



**LIQUID THERMAL SHOCK
XTL-IV TEST BENCH**

XTL-IV PARAMETERS

- Max. Temperature hot loop 130°C
- Min. Temperature cold loop -40°C
- Max. Flow 10 m³/h
- Max. Pressure 3 bar
- Max. Number of specimens 4



XTL-IV ADVANTAGES

- Testing the **samples in parallel** = Less testing time
- **Better flow control** changes, due to the return valve which permits not to drop the flow until zero. Our system has the capability of maintain the flow during the change of loops.
- Capability of hard thermal shock, with **gradients up to 30°K/sec**. However, softer thermal shock could be done depending of the specification.
- **Data acquisition of:**
 - Temperature inflow and outflow
 - Temperature in the core of radiator
 - Inlet and outlet pressure
 - Flow rate



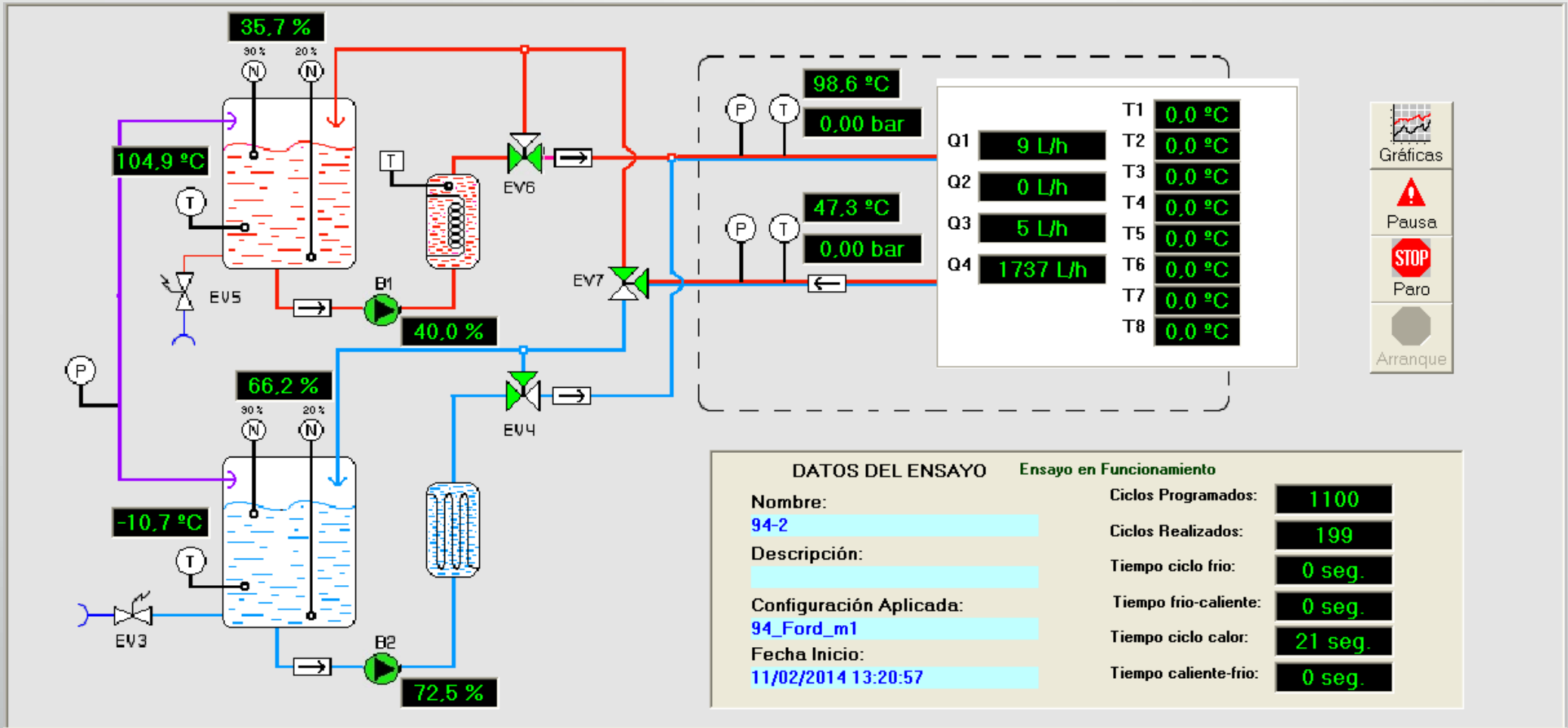
XTL-IV TEST BENCH



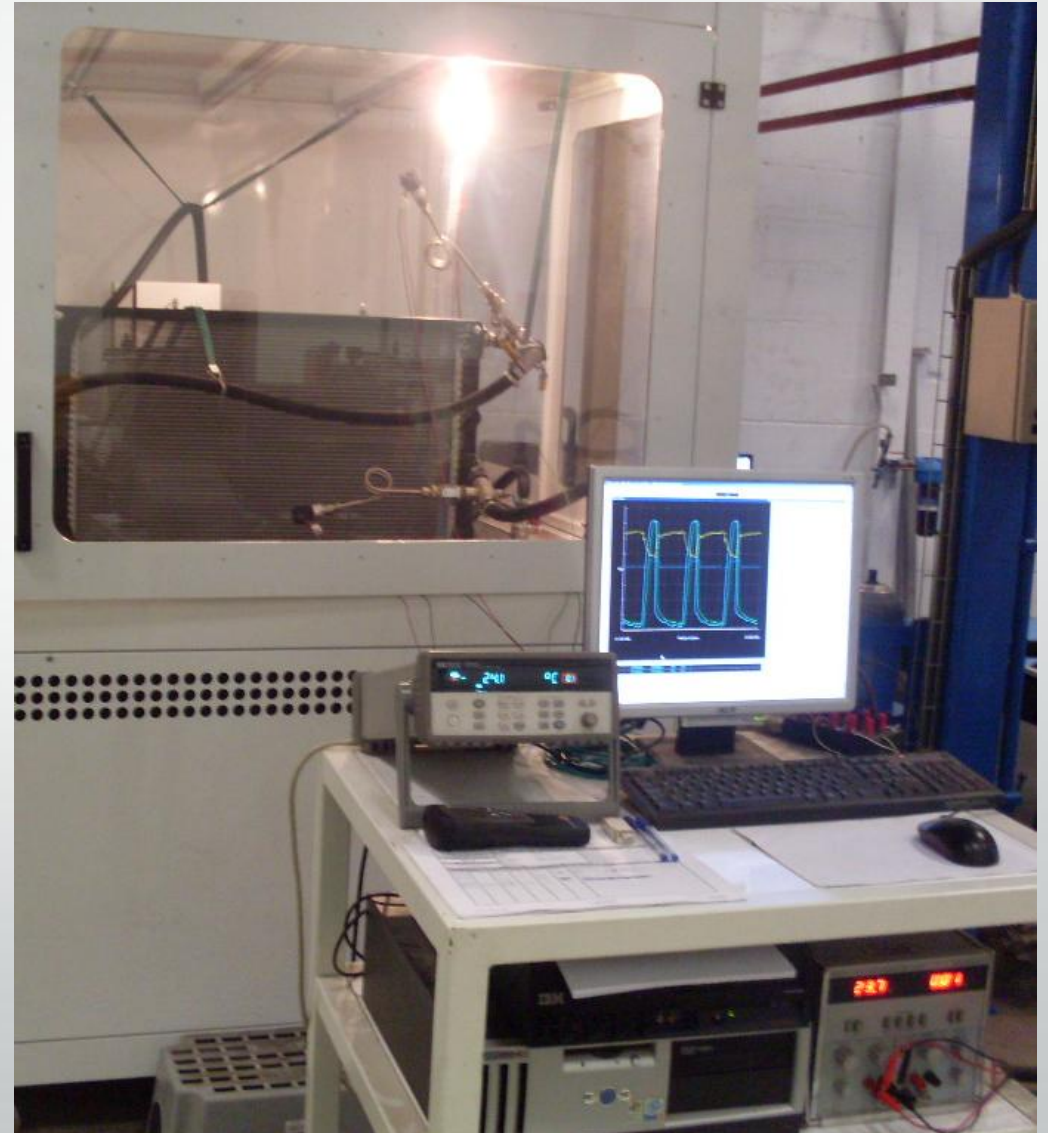
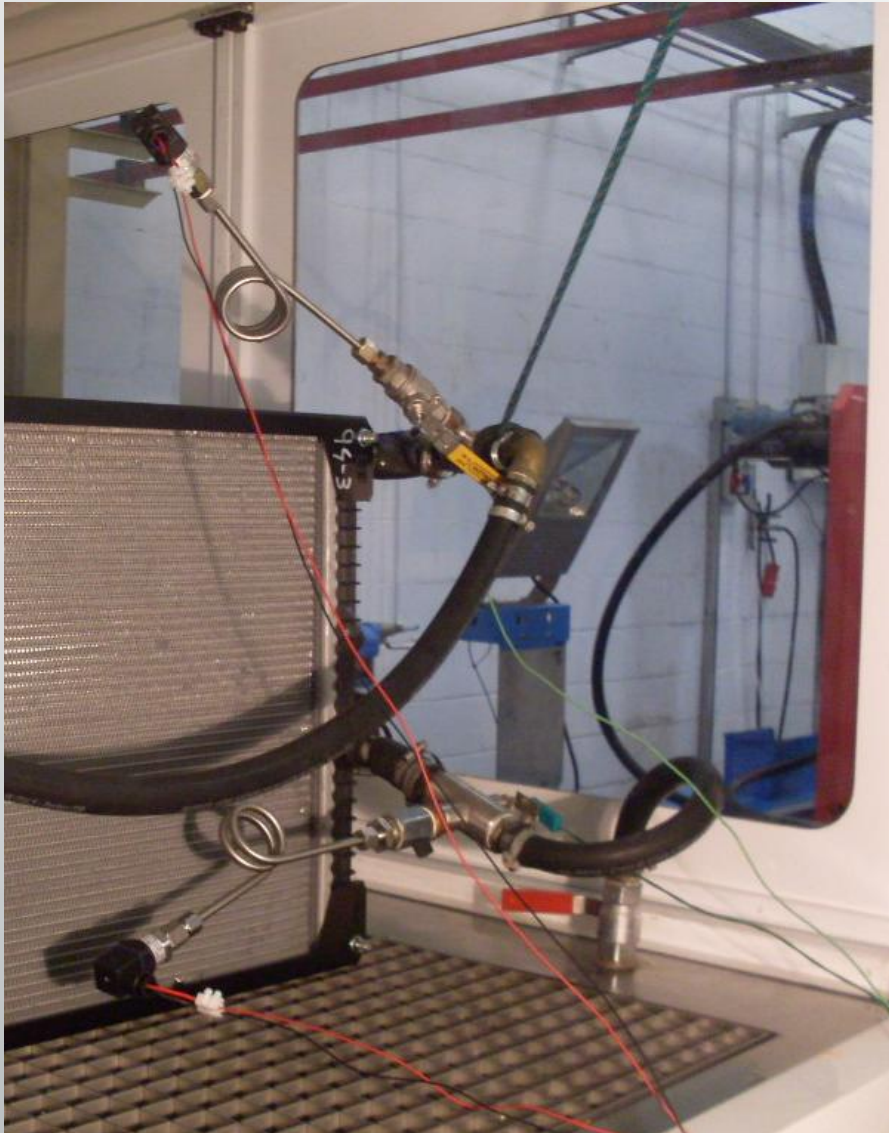
XTL-IV – PARALLEL TESTING



XTL-IV – SYNOPSIS



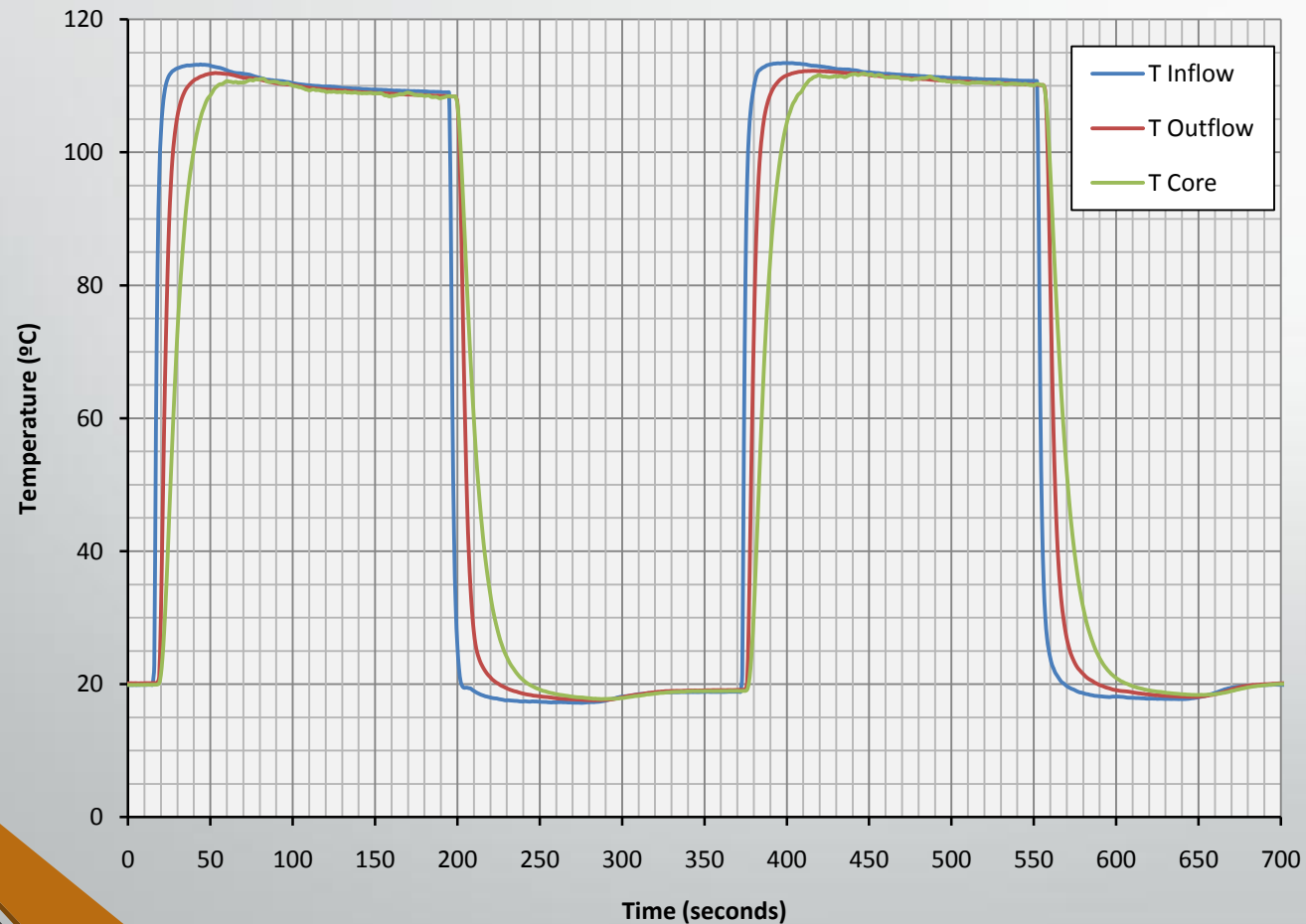
XTL-IV – INSTRUMENTATION



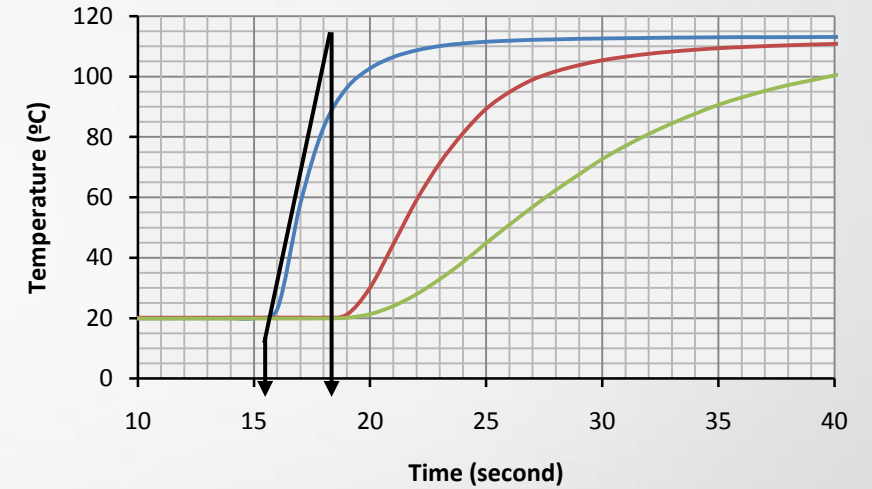
TEST EXAMPLE DATA

- Hard thermal shock : 20 to 110°C with inflow tangent of 3 sec.

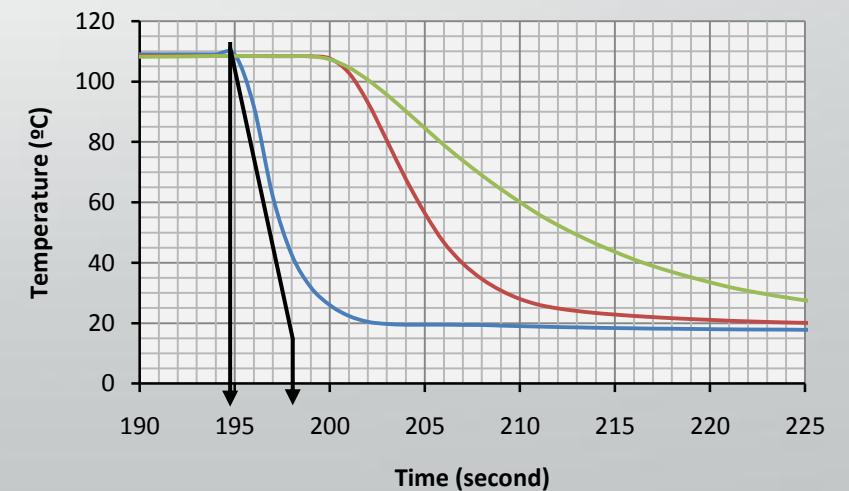
Temperature Cycle - WTC



Temperature Cycle: Ramp-Up - WTC

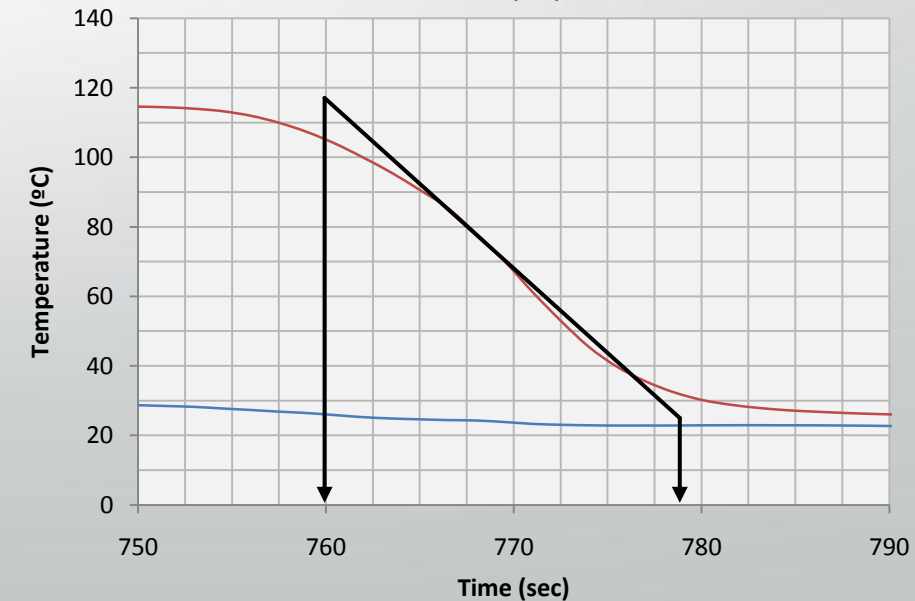
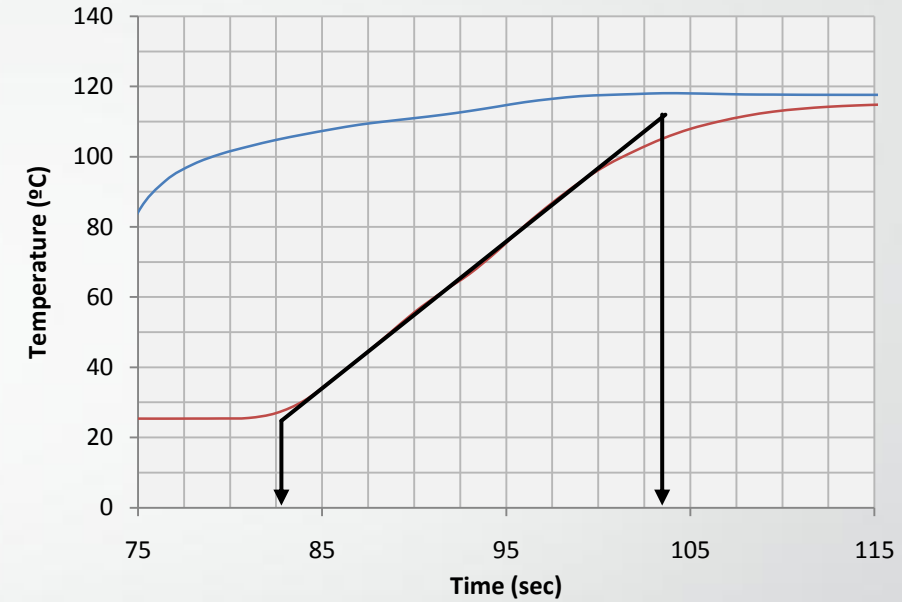
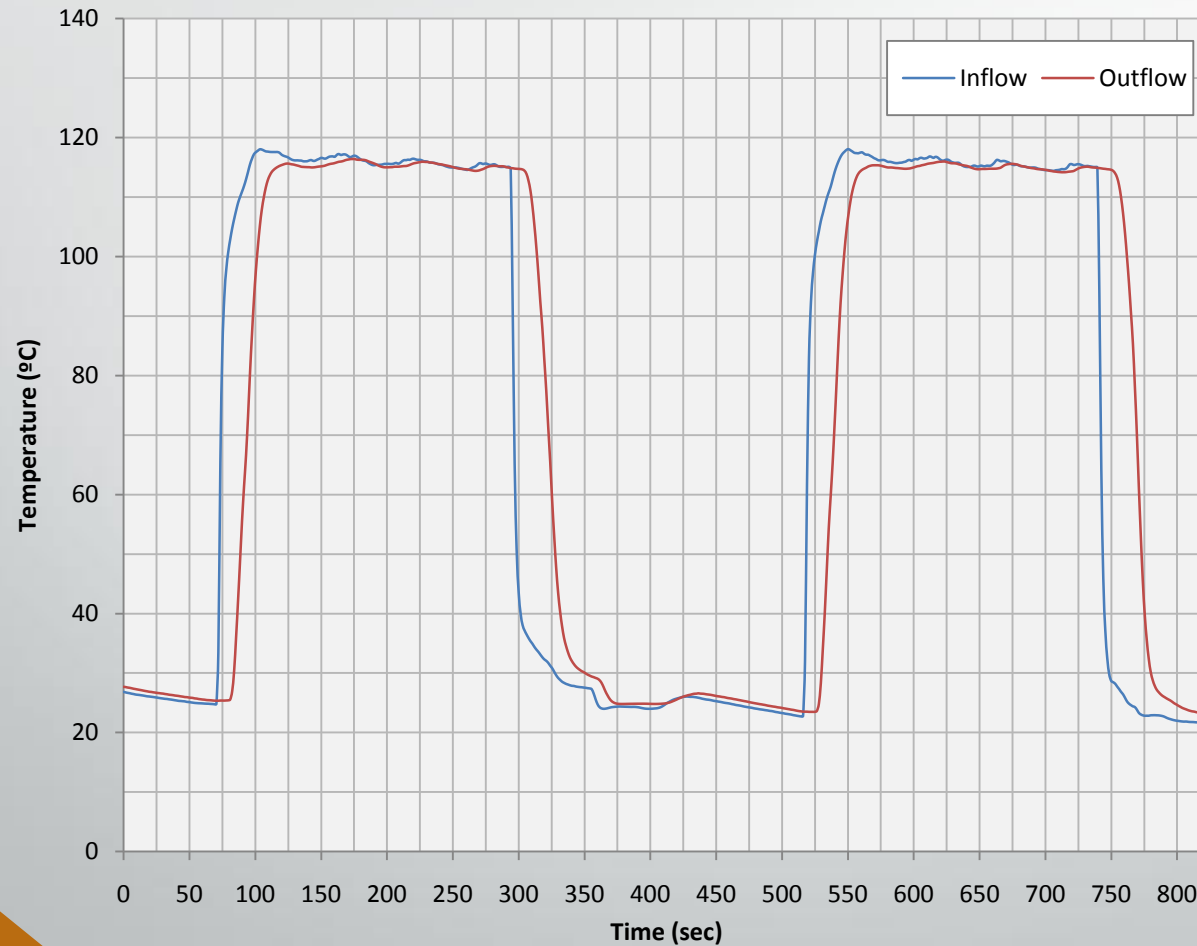


Temperature Cycle: Ramp-Down - WTC



TEST EXAMPLE DATA

- Soft thermal shock : 25 to 115°C with outflow demanded tangent of 20 sec.





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FOR TESTING YOUR BEST

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