

OIL COOLERS

HYDRAULIC OIL COOLERS



- Aluminium alloy construction
- Painted finish to enhance protection
- Brazed core designs
- Wide range of core sizes and cooling capacities available
- Provides a high resistance to both vibration and mechanical stress
- Flexible configurations and mounting options
- Suitable for high working pressures
- Compact designs for easy integration into constraint layouts

Calatherm's portfolio includes oil coolers that are engineered for thermal management systems across multiple sectors. Designed to dissipate heat from hydraulic oils, these coolers play a critical role in maintaining stable operating temperatures under demanding duty cycles. Advanced core designs provide efficient heat transfer, high pressure capability and strong resistance to vibration and thermal fatigue.

Manufactured from high quality aluminium alloys, they offer excellent thermal conductivity combined with a lightweight and robust construction suitable for mobile applications. A durable painted surface finish enhances corrosion protection while maintaining consistent cooling performance in harsh operating environments, including exposure to dirt, moisture and road contaminants.

Available in a wide range of sizes and cooling capacities, Calatherm's oil coolers are easily integrated into diverse architectures, helping reduce fluid degradation, improve system efficiency, extend component service life and support reliable operation across a broad range of operating conditions.

BENEFITS

- Maintains optimal oil temperature across varying duty cycles and operating conditions.
- Improves reliability of powertrain, hydraulic and auxiliary systems during high load operation.
- Extends service life of critical mechanical components by reducing thermal stress and degradation.
- Enhances performance and operating efficiency through stable thermal management.
- Reduces risk of overheating in demanding environments and high ambient temperatures.
- Supports reliable operation in harsh conditions including dust, moisture and vibration.
- Lightweight construction helps minimise overall mass.
- Enables flexible integration across automotive, municipal and off-highway vehicle platforms.
- Painted finish to withstand 2,000 hours salt spray, per ISO 9227-NSS.

TECHNICAL SPECIFICATION

Calatherm Part No		H1731-2
Material		Aluminium
No of Channels		33
Air Fin detail	Height	9 mm
	Pitch	4 mm
	Type	Wavy
Channel Height		2.2 mm
Pressure	Working	17 Bar
	Test	25 Bar
Flow rate		42 l/min
Ambient Temperature		-20°C / +50°C
Heat Rejection		6 kW @ 40°C
Oil type		Hydraulic Oil ISO 46
Finish		Painted - RAL 9005M (Black), to withstand 2,000 hours salt spray
Dimensions		303 X 415 X 45 mm

Note: Other oil coolers and designs are available.

OUTLINE DIMENSIONS

