**Eclipse Product:** TJ Medium velocity with SiC combustor

**Submitted by:** Guy BLONDEAU/Mike DEBIER

**Application:** Testing of exhaust mufflers

**Fuel:** Propane

**Capacity:** 0.15 kg/sec of air

**Operating temperature:** 1100°C

**Customer:** BOSAL

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**Background:**

**TESTING OF AUTOMOBILE EXHAUST MUFFLERS**

This unit is designed to test, under pressures rated between 50 and 300 mbar, car mufflers built by BOSAL an important subcontractor for major car manufacturers.

This unit is the second one supplied by G Blondeau & Zonen BVBA, with the same capacity, but this time with a larger combustion chamber diameter including a hard lining.

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**Description:**

The unit consists in a hot gas generator fired by one TJ150, medium velocity equipped with a SiC combustor The system includes the generator, the combustion air supply and the Propane gas line.

You will notice the loading of the combustion air regulator (item 12) by the back-pressure to maintain the air capacity with varying back-pressure. Also note the modulation of gas (item 7) in order to maintain the volume of the flue products as steady as possible.

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**Flow-sheet and pictures:**

[Diagram showing the configuration of the exhaust muffler testing unit.]