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"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.



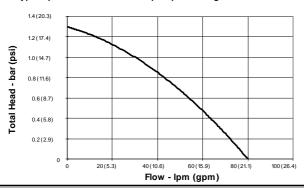
WARNING: Continuous running of pump will cause motor casing to get hot. DO NOT touch - burns may occur.



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
50870-0012	12Vdc	NPT
50870-2012	12Vdc	BSP
50870-0024	24Vdc	NPT
50870-2024	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.



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) Pump Head Kit (BSP)	50874-0000 50874-2000
(B) Seal Kit	50875-0000
(C) Motor Kit (12V)	50876-0012
Motor Kit (24V)	50876-0024

KEV	DESCRIPTION	KIT KEY		ΕY	QTY PER
	DESCINI NON	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
	Seal		1		1
	Housing	1			1
8	Slinger		1		1
9	Motor			1	1

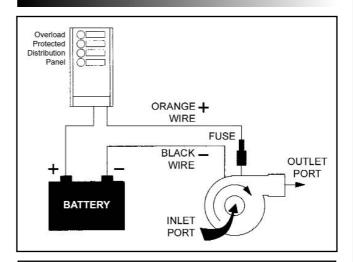


WARNING: Motor may get hot after prolonged use, do not touch. Burns may occur.

Wiring Instructions

- Make all electrical connections in dry locations.
- In humid/wet environments, connections must be sealed to prevent corrosion.
- Protect the circuit with a correctly fitted fuse or circuit breaker in the red/orange positive (+ve) lead, as close as possible to the power source.
- Connect the black negative (-ve) lead to the negative battery terminal.
- Inadequate voltage at the pump (not more than 3% below rated voltage) may result in blowing fuses, poor pump performance, or failure for the pump to start. See table for wire sizing.

Wiring Diagram





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

Model		Maximum	Fuse	Wiring Size*		
Number	I Voltage I		Size	AWG	mm²	Max. Length
50870-XX12	12V	21A	25A	10	6.0	4.5m (15 ft)
				6	15.0	9.0m (30 ft)
50070 VV24	24V	10.5A	13A	12	4.0	4.5m (15 ft)
50870-XX24	24 V	10.5A		10	6.0	9.0m (30 ft)
* wire length from battery to pump and back to battery, maximum voltage drop 3%						



Dis	- Assembly		Re	- Assembly	
1	Disconnect pump from power supply. Remove 3 end cover bolts, end cover & o-ring.		6	Wet the flat seal part and cup rubber and push into head.	
2	Carefully holding impeller, remove impeller nut.		7	Fit head to motor locking into position and tighten head fixing bolts.	
3	Remove impeller.		8	Lubricate inside of mechanical seal and push onto shaft.	
4	Loosen 2 head fixing bolts, rotate pump head and pull to remove.		9	Fit and carefully hold impeller and tighten nyloc nut. Once tight, carefully hold impeller and undo nut 1 revolution to set impeller	
5	Remove seals from pump body.	()		clearance.	- Inim
	Josy.		10	Fit o-ring to end cover and fit onto head.	
			11	Tighten 3 end cover bolts.	



