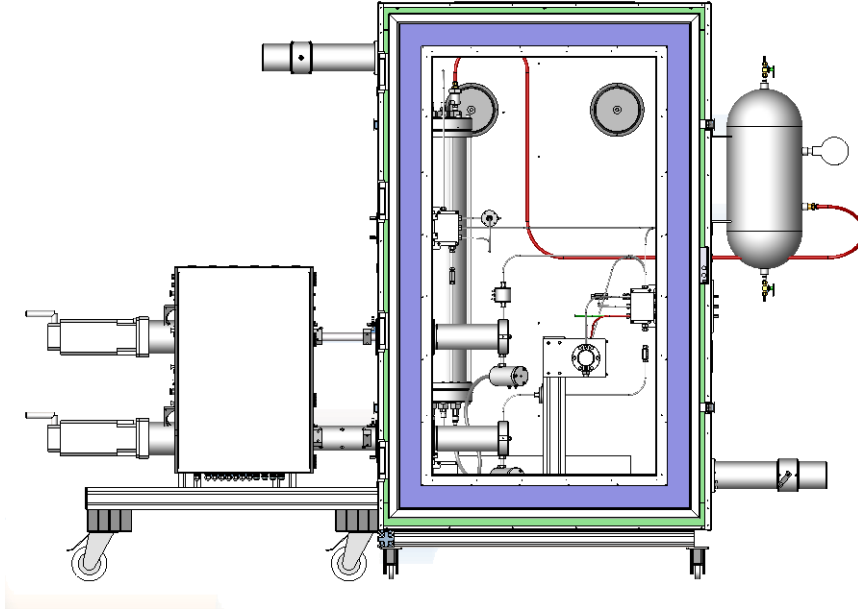




## Jet Impingement



### General Features

The equipment enables to perform corrosion tests on pipelines materials simulating a fluid circulation on a lining.

Specifications	
<b>Working Temperature</b>	Ambient to 150°C
<b>Pumps Pressure</b>	15 bar
<b>Cell Pressure</b>	10 bar
<b>Cell Volume</b>	40 ml
<b>Flow Rate</b>	Ambient to 1000 ml/min
<b>Pumps Volume</b>	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 (H<sub>2</sub>S).

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



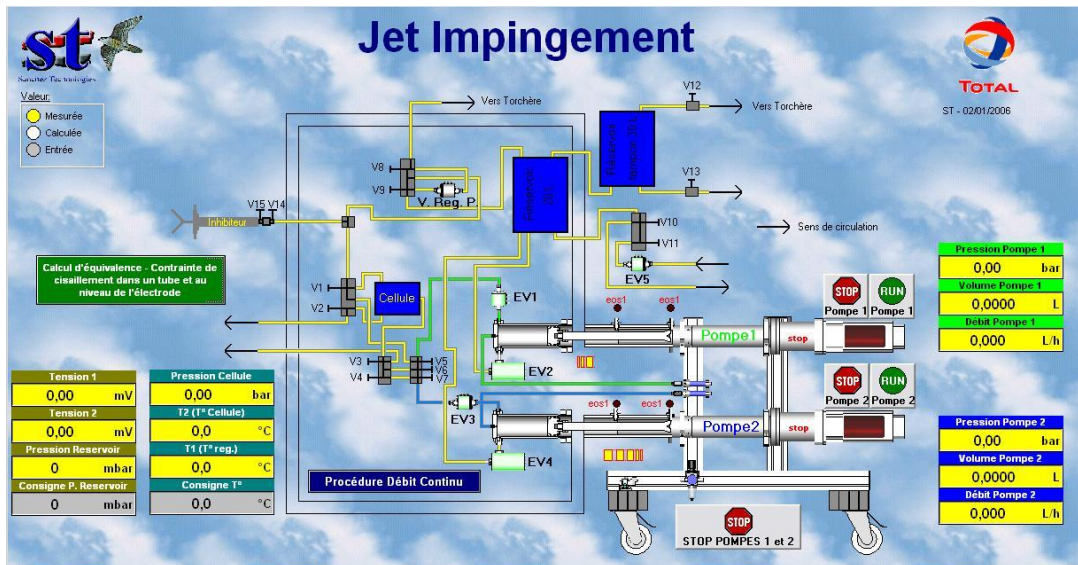
# Jet Impingement

values of the different parameters (pressure, temperature, equivalence calculation, tube shearing stress, electrode shearing stress,...)

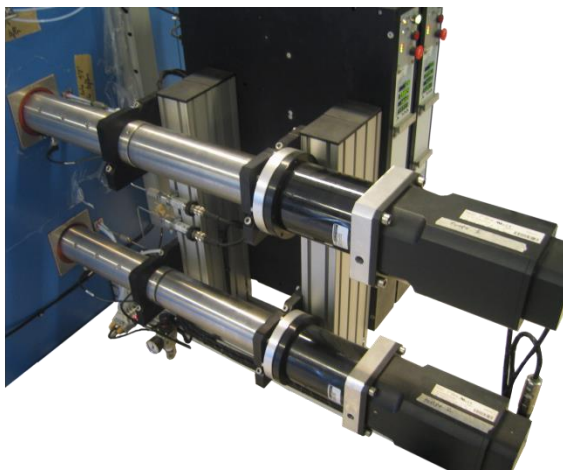
This equipment is composed of following items:

- 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

