

Calorimetric Oil Cooler Testing

A range of oil and transmission coolers, either water-cooled or air blast, can be accommodated on the YCL test facility, covering flow rates up to 100 lpm.

All coolers are tested on a controlled lubrication fluid to maintain accurate and ideal oil heat capacities. Coolers used in passenger car, truck, bus, motorcycle, performance race, stationary and marine applications can be accommodated. The versatile wind tunnel and cooling plant is rated up to 110 kW for oil system packages.

Customers include OEM's, Formula 1, WRC, vehicle manufacturers and R&D establishments.

Test reports present all the data in tabular and graphical formats, covering oil side pressure drop, cooling side pressure drop, heat rejection performance and heat dissipation.

- Single seater side pod installations
- Pre/Post race assessment tests
- Manufacturer benchmarking
- Leak Testing, flow vs dP, Burst Testing, Vibration

Laboratory Specification

Extensive capabilities exist within the laboratory to cover radiators, cab heaters, oil coolers, transmission coolers, charge and intercoolers.



Oil Side Specification

- Flow 1 - 100 lpm
- Pressure < 4 barg
- Temp 40 - 105°C
- Size 900 x 300 mm
- Fluid Texaco Oil

Blast Air Specification

- Flow 30 - 4000 l/s
- Speed 1 - 15 m/s
- Press 10 - 5000Pa
- Temp 20 - 35 ±1°C

Cooling Water Specification

- Flow 1 - 400 lpm
- Temp 40 - 95°C
- Press < 2 barg

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