

HYDROGEN FUEL CELL COOLING

Hydrogen Fuel Cell Coolers overview

We have a range of hydrogen fuel cell cooling solutions for fuel cells up to 100kW power output for different vehicle sectors and a proven track record for expertly integrating systems that offer a flexible design and packaging to suit the OEM requirements.

Our range of lightweight and efficient heat exchanger platforms compliment the electric fan airflow characteristics meaning we can offer modular cooling solutions to achieve the parameters set out by fuel cell manufacturers.

Used in conjunction with the GTS Smart CAN Controller, fan RPMs are controlled to achieve the desired coolant temperature providing better efficiency of power consumption which also leads to quieter operation.

Our heat exchangers are compatible with the use of de-ionised water and we also have the know-how to recycle waste heat from the Fuel Cells into the vehicle HVAC system, saving power and creating a more efficient heat pump system for the vehicle.

TECHNICAL SPECIFICATIONS



CP-4900-000

| L (mm) (Inch) | W (mm) (Inch) | D (mm) (Inch) | Weight (kg) (lb) | Amb Capability (°C) (°F) | Cooling (kW) (Btu/hr) | Coolant Flow (l/min) | Coolant Outlet Temperature (°C) (°F) |
|---------------------|---------------------|---------------------|------------------------|--------------------------------|-----------------------------|----------------------------|--|
| 270 10.6 | 1190 46.8 | 476 18.7 | 29.5 65 | 40 104 | 40 136485 | 247 l/min | 59 138 |



CP-6622-000

| L (mm) (Inch) | W (mm) (Inch) | D (mm) (Inch) | Weight (kg) (lb) | Amb Capability (°C) (°F) | Cooling (kW) (Btu/hr) | Coolant Flow (l/min) | Coolant Outlet Temperature (°C) (°F) |
|---------------------|---------------------|---------------------|------------------------|--------------------------------|-----------------------------|----------------------------|--|
| 908 35.7 | 808 31.8 | 258 10.1 | 62.3 137 | 41 105.8 | 45 153546 | 150 l/min | 59 138 |



CP-4771-300

| L (mm) (Inch) | W (mm) (Inch) | D (mm) (Inch) | Weight (kg) (lb) | Amb Capability (°C) (°F) | Cooling (kW) (Btu/hr) | Coolant Flow (l/min) | Coolant Outlet Temperature (°C) (°F) |
|---------------------|---------------------|---------------------|------------------------|--------------------------------|-----------------------------|----------------------------|--|
| 602 23.7 | 630 24.8 | 275 10.8 | 41.36 91 | 50 122 | 25 85303 | 63 l/min | 50 122 |

TECHNICAL SPECIFICATIONS



CP-6267-000

| L (mm) (Inch) | W (mm) (Inch) | D (mm) (Inch) | Weight (kg) (lb) | Amb Capability (°C) (°F) | Cooling (kW) (Btu/hr) | Coolant Flow (l/min) | Coolant Outlet Temperature (°C) (°F) |
|---------------------|---------------------|---------------------|------------------------|--------------------------------|-----------------------------|----------------------------|--|
| 1301 51.2 | 870 34.2 | 413 16.2 | 130.5 287 | 40 104 | 120 409456 | 133 l/min | 59 138 |