Pumps, circulators, valves and sanitary appliances are subjected daily to pressure and temperature. To determine their level of resistance to these stresses, the HBPTC test bench performs pressure cyclings and thermal shocks while controlling the progressive degradation of the sample. This "Test Loop" test bench is primarily intended for Research and Development laboratories wishing to optimize their product design.

**MAIN FUNCTIONS**

Once valves or sanitary fittings are installed, the device is supplied with water and undergoes cycles of pressure and temperature variations. Thanks to low volumes of hot and cold water, the HBPTC bench offers a very energy-efficient operation compared to conventional solutions on the market.

**APPLICATIONS**

The products to be tested are easily mounted on the bench and require a minimum of operator movements. The bench occupies very little floor space thanks to the dimensions of 3x1 m for a height of 2.20 m (for 5 independent stations).

**ADVANTAGES**

**ENERGY SAVING**
Large energy savings thanks to the optimization of hot and cold water volumes during the temperature shocks.

**INDEPENDENCE OF TEST STATIONS**
Different tests are carried out simultaneously on several components and independent stations.

**LEAST SPACE REQUIREMENTS**
The bench occupies very little floor space thanks to the dimensions of 3x1 m for a height of 2.20 m (for 5 independent stations).

**SIMPlicity OF ASSEMBLY**
The products to be tested are easily mounted on the bench and require a minimum of operator movements.

**TECHNICAL CHARACTERISTICS**

- Test pressure: 0.5 to 30 bar
- CW Temperature: 15 to 39°C
- Max HW temperature: 35 to 105°C
- Piston plunger volume: 50 cc

**OPTIONS**
- Integrated special circulator
- Thermal shock tests
- Flow measurement
- Power consumption measurement of the product under test

**TESTS ACCORDING TO STANDARDS**
NF EN 10217-7

**OPERATING PROCEDURE**

Once valves or sanitary fittings are installed, the device is supplied with water and undergoes cycles of pressure and temperature variations. Thanks to low volumes of hot and cold water, the HBPTC bench offers a very energy-efficient operation compared to conventional solutions on the market.

**APPLICATIONS**

- **HOSES**
  Possibility of carrying out ageing tests on hoses thanks to a special integrated circulator.

- **CIRCULATORS**
  Service life test of a heating circulator pump.

- **BOTTOM OF BOILERS**
  Service life test of sanitary heating boilers.