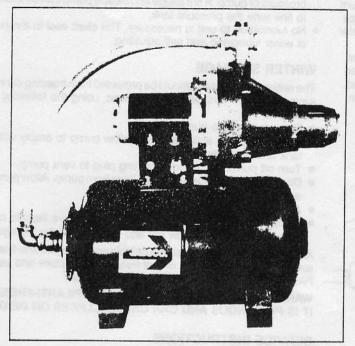
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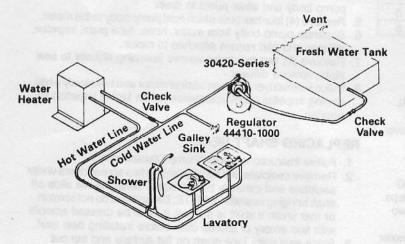
MODEL JU420-JEKIEJ



APPLICATION/PERFORMANCE

HIGH DEMAND WATER SYSTEM

Jabsco Model 30420 Water Pressure System provides "at home" convenience for the larger pleasure boat and commercial vessels. The jet type centrifugal pump provides up to 10 gallons of fresh water per minute, to service multiple fixtures both hot and cold. The prepressurized accumulator tank eliminates rapid cycling and ensures smooth flow and even temperature mix at showers.



HIGH DEMAND WATER PRESSURE SYSTEM

FEATURES

Pre-pressurized Air Tank Stainless Steel Hardware 1" Check Valve Included

Quiet Operation	
High Capacity	
Compact Size	

Compact Size

SPECIFICATIONS

Flow:	Up to 10 GPM
Pump:	Jet Type Centrifugal
Motor:	1/2 HP Permanent Magnet
Vertical Suctio	n
Lift:	Up to 6' (1,8 m)
Ports:	1"NPT Inlet, 3/4" NPT Outlet
Dimensions:	241/4" (616mm) x 221/2" (572mm) x 10" (254mm)
Weight:	45 lbs. (20,5 kg)
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Meets Title 33, Chapter 1, Part 183, Subpart I, United States Coast Guard Electrical Regulations, including paragraph 183.410 covering ignition protection.

INSTALLATION

Secure unit on solid, level surface with four (4) ⁵/16" bolts. Note: If space is limited, pump may be dismounted from tank and located separately. WARNING: DO NOT OPERATE WITH SCREWS REMOVED FROM MOTOR CASE WHICH MOUNTS MOTOR TO BRACKET. EXPLOSION RESULTING IN PERSONAL INJURY, DEATH OR PROPERTY DAMAGE MAY OCCUR, CASE OPENINGS MUST BE SEALED TO AVOID EXPLOSION AND MAINTAIN IGNITION PROTECTION RATING. Install check valves in suction line as close to water supply tank as possible. IMPORTANT: Use teflon tape for making all threaded connections to pump itself. Do not use pipe joint compounds on pump; they can react with plastic in pump compounds. Inlet plumbing must be 1" I.D. non-collapsible or reinforced hose.

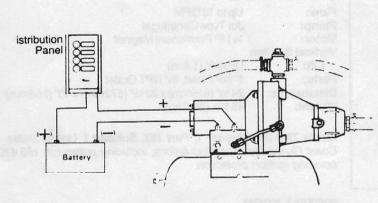
Main distribution line from pump outlet must be 3/4" I.D. with branch and individual supply lines to outlets no smaller than 3/6". Avoid any kinks or fittings which could cause excessive restriction. The Jabsco accumulator tank is precharged at 20 PSI. No further attention should be needed.

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	Model	Voltage	Nom.	Breaker*	Flow	Cut-in	Cut-off
	30420-0012	12 Vdc	36	50 Amp	9.5 GPM	18 PSI	30 PSI
-	30420-0024	24 Vdc	25	35 Amp	10 GPM	26 PSI	40 PSI
	30420-0032	32 Vdc	20	25 Amp	10 GPM	26 PSI	40 PSI

* Manual Reset

WIRING

PROPER POLARITY MUST BE MAINTAINED TO ENSURE CORRECT OPERATION OF PUMP. REVERSE POLARITY WILL DAMAGE PUMP. IMPELLER IS SCREWED ONTO SHAFT AND WILL LOOSEN IF OPERATED IN REVERSE ROTATION. These units have a relatively high amperage draw and must be powered from an independent circuit of adequate capacity to keep voltage drop to a minimum during starting and running. Particular attention must also be paid to proper size wiring to ensure optimum operation of unit. For longer runs, increase wire size in accordance with wire selection chart. For proper electrical connections, refer to the polarity label (+ -) on unit, and diagram below. Install rubber terminal boot on wire leads before attaching and crimping ring terminals. Connect ground wire, if used, to green grounding terminal using ring terminal. Connect positive (+) lead from power source to positive terminal and negative (-) lead from battery ground to negative terminal.



Wire size chart (AWG-COPPER) (a 3% V Drop Length of circuit in feet (sum of Positive & Negative wire lengths)

VOLT	0-20'	21-30'	31-40'	41-50'	51-60
12	# 6	# 4	# 2	# 2	# 1
24	#10	# 8	# 6	# 6	# 6
32	#12	#10	#10	# 8	# 8

OPERATION

IMPORTANT: NEVER RUN PUMP DRY. TO RUN PUMP WITHOUT WATER MAY DAMAGE SEALS OR OTHER INTERNAL PARTS. TO PREVENT DAMAGE TO INTERNAL PARTS, FILL PUMP WITH WATER BEFORE STARTING.

- Remove priming plug located on top of system and fill pump and suction pipe with water.
- Replace priming plug, using teflon tape on plug threads.
- Open one outlet, hot and cold.
- Turn on power to pump DO NOT run pump for more than 60 seconds. Unit should pump water; if not, repeat above steps. On first use of pump, it may be necessary to reprime pump two or three times.
- Close outlet when it starts to deliver a steady stream of water (close cold water first).
- Observe the pump. Check to be sure pump stops soon after the outlet is closed.
- Pump is now ready for automatic operation. It will start when system pressure drops to 18 PSI (12V) [26 PSI (24/32V)] and shut off when system pressure reaches 30 PSI (12 V) [40 PSI (24/32V)].
- Turn off power to pump when vessel is left unattended.
- Repriming should not be necessary unless pump is setting unused for months.

CAUTION: Motor case will get hot. Prolonged contact during operation may cause a burn.

MAINTENANCE

It is recommended, as with other major systems aboard, that periodic inspections are made of the Jabsco Water System. The following checklist may be helpful:

- Inspect inlet strainer if used for debris which could restrict suction flow from tank.
- With power to pump off and a faucet open, check pressure charge in pressure tank. Correct pressure is 20 PSI or cut-in pressure of pump. A tire gauge and bicycle pump can be used to fine tune the pressure tank.
- No lubrication to unit is necessary. The shaft seal in the pump is water lubricated and self-adjusting.

WINTER STORAGE

The entire water system should be protected from freezing during winter storage. Pump should be drained, using the following directions:

- Turn on power to pump.
- Open all faucets and drains and allow pump to empty water tank and intake line.
- Turn off pump and remove priming plug to vent pump.
- Disconnect discharge and intake lines from pump. Allow pump and lines to drain.
- Allow time for water heater to empty.
- Reconnect the lines, close the drains, but leave faucets open.
 The water system is now dry and ready for winter storage.

An alternate method is to use the potable water system anti-freeze solution. Follow directions of anti-freeze manufacture and use a PAR Winter Protection Kit, Model 44610-0000.

WARNING: DO NOT USE AUTOMOTIVE TYPE ANTI-FREEZE. IT IS POISONOUS AND CAN CAUSE ILLNESS OR DEATH.

SERVICE INSTRUCTIONS

NOTICE: BEFORE SERVICING PUMP, TURN OFF POWER AND OPEN FAUCETS TO RELIEVE PRESSURE IN WATER DISTRIBUTION SYSTEM.

PUMP DISASSEMBLY

- 1. Turn off power to pump.
- 2. Disconnect discharge and inlet line.
- 3. Disconnect hose from tank to cross fitting.
- 4. Remove pressure switch tube from compression elbow on pump body and allow pump to drain.
- 5. Remove (4) four hex nuts which hold pump body to the motor.
- Separate pump body from motor. Note: Seal plate, impeller, diffuser and pad remain attached to motor.
- Remove (2) two hex head screws fastening diffuser to seal plate; remove diffuser.
- Place screwdriver in slot on back of motor and hold firmly while turning impeller counterclockwise (when facing impeller) to remove.

REPLACING SHAFT SEAL

- 1. Follow instructions under "Pump Disassembly".
- Remove sealplate and seal by placing two screwdrivers under sealplate and carefully prying loose. Sealplate will slide off shaft bringing seal with it. NOTE: Be sure you do not scratch or mar shaft; if shaft is marred, it must be dressed smooth with fine emery or crocus cloth before installing new seal.
- Place seal plate face down on flat surface and tap out stationary half of seal. NOTE: Be sure you tap on ceramic seat, not on copper insert. Do not disturb copper insert.
- 4. Clean seal cavity in copper heat sink. Do not disturb heat sink.
- 5. Wet outer edge of O-ring on ceramic seat with liquid soap.
- 6. With thumb pressure, press ceramic seal half firmly and squarely into seal cavity in copper heat sink. Polished face of ceramic seat is up. If seal will not seat correctly, remove, placing seal face up on bench. Reclean cavity. Seal should now seat correctly.

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