



a xylem brand

Washdown & Water Pressure System Pumps

INSTRUCTION MANUAL - HD MODELS

- FR** Manuel d'instructions pour pompes de lavage et à eau sous pression (modèles HD)
- DE** Bedienungsanleitung für Abspül- und Wasserdruck-Systempumpen (HD-Modelle)
- IT** Manuale di istruzioni per pompe per lavaggio e autoclave (modelli HD)
- NL** Instructiehandleiding voor reinigings- en waterdruksysteempompen (HD-modellen)
- SE** Instruktionsmanual för Avtvättning och vatten Trycksystempumpar (HD-modeller)
- ES** Manual de instrucciones para lavado y agua bombas de sistema de presión (modelos HD)

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Purpose of this manual

The purpose of this manual is to provide necessary information for product installation, operation and maintenance.



CAUTION: Read this manual carefully before installing, using or servicing this product. Failure to follow the instructions within this manual could result in explosion, property damage, severe personal injury and/or death.



WARNING: This pump is designed for use with fresh water and salt water ONLY. Use with any other fluid could result in damage to the pump and the surrounding environment, possible exposure to hazardous substances and injury.



WARNING: Do not use pump if it presents some damage such as burned or broken pressure switch, exposed electric wire and/or contacts.



EXPLOSION HAZARD: Do not use motor pump units for pumping gasoline or other flammable liquids. Doing so may result in explosion which could cause personal injury, death or property damage.



CAUTION: Disconnect power from the system before working on the unit to avoid personal injury, damage to the surrounding environment and/or damage to the unit.



CAUTION: Always install proper fuse size to prevent damage to product should a short occur. Failure to install proper fuse could increase risk of pump malfunction, potentially resulting in personal injury and/or fire hazard. The product label outlines the proper fuse size for your model.



CAUTION: Keep all wire connections above the highest water level. Wires must be joined with butt connectors and a marine grade sealant to prevent wire corrosion.



CAUTION: Electrical wiring should be performed by a qualified and competent electrician, in accordance with all local and national electrical codes.



CAUTION: This pump has an integrated pressure switch. When connected to power, it can start automatically without warning if the pressure switch senses pressure below that of switch shut-off.

Resources

Technical Data Sheets	Refer to the website. Data sheets will include technical information as well as replacement parts.
Available Part Numbers/ Configurations/Accessories	Refer to the website. Our catalog, flyers and distributor literature will list this information as well.
Customer Service/ Technical Support	Refer to cover for appropriate regional contact numbers.
Other Information and Resources	Refer to website.

Compliance

Directive	Standard(s)
2014/30/EU Electromagnetic Compatibility (EMC)	EN 60945:2002 Maritime navigation and radio communication equipment and systems. General requirements. Methods of testing and required test results.
2013/53/EU Recreational Craft (RCD)	ISO 8846:1990 (EN 28846:1993) Small craft. Electrical devices. Protection against ignition of surrounding flammable gases.
2011/65/EU Restriction of Hazardous Substances (RoHS)	EN 50581:2012 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

Warranty and Returns

Xylem limited warranty warrants this product to be free of defects and workmanship for a period of 3 years. 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.

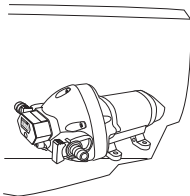
Return Procedure

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

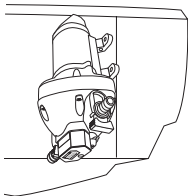
Installation

Mounting the Pump

Using the rubber dampening feet, bolt or screw the pump to a solid surface above the water-line in a dry area with adequate ventilation. Mount the pump horizontally, or if vertically, with the pumphead facing down. The pump is not submersible.



Horizontal Mounting



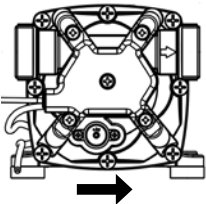
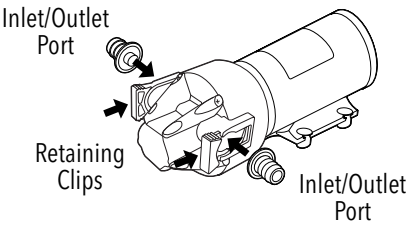
Vertical Mounting



Do Not Submerge

Installing the Plumbing

Use of flexible hose of a size corresponding to that of the included port fittings is recommended. Attach the hose firmly to these fittings using two stainless steel hoseclamps per fitting. Insert the fittings o-ring side first into the pumphead and then push the retaining clips in to secure the fittings. A Jabsco 20 or 40 Mesh strainer should be installed on the intake side of the pump. The pumphead will have an arrow on it indicating flow direction. The vast majority of pumps are left to right as shown below.



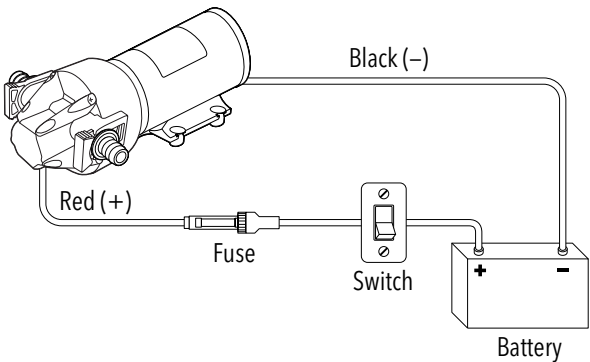
Typical Flow Direction

Connecting to a Power Source



WARNING SAFETY PRECAUTION: Prior to activation, ensure that the hose clamps, discharge hose and retaining clips on fittings are secure.

Proper wire gauge and fuse size based on the maximum current draw, the wire length, and any relevant regulatory standards must be used. Current draw and fusing information is shown on the pump label. Correct connection of the positive and negative leads to the power source is shown below.



These pumps come with wire leads that are either 14, 16, or 18 AWG (2.5mm², 1.5 mm², or 1 mm²). The wire gauge can be found printed on the leads. Below is a guide to use when extending the wires. Do not use a smaller diameter wire than the pump's leads.

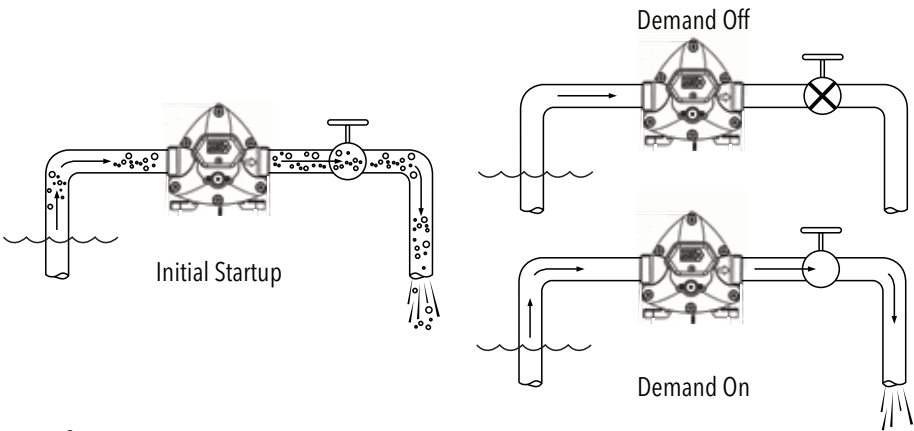
Recommended Wire Size

Total Wire Length (positive to pump to ground) – feet (meters)

0 – 6 ft (0 – 1.8 m)	6 – 10 ft (1.8 – 3 m)	10 – 15 ft (3 – 4.6 m)	15 – 30 ft (4.6 – 5.5 m)	30 – 40 ft (5.5 – 12.2 m)
16 AWG (1.5 mm ²)	14 AWG (2.5 mm ²)	12 AWG (4 mm ²)	10 AWG (6 mm ²)	8 AWG (10 mm ²)

Operation

Ensure that the intake side of the line connected to the pump inlet is submerged in water. With power on and the discharge line open, allow the pump to prime. If equipped with an on-demand pressure switch the pump will turn on when the discharge line is open and will turn off once the line is closed and the switch off pressure is reached. When finished, manually turn off the power to the pump. Note that the pump is intended for intermittent duty only. If allowed to overheat the thermal protection will shut it off until sufficiently cooled, at which point it will automatically re-set.



Maintenance

During Season

Periodically (monthly recommended) check electrical connections, hydraulic connections and plumbing for looseness, any signs of damage, or anything else unusual. Inspect strainer as well and clean as needed.

Off-Season & Winterizing

Properly drain unit by removing the intake line from the fluid and running the pump until it is no longer dispensing fluid. Winterize the unit (if in environment where temperatures will go below freezing) with an appropriate anti-freeze by running the unit so as to fill with anti-freeze. Do not allow any fluid in the pump to freeze. If this occurs the fluid will expand and can crack the pump or damage internal components.