

# MOTORS

Totally oil free, clean and completely safe for people, processes and products.

As a result of employing advanced materials, high velocity and loaded sliding surfaces can operate effectively with water as their only coolant/lubricant.

The potential for cross contamination of the system fluid or the lubricating oil is removed.

The result is an exceptionally small light weight product.

Each bearing employs a hard/soft interface that minimises vibration and ensures a low noise and high efficiency operation.

Manufactured in A.I.S.I. 316 stainless steel as standard the product offers excellent resistance to corrosive fluids.

The materials utilised internally can be selected to suit the most appropriate combinations for not just tap water but also sea water and various other fluids.

Minimal pulsation is experienced with these units due to the multiple piston design and the high operational speeds.

The physical size of the motor in comparison to the power generated offers one of the most compact

## **Geared Motor Assemblies**

A standard range of epicyclic gearboxes are available for operation below the recommended minimum speed.

## **Temperature**

The units will generate full performance from 2°C to 50°C. For temperatures below freezing an environmentally friendly antifreeze is available;

ask for the glycol data sheet. Operation above 50°C is possible, but the volumetric efficiency of the unit will be affected c

onsult TWHC and specify the maximum operating temperature.

## **Filters**

All incoming water to the motors must be pre-filtered to a nominal rating of 10µm (25µm absolute) with a filter element rating of

β10 = 75 or better. Return line filtration is advisable on closed loop systems. High pressure filtration may also be considered.

## **Shaft Loading**

Radial and axial loads are not permitted on the motor output shaft.

## Operation

It is advised that the motors are operated on a regular basis to ensure the appropriate starting torque is maintained.  
drive solutions

Type		M3	M6	M15	M30	M60	M180
Displacement cc/rev	Max	3	6	18.6	34.6	70.3	225
	Min	-	4.6	15	30	63	135
RPM	Min*	500	500	500	500	500	300
	Max**	4000	4000	4000	4000	4000	2000
Max power (kW) cont.		2.7	5.4	17.5	31	67	120
Max. input (l/min) cont.		12	24	72	132	292	450
Max cont. pressure (bar)		160	160	160	160	160	160
Weight (kg)		1.5	2.2	6	10	19	82
Temperature °C	max	50	50	50	50	50	50
	min***	2	2	2	2	2	2
Drawings Download	Step						
Graph							
Download Pumps catalogue including drawings and performance graphs							