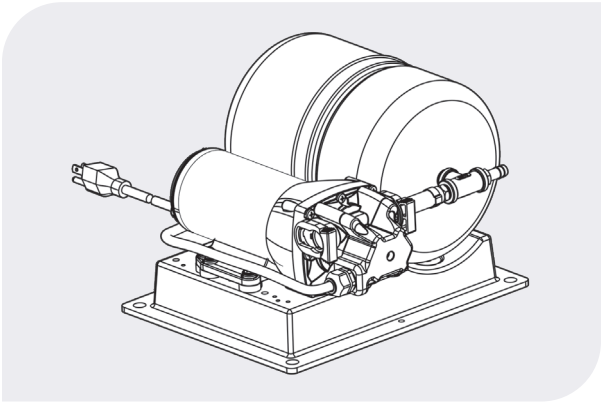
FLOJET
xylem

Installation and Operation Manual



02840/R2840 Series

Water Booster System

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Water Booster System

INSTALLATION & SERVICE INFORMATION

The FLOJET 02840/R2840 Series Water Booster System is designed to provide steady water pressure and generous water flow. The pump is fully automatic with a built-in switch and check valve to maintain system pressure and will supply smooth water flow from a trickle to full flow. Typical uses are pure water dispensing in small domestic and commercial appliances or equipment where the water supply pressure is very low or fluctuates widely.

GENERAL SAFETY INFORMATION

Protect yourself and others by observing all safety information. Shut off power and drain pressure from system prior to service.

Use appropriate personal protection equipment when servicing unit.

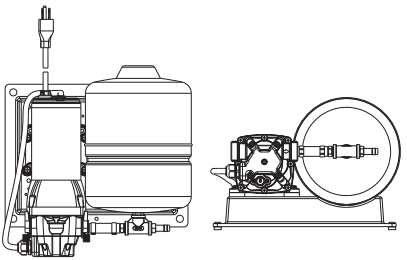
Mounting

The FLOJET 02840/R2840 Series Booster Pressure System should be mounted in a dry and adequately ventilated area.

Select a location where the plumbing is as direct as possible and the inlet strainer is visible and accessible for cleaning.

The unit can be floor or wall mounted. If wall mounted, the pump head should be down or lower than the motor.

Fasten base securely on solid surface with the four rubber mounting feet assembled to base as shown below.



Vertical Horizontal

Plumbing

Installing an inline strainer (not included) on the suction line is recommended to protect the system from foreign debris. Fasten strainer in a location accessible for cleaning between the pump inlet & water supply line from tank. Clamp all hose connections securely to avoid leaks.

If connecting system to city water supply, a pressure regulator (not included) is required to limit pressure to 30 PSI (2.1 Bar) maximum. The pressure regulator may be installed between the incoming water supply and pump or strainer inlet. Clamp all hose connections securely to avoid leaks.

WARNING: FIRE AND EXPLOSION HAZARD. Installation site must be well vented and free of all flammable materials and fluids (fuel, oil, kerosene, etc) from area. Failure to comply may result in fire, damage to the pump and / or personal injury. Do not use motor pump units for pumping gasoline or other flammable liquids with flash point below 100°F (37.8°C). Doing so may result in explosion which could cause personal injury, death or property damage.

DANGER: REDUCE THE RISK OF ELECTRIC SHOCK. 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.

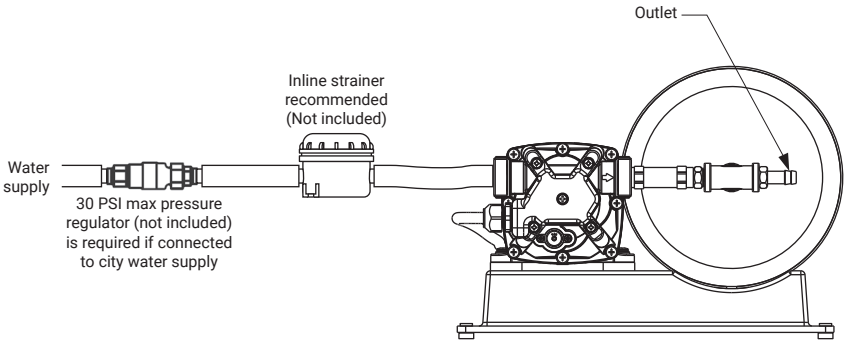
CAUTION: BURN HAZARD. Motor case could get hot during extended operation. Prolonged contact with skin may cause a burn.

WARNING: Do not use the pump if it shows any signs of damage, such as a burned or broken pressure switch or exposed electrical wire and/or contacts.

WARNING: Do not modify or alter the pump in any way as this could lead to a fire hazard resulting in property damage, severe personal injury and/or death.

NOTICE: END OF LIFE PRODUCT DISPOSAL. Handle and dispose of all waste in compliance with local laws and regulations.

WARNING: If city water supply is connected directly to pump inlet, use a water pressure regulator (not included) to limit inlet pressure to 30 PSI (2.1 Bar) maximum. Failure to do so may void warranty.



OPERATION

IMPORTANT - For correct operation, the tank must be properly pressurized on the air side before the pump is started. Follow instructions on the tank label and check air pressure after filling and before starting the pump. The air valve is a standard tire valve. Compressed air or hand pump may be used to pressurize. Pressure can be reduced by pressing the center pin in the valve.

WARNING: Do not use CO_2 for accumulator pre-charge. CO_2 mixed with water and brass components can create a hazardous chemical reaction.

CAUTION: Pressurized system; release pressure from accumulator tank and system prior to servicing.

To start up the Water Booster System, make sure the water supply tank is at least 1/4th full and is open to pump inlet. Open all valves or taps on outlet side to purge air from the system. Turn power on to the pump, pump will start up. Allow to pump for a minute or until all the air has been purged from the system. Close all valves in the system, the pump will pressurize the tank, shut off and operate automatically to maintain pressure in the system.

To completely fill the pressure tank for maximum volume, shut off power to pump and open faucet (or valve) closest to tank. Trapped air will be expelled. Turn on power to pump.

WARNING: After any "Water Boil Warning or Water boil Advisory" is lifted, be sure to completely flush and sanitize your system (Refer to Maintenance & Sanitization section for further instructions).
Remove and replace the bladder in the tank or replace the tank as needed. Test water as necessary to be sure contaminants are no longer present.

WINTERIZING TIP

When units are exposed to freezing conditions.

1. Open discharge valve (Faucet/Valve nearest the Booster System).
2. Open inlet side to pump (Remove inlet hose to the Booster System).
3. Run Pump for approximately 2 minutes (Dry), or until system is out of fluid.
4. Leave discharge valve open and inlet hose removed until next usage.

ELECTRICAL

WARNING

RISK OF AN ELECTRICAL SHOCK!

At point of installation, follow all electrical and safety codes, as well as the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).

Electrical wiring should be performed by qualified and competent personnel, in accordance with all local and national electrical codes.

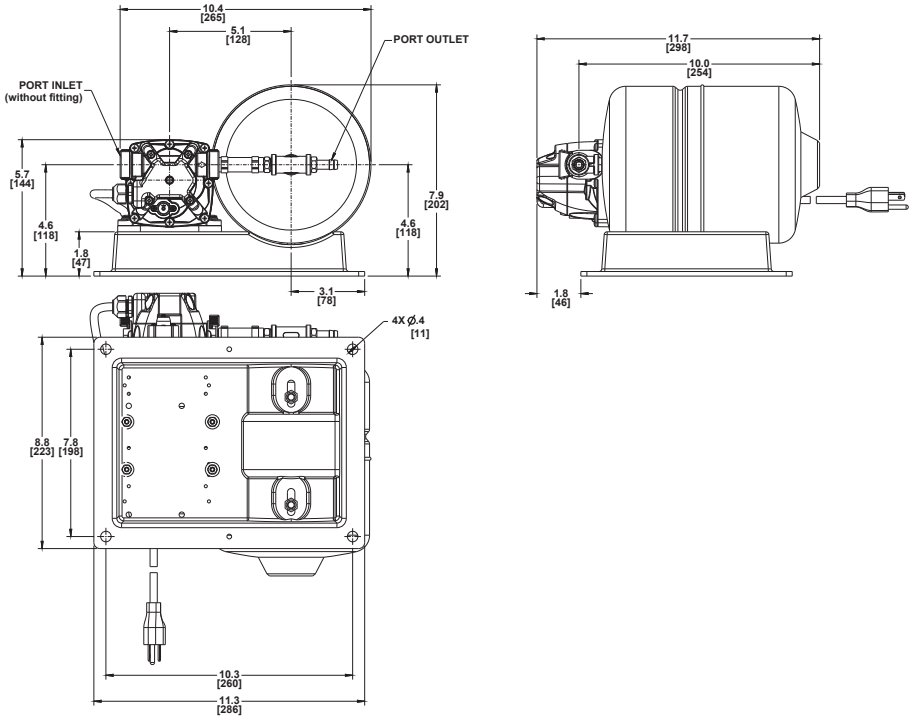
RISK OF PRODUCT DAMAGE!

Make certain the power source conforms to the pump voltage. Be sure all power is disconnected before installation or removal or when servicing the unit.

Connect the 115 VAC plug into a GFCI protected outlet for maximum protection.

Dimensional Drawing Inches [Millimeter]

Dessin dimensionnel Pouces [Millimètres] / Maßzeichnung in Zoll [Millimeter] / Disegno dimensionale Pollici [millimetri] / Maattekening Inches [Millimeters] / Dimensionsritning tum [millimeter] / Dibujo dimensional, Pulgadas [milímetros]



***Note:** General dimensions are shown for reference only (actual dimensions may vary depending on booster system configuration).

TROUBLESHOOTING CHART

Symptom	Possible Cause(s)	Corrective Action
Pump will not prime or retain prime after operating	• Air leak in suction line • Defective check valve • Upper housing leaking • Suction lift too high • Debris in check valve(s)	• Repair or replace • Replace • Tighten bolts • Lower pump • Clean check valve(s)
Pump runs but no fluid	• Faulty suction piping • Defective check valve • Suction lift too high • Clogged inlet • Inlet line valve closed	• Repair or replace • Replace • Lower pump • Clean or replace • Open valve
Motor runs too hot	• Voltage incorrect • Insufficient ventilation for motor	• Check voltage • Insure proper ventilation
Flow rate is low	• Piping or hose is damaged • Clogged check valve • Worn check valve • Voltage incorrect	• Clean or replace • Clear obstruction • Replace • Check voltage
Pump leaks	• Upper housing loose • Pistons loose • Pump head loose on motor • Switch loose	• Tighten screws • Tighten piston screws • Tighten pump head screws • Tighten switch
Pump will not run	• No electricity • Defective pressure switch • Motor has open circuit • Thermal protector has cut off	• Check connections, fuse, breakers • Replace switch • Replace • Allow motor to cool 15-30 min

MAINTENANCE & SANITIZATION

WARNING: When using cleaning chemicals, gloves and eye protection are recommended.

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.

Check the accumulator tank pre-charge pressure periodically. This will require bleeding all outlet water pressure before checking or recharging the tank. The tank pre-charge pressure and instructions are stated on the product label.

Booster systems require periodic maintenance to deliver a consistent flow of fresh water. Depending on use and the environment the system is subject to, sanitizing is recommended prior to storing and before using the water system after a period of storage. The pump, tubing and accumulator tank MUST be drained of all water to avoid damage if subjected to freezing temperature conditions. Systems with new components, or ones that have been subjected to contamination, should also be disinfected as follows :

1. **Preparation:** Ensure the tank is empty and all faucets and drains are closed.
2. Use of the following methods to determine the amount of common household bleach needed to sanitize the tank.

   A) Multiply “gallons of tank capacity” by 0.13; the result is the ounces of bleach needed to sanitize the tank. For example, a 30-gallon tank would require approximately 3.9 ounces of bleach.

   B) Multiply “Liters of tank capacity” by 1.0; the result is the milliliters of bleach needed to sanitize the tank.
3. **Filling the Tank:** Pour the bleach solution into the fresh water tank and fill the tank completely with fresh water.
4. **Circulation:** Open all faucets (hot and cold) allowing the water to run until the distinct odor of chlorine is detected at each faucet. This ensures the solution circulates through the entire system.
5. **Contact Time:** Allow the solution to sit in the tank and plumbing for at least 4 hours to disinfect completely. Doubling the bleach concentration can reduce the contact time to 1 hour.
6. **Flushing:** When the contact time is completed, drain the tank. Refill with potable water and purge the plumbing of all sanitizing solution (Repeat this step as needed to ensure all sanitizing solution is purged).

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.

NOTES

Xylem — USA
17942 Cowan
Irvine, CA 92614

Xylem — UK
Harlow Innovation Park
London Road
Harlow, Essex, CM17 9TX

Xylem — CHINA
30/F Tower A, 100 Zunyi Road
Shanghai, 200051

Xylem — HUNGARY KFT
2700 Cegléd
Külso Kátai út, 61

Xylem — AUSTRALIA
14 Emporium Avenue
Kemps Creek, NSW 2178

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Let's Solve Water