



# PNEUMATE-200

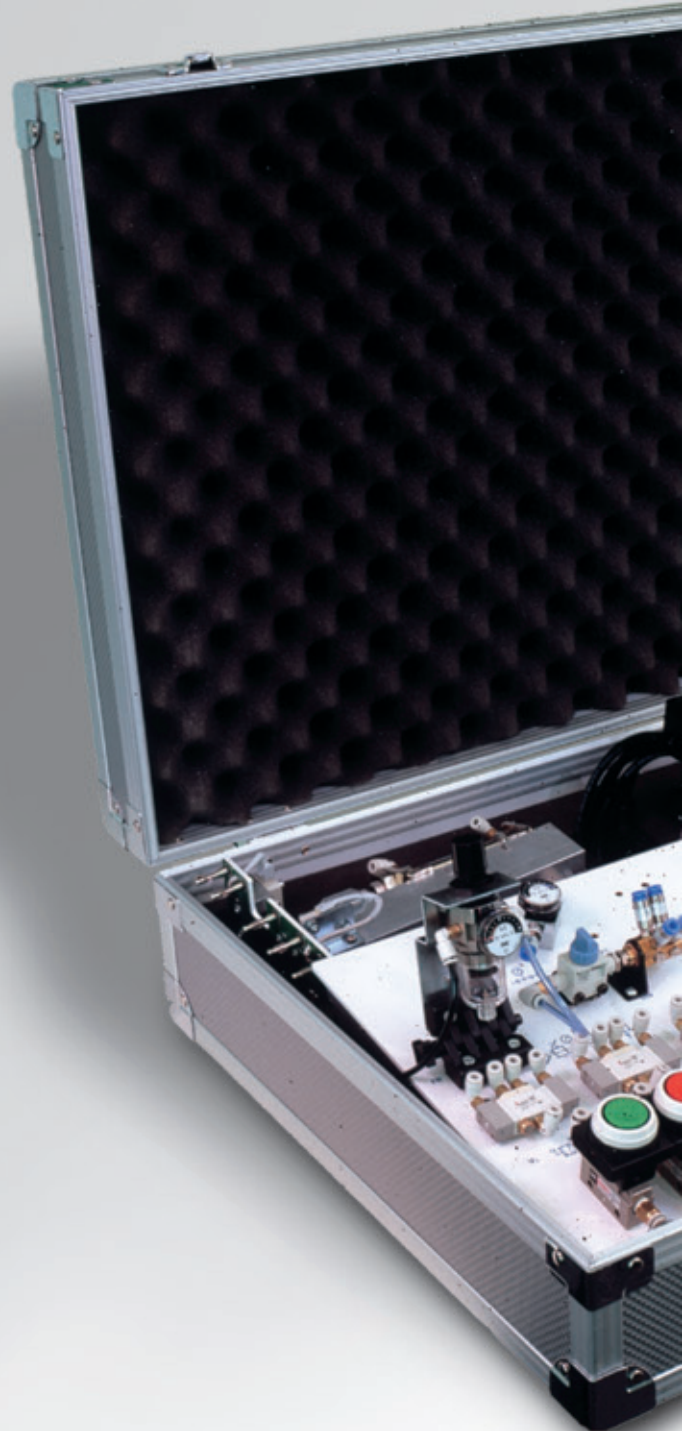
Your mate in Pneumatics!

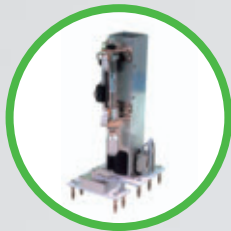


PNEUMATE-200 represents the ideal method for familiarizing the user with pneumatic and electro-pneumatic technologies.

Small-sized, light and portable training equipment that includes extensive features which provide an enjoyable and rapid way of acquiring the fundamental concepts of pneumatics and electro-pneumatics.

Ready for use any time and anywhere.





• Ref. SAI2702:	PNEUMATE-200 option A + English documentation (manual and CD)
• Ref. SAI2712:	PNEUMATE-200 option B + English documentation (manual and CD)
• Ref. SAI2722:	PNEUMATE-200 option C + English documentation (manual and CD)
• Ref. SAI2732:	PNEUMATE-200 option D + English documentation (manual and CD)
• Ref. SAI2742:	PNEUMATE-200 option E + English documentation (manual and CD)
• Ref. SAI2747:	English documentation (manual and CD)





## Your mate in pneumatics!

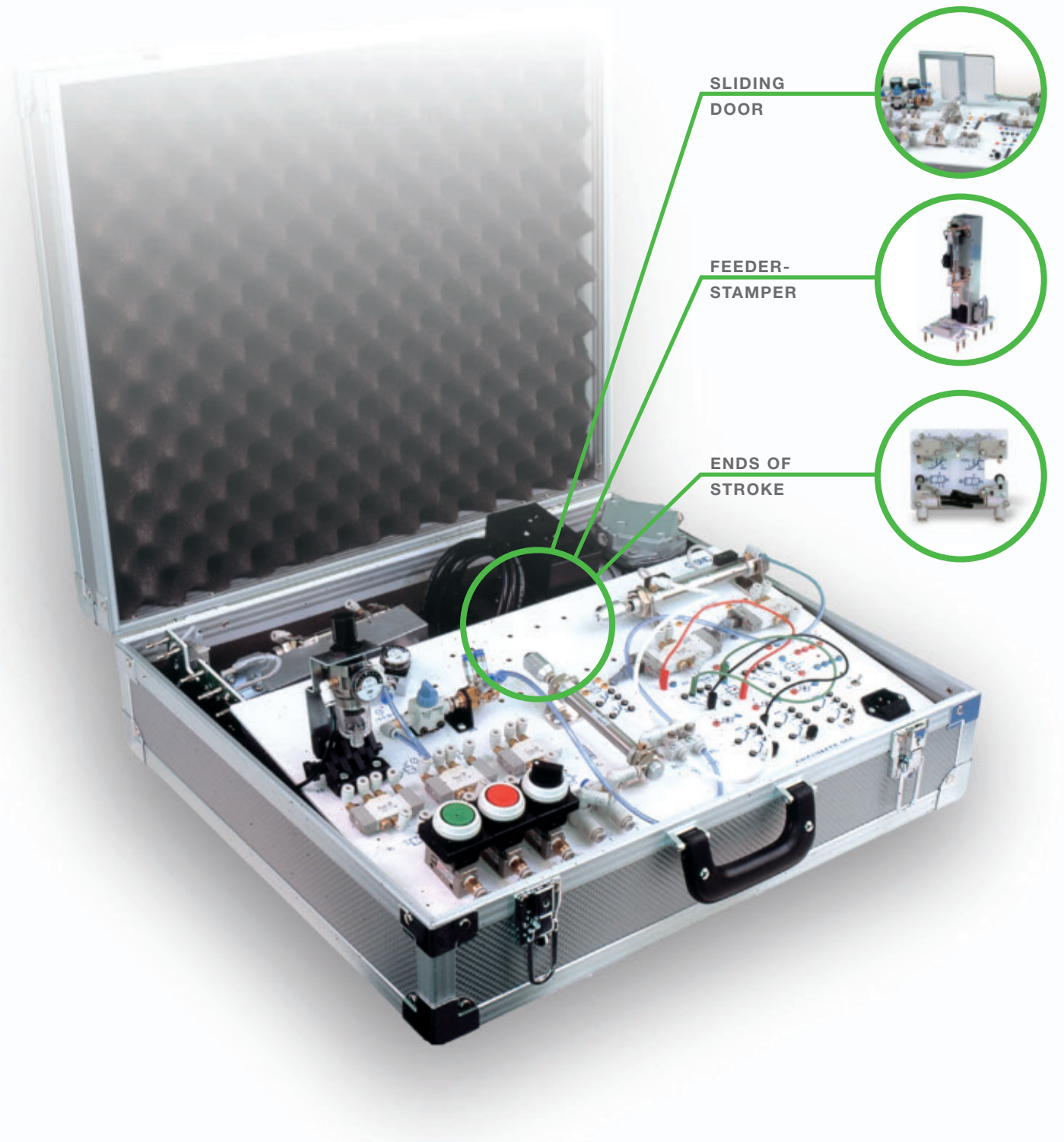
This didactic equipment is comprised of a panel with the corresponding pneumatic and/or electro-pneumatic components depending on the option selected.

The panel is printed with the standardized symbols of each of the components for easy identification.

Furthermore, both the pneumatic and electro-pneumatic components come with rapid connections to speed up the practical exercises being carried out with the equipment.

The equipment also includes the necessary complements such as pneumatic tubing, tube cutter, tube extractor, fittings, plugs, connection cables and mains plug.

Its three interchangeable accessories (feeder-stamper, sliding door and ends of stroke) allow the user to start up examples of real applications using these technologies.



## Flexibility

The four available options make our PNEUMATE-200 equipment adaptable to all kinds of client requirements and budgets:

### OPTION A: Discovering pneumatic technology

Equipment for training in basic pneumatics (without case)

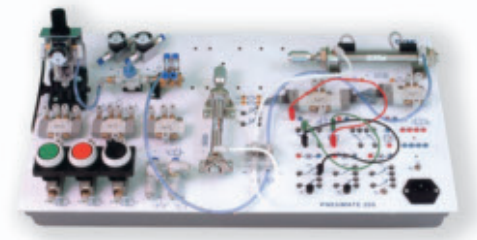
- Also included:
- Complete documentation
  - Complements



### OPTION B: Air combines with electricity!

Basic pneumatics and electro-pneumatics training equipment (without case)

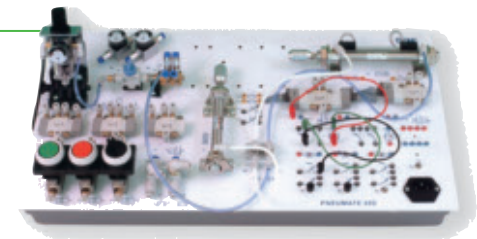
- Also included:
- Accessory for the electric and pneumatic ends of stroke
  - Complete documentation
  - Complements



### OPTION C: Discover the applications of this technology!

Advanced pneumatics and electro-pneumatics training equipment (without case)

- Moreover, it includes:
- Accessory for the electric and pneumatic ends of stroke
  - Sliding door accessory
  - Loader-stamper accessory
  - Complete documentation
  - Complements



### OPTION D: Ensure that it is always at your side

Advanced pneumatics and electro-pneumatics training equipment (with case)

- Also included:
- Carrying case
  - Silent compressor
  - Electric and pneumatic accessory for ends of stroke
  - Sliding door accessory
  - Loader-stamper accessory
  - Complete documentation
  - Complements



### OPTION E: Special cascade control.

Equipment similar to the previous, but supplied with a series of components required to enable cascade control.

- Also included:
- Carrying case
  - Silent compressor
  - Electric and pneumatic accessory for ends of stroke
  - Sliding door accessory
  - Loader-stamper accessory
  - Complete documentation
  - Complements





## Documentation

The documentation provided with PNEUMATE-200 includes:

### ■ USER MANUAL

- Explanatory manual on equipment use, with complete component specifications

### ■ EXERCISE BOOK

- Practical exercises on theoretical basics
- Practical exercises on understanding pneumatic and electro-pneumatic diagrams
- Pneumatic practical exercises
- Electro-pneumatic practical exercises
- Practical exercises on industrial applications

### ■ SELF-LEARNING COURSE

- Introduction to practical pneumatics.
- Compressed air theory
- Compression and air distribution
- Air treatment
- Pneumatic actuators
- Directional control valves
- Pneumatic / electro-pneumatic symbols

### ■ SELF-ASSESSMENT TESTS

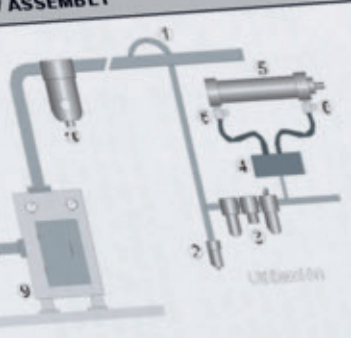
- Divided into two levels (basic and advanced), to ensure that the user can control the progress made.



## Multimedia CD

In addition to the course and the tests in electronic format, it contains a comprehensive collection of interactive practical exercises with animations of the solutions, as well as virtual representations of each of the components as solid and sectioned, etc.



		STUDENT	CODE
		ESTIMATED TIME: 1 hrs.	APFT100
PNEUMATIC SYSTEM		PHASE DIAGRAM	
complete basic function that	DESCRIPTION		
	<ul style="list-style-type: none"> <li>The enclosed diagram represents a complete basic pneumatic system where each and every one of the elements comprising it, divided into two subsystems, can be seen. Those pertaining to the Production section are numbered from 1 to 10 on the left-hand side. Those pertaining to the Operating section are numbered from 1 to 6 on the right-hand side.</li> </ul>		
GRAM / ASSEMBLY	MATERIALS	IMPLEMENTATION SEQUENCE	
		<ol style="list-style-type: none"> <li>Analyse and study the basic pneumatic system circuit.</li> <li>Identify the elements comprising the Production section of the pneumatic system (numbered from 1 to 10).</li> <li>Briefly describe the function carried out by the elements pertaining to the Production section of the basic pneumatic system.</li> <li>Identify the elements comprising the Operating section of the pneumatic system (numbered from 1 to 6).</li> <li>Briefly describe the function carried out by the elements pertaining to the Operating section of the basic pneumatic system.</li> </ol>	
TION	TOOLS	QUESTIONNAIRE	WORKING PROPOSAL
	OTHER RESOURCES		

### Other didactic supports

In addition to the documentation included in each training system, the users can complement their training with the following didactic supports:

#### autoSIM-200: The shortest way to automation!

Software for training in automation technologies. More information on page 22.



#### Pneumatic slides:

Set of slides organized in chapters to be used as a support in the laboratory. In CD format or projector slides. More information on page 64.



#### Case with pneumatic symbols.

Set of magnetic symbols for working on the metal board. More information on page 64.



### PNEUMATE-200



## Technical pages

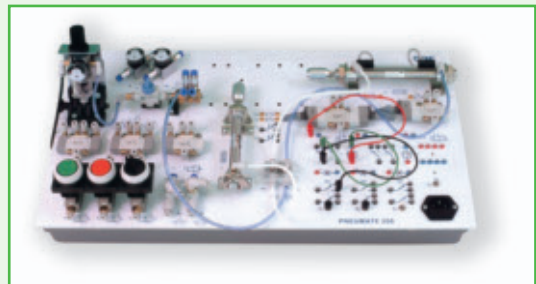
### OPTION A: DISCOVERING PNEUMATIC TECHNOLOGY.

- **Dimensions:** 53x30x15 cm.
- **Panel with pneumatic components:**
  - Filter-regulator with pressure gauge.
  - Air distributor with manual valve.
  - Pressure gauge (2 units).
  - 3/2 way manual valve operated by push-button (2 units).
  - 3/2 way manual valve operated by selector.
  - Pneumatic valve "OR".
  - Pneumatic valve "AND".
  - 5/2 way pneumatic single valve.
  - 5/2 way pneumatic double valve (2 units).
  - Single acting cylinder with fitting.
  - Double acting cylinder with fittings and two pneumatic ends of stroke.
  - Double acting cylinder with speed controllers and one pneumatic end of stroke.
  - Speed controller (2 units).
- **Complements:**
  - Tubes, tube cutter, tube extractor, fittings and plugs.
  - Documentation.



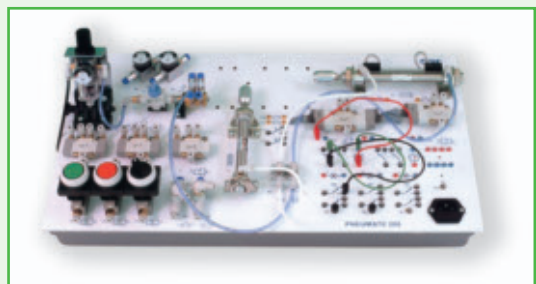
### OPTION B: AIR COMBINES WITH ELECTRICITY.

- **Dimensions:** 53x30x15 cm.
- **Panel with electro-pneumatic components:**
  - Filter-regulator with pressure gauge.
  - Air distributor with manual valve.
  - Pressure gauge (2 units).
  - 3/2 way manual valve operated by push-button (2 units).
  - 3/2 way manual valve operated by selector.
  - Pneumatic valve "OR".
  - Pneumatic valve "AND".
  - 5/2 way pneumatic single valve.
  - 5/2 way pneumatic double valve (2 units).
  - Single acting cylinder with fitting.
  - Double acting cylinder with fittings and two magnetic detectors.
  - Speed controller (2 units).
  - 5/2 way single solenoid valve.
  - 5/2 way double solenoid valve
  - 24Vcc power supply
  - Electric push button without locking (2 units).
  - Electric push button with locking.
  - Indicator lights (3 units).
  - Double contact relay (2 units).
- **Complements:**
  - Tubes, tube cutter, tube extractor, fittings, plugs, electric cables and mains plug.
- **Accessories:**
  - Pneumatic and electric ends of stroke.
  - Documentation.



### OPTION C: DISCOVERING THIS TECHNOLOGY'S APPLICATIONS.

- **Dimensions:** 53x30x15 cm.
- **Panel with electro-pneumatic components:**
  - Filter-regulator with pressure gauge.
  - Air distributor with manual valve.
  - Pressure gauge (2 units).
  - 3/2 way manual valve operated by push-button (2 units).
  - 3/2 way manual valve operated by selector.
  - Pneumatic valve "OR".
  - Pneumatic valve "AND".
  - 5/2 way pneumatic single valve.
  - 5/2 way pneumatic double valve (2 units).
  - Single acting cylinder with fitting.
  - Double acting cylinder with fittings and two magnetic detectors.
  - Speed controller (2 units).
  - 5/2 way single solenoid valve.
  - 5/2 way double solenoid valve
  - 24Vcc power supply
  - Electric push button without locking (2 units).
  - Electric push button with locking.
  - Indicator lights (3 units).
  - Double contact relay (2 units).



- **Complements:**
  - Tubes, tube cutter, tube extractor, fittings, plugs, electric cables and mains plug.
- **Accessories:**
  - Pneumatic and electric ends of stroke.
  - Sliding door.
  - Loader-stamper.
  - Documentation.

#### OPTION D: ENSURE THAT IT IS ALWAYS AT YOU SIDE.

- **Dimensions:** 57x49x18 cm.
- **Case containing the panel, accessories, complements and documentation.**
- **Panel with electro-pneumatic components:**
  - Filter-regulator with pressure gauge.
  - Air distributor with manual valve.
  - Pressure gauge (2 units).
  - 3/2 way manual valve operated by push-button (2 units).
  - 3/2 way manual valve operated by selector.
  - Pneumatic valve "OR".
  - Pneumatic valve "AND".
  - 5/2 way pneumatic single valve.
  - 5/2 way pneumatic double valve (2 units).
  - Single acting cylinder with fitting.
  - Double acting cylinder with fittings and two magnetic detectors.
  - Speed controller (2 units).
  - 5/2 way single solenoid valve.
  - 5/2 way double solenoid valve
  - 24Vcc power supply
  - Electric push button without locking (2 units).
  - Electric push button with locking.
  - Indicator lights (3 units).
  - Double contact relay (2 units).
- **Complements:**
  - Tubes, tube cutter, tube extractor, fittings, plugs, electric cables and mains plug.
- **Accessories:**
  - Pneumatic and electric ends of stroke.
  - Sliding door.
  - Loader-stamper
  - Documentation.



#### OPTION E: SPECIAL CASCADE CONTROL.

- **Dimensions:** 57x49x18 cm.
- **Case containing the panel, accessories, complements and documentation.**
- **Panel with electro-pneumatic components:**
  - Filter-regulator with pressure gauge.
  - Air distributor with manual valve.
  - Pressure gauge
  - Timer (2 units).
  - 3/2 way manual valve operated by push-button (2 units).
  - 3/2 way manual valve operated by selector.
  - Pneumatic valve "OR".
  - Pneumatic valve "AND".
  - 5/2 way pneumatic single valve.
  - 5/2 way pneumatic double valve (2 units).
  - Single acting cylinder with fitting.
  - Double acting cylinder with fittings and two magnetic detectors.
  - Speed controller (2 units).
  - 5/2 way single solenoid valve (2 units).
  - 5/2 way double solenoid valve
  - 24Vcc power supply
  - Electric push button without locking (2 units).
  - Electric push button with locking.
  - Indicator lights (3 units).
  - Double contact relay (4 units).
- **Complements:**
  - Tubes, tube cutter, tube extractor, fittings, plugs, electric cables and mains plug.
- **Accessories:**
  - Pneumatic and electric ends of stroke.
  - Sliding door.
  - Loader-stamper
  - Documentation.

