model: Parallel expansion-GTAC311236

Parallel Expansion Trainer

* The possibility of the experiment on temperature, pressure, defrosting auto control of automatic pressure control device and
   mechanical trouble
* A check of change of the refrigeration system according to expansion valve s shape and function with connecting
   expansion valve of other types
* The Refrigerator temperature, pressure, defrosting automatic control, fault diagnosis of configuration testing and is
   available training.
* Operable device without the control unit via the control switch of the machine unit.
* Mechanical and graphics module are integrated and Mechanical part and graphics consists of one body. Refrigeration Training
   Equipment operation circuit is consists of wiring and jacks. This equipment is possible operating test and practice. Equipment in
   the front of the mechanical part of the main components are arranged in vertical machine is added to replace the graphics module.
* A condenser fan motor is controlled through a pressure and temperature as is possible, it is possible to program the computer.
* There is watt hour meter, can measure the amount of power consumed by the device during operation of the device.
* Monitoring through the tablet app program.
* Communication with a computer with an Ethernet system is possible and must be controlled by a computer program.
* Overload cut-off when an abnormality occurs during operation temperature, pressure, freezing of teaching equipment,
   the operation of the pressure switch, safe driving another circuit configuration using the power cutoff device to another
   of the control unit and the machine part is possible and There must be capable of fault diagnosis.
* Enable the output of data for fault diagnosis of the machine unit.
* If the structure may be an alarm is output when an abnormality occurs in each part of the machinery in a computer program,
   the contents of the alarm can be confirmed, the user is dealing.
* This equipment is possible operating test and practice. should be able to Data auto-save and auto drawing P-I diagram.
   Monitor and operate computer controlled machine part (ON-OFF function), is available for fault diagnosis
* Mechanical unit
  · Compressor: 1/2HP, single phase 220V, with control box, compressor type: reciprocating compressor, refrigerant used: R-134a
  · Condenser: 1/2HP, single-phase 220V, condenser type: air-cooled, fan motor: 9W, fan: 1ea included.
  · Evaporator: 1/3HP, single-phase 220V, condenser type: air-cooled, fan motor: 6W, fan: 1ea included,
              chamber: 330 * 380 * 490, front and rear dampers applied, bevel gear attached
  · Liquid separator: more than 1/2HP, vertical type
  · Receiver: 1/2HP, vertical type
  · Expansion valve (3ea): automatic expansion valve, manual expansion valve, capillary type
  · Solenoid valve (3ea): Solenoid valve: 3/8" nut fastening type or welding type, 220V, 50/60Hz, HFC, etc., type: direct acting
  · Filter dryer: 3/8" nut fastening type or welding type
  · Pressure gauge: high pressure side, low pressure side
  · Filling nipple: Attach the nipple for filling
  · Sight Grass: Welded type or nut fastened type

* Automatic control
  · Relay: 8 pin: 3ea
  · NFB: Rated current: 15A, Rated breaking capacity: 220V/5kA
  · Magnetic switch: Rated current: 9A, Rated voltage: DC24V
  · Thermal relay: 9~12A,
  · Watt meter: digital type
  · Lamp: Red, Green, Yellow, White
  · LPS, HPS, DPS: digital pressure device, low pressure side high pressure side: 1.5 MPa 3.3 MPa
  · Select switch: 1a1b
  · Buzzer: DC24V
  · Toggle switch: 1a, 1b
  · Timer: 60sec. DC24V , 8pin
  · Push Button: 1a1b
  · Digital thermometer: 7EA (temperature control type)
  · Indicator light: red, green
* Data board
  · Refrigeration Trainer Control Board
  · Removable Micro controller Module (Replacement type)
  · 16-Channel Sensor interface(Option : Temperature, Pressure, Flowmeter, Airflowmeter, Ampere :
  · 16-Channel power relay on/off control.
  · 10/100 Ethernet Interface(RJ-45) (Option : Wi-Fi, Bluetooth, Zigbee, USB, RS-232, RS-485, RS-422, CAN)
* Software program
  · Network control system using ethernet communication.
  · Machine parts are controlled by using a switch of the program and data values of the sensor by setting the control condition.
  · Mechanical diagram displays the sensor values and converter unit option.
  · Output of the sensor data in the graph and save files and print output.
  · Mechanical parts diagram displays the operation status of motion animation.
  · Output of the sensor data in the mollier diagram graph and save image files and print output.
  · The Mollier diagram graph simulated sensor data, and to compare the measured sensor data analysis
* At least 2 years service warranty
* Size is around (LxWxH) - 160 x 720 x 185 cm