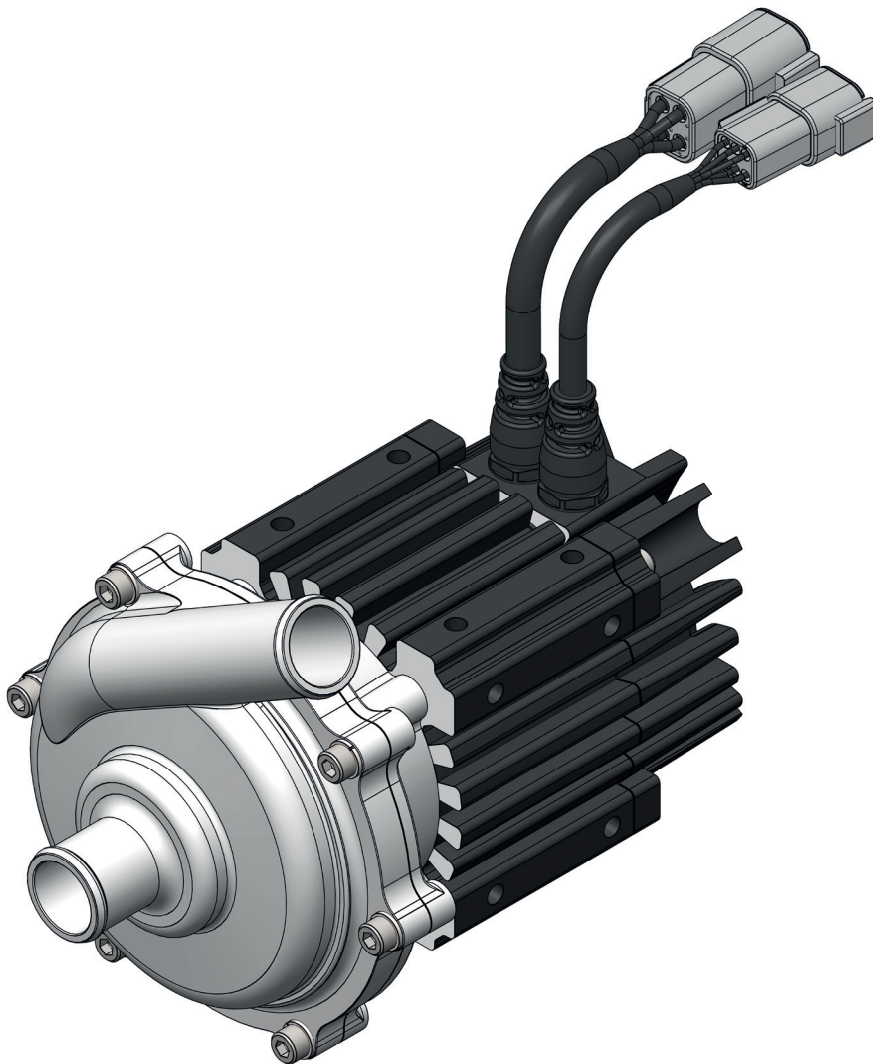


MAGNETIC DRIVE ELECTRIC WATER PUMP

generations of knowledge



SPECIFICATION & TECHNICAL INFORMATION

Designed to the highest standards Built to deliver



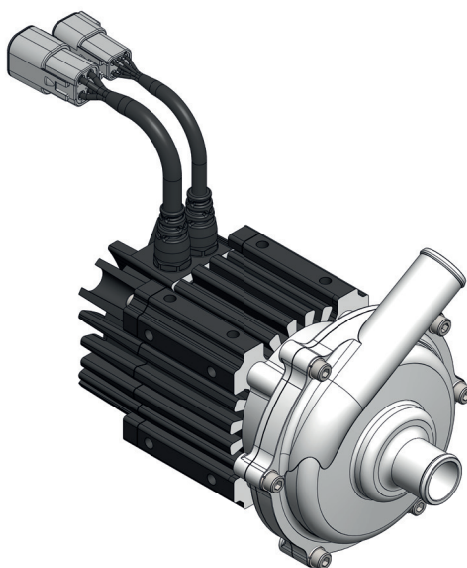
Voltage range
18V-32V



Up to 40,000
hours motor life



>2bar maximum
System Pressure



Compatible with
de-ionised water



Suitable for fuel
cell application



Compatible with
BTMS & electric
motor cooling



MAGNETIC DRIVE ELECTRIC WATER PUMP RANGE 5A-6792 (Base Model)

For superior reliability, low maintenance and high flow vs pressure performance for your hybrid, electric, hydrogen or internal combustion application, our Magnetic Drive Electric Water Pump is your ideal solution.

Magnetic Drive Electric Water Pump provides you with a robust and reliable solution that uses advanced magnetic drive technology to circulate coolant through the pump head and around the circuit.

Its heavy-duty and high-strength magnetic coupling means no connection between the electric motor shaft and the impeller is required, removing the need for a seal – and significantly reducing the risk of coolant leakage – alongside removing the need for a lubricant.

FEATURES

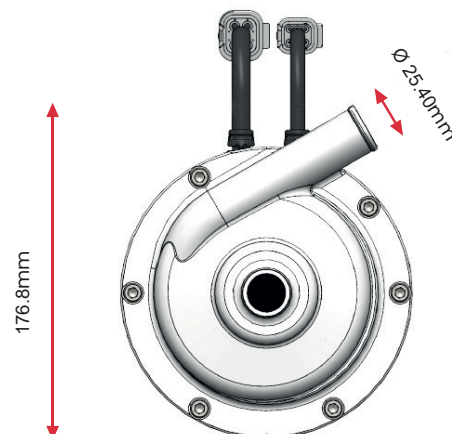
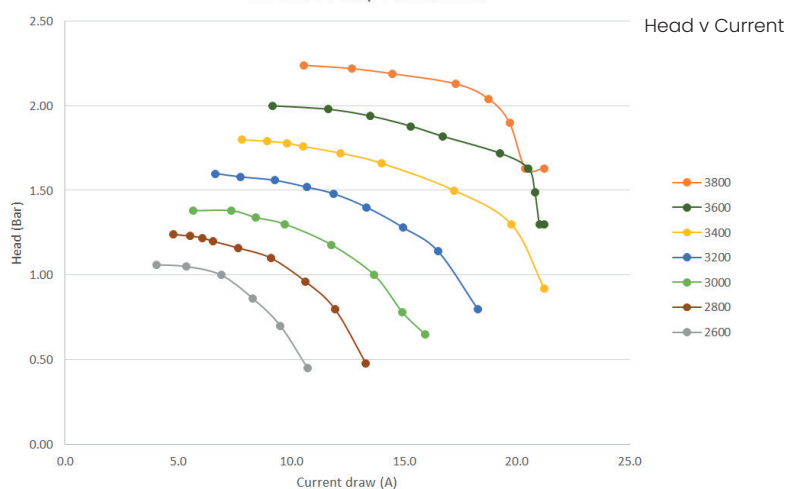
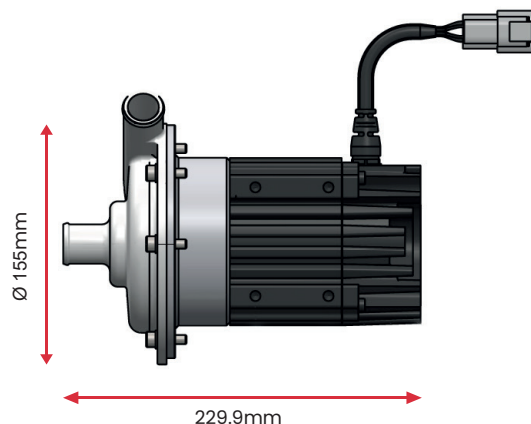
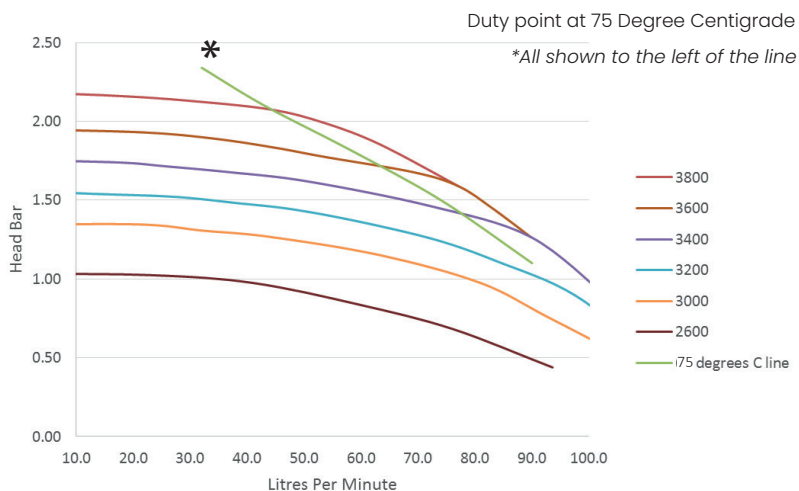
- High flow/ pressure at low pump speed
- Can be mounted in various orientations
- Up to 40,000 hour life (motor)
- Extended warranty options
- Extremely robust design
- Quiet operation
- Various methods of control
- Corrosion resistant
- Integrated controller & power electronics
- Brushless DC permanent magnet motor
- De-ionised water compatible
- No mechanical seal
- Reduced maintenance
- 3Nm magnet
- No media function – run dry protection
- Heavy duty bearings
- EMC certified
- Integrated voltage protection
- Integrated thermal protection
- Standalone/ PWM/ CAN control configurations
- Motor manufactured to Class F temperature rating
- Multiple pump operation on single CAN network through addressing
- Heavy-duty magnet coupling

Enquire today

www.graysonts.com



5A-6792 PERFORMANCE & SIZE



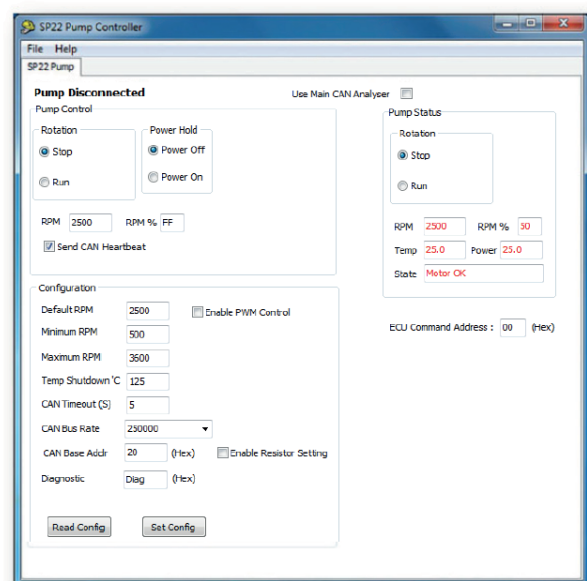
CONFIGURATION AND CONTROL

Easy configuration

- 1 PC-based app to configure the pump (free app)
- 2 Run the pump for test purposes
- 3 Used in conjunction with CAN interface

Easy control

- 1 Default (On/Off)
- 2 CAN SAE J1939
- 3 PWM



Enquire today

www.graysonts.com



TECHNICAL SPECIFICATIONS

| | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|---------------------|----------------------------------|----------|---------|-------|
| Voltage | 18 | 27.2 | 32 | V DC |
| Current | - | 16 | 19 | A |
| Target life | 10,000 | - | 40,000 | Hours |
| Fluid temperature | -20 | - | 75 | °C |
| Ambient temperature | -40 | - | 85 | °C |
| Storage temperature | -40 | - | 95 | °C |
| Wetted materials | Cast aluminium & stainless steel | | | |
| Pressure | - | 1.6 | 2.2 | bar |
| Flow rate | - | 45 | 100 | l/min |
| Motor IP | - | - | 69K | IP |
| Weight | - | 4.5/ 9.9 | - | kg/lb |

TECHNICAL PARAMETERS

| | |
|-----------------------------|--|
| Geometry | X = 229.9mm Y= 176.8mm Z= 155mm |
| Core materials | Aluminium body, aluminium head and brushless motor |
| Connectors | DTM and DTP connectors 6 and 4 Pin, heavy duty vehicle approved cable |
| Fuse size | 25A recommended |
| Current / Maximum current | Rated current 16A / Maximum self-regulating at 19A, operational 3A - 17A |
| Flow / Maximum flow | Rated 45 l/min (11.8 US gpm) / Maximum 120 l/min (32.5 US gpm) |
| Pressure / Maximum pressure | Rated 1.6 bar (24 psi) / Maximum 2.2 bar (33 psi) |
| Inlet pressure | Grayson Thermal Systems Electric Pump requires inlet pressure greater than +0.03bar (+0.45psi) at the operating speed under all operating conditions |
| Weight | 4.5kg/ 9.9lb |
| Motor life | Up to 40,000 hours design life |
| Head orientation | 170° x 2 options via inbuilt motor mountings, please ask advice for other options |
| Outlet size | 25.4mm O.D. (1") / 20mm I.D. (3/4") |
| Ambient temperature | -40 to 85°C |
| Voltage | 24V, (operational range 18V - 32V) (Absolute maximum) Optimised to 27.2 V DC |
| Relevant standards | J1939, ISO7637, ISO16750, IP69K |
| Testing | HALT (Highly Accelerated Life Testing). Including arduous cold, hot and vibration testing from -60°C to 125°C combined with vibration inputs from 2.5g RMS to 11.45g RMS |
| Control capability | CAN J1939 / PWM / Standalone |
| Electronics | Fully encapsulated, protected against voltage transients and reverse polarity connection |
| Storage temperature | -40 to 95°C |
| No media function | Run Dry Protection |

Enquire today

www.graysonts.com

