



MAIN FEATURES

- Permits the assembly and exploration of several A/C system controllers;
- Industrial-type components mounted on Moduponents® (individual plastic plates);
- Wall brackets or mobile carts available for assembling;
- Relays, detectors, pressure gauges and more.

DESCRIPTION

The CL-1991 Air Conditioning System Control trainer has been designed as a training aid to teach A/C system controllers. Because of its high versatility and its expansion capability, the CL-1991 allows the students to produce and explore a multitude of assemblies using a wide range of industrial components such as relays, detectors, pressure gauges, etc.

Introducing the principles of air control systems can be done in a scalable situation from very simple to complex actions to be taken. The characteristics offered by this trainer are rarely found in competing systems. Assemblies executed with Moduponents®* are built on supports fitted with anchoring grooves. It can be used in two different ways:

1. It may be fastened on rails to a classroom wall over a workbench. In this fashion, many work stations may be installed without disturbing the classroom desk layout.
2. It can be installed on a mobile stand panel. If the classroom wall cannot be permanently utilized, it is possible to install two work stations on a mobile stand.

* Plexiglas boards used as pneumatic component support. The standard component symbol is silk-screened on the board.

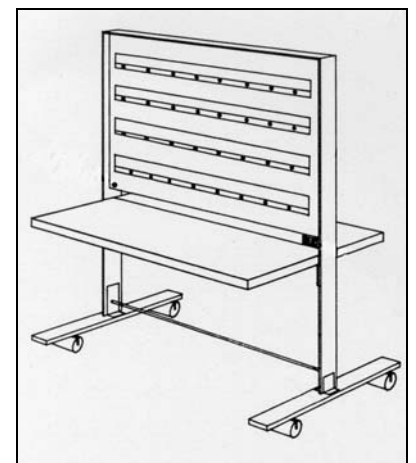
Each module is held in place by a fastening device located at the top front of the Moduponent®. Electrical connections are 4mm flexible wire connectors and equivalent size terminals. Moreover, the user may keep up with the state-of-the-art technology by procuring the most recent components at a minimal cost.

MODULAR AND COMPLEMENTARY

The CL-1991 trainer is essentially a modular system. It is possible to produce various types of assemblies, by simply rearranging available Moduponents®. Unlimited possibilities are available to the user through the combination of exercise boards. The construction of the CL-1991 is identical to that of many other existing trainers designed and built by Consulab Educatech Inc. It is therefore possible to complete a given trainer with Moduponents® from another trainer due to their structure compatibility. All exercise boards are made of clear Plexiglas and contain fasteners and necessary plug-in connectors.



Wall Support with Rails



Mobile Stand Panel

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INDUSTRIAL TYPE COMPONENTS (INDUSTRIAL REALISM)

The CL-1991 trainer gives the user the possibility of using genuine industrial type components. The possibility of introducing components of different makes in the system is available to the user for the student to learn about control components from more than one manufacturer. A complete trainer consists of:

MODEL	QTY	DETAILS
CL-1991-01	1	Temperature controller
CL-1991-02	1	Air pressure reducing valve
CL-1991-03	1	Pressure selector
CL-1991-04	1	Pressure limiter
CL-1991-05	1	Relay amplifier
CL-1991-06	1	Reverse current relay
CL-1991-07	1	Direct-acting air pressure thermostat
CL-1991-08	1	Reverse-acting air pressure thermostat
CL-1991-09	1	ON/OFF control air pressure relay
CL-1991-10	1	Capillary air pressure detector
CL-1991-11	1	Electro-pneumatic relay
CL-1991-12	1	Air temperature gauge
CL-1991-13	1	Air damper actuator (20-50 kPa)
CL-1991-14	1	Air damper actuator (35-70 kPa)
CL-1991-15	1	Air damper actuator (0-140 kPa)
CL-1991-16	1	Air actuator without positioning relay
CL-1991-17	1	One-input proportional air controller
CL-1991-18	1	Two-input proportional air controller
CL-1991-19	1	Air pressure gauge
CL-1991-20	1	Heater air valve
CL-1991-21	1	Proportional controller
CL-1991-22	1	Air temperature gauge (-40 à 160 °F) (-40 à 71 °C)
CL-1991-23	1	Air temperature gauge (25 à 125 °F) (-5 à 55 °C)
CL-1991-24	1	Three-orifice minimum positioning selector
CL-1991-25	3	T-coupling
CL-1991-26	1	Graduated-acting motor
CL-1991-27	2	Air line support
CL-1991-28	8 m (25 ft)	Air line
CL-1991-29	1	Limit controller
CL-1991-30	1	Solenoid valve
CL-1991-40	1	Wall bracket
CL 1041-02	1	Acrylic double board measuring 42.2 x 16.3 cm (16 7/8 x 6 1/2 in)
CL 1041-03	1	Acrylic triple board measuring 42.2 x 23.8 cm (16 7/8 x 9 1/2 in)

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