



www.bandbmolders.com 58471 Fir Road Mishawaka, IN 46544 Phone: 574-259-7838 Fax: 574-259-7939



Items Included in System:



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Improper installation, operation or servicing this product will result in equipment damage & personal injury. This product should be installed & serviced by qualified technical personnel who have an in-depth knowledge of the construction process and potential hazards of this type of system.

- All B&B installed fittings are torqued to factory settings. Loosening or tightening these connections will result in potential leakage or damage voiding warranty consideration.
- All plumbing connections made to this product during installation should be hand tight plus $\frac{1}{4}$ turn.
- DO NOT over-tighten!! DO NOT "operate" equipment at power levels other than what is specified on equipment serial tag & data plate.
- Make sure tank fittings for black water tank flushing (ABS Tank & Rotomolded) are installed per instructions to avoid potential damage.
- DO NOT install panel with plumbing in a binding condition. Plumbing must have necessary room to move freely when panel is secured to mounting substrate.
- Double check <u>ALL</u> factory installed <u>swivel</u> <u>fittings</u> to hand tight plus 1/4 turn due to potential loosening.
- OEM Manufacturer to provide user instructions clearly advising proper winterizing techniques. Damage to system due to incorrect winterizing techniques voids all warranty consideration.
- B&B Molders is not responsible for damage caused to other products connected to this system. It is the O.E.M. Manufacturer's responsibility to ensure plumbing is run to correct locations. Proper venting of freshwater holding tank is responsibility of RV manufacturer. (See B&B Power Vent for
- safe venting options.) Under sized vents may result in serious damage.
- Special rules apply for any warranty claim or submission. Please contact B&B Molders for further information.
- Do not use countersink headed screws due to potential cracking. Use only #8 pan headed screws. Nautilus System is designed for compartment use only and <u>should not</u> be used for exterior applications where exposure to exterior elements exists.
- System must be installed in a clean environment at O.E.M. free of dust and debris. Foreign contaminates have been proven to create leakage conditions. **Optional:** If this product comes equipped with a hot/cold faucet, make sure hot and cold are connected
- correctly. All plumbing connections made to this product during installation should be hand tight plus 1/4 turn.

Tank Flush

- DO NOT over-tighten swivel fitting to threaded water inlet connection. Over-tightening may result in stress cracking to plastic threads.
- DO NOT plumb Atmospheric Vacuum Breaker/Check Valve (Vac/Check) in a binding condition that puts stress on part. Plumbing should be securely fastened to permanent structure.
- B&B strongly recommends installing Vac/Check within 6' 8' of water inlet due to low pressure conditions. Vac/Check must be installed in an easily accessible location to end user.
- Vac/Check assembly must be plumbed in proper direction of flow & orientation.
- Working pressure per ASSE #1001 is 125 psi but <u>NOT LESS THAN</u> 8 psi. Spin weld fitting/sprayer must be installed according to Standard Plastic Welding Guidelines.

IMPORTANT: FAILURE TO FOLLOW THESE INSTRUCTIONS FOR INSTALLATION OF OUR PRODUCT WILL FORFEIT ANY WARRANTY CONSIDERATION.





IMPORTANT!!







INSTALLATION INSTRUCTIONS
Nautilus P4 Handle Position and Valve Routing Information
WHITE HANDLE: Receives water from water inlet on front of panel
Sideways - water goes to pump inlet
Down – water goes into blue handled diverter
BLUE HANDLE: Receives water from the white handle valve/water inlet on front of panel
Sideways - water goes to fixtures (cold)
Down – water will go to or come from fresh water tank
GREEN HANDLE: Is an on/off flow through valve that feeds pump from fresh water tank
Sideways - water will not flow through valve
Up – water will go to or come from fresh water tank
RED HANDLE: Receives water from cold water supply line
Sideways - water goes to hot water fixtures without going through hot water heater
Up – water goes to hot water heater





CONDENSED INSTRUCTIONS FOR QUICK REFERENCE

- 1. Cut a 10 x 11 $\frac{1}{2}$ " opening in substrate material and feed necessary connections through opening..
- 2. Connect (PUMP INLET) harness (A) to back of Nautilus Panel.
- 3. Connect (FRESH TANK) harness (B) to back of Nautilus Panel.
- 4. Connect (**PRESSURE TO PUMP**) harness **G** to back of Nautilus Panel
- 5. Connect (WATER INLET) harness D to back of Nautilus Panel.
 - a. WITH FILTER: Connect (WATER INLET) at bottom of panel to (FILTER IN) and connect (FILTER OUT) to (WATER INLET) at top of panel.
 - b. *WITHOUT FILTER*: Connect (**WATER INLET**) at bottom of panel to (**WATER INLET**) at top of panel.
- 6. Connect (HOT H2O LINE) harness (to back of Nautilus Panel.
- 7. Connect (H2O HEATER) harness D to back of Nautilus Panel
- 8. Connect (COLD H2O LINE) harness G to back of Nautilus Panel.
- 9. Connect plumbing line running from **(TANK FLUSH) (**) to bottom of listed **(VAC/CHK)**.
- 10. Connect necessary coaxial cable(s) to appropriate connection identified on top left panel and hand tighten.
- 11. Connect power service to terminals on back of pump switch, located on top right panel. Mare sure wiring connection is routed correctly for two switch operation.
- 12. Secure panel to substrate material using (8) #8 self-tapping, pan-head operation.

**Connections shall be hand tight + ¹/₄ turn. Do NOT over tighten as stress cracking may result





FULL HARNESS ASSEMBLY



HARNESS INFORMATION:

- A: Pump Inlet
- Ito Fresh Tank
- **G**: Pressure from Pump
- D: Water Inlet
- : Hot H2O Line
- : To H2O Heater
- G: Cold H2O Line
- : Tank Flush





A PUMP INLET (PLUMBING HARNESS)

Items Needed:

- (2) Straight Swivel Fittings
- (1) 90° Fitting
- (1) Inline Tee
- (6) Oetiker Clamps
- 1/2" Pex Tubing Lines:
 - (2) 2 3/8"
 (1) 5 5/8"





To connect pump inlet harness, screw swivel fittings onto diverter valves (TO PUMP INLET) as illustrated. This line will run directly to "IN" side of water pump.

Connections shall be hand tight + ¹/₄ turn. Do NOT over tighten as stress cracking may result.





B TO FRESH TANK (PLUMBING HARNESS)







G PRESSURE FROM PUMP

Items Needed:

• (1) Straight Swivel Fittings





To connect plumbing line coming from pump, screw swivel fitting onto diverter valve **G** (PRESSURE FROM PUMP) as illustrated. This line will run directly to "OUT" side of water pump.

Connections shall be hand tight + $\frac{1}{4}$ turn. Do NOT over tighten as stress cracking may result.





WATER INLET WITHOUT FILTER (PLUMBING HARNESS)

Items Needed:

- (2) 90° Inline Elbows
- (2) Straight Swivel Fittings
- (6) Oetiker Clamps
 - 1/2" Pex Tubing Lines: ◆(1) 1 ½", (1) 3", (1) 5 3/4"





UNITS WITHOUT FILTER

To connect water inlet harness, screw swivel fittings onto diverter valves **O** (WATER INLET) as illustrated.

UNITS WITH FILTER

To connect line running to (FILTER IN), screw swivel fitting onto **(WATER INLET)** at bottom of panel. To connect line running to "FILTER OUT," screw swivel fitting onto **(WATER** INLET) at top of panel.

Connections shall be hand tight + ¼ turn. Do NOT over tighten as stress cracking may result.





HOT H2O LINE (PLUMBING HARNESS)

Items Needed:

- (2) 90° Inline Elbows
- (1) Inline Tee
- (2) Straight Swivel Fittings
- (8) Oetiker Clamps
- 1/2" Pex Tubing Lines:
 (1) 1 7/8",(1) 2",(1) 2 7/8",
 (1) 7 ³/₄"





To connect hot water line plumbing harness, screw swivel fittings onto diverter valves (a) (HOT & HOT H20 LINE). This line will connect to the hot water line feeding fixtures.

- HOT on Shower Faucet
- HOT H2O LINE

Connections shall be hand tight + $\frac{1}{4}$ turn. Do NOT over tighten as stress cracking may result.





🕞 TO H2O HEATER

Items Needed:

• (1) 90° Swivel Fitting





To connect plumbing line running to hot water heater, screw swivel fitting onto diverter valve (TO H20 HEATER) as illustrated. This line will run directly to "IN" on hot water heater.

Connections shall be hand tight + ¹/₄ turn. Do NOT over tighten as stress cracking may result.





G COLD H20 LINE (PLUMBING HARNESS)

Items Needed:

- (3) 90° Inline Elbows
- (2) Inline Tees
- (3) Straight Swivel Fitting
- (14) Oetiker Clamps
 - ¹⁄₂ Pex Tubing Lines ◆(1) 3 3/4", (1) 3 1/8", (1) 3", (1) 1 5 (8", (1) 1 1/", (1) 1 2/8"
 - (1) 1 5/8'', (1) $1 \frac{1}{2}''$, (1) 1 3/8''





To connect the cold line plumbing harness, screw swivel fittings onto diverter valves **(COLD, COLD LINE SUPPLY, & CITY TO FIXTURES)** as illustrated. This line will connect to the cold water line feeding fixtures.

Connections shall be hand tight + 1/4 turn. Do NOT over tighten as stress cracking may result.

