

PRESSURIZED WATER SUPPLY AUTOMATED SKID

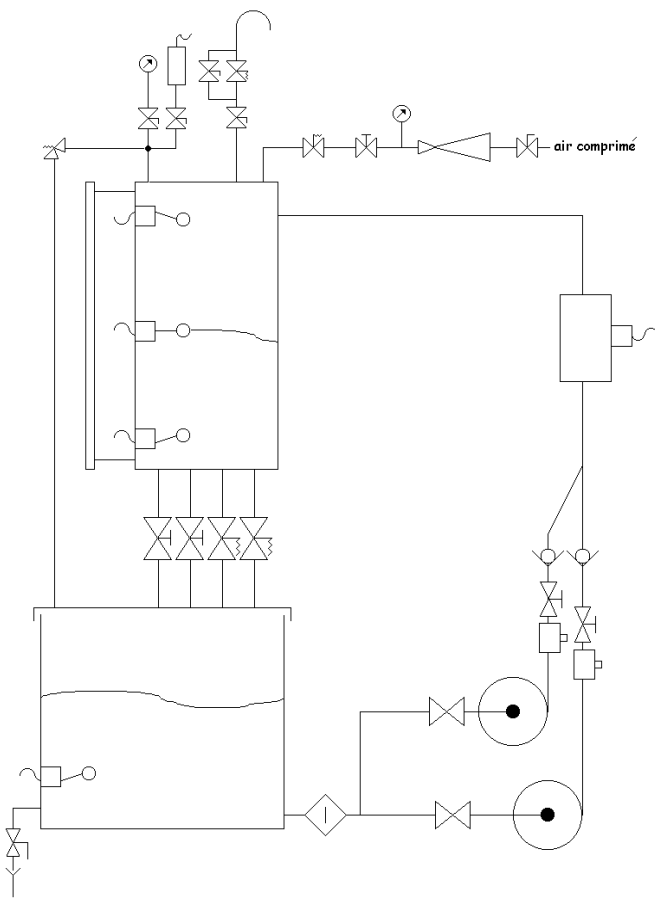


Experimental capabilities

- **Study the concept of a system of production and distribution of pressurized water.**
- **Measurement of the parameters Pressure - Flow rate - Level.**
- **Rotation of pumps, maintenance management.**
- **Regulation type P.I.D. of the pressure by two solenoid valves.**
- **Programming on A.P.I.**

Illustrations

Technical details



Multi-cellular electro-pumps
Stop valves and filtration in upstream
Adjustment valves in downstream
230Vac single phase and three phase motor 400 Vac with processing of measurement of motor currents.
Tank
Capacity: 75 liters
Material: translucent polypropylene
Detector shortage of water and drain valve
Flowmeter of water production
Type axial turbine
Brass body, flow rate indicator
Water storage tub under pressure
In stainless steel
Capacity: 50 liters
Level measuring tube
Three detectors of level with floater
Pressure measurement by mano and piezo-resistive sensor
Relief valve against the over-pressures
Solenoid valves compressed air and vented to atmosphere for pressure regulation
Water network
In transparent PVC
Small flow rate valve simulating leaks
Large flow rate valve and solenoid valves simulating the distribution and consumption
Industrial Programmable PLC
16 inputs - 12 digital outputs
Module 8 inputs analog input
Comes with programming software
Possibility of programming
30 mA Differential circuit breaker
Command in SELV
Safety valve
Detector water shortage

Services required

Documentation

- Electrical supply : 400 Vac – 50 Hz – 16 A
- Compressed air supply: 6-8 bars (dry air)
- Dimensions: (LxWxH mm): 1300 x 760 x 1850
- weight (Kg): 180

- User's manual
- Pedagogical manual
- Technical documentation of the components
- Certificate of conformity CE

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine