



### Key Features

- Basic Pneumatics Laboratory Equipment
  - 1- Compressed Air Generation and Treatment
    - o 2 Silent Compressors: 500 L/min, 10 bar, 100 L Tank, Noise Class < 65 dB
    - o 2 Air Treatment Units: Filter (5 µm), Pressure Regulator, Lubricator
    - o Distribution Network: PU Hoses Ø 8–12 mm, Push-in Quick Couplings
  - 2- Actuators and Valves
    - o 10 Pneumatic Cylinders: Double-acting, Stroke 50–300 mm (diam. 25–63 mm)
    - o 10 5/2-way Solenoid Valves, 24 V DC, Response Time < 50 ms
    - o 5 3/2-way and 5/3-way Manual Valves, Lever or Pushbutton
  - 3- Instrumentation and Control
    - o 10 Position Sensors: Inductive or Optical, Range 10–200 mm
    - o 5 Pressure sensors: Digital, range 0–16 bar, 4–20 mA output
    - o 2 Programmable logic controllers (PLCs):
    - o 2 Human-Machine Interfaces (HMI): 7" touchscreen, Modbus/TCP communication
  - 4- Tools and Consumables
    - o Maintenance Kit: Seals, torque wrenches, lubricants
    - o Hoses and Fittings: PU hoses, brass or stainless steel fittings
  - 5- Additional Equipment:
    - o Proportional pressure/flow regulators
    - o Fault simulator: Panels with programmable faults (leaks, blockages)
  - 6- Software:
    - o FluidSIM Simulator software

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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