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50860 Series High Pressure Centrifugal Pump

"CYCLONE PUMP"

Stainless Steel DC Motor / Pump Unit

A range of Stainless Steel General Purpose Centrifugal pumps designed specifically for the marine and industrial markets. Typical applications would be for circulation applications such as hot water systems, livewell or bait tank installations.

Features & Benefits

- · Heavy duty robust design
- · Stainless steel construction
- · Long life DC motor
- · Silent running
- · Anti-clog impeller design
- · Long life mechanical seal
- · Single tool servicing

Specification

- Recommended Duty Max. 30 minutes on, Min. 30 minutes off.
- · Motor life 2500 hours.
- · 2m suction lift when wetted.



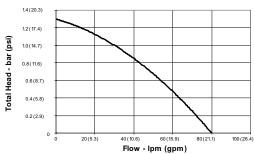
WARNING: Continuous running of pump will cause motor casing to get hot. DO NOT touch - burns may occur.



WARNING: Do not pump petrol or fluids with a flash point below 37°C (98°F). Explosion and death may occur.

Performance Curve

 $\,$ 50870-Series Cyclone Performance Typical performance based on pumps running at 12.8V and 25.6V DC $\,$





Part Numbers

Model	Voltage	Port Fitting	
50860-0012	12Vdc	NPT	
50860-2012	12Vdc	BSP	
50860-0024	24Vdc	NPT	
50860-2024	24Vdc	BSP	

Relevant Standards

- ISO 8846 MARINE and USCG Regulations for Ignition Protection
- ISO 8849 MARINE Bilge Pump Standard

Installation Instructions

- The Cyclone can be mounted on any flat surface.
- The pump must be installed below the lowest fluid level to maintain flooded suction.
- Fit pump in a dry, well ventilated position.
- Use rubber grommets provided to minimise vibration.
- If mounted vertically, ensure the motor is above the pump head.
- Use 3/4" pipe fittings with PTFE pipe joint tape or compound.
- Plastic fittings should not be used if pump is installed below the waterline.



WARNING: All marine pumps discharging overboard must be installed with the overboard discharge well above both static and heeled waterlines. Flooding and death may occur.

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Operation

- · Pump may be run dry for short periods of time.
- · Pump may be run against a closed discharge.

Maintenance

- · Check all electrical connections periodically.
- Check seal area for signs of leaking.

Spare Parts List

See Exploded View (Page 4) for explanation of parts key

(A) Pump Head Kit (NPT)	50864-0000
Pump Head Kit (BSP)	50864-2000
(B) Seal Kit	50865-0000
(C) Motor Kit (12V)	50866-0012
Motor Kit (24V)	50866-0024

KEY	DESCRIPTION	KIT KEY			- •	
		Α	В	С	KIT	
	End Cover	1			1	
	Screws	5	5		5	
	O-Ring	1	1		1	
	Locking Nut	1	1		1	
5	Impeller	1			1	
6	Seal		1		1	
	Housing	1			1	
8	Slinger		1		1	
9	Motor			1	1	

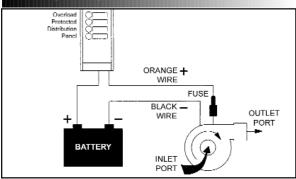


WARNING: Motor may get hot after prolonged use, do not touch. Burns may occur.

Wiring Instructions

- All electrical wiring should be connected and installed by a competent electrician. A qualified person must ensure that the installation conforms to the regulations in place.
- Ensure connections are of the correct polarity red/orange (+ve) black negative (-ve). Note; if wired in reverse the pump will still run but give poor performance.
- Always use the correctly rated fuse or circuit breaker. If a circuit breaker is used it should be of the "conditionally surge current proof" type. Please see document 43010-0272 for recommendations or consult the factory if more advice is needed.
- Check that the supply voltage is compatible with the voltage specified on the label. A discharged battery will result in reduced pump performance.

Wiring Diagram





WARNING: If the fuse fails repeatedly, do not fit a heavier fuse or bridge the terminals. Fire and death may occur.

Wire Size Table

Model		Maximum Current	Fuse Size	Wiring Size*		
Number	Voltage			AWG	mm ²	Max. Length
50860-XX12 12V	21A	25A	10	6.0	4.5m (15 ft)	
			6	15.0	9.0m (30 ft)	
50860-XX24 24V	10.5A	15A	12	4.0	4.5m (15 ft)	
			10	6.0	9.0m (30 ft)	
wire length from battery to pump and back to battery, maximum voltage drop 3%						

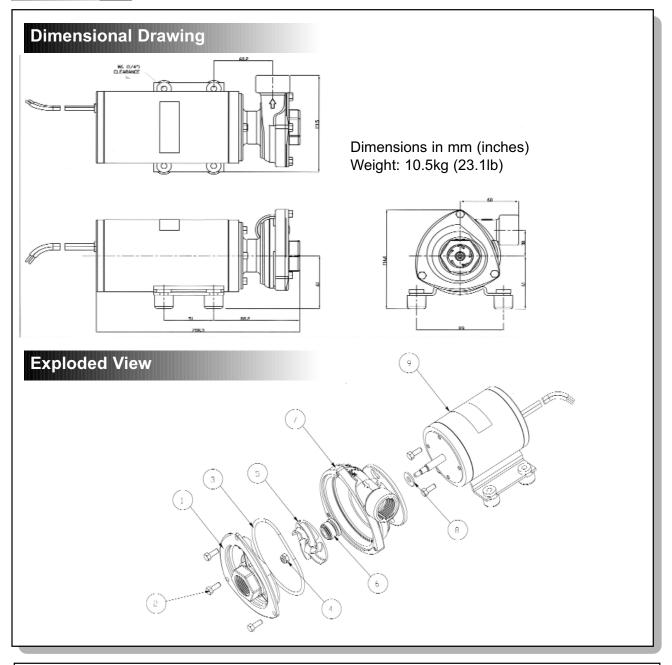


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Dis - Assembly Re - Assembly Disconnect Wet the flat seal pump from part and cup power supply. rubber and push Remove 3 end into head. cover bolts, end cover & o-ring. Carefully Fit head to motor holding impeller, locking into position and remove impeller tighten head nut. fixing bolts. Remove Lubricate inside impeller. of mechanical seal and push onto shaft. Fit and carefully Loosen 2 head hold impeller and tighten nyloc nut. fixing bolts, rotate pump Once tight, head and pull to carefully hold remove. impeller and undo nut 1 revolution to set impeller clearance. Remove seals from pump body. Fit o-ring to end 10 cover and fit onto head. 11 Tighten 3 end cover bolts.



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Engineered for life

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