



a xylem brand

Cyclone Pump

50860 Series High Pressure Centrifugal Pump

INSTRUCTION MANUAL

- FR** Pompe centrifuge haute pression série 50860
MANUEL D'INSTRUCTIONS
 - DE** Hochdruck-Zentrifugalpumpe Serie 50860
BEDIENUNGSANLEITUNG
 - IT** Pompa centrifuga ad alta pressione serie 50860
MANUALE DI ISTRUZIONI
 - NL** 50860 serie hogedruk centrifugaalpomp
HANDLEIDING
 - SE** 50860-serien högtryckscentrifugalpump
INSTRUKTIONSMANUAL
 - ES** Bomba centrífuga de alta presión serie 50860
MANUAL DE INSTRUCCIONES
-

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.

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 2,500 hours
- 6.5ft (2m) suction lift when wetted
- Fluid temperature 39°F (4°C) min 203°F (95°C) max

RELEVANT STANDARDS

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

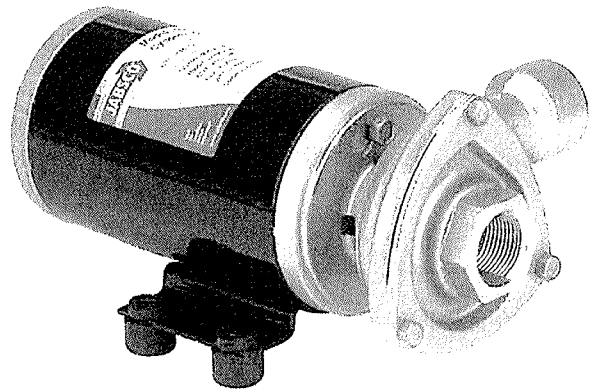
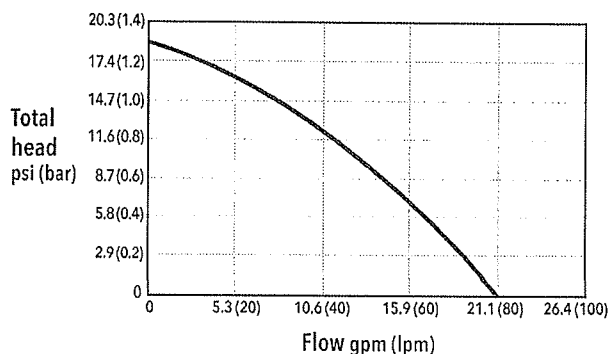
 **WARNING:** Continuous running of pump will cause motor casing to get hot. DO NOT touch – burns may occur. 

 **WARNING:** Do not pump petrol or fluids with a flash point below 100°F (37.8°C). Explosion and death may occur. 

PERFORMANCE CURVE

50860 - Series Cyclone Performance

Typical performance based on pumps running at 12.8V and 25.6V DC



PART NUMBERS

Model	Voltage	Ports	Discharge
50860-0012	12Vdc	NPTF	Right
50860-0112	12Vdc	NPTF	Left
50860-2012	12Vdc	BSPF	Right
50860-0024	24Vdc	NPTF	Right
50860-2024	24Vdc	BSPF	Right

INSTALLATION INSTRUCTIONS

- The Cyclone pump 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 minimize 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

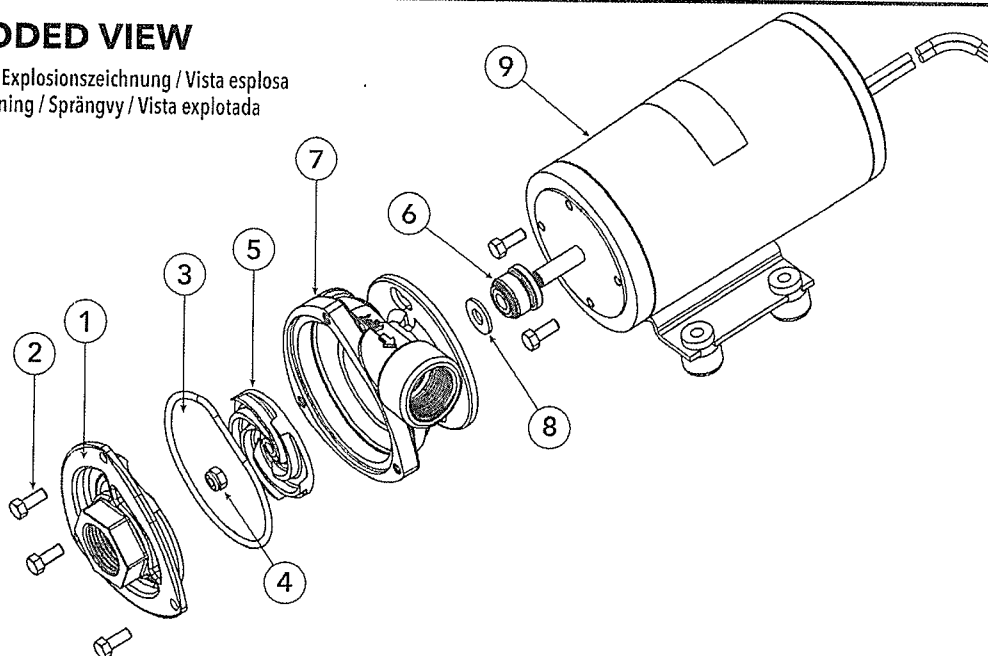
- Pump may be run dry for short periods of time.
- Pump may be run against a closed discharge.

MAINTENANCE

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

EXPLODED VIEW

Vue éclatée / Explosionszeichnung / Vista esplosa
Explosietekening / Sprängvy / Vista explotada



SPARE PARTS LIST

A	Pump Head Kit (NPT)	50864-0000	
B	Seal Kit	50875-0000	
KEY	DESCRIPTION	KIT KEY QTY	
		A	B
1	End Cover	1	
2	Screws	5	5
3	O-Ring	1	1
4	Locking Nut	1	1
5	Impeller	1	
6	Seal		1
7	Body	1	
8	Slinger		1
9	Motor		



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

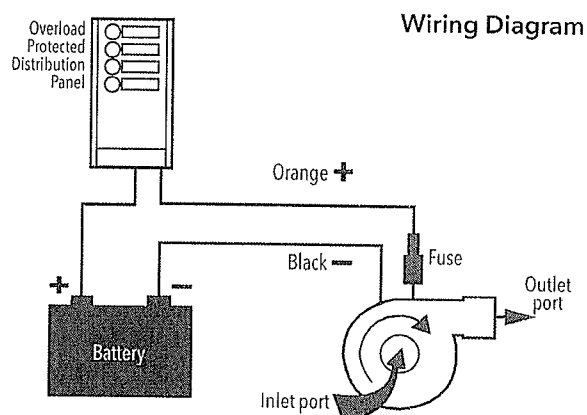


WARNING: If the fuse fails repeatedly, do not fit a heavier fuse or bridge the terminals. Fire and death may occur.



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.
- Check that the supply voltage is compatible with the voltage specified on the label. A discharged battery will result in reduced pump performance.



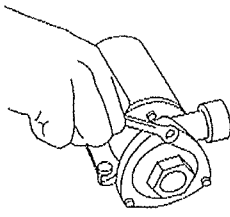
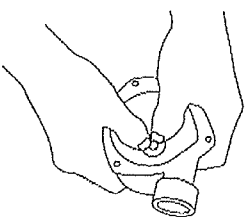
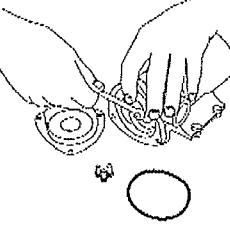
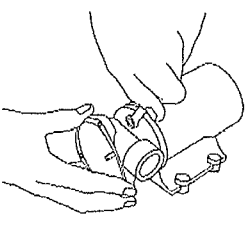
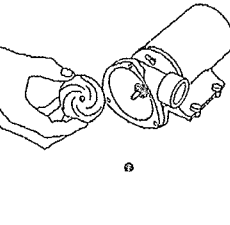
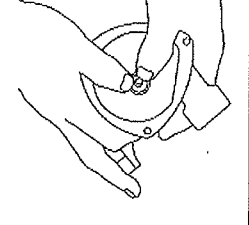
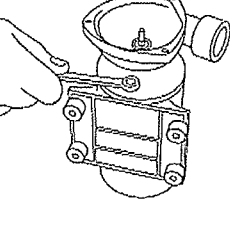
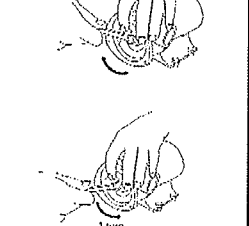
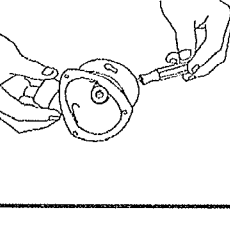
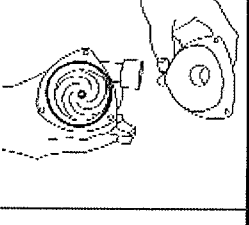
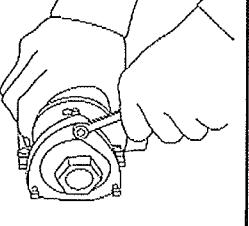
WIRE SIZE TABLE

Model Number	Voltage	Maximum Current	Fuse Size	Wiring Size		
				AWG	mm ²	Max. Length*
50860-XX12	12V	21A	25A	14	6.0	15 ft (4.5m)
				10	15.0	30 ft (9.0m)
50860-XX24	24V	10A	15A	16	4.0	15 ft (4.5m)
				14	6.0	30 ft (9.0m)

* Wire length from battery to pump and back to battery, maximum voltage drop 10%

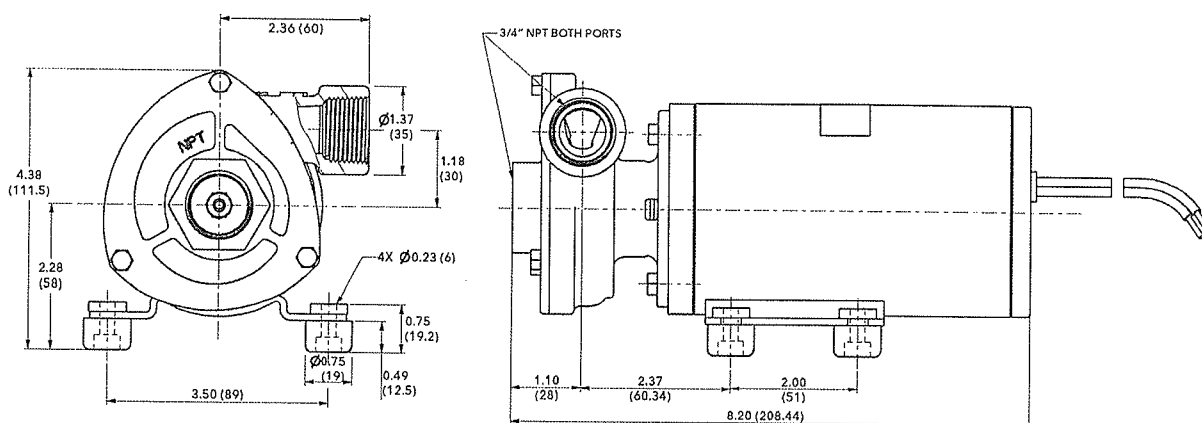
Disassembly

Reassembly

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 clearance.	
5	Remove seals from pump body.		10	Fit o-ring to the body, then place on the head.	
			11	Tighten 3 end cover bolts.	

Dimensions Inches (Millimeters)

Dimensions Pouces (Millimètres) / Abmessungen Zoll (Millimeter) / Dimensioni Pollici (millimetri) / Afmetingen Inch (Millimeters)
Mått tum (millimeter) / Dimensiones pulgadas (milímetros)



WARRANTY

XYLEM LIMITED WARRANTY WARRANTS THIS PRODUCT TO BE FREE OF DEFECTS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR FROM DATE OF MANUFACTURE. THE WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, GUARANTEES, CONDITIONS OR TERMS OF WHATEVER NATURE RELATING TO THE GOODS PROVIDED HEREUNDER, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY EXPRESSLY DISCLAIMED AND EXCLUDED. EXCEPT AS OTHERWISE PROVIDED BY LAW, BUYER'S EXCLUSIVE REMEDY AND SELLER'S AGGREGATE LIABILITY FOR BREACH OF ANY OF THE FOREGOING WARRANTIES ARE LIMITED TO REPAIRING OR REPLACING THE PRODUCT AND SHALL IN ALL CASES BE LIMITED TO THE AMOUNT PAID BY THE BUYER HEREUNDER. IN NO EVENT IS SELLER LIABLE FOR ANY OTHER FORM OF DAMAGES, WHETHER DIRECT, INDIRECT, LIQUIDATED, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY OR SPECIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFIT, LOSS OF ANTICIPATED SAVINGS OR REVENUE, LOSS OF INCOME, LOSS OF BUSINESS, LOSS OF PRODUCTION, LOSS OF OPPORTUNITY OR LOSS OF REPUTATION. THIS WARRANTY IS ONLY A REPRESENTATION OF THE COMPLETE LIMITED WARRANTY. FOR A DETAILED EXPLANATION, PLEASE VISIT US AT www.xylem.com/en-us/support/, CALL OUR OFFICE NUMBER LISTED, OR WRITE A LETTER TO YOUR REGIONAL OFFICE.

RETURN PROCEDURE

Warranty returns are conducted through the place of purchase. Please contact the appropriate entity with a receipt of purchase to verify date.

FR Pompe centrifuge haute pression série 50860

POMPE CYCLONE

Moteur à courant continu en acier inoxydable / Unité de pompe

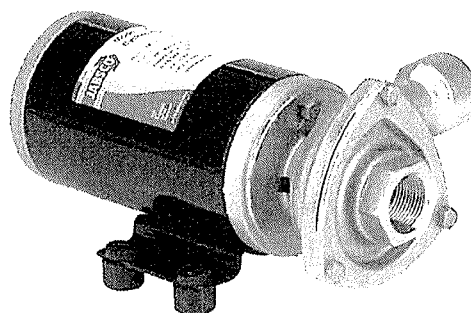
Une gamme de pompes centrifuges à usage général en acier inoxydable conçues spécifiquement pour les marchés marins et industriels. Les applications typiques seraient les applications de circulation telles que les systèmes d'eau chaude.

Caractéristiques et avantages

- Conception robuste et résistante
- Construction en acier inoxydable
- Moteur à courant continu longue durée
- Fonctionnement silencieux
- Conception de roue anti-obstruction
- Garniture mécanique longue durée
- Entretien d'un seul outil

SPÉCIFICATION

- Service recommandé – Max. 30 minutes, min. 30 minutes de repos
- Durée de vie du moteur 2 500 heures
- Hauteur d'aspiration de 6,5 pieds (2 m) lorsqu'il est mouillé
- Température du fluide 39°F (4°C) min 203°F (95°C) max



NORMES PERTINENTES

- Réglementations ISO 8846 MARINE et USCG pour la protection contre l'allumage
- Norme de pompe de cale ISO 8849 MARINE



AVERTISSEMENT : Le fonctionnement continu de la pompe entraînera une surchauffe du carter du moteur. NE PAS toucher - des brûlures peuvent survenir.



AVERTISSEMENT : Ne pompez pas d'essence ou de fluides dont le point d'éclair est inférieur à 100 °F (37,8 °C). Une explosion et la mort peuvent survenir.

