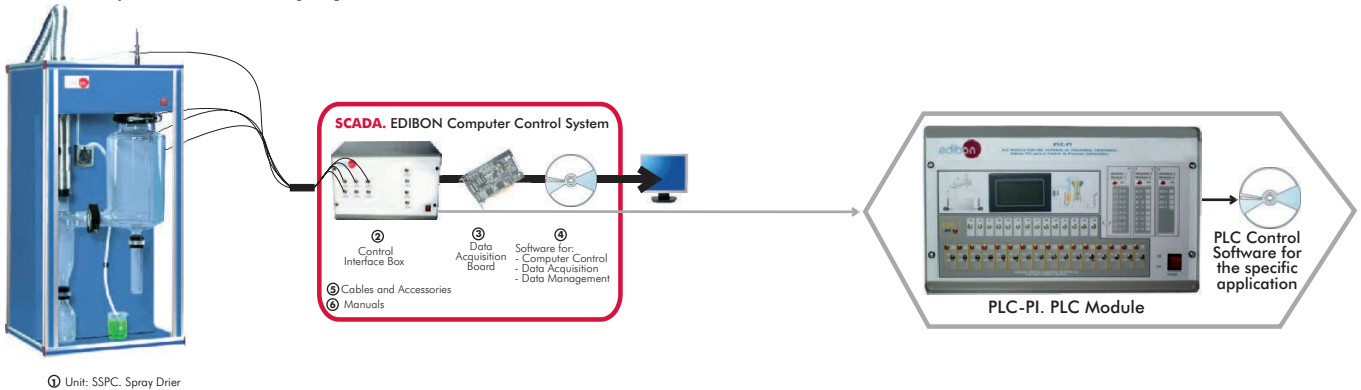
#### PADC. Computer Controlled Teaching Autonomous Pasteurization Unit



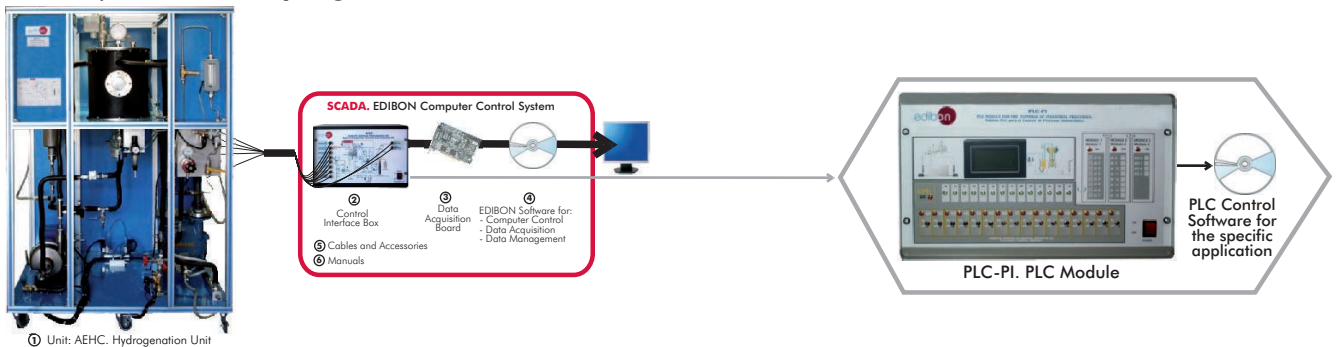
#### SBANC. Computer Controlled Tray Drier



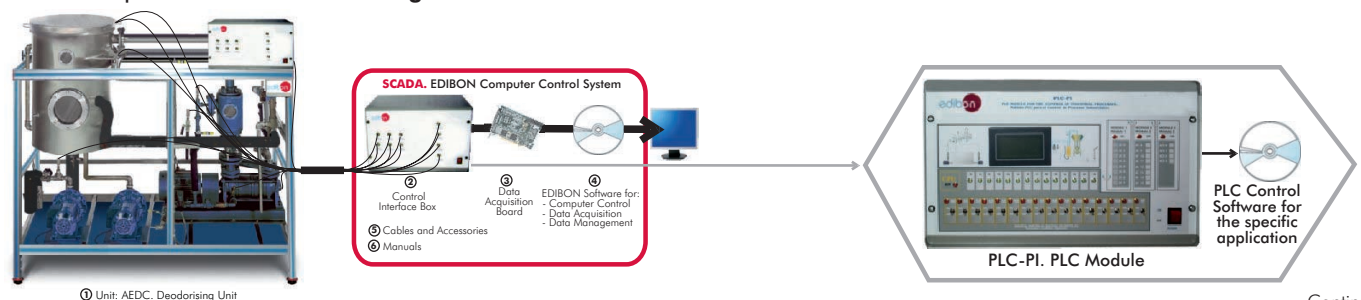
#### SSPC. Computer Controlled Spray Drier



#### AEHC. Computer Controlled Hydrogenation Unit



#### AEDC. Computer Controlled Deodorising Unit



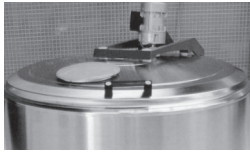
Continue ...

Units which can use PLC-PI: (continuation)

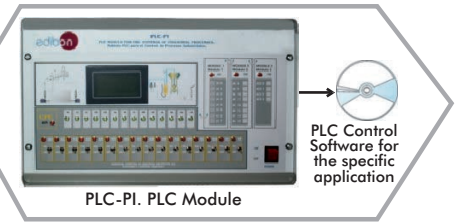
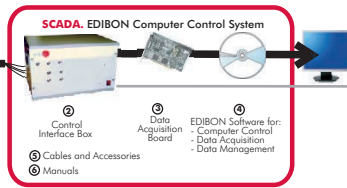
## 12.- Food & Water Technologies

### 12.1.- Food Technology (Basic)

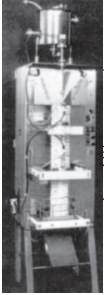
#### TFDC. Computer Controlled Teaching Frigorific Tank



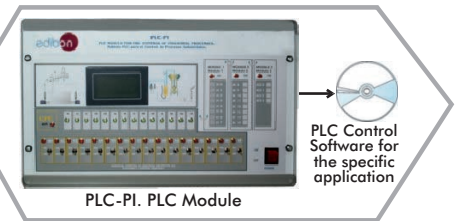
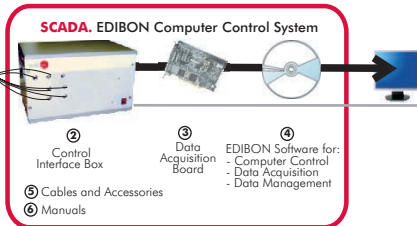
① Unit: TFDC. Teaching Frigorific Tank



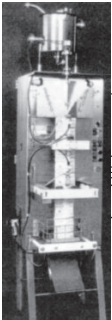
#### EDLC. Computer Controlled Teaching Machine for Putting in Plastic Packing Liquids



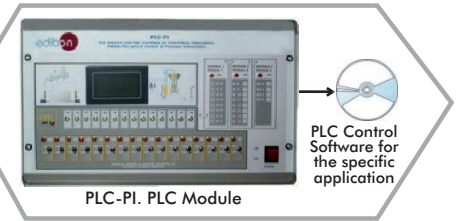
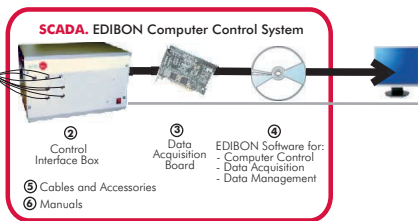
① Unit: EDLC. Teaching Machine for Putting in Plastic Packing Liquids



#### EDSC. Computer Controlled Teaching Machine for Putting into a Container Solids



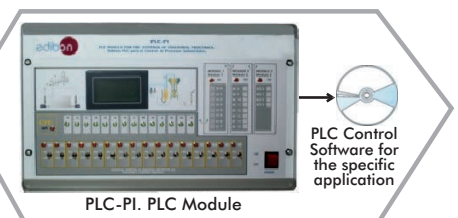
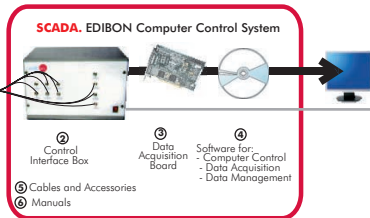
① Unit: EDSC. Teaching Machine for Putting into a Container Solids



#### ROUC. Computer Controlled Reverse Osmosis/Ultrafiltration Unit



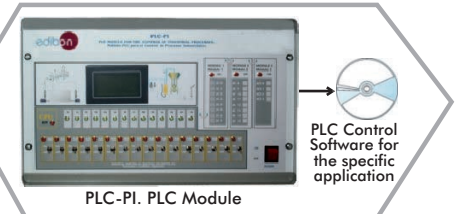
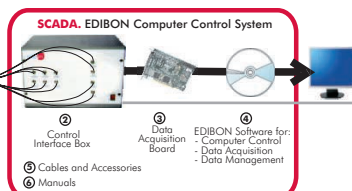
① Unit: ROUC. Reverse Osmosis/Ultrafiltration Unit



#### VPMC. Computer Controlled Multipurpose Processing Vessel



① Unit: VPMC. Multipurpose Processing Vessel

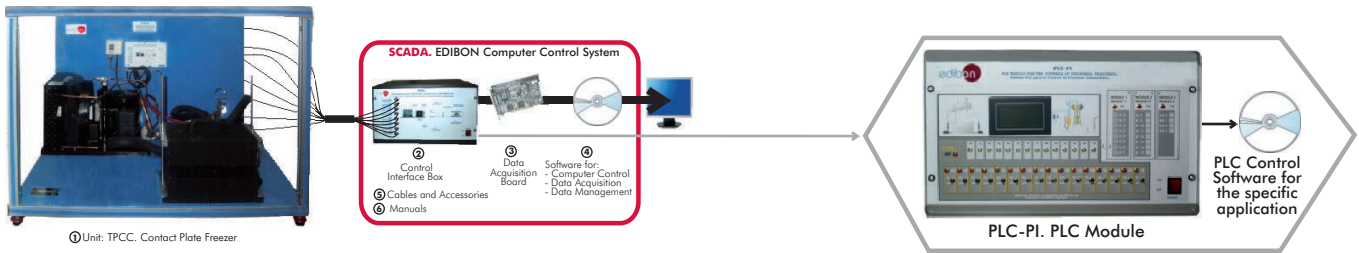


Units which can use PLC-PI: (continuation)

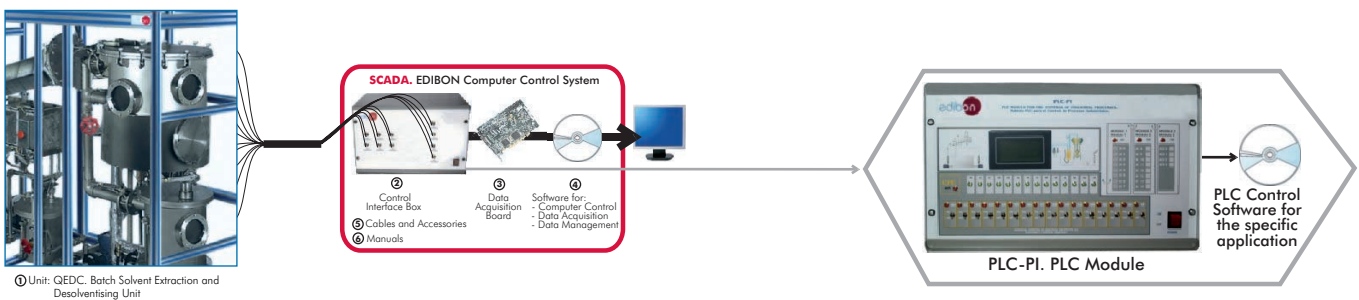
## 12.- Food & Water Technologies

### 12.1.- Food Technology (Basic)

#### TPCC. Computer Controlled Contact Plate Freezer

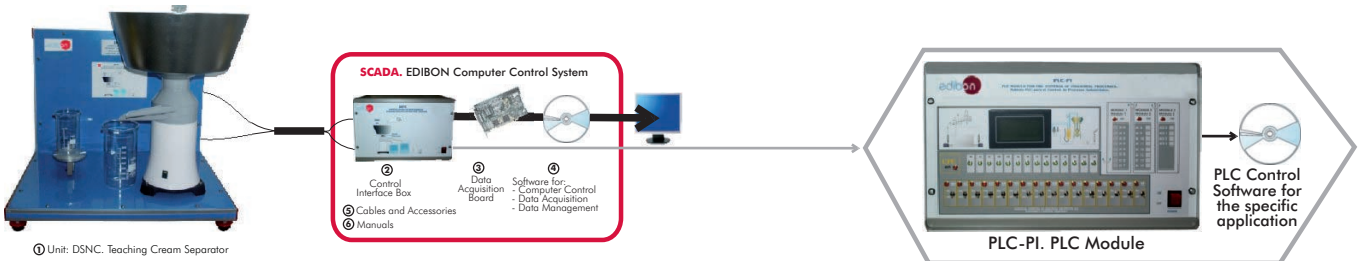


#### QEDC. Computer Controlled Batch Solvent Extraction and Desolventising Unit

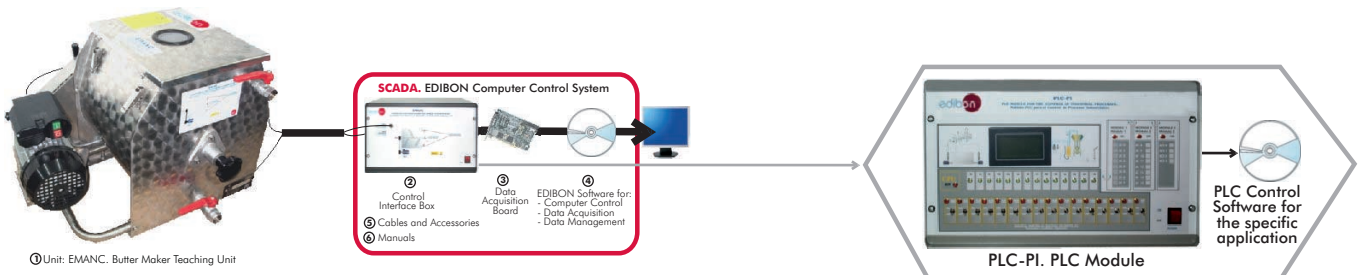


### 12.2.- Food Technology (Milk)

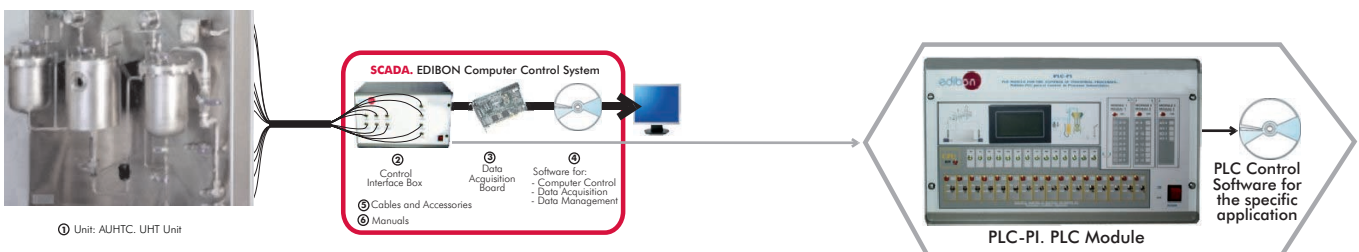
#### DSNC. Computer Controlled Teaching Cream Separator



#### EMANC. Computer Controlled Butter Maker Teaching Unit



#### AUHTC. Computer Controlled UHT Unit



Units which can use PLC-PI: (continuation)

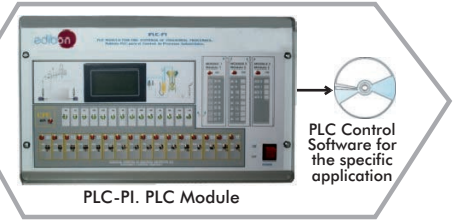
## 12.- Food & Water Technologies

### 12.2.- Food Technology (Milk)

#### CCDC. Computer Controlled Teaching Curdled Tank



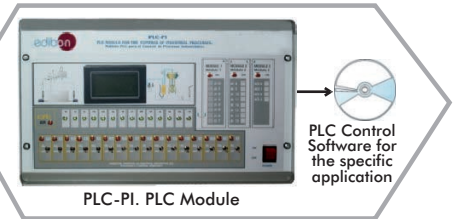
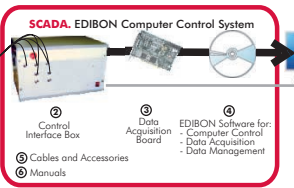
① Unit: CCDC. Teaching Curdled Tank



#### PVQC. Computer Controlled Teaching Cheese Vertical Press



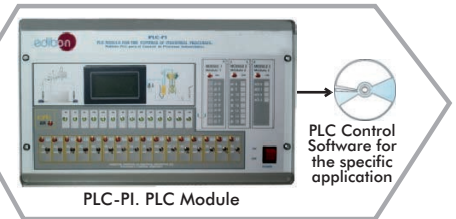
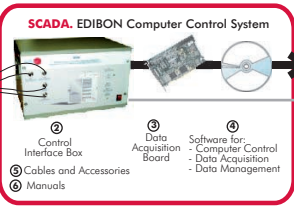
① Unit: PVQC. Teaching Cheese Vertical Press



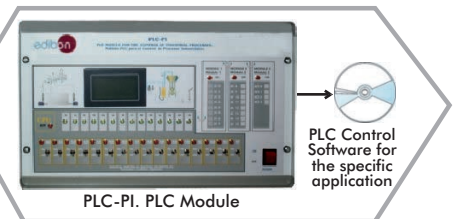
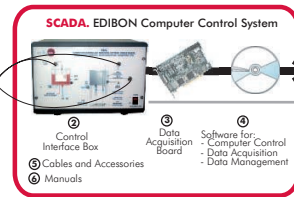
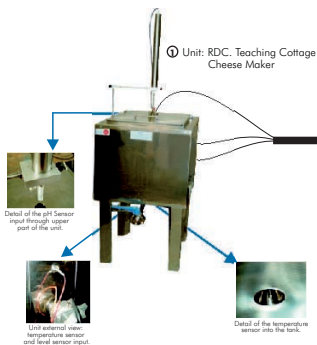
#### IYDC. Computer Controlled Teaching Yogurt Incubator



① Unit: IYDC. Teaching Yogurt Incubator



#### RDC. Computer Controlled Teaching Cottage Cheese Maker

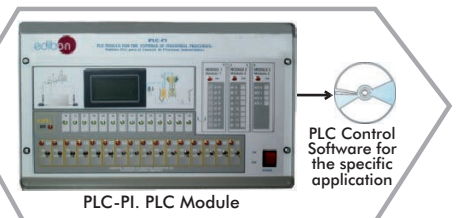
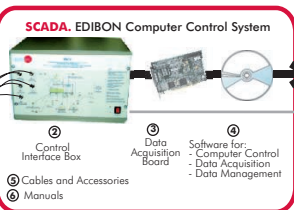


### 12.3.- Food Technology (Oil)

#### PACC. Computer Controlled Continuous Cycle Oil Production Plant



① Unit: PACC. Continuous Cycle Oil Production Plant

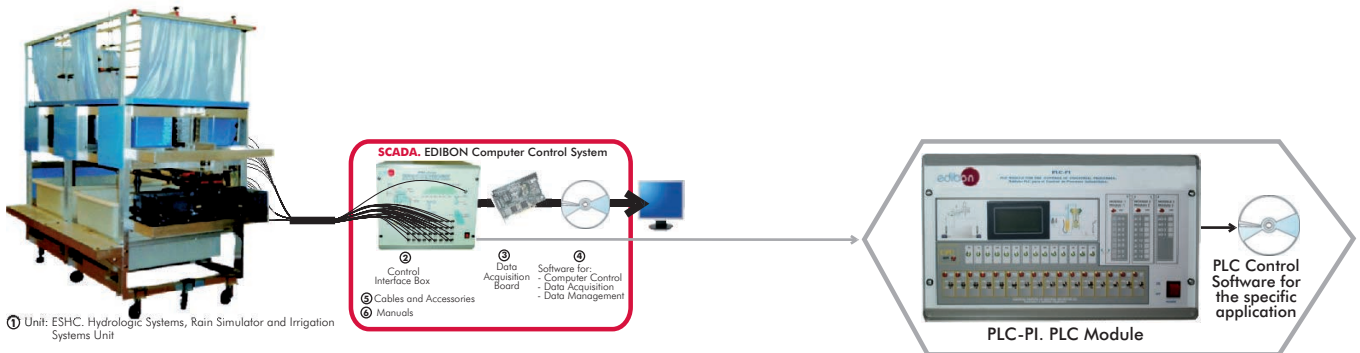


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### 13.- Environment

#### 13.1.- Water Handling

##### ESHC. Computer Controlled Hydrologic Systems, Rain Simulator and Irrigation Systems Unit

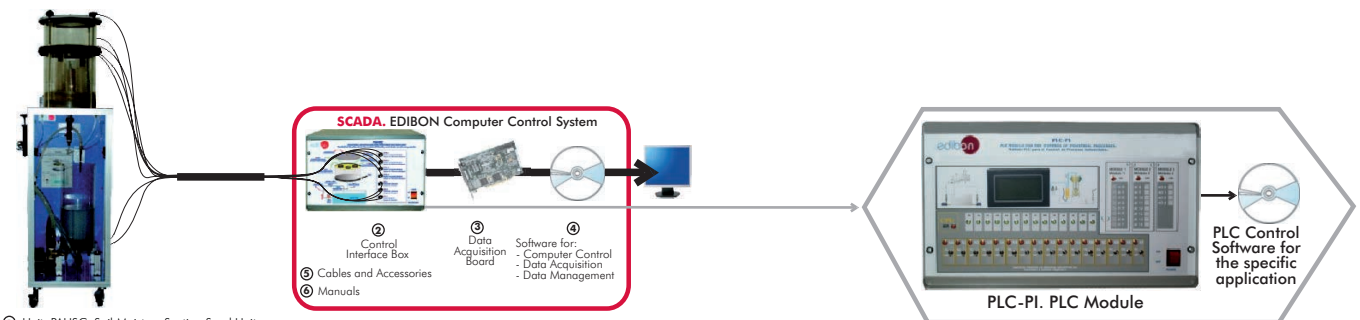


① Unit: ESHC. Hydrologic Systems, Rain Simulator and Irrigation Systems Unit

Available versions:

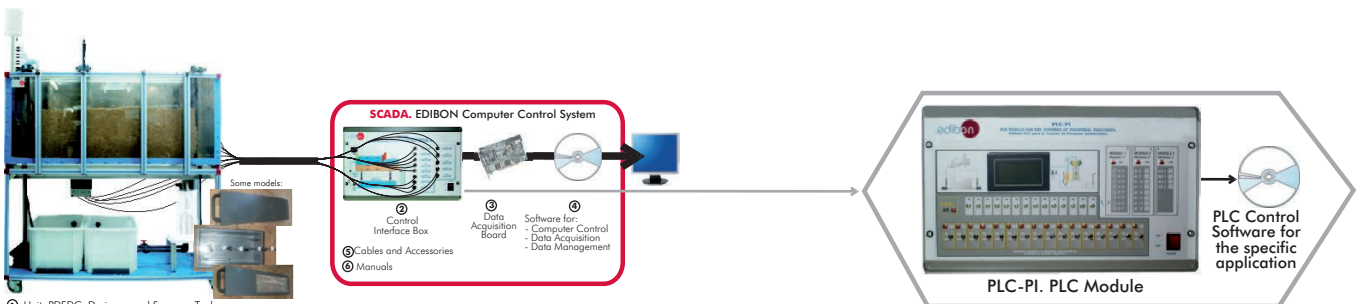
- ESHC (2x1m). Hydrologic Systems, Rain Simulator and Irrigation Systems Unit (2x1m).
- ESHC (4x2m). Hydrologic Systems, Rain Simulator and Irrigation Systems Unit (4x2m).

##### PAHSC. Computer Controlled Soil Moisture Suction Sand Unit



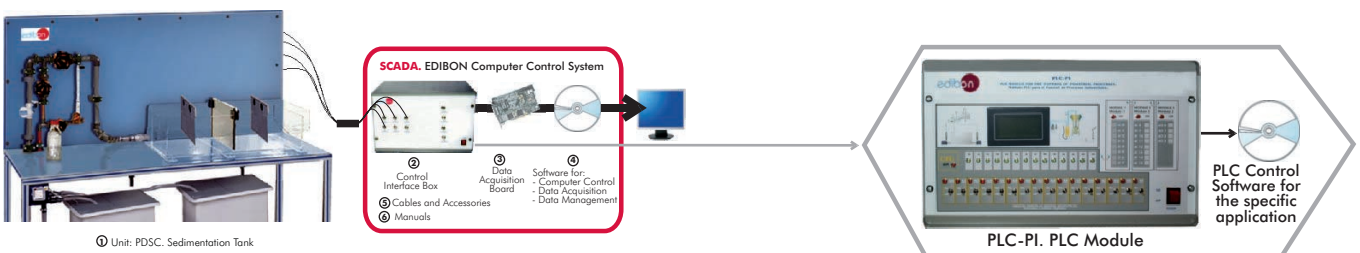
① Unit: PAHSC. Soil Moisture Suction Sand Unit

##### PDFDC. Computer Controlled Drainage and Seepage Tank



① Unit: PDFDC. Drainage and Seepage Tank

##### PDSC. Computer Controlled Sedimentation Tank



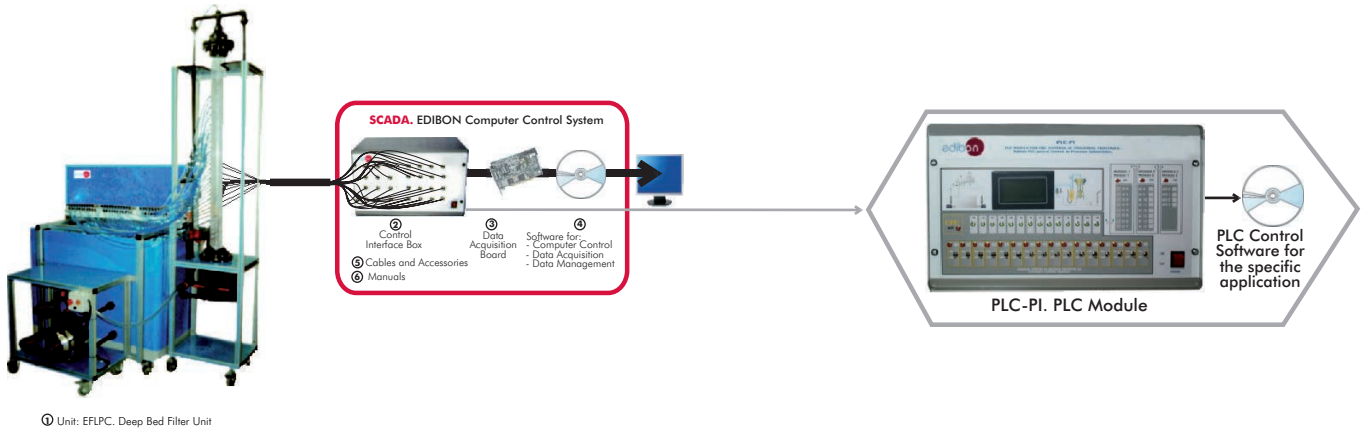
① Unit: PDSC. Sedimentation Tank

Units which can use PLC-PI: (continuation)

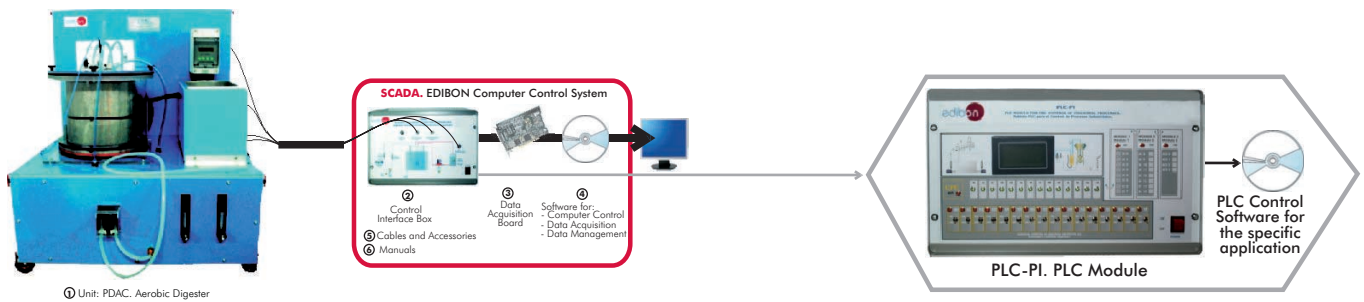
### 13.- Environment

#### 13.2.- Water Treatment

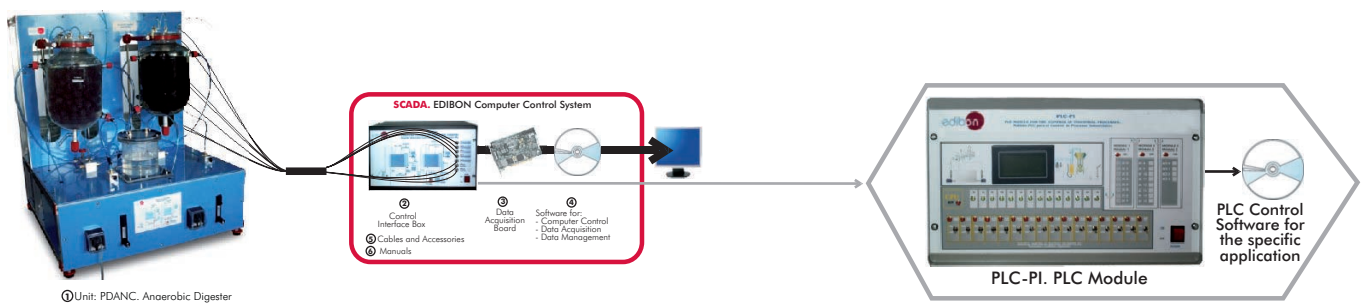
##### EFLPC. Computer Controlled Deep Bed Filter Unit



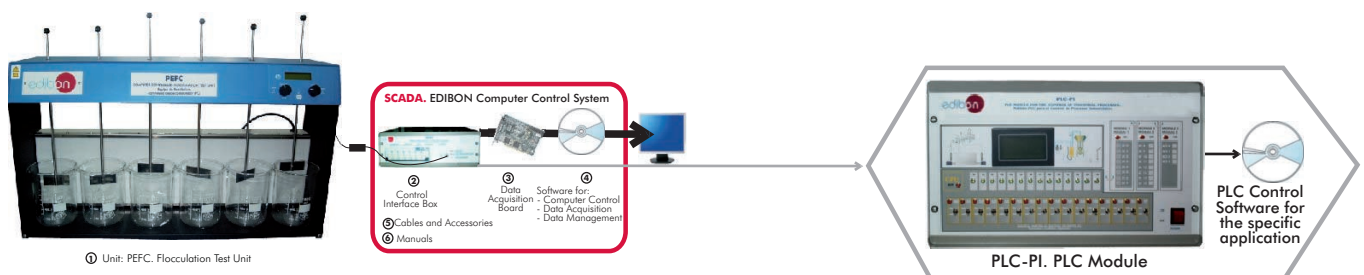
##### PDAC. Computer Controlled Aerobic Digester



##### PDANC. Computer Controlled Anaerobic Digester



##### PEFC. Computer Controlled Flocculation Test Unit





Units which can use PLC-PI: (continuation)

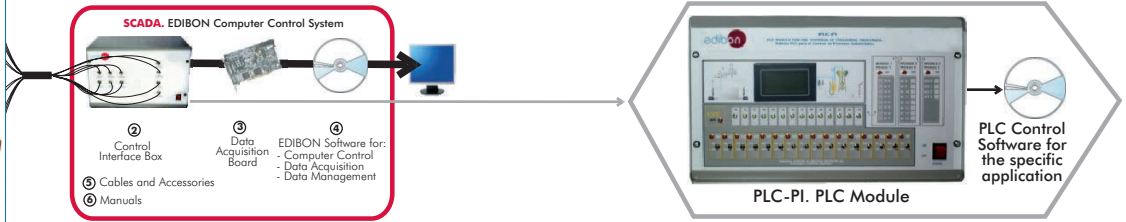
### 13.- Environment

#### 13.2.- Water Treatment

PEAIC. Computer Controlled Aeration Unit



① Unit: PEAIC. Aeration Unit



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



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Date: November/2009

REPRESENTATIVE:

