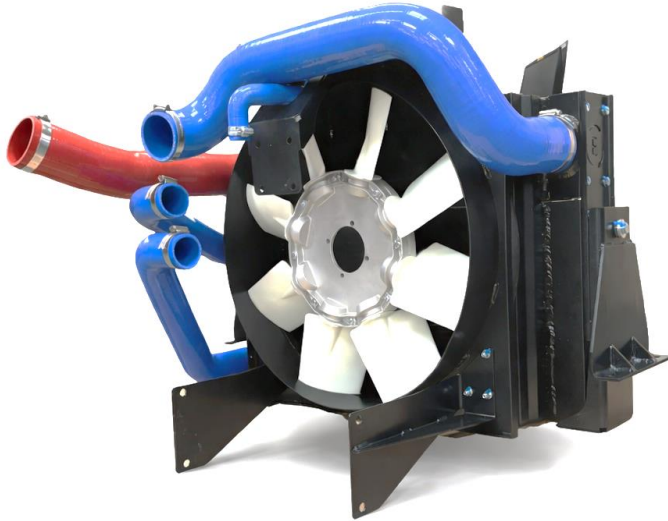


COOLING PACK

COOLING PACK WITH CHARGE AIR COOLER



- High ambient +55°C capability
- Integrated radiator, charge air cooler and expansion tank
- High performance heat dissipation for demanding conditions
- Bar and plate construction for heavy duty and harsh environments
- Compact, space efficient packaging enabling integration within constrained envelopes
- Optimised airflow distribution across cores
- Customisable configurations available for ICE, BEV, HEV and FCEV powertrains

Calatherm's cooling packs manage and dissipate heat across modern vehicle systems, combining a radiator with additional components such as charge air cooler and expansion tank where required into a single integrated assembly.

Designed as complete thermal management systems, they deliver consistent performance under varying loads, maintaining stable operating temperatures even in demanding duty cycles.

Bespoke solutions are available for a wide range of propulsion technologies, including internal combustion engines (ICE), battery electric vehicles (BEV), hybrid systems (HEV), and fuel cell electric vehicles (FCEV). Each system is tailored to address the specific thermal demands of its application.

Built for durability, Calatherm's cooling packs withstand harsh environments, vibration, and temperature extremes, ensuring reliable operation and long service life across diverse industries.

BENEFITS

- Our bespoke fan cooling packs can support various powertrains, delivering a versatile solution that optimises thermal performance across vehicle types.
- Engineered for maximum airflow, our cooling packs enhance heat dissipation, maintaining safe temperatures and preventing heat build-up in challenging conditions.
- Maintaining stable operating temperatures, supporting consistent cooling performance even in extreme +55 °C ambient conditions.
- Simplified system design through integration of the radiator, charge air cooler, and expansion tank into a single cohesive unit.
- Bar and plate construction delivering a durable, high-strength core for demanding applications.

TECHNICAL SPECIFICATION

Model		Model shown was designed for 4 Cyl Turbo Diesel engine *
Ambient Temperature		+55°C
Radiator	Cooling Capacity	65.9 kW
	Coolant In	110°C @ 163 l/min
	Coolant Out	103.3°C @ 163 l/min
	Airflow In	5663 m ³ /hr @ 55°C
	Airflow Out	@ 96.67°C
	Max Cap Pressure	1.0 bar
	Max Water Side Resistance	0.24 bar
Charge Air Cooler	Cooling Capacity	21.6 kW
	Charge Air In	220°C @ 0.151 kg/s
	Charge Air Out	80°C @ 0.151 kg/s
	Airflow In	3835 m ³ /hr @ 55°C
	Airflow Out	3835 m ³ /hr @ 75°C
	Max Charge Air Resistance	100 mbar
	Max Operating Pressure	2.5 bar
Total Airside Pressure Drop		4.0 mbar Max
General	Construction	Bar and Plate
	Mass	48.5 Kg
	Dimensions	902 x 685.4 x 330mm

Note *: Other systems and designs are available.

OUTLINE DIMENSIONS

