

Jet Impingement by



General Features

Jet Impingement enables to perform corrosion tests on pipelines materials simulating a fluid circulation on a lining.

Specifications	
Working Temperature	Ambient to 150°C
Pumps Pressure	15 bar
Cell Pressure	10 bar
Cell Volume	40 ml
Flow Rate	Ambient to 1000 ml/min
Pumps Volume	2 x 1000 ml

With two synchronized pumps for a continuous flow circulation fluid, a liquid is projected on coaxial electrode which permits to measure a potential difference. An automatic system can realize fluid mixing before injection thanks to an integrated mixer where the liquid is saturated in gas (H₂S). The device also provided inhibitor additions in order to measure their electrode corrosion impact. The apparatus is integrated in a climatic air bath allowing a temperature regulation in real dynamic fluid conditions (150°C).

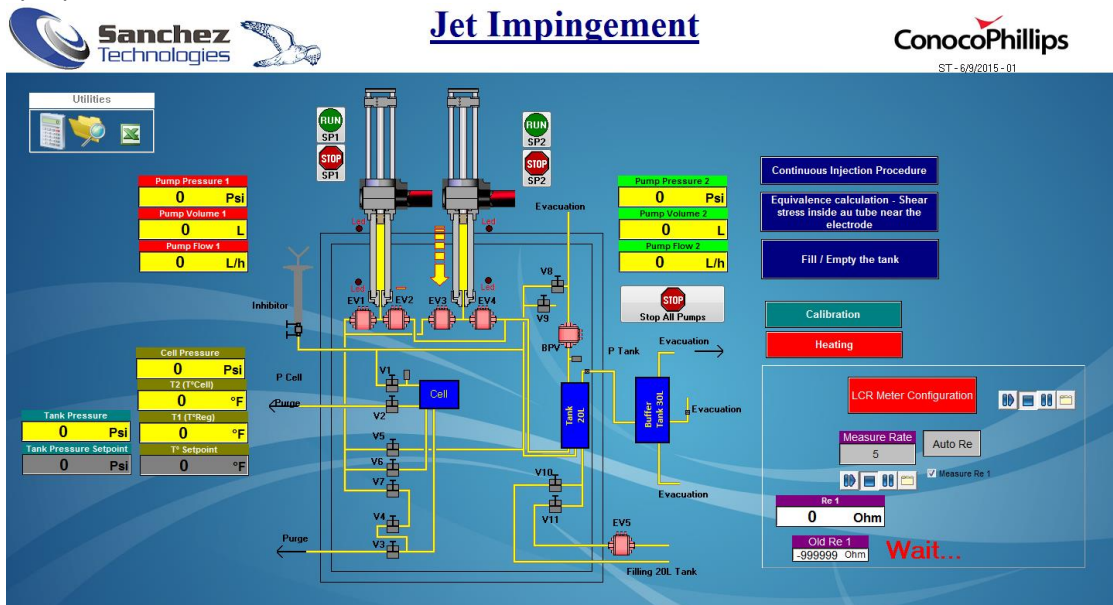
It's possible, with the synoptic or with the electric cabinet, to control the pumps (pressure regulation, constant flow rate, constant volume) , to control the temperature of climatic air bath, and record the values of the different parameters (pressure, temperature, equivalence calculation, tube shearing stress, electrode shearing stress,...)

Jet Impingement by

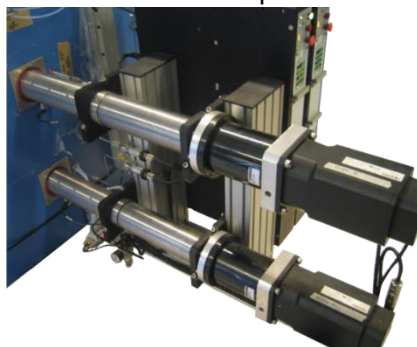
This equipment is composed of following items:

- A Cell
- Double Pumps
- Climatic Air Bath
- 20 L Hastelloy Tank in the Climatic Air Bath
- 30 L Buffer Tank
- Automatic Valves
- High Accuracy Pressure Sensors
-

Example of synoptic



Double Pump



Buffer Tank

