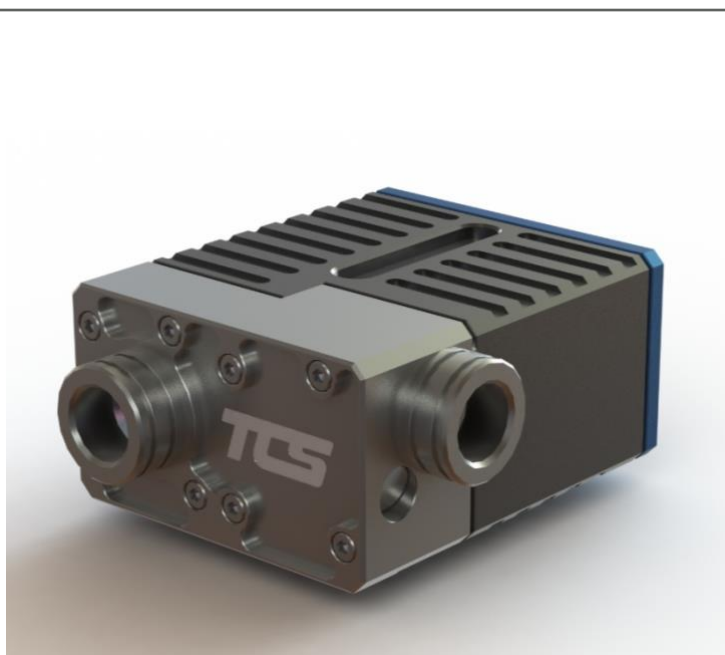


Features

- Dual sensorless, brushless drive motors
- Recirculatory flooded drive bearings
- SS316 / Aluminium Construction
- Freeflow up to 10lpm
- Gauge Outlet Pressure up to 1.5 BAR
- Quiet pulseless smooth flow
- Wide range of chemical resistance
- No dynamic seals
- G1/4 Threaded Ports
- Small Size (68 x 36 x 82mm)

MSSC-90

High Performance Long Life Dual Centrifugal Pump



All components are manufactured and assembled to strict quality control standards (ISO 9001) and are RoHS3 Directive 2011/65/EU, SVCH, CMRT, 3TG and REACH compliant. Everything is designed and manufactured in the UK and of UK origin.

Product Description

The MSSC-90 Dual Centrifugal Pump is a high-quality miniature pump designed for liquids.

TCS has produced a range of centrifugal pumps for a wide and diverse range of applications over the past 15 years.

The MSSC-90 dual centrifugal pump is a product of our latest innovations built upon our expertise and experience applied to produce a reliable, high performance and compact pump unit for all liquid cooling applications.

Suitable for applications such as Computer/Server Cooling Systems, Medical Devices, Fuel Cells, Generic Cooling Systems, Low Pressure Fuel Pump, Lubrication Systems, Battery, and Solar Powered Systems.

The MSSC-90 features a solid construction of premium materials in a solid design enables the MSSC-90 to operate reliably even in hostile environments.

The MSSC-90 requires a brushless controller to operate, TCS offers a multitude of control solutions under the EQi range, these can be either installed externally or internally to the pump with a multitude of control options including simplistic on/off, PWM fan control, Analogue Control, UART Interface.

The MSSC-90 is configurable for internal or external controls and also available with alternate porting and fluid connections.

General Specifications

Type	Liquid Pump
Maximum Flow Rate	10L/min
Input Connection	G1/4 Threaded Port
Input Connection Size	G1/4 Female
Output Connection Size	G1/4 Female
Maximum Pressure	1.5 BAR (GAUGE)
Maximum System Pressure	25 BAR
Wetted Materials	316 Stainless Steel, PEEK, Ertalyte, Acetal, FKM
Outer Body Materials	Anodised Aluminium, 316 Stainless Steel
Coupling Type	Direct drive
Maximum Temperature	100°C
Head Type	Single Head, Dual Drive
Noise Level	<40db (<i>Measured 1 metre from pump</i>)
Built-in Filter	No

Electrical Specifications

Connection	Requires controller (DC input)
Supply Voltage	6-28v
Input Power	15-100W (Min – Maximum Performance)

Mechanical Specifications

Dimensions	68 x 36 x 82mm
Weight	530g (Estimated)

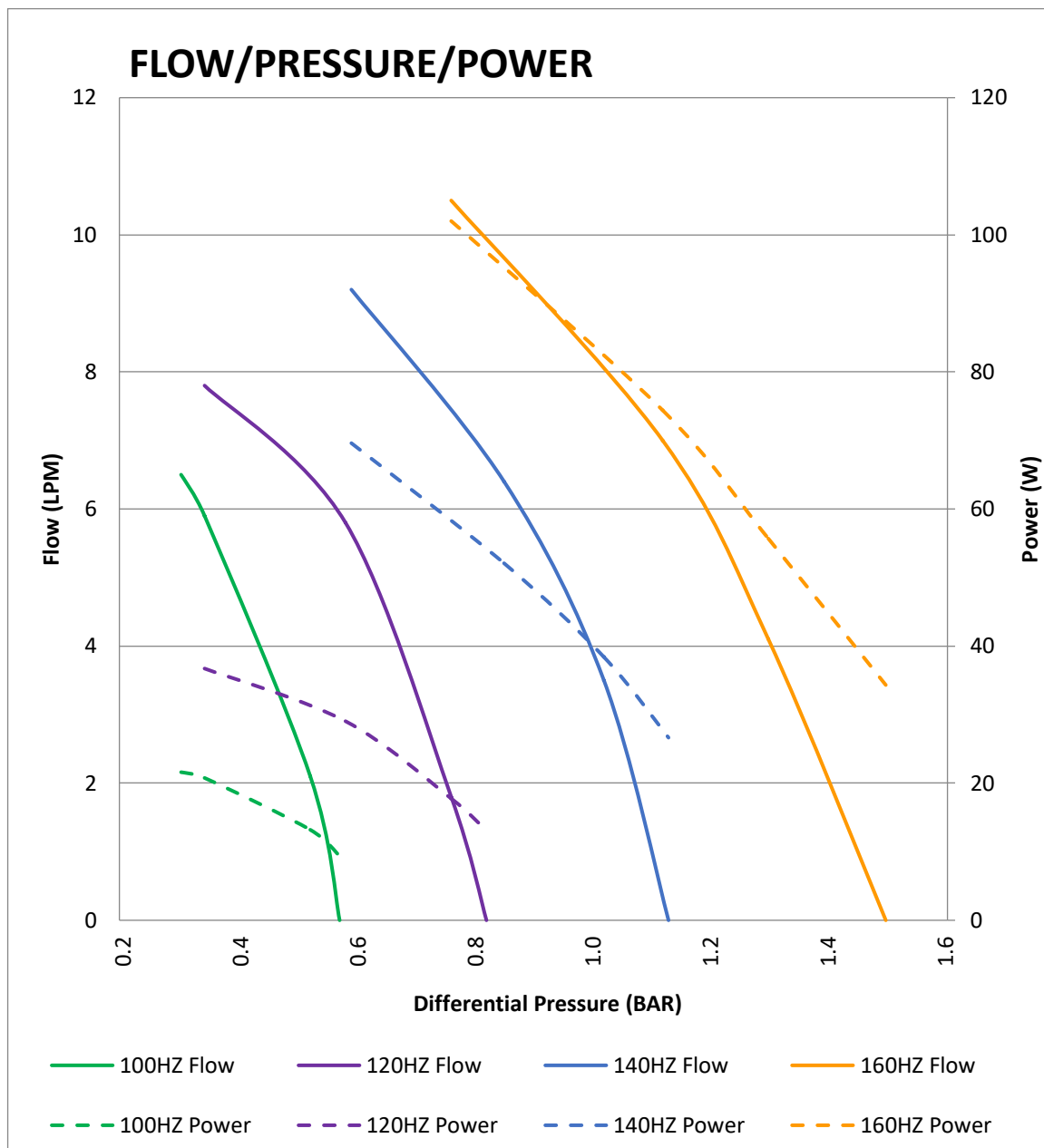
Protection Category

Safety Category Level	S1
IP Rating	IP45 (External Control) – IP40 (Internal Control) – IP68 (Waterproof Models)
Insulation class	A

Approvals

Compliance/Certifications	ISO 9001 Quality Control Standard
Declarations	TCS Declaration of Conformity - RoHS Directive 2011/65/EU, SVCH, CMRT, 3TG and REACH compliant.

Performance Data



TEST CONDUCTED ON TCS COOLANT WITH 24V INPUT USING AN EQI-M-UART CONTROLLERS. PUMP FIXED AT SET RPM TARGETS CONTROLLED VIA UART INTERFACE FOR THE 4 SHOWN PERFORMANCE CURVES (HZ*60 = RPM)

Technical Drawing

