

TD QUIET PUMP

Specifications:

Rated voltage: 12 V DC
Operating voltage range 6 to 13.2 VDC
Rated power: 6 W
Rated current: 0.5A
Max head: 0.8 ft (2.7 m)
Nominal discharge: 400 LPH
Connection size 3/8" barbs (10mm)
Maximum pressure: 58 Psi (4 Bar)
Temperature range: up to 185°F (85°C)
Weight : 200 g
Noise measurement: 26 ~ 30dBA
Motor: brushless DC motor
Pump ideal life time: 50,000 Hours
RPM Signal: single wire on 3 pin connector
RoHS Compliant



Materials of Construction (wetted parts)

Part	Materials
Pump Housing	PPS
Gasket	EPDM/Silicon Rubber
Impeller	PPE/ABS
Bearing	Fine Ceramic / Carbon
Other	Stainless Steel / Plastic

Application

As the computer industry continues to accelerate its pace towards implementing liquid cooling solutions, pumps have become a pivotal concern for the adoption of such systems in mission critical machines. Small size, low or no maintenance, similar to that afforded by fans, and extended reliability are prerequisites for the successful transition from air to liquid cooling systems. Used in mass produced water-cooled workstations, and presents an ideal solution for liquid cooling of processors and electronic components..

Summary

The pump continues to work quietly throughout its entire service life. The bearing is self-realigning. It is lubricated directly by the fluid being pumped (wet rotor design). This means that the pump is maintenance free. Since the rotor is always magnetically held in the designated position, small particles of dirt do not present a problem. Under normal conditions, it is impossible for the rotor to become locked. Reliable start is also ensured even after long periods of shut down. The permanent magnet rotor /impeller unit is driven by the magnetic field generated by the surrounding stator. The stator is wrapped entirely around the rotor. As a result, the entire pump is only slightly taller than the rotor itself, measuring only 1.4 inch height, perfect for applications where space is limited. Supply voltage variation provides a simple means of controlling the speed of the TD pump over a large output range. All parts in contact with the medium are 100% corrosion resistant. With an optional tachometer output, it is possible to monitor the speed of the pump directly.



Areas of Use:

- Electronics Cooling
- Laser Cooling
- Medical Water Circulation
- Chiller Systems Liquid Transfer
- General Purpose Pumping