

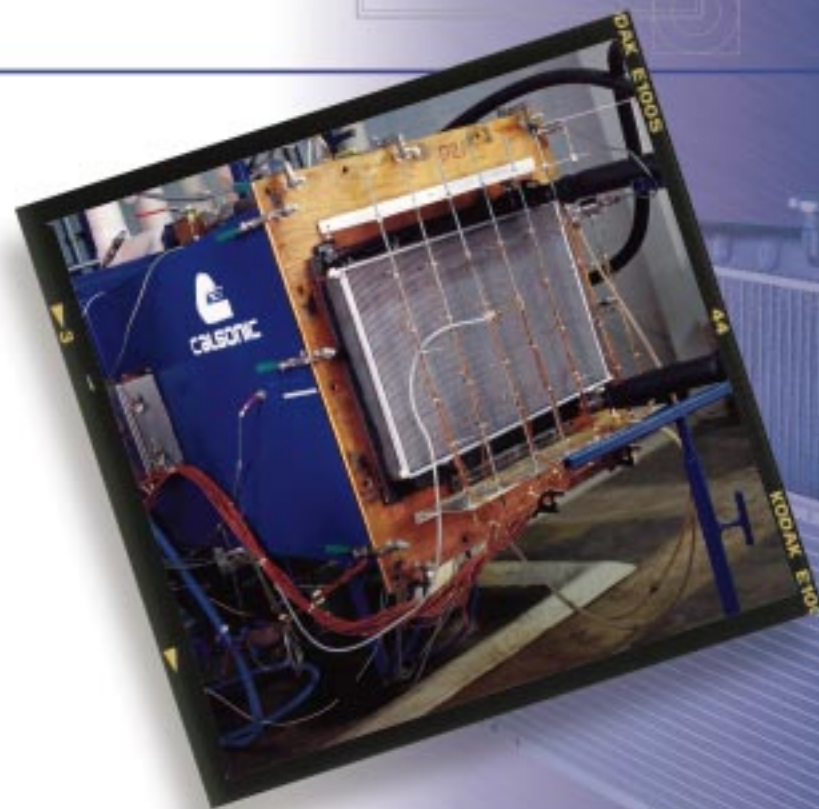
## *Engine Cooling*

### *Wind Tunnel*



#### *Description:*

The engine cooling wind tunnel is an airflow simulation room for varying temperature and airflow conditions over a broad range for radiator, oil cooler, and motor fan assembly bench testing. In addition, under-hood airflow simulation is available with high temperature and engine back-pressure capabilities. The engine cooling wind tunnel has proven repeatability and is capable of maintaining energy balances between water and air, oil and air, and oil and water by varying environmental and airflow conditions for development, production validation, and design validation testing.





## ***Engine Cooling***

### ***Wind Tunnel***

#### ***Capabilities:***

Radiator, oil cooler, and motor fan performance testing, and engine compartment simulation

#### ***Data Acquisition:***

Daytronic hardware with custom software; data available in hard copy or electronic spreadsheet format

#### ***Airflow:***

0 to 19 m/sec, controlled on the supply side for vehicle condition simulation

#### ***Water Temperature:***

23° to 95°C

#### ***Water Flow:***

0 to 130 l/min

#### ***Environmental Capabilities:***

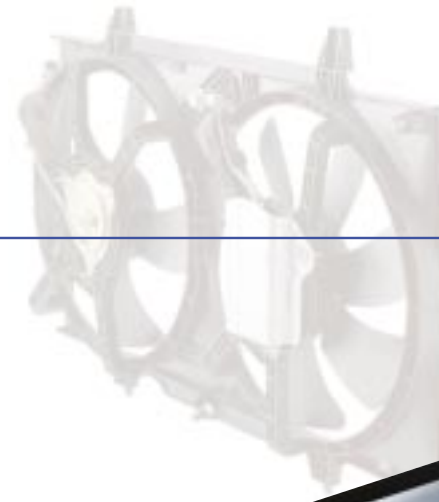
23° to 90°C (No RH capabilities)

#### ***Oil Temperature:***

23° to 120°C

#### ***Oil Flow:***

15 l/min



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