73450-6 4-8-2008 1/8

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

APR - 8 2008

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Jeff Jones, Agent for Pentair Filtration, Inc.
c/o Delta Analytical Corporation
12510 Prosperity Drive, Suite 160
Silver Spring, MD. 20904

Subject: Everpure Brominating Cartridge
EPA Registration Number 73450-6
Application Dates: January 22, 2008 and March 10, 2008

Dear Mr. Jones:

The Agency has reviewed your submission in accordance with continuing registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as amended, and determined the revised labeling and 6 technical bulletins are accepted with comments. In summary, the following change must be made:

Under **Pesticide Disposal** add "Nonrefillable container. Do not reuse or refill this container."

A copy of your stamped label is enclosed. Please submit a revised finished label for our files.

Should you have any questions or comments concerning this letter, please contact Tom Luminello at (703) 308-8075.

Sincerely,

Emily Mitchell

Emily H. Mitchell
Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510 P)

Enclosure

EVERPURE®

2/8

BROMINATING CARTRIDGE

255340-401 (1-pack)
255340-406 (6-pack)
(Replaces P/N EV954006)

255340-480 (80-pack)
255340-416 (160-pack)
(Replaces P/N EV954001)

For use in EVERPURE® Brominating Feeders in the Treatment of Potable Water
Solely for use aboard ship or in oil and gas drilling and production platforms by trained personnel.

NOT FOR HOME USE

ACTIVE INGREDIENT:

Bromine*	30.0%
Other Ingredients:	70.0%
TOTAL	100.0%

* from Trimethylbenzylammonium resin polybromide form

ACCEPTED
with COMMENTS
In EPA Letter Dated:
APR - 8 2008
...r the Federal Insecticide, ... and ... as ... Act as ... Reg No. 73450-6

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No.: 73450-6
EPA Est. No.: 73450-WI-1

Net Weight: 2¾ lbs. (1.25 kg)
Net Volume: 60 cu in (983 mL)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Irritating vapors may be harmful if swallowed or inhaled. Causes eye irritation or skin redness. Do not get in eyes, on skin or on clothing. Avoid breathing vapors, especially when opening container. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

IF SWALLOWED	• Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.	**IF IN EYES**	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present after 5 minutes, then continue rinsing eye.
IF INHALED	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.	**IF ON SKIN OR CLOTHING**	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes.
Note to Physician: No specific antidote is available. Treat the patient symptomatically.			

PHYSICAL OR CHEMICAL HAZARDS:

Do not use or store near heat or open flame. Do not open package in confined area. Ingredients are permanently sealed inside cartridge. Do not puncture or attempt to open cartridge. If fumes are noticed, ventilate area.

DIRECTIONS FOR USE

It is in violation of federal law to use this product in a manner inconsistent with its labeling.

Treated water must be maintained at 0.2 to 1.0 ppm available Bromine as determined with test kit provided with system. For operating instructions and further direction, use technical bulletin provided with the Brominating Feeders.

STORAGE AND DISPOSAL

Do not contaminate water, food, feed by storage or disposal.
PESTICIDE STORAGE: Store in a cool, dry place, above 45° F.
Store in original container out of reach of children, preferably in a locked storage area.
PESTICIDE DISPOSAL: Expended cartridge should contain only inert resin, void of bromine and can be discarded safely in a routine manner on site or at an approved waste disposal facility. Do not incinerate expended container.

Non refillable container. Do not reuse or refill this container.

Manufactured By:
Pentair Filtration, Inc.
502 Indiana Avenue • P.O. Box 1047 • Sheboygan, WI 53082-1047
Technical Support: Toll Free 1-866-300-5186 • (920) 451-9301
productsupport@everpure.com • www.everpure.com

Patents: USA 4594361, Canada 1231615, Great Britain 2167761
Other foreign patents pending

146095 Rev B FE08

OPERATING INSTRUCTIONS
Everpure® Recirculating Bromine Feeder
Model SSFM-100BC Series (Type I, Class 2)

In cases where the initial bromine treatment level may be lower than the recommended target level of 0.2 to 1.0 ppm, recirculation is required. In these instances, it is recommended that the final treated water should not be put into service until the target bromine level is maintained to between 0.2 and 1.0 ppm.

Note: The "initial bromine treatment level" is that level of bromine initially added to the water when determining the halogen (bromine) demand. Depending on the source water, it may be necessary to initially add up to 2.0 to 2.7 ppm to satisfy the halogen demand. Follow the instructions below or in the system manual (Section 2) to verify that halogen (bromine) demand free water is produced. Test the final treated water (after 30 minutes contact time) from a faucet nearest to the tank to assure that the bromine level does not exceed 1 ppm and also at a faucet distant from the tank to assure that a detectable level of bromine is present.

System Operation

1. Select tank to be tested using tank selector valve (1).
2. If installed, energize priming pump and flood suction side of recirculating pump.
3. Start recirculating pump and allow to operate for 5 minutes.
4. Lift test tap valve (2) handle and allow water to run for about one minute before taking water sample.
5. Test for bromine residual (see **Testing for Bromine Residuals** below).
6. If testing a newly filled tank, assure bromine residual is at least 0.2 to 2.0 ppm depending on requirements. If testing a previously qualified tank, ensure a trace amount of bromine residual is available in the tank before placing the tank into service. Target concentration of bromine (after 30 minutes contact time) at a faucet nearest the tank is 1 ppm and at a faucet distant from the tank is a "detectable level" – 0.1-0.2 ppm.
7. If measured bromine residual is below limits in step 6, tank must be treated (see **Tank Treatment** below).

Tank Treatment

1. Note water temperature from water temperature gauge (3).
2. Determine volume (gallons) of water in tank.
3. Select proper temperature line on **Bromine Feed Chart**. Using tank volume, find feed time. For tanks over 20,000 gallons, refer to **Bromine Feed Chart** in the technical manual.

Example

WATER TEMPERATURE = 80°F
TANK VOLUME = 20,000 GALLONS
FEED TIME (FROM CHART) = 125 MINUTES

4. Set feed timer (4) to proper value as selected from chart. Press **FEEDER ON** push-button switch (5). Each tank treatment cycle raises the bromine residual a maximum of 0.5 ppm.
5. Repeat bromine residual test 30 minutes after feed timer stops. If residual is at least 0.2 ppm (non-contaminated seawater intake) or 2.0 ppm (contaminated seawater intake), tank can be placed into service. Target concentration of bromine (after 30 minutes contact time) at a faucet nearest the tank is 1 ppm and at a faucet distant from the tank is a "detectable level" – 0.1-0.2 ppm.
6. If bromine residual is less than limit in step 5, repeat steps 3 thru 5 above.
   Note: If bromine residual is less than limits in step 5, bromine feeder cartridge in feeder shell (6) may be exhausted. Cartridge change indicator (7) will light when bromine feeder cartridge requires replacement (every six hours of feed time). See **Cartridge Change** below or on the control panel door.
7. Shut off recirculating pump and priming pump if installed.

Cartridge Change

1. Shut off recirculating pump and priming pump if installed.
2. Lift test tap valve (2) handle to allow feeder assembly to drain.
3. Loosen T-nut, remove V-band assembly (8) and feeder top (9). Do not damage coating.

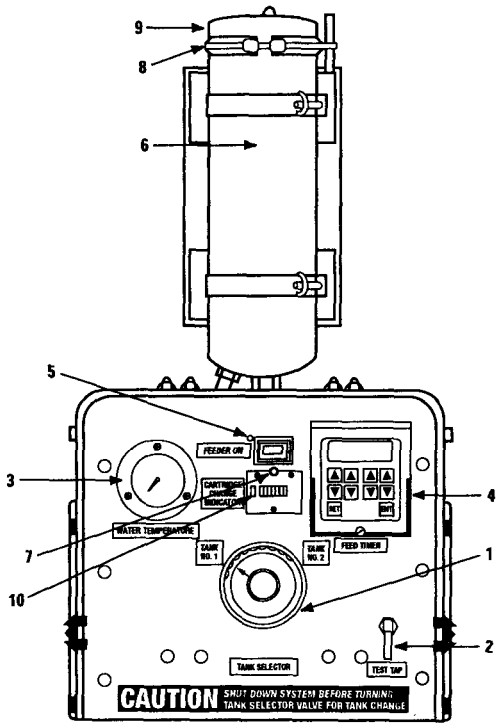
⚠ WARNING

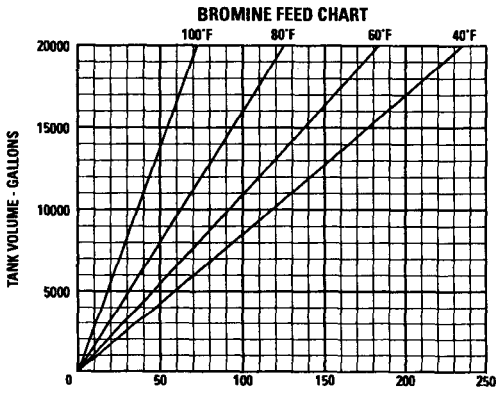
Drainage is slightly corrosive. Wash off skin and wipe up spillage.

4. Remove bromine feeder cartridge by unscrewing counterclockwise and replace with a new bromine feeder cartridge (screw in clockwise finger tight). Drain old cartridge and place in shipping tube. Dispose of cartridge in accordance with instructions for plastic material disposal. DO NOT INCINERATE.
5. Use new gasket provided with new bromine feeder cartridge. Be sure gasket is properly seated on feeder shell lip.
6. Reinstall feeder top (9) and secure V-band assembly (8). Tighten T-nut firmly.
7. Close test tap valve (2).
8. Reset cartridge change indicator by pressing indicator push-button (10) to 6 hour setting. System is now ready for operation.

Testing for Bromine Residuals

Use a bromine analyzer/test kit to determine the bromine content of the water. Directions for use are provided with the instructions supplied with the bromine analyzer/test kit.





ACCEPTED
With COMMENTS
In EPA Letter Dated:
APR - 8 2008

Reg. No.
73450-6

EVERPURE
WATER YOU CAN TRUST.

Pentair Filtration
Sheboygan, Wisconsin U.S.A.

OPERATING INSTRUCTIONS
Everpure® Recirculating Bromine Feeder
Model SSFM-100CC Series (Type I, Class 3)

In cases where the initial bromine treatment level may be lower than the recommended target level of 0.2 to 1.0 ppm, recirculation is required. In these instances, it is recommended that the final treated water should not be put into service until the target bromine level is maintained to between 0.2 and 1.0 ppm.

Note: The "initial bromine treatment level" is that level of bromine initially added to the water when determining the halogen (bromine) demand. Depending on the source water, it may be necessary to initially add up to 2.0 to 2.7 ppm to satisfy the halogen demand. Follow the instructions below or in the system manual (Section 2) to verify that halogen (bromine) demand free water is produced. Test the final treated water (after 30 minutes contact time) from a faucet nearest to the tank to assure that the bromine level does not exceed 1 ppm and also at a faucet distant from the tank to assure that a detectable level of bromine is present.

System Operation

1. Select tank to be tested using tank selector valve (1).
2. If installed, energize priming pump and flood suction side of recirculating pump.
3. Start recirculating pump and allow to operate for 5 minutes.
4. Lift test tap valve (2) handle and allow water to run for about one minute before taking water sample.
5. *Test for bromine residual (see* **Testing for Bromine Residuals** *below).*
6. If testing a newly filled tank, assure bromine residual is at least 0.2 to 2.0 ppm depending on requirements. If testing a previously qualified tank, ensure a trace amount of bromine residual is available in the tank before placing the tank into service. Target concentration of bromine (after 30 minutes contact time) at a faucet nearest the tank is 1 ppm and at a faucet distant from the tank is a "detectable level" – 0.1-0.2 ppm.
7. If measured bromine residual is below limits in step 6, tank must be treated (see **Tank Treatment** below).

Tank Treatment

1. Note water temperature from water temperature gauge (3).
2. Determine volume (gallons) of water in tank.
3. Select proper temperature line on **Bromine Feed Chart**. Using tank volume, find feed time. For tanks over 20,000 gallons, refer to **Bromine Feed Chart** in the technical manual or on the control panel door.

Example
WATER TEMPERATURE = 80°F
TANK VOLUME = 20,000 GALLONS
FEED TIME (FROM CHART) = 125 MINUTES

4. *Set feed timer (4) to proper value as selected from chart. Press feeder on push-button switch (5). Each tank* treatment cycle raises the bromine residual a maximum of 0.5 ppm.
5. Repeat bromine residual test 30 minutes after feed timer stops. If residual is at least 0.2 ppm (non-contaminated seawater intake) or 2.0 ppm (contaminated seawater intake), tank can be placed into service. Target concentration of bromine (after 30 minutes contact time) at a faucet nearest the tank is 1 ppm and at a faucet distant from the tank is a "detectable level" – 0.1-0.2 ppm.
6. If bromine residual is less than limit in step 5, repeat steps 3 thru 5 above.
   Note: *If bromine residual is less than limits in step 5, bromine feeder cartridge in feeder shell (6) may be* exhausted. Cartridge change indicator (7) will light when bromine feeder cartridge requires replacement (every six hours of feed time). See **Cartridge Change** below.
7. Shut off recirculating pump and priming pump if installed.

Cartridge Change

1. Shut off recirculating pump and priming pump if installed.
2. While depressing pressure relief boot (10), lift test tap valve (2) handle to allow feeder assembly to drain.
3. Loosen T-nut, remove V-band assembly (8) and feeder top (9). Do not damage coating.

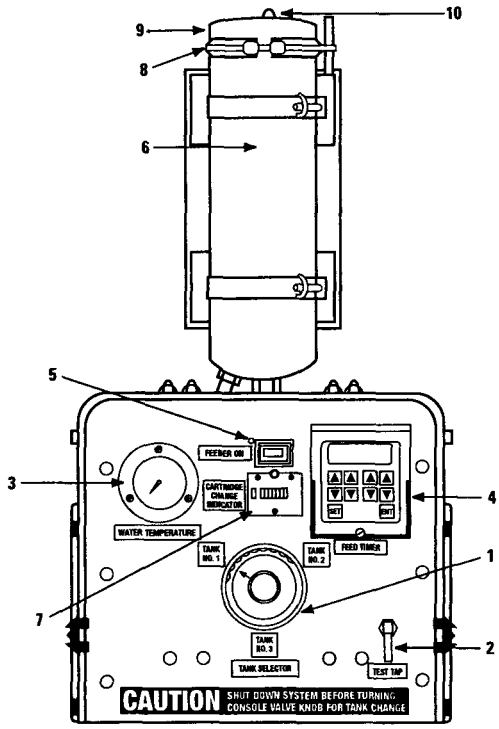
⚠ WARNING

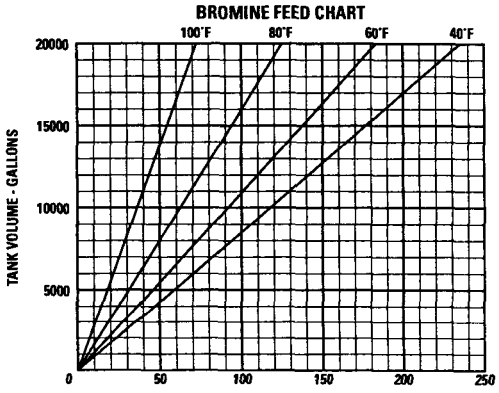
Drainage is slightly corrosive. Wash off skin and wipe up spillage.

4. Remove bromine feeder cartridge by unscrewing counterclockwise and replace with a new bromine feeder cartridge (screw in clockwise finger tight). Drain old cartridge and place in shipping tube. Dispose of cartridge in accordance with instructions for plastic material disposal. DO NOT INCINERATE.
5. Use new gasket provided with new bromine feeder cartridge. Be sure gasket is properly seated on feeder shell lip.
6. Reinstall feeder top (9) and secure V-band assembly (8). Tighten T-nut firmly.
7. Close test tap valve (2).
8. Reset (press indicator push-button) cartridge change indicator (7) to 6 hour setting. System is now ready for operation.

Testing for Bromine Residuals

Use a bromine analyzer/test kit to determine the bromine content of the water. Directions for use are provided *with the instructions supplied with the bromine analyzer/test kit.*





ACCEPTED
with COMMENTS
In EPA Letter Dated:

APR - 8 2003

73450-6

EVERPURE®
WATER YOU CAN TRUST.

Pentair Filtration
Sheboygan, Wisconsin U.S.A.

5/8

OPERATING INSTRUCTIONS
Everpure® Recirculating Bromine Feeder
Model SSFM-100DC Series (Type I, Class 4)

In cases where the initial bromine treatment level may be lower than the recommended target level of 0.2 to 1.0 ppm, recirculation is required. In these instances, it is recommended that the final treated water should not be put into service until the target bromine level is maintained to between 0.2 and 1.0 ppm.

Note: The "initial bromine treatment level" is that level of bromine initially added to the water when determining the halogen (bromine) demand. Depending on the source water, it may be necessary to initially add up to 2.0 to 2.7 ppm to satisfy the halogen demand. Follow the instructions below or in the system manual (Section 2) to verify that halogen (bromine) demand free water is produced. Test the final treated water (after 30 minutes contact time) from a faucet nearest to the tank to assure that the bromine level does not exceed 1 ppm and also at a faucet distant from the tank to assure that a detectable level of bromine is present.

System Operation

1. Select tank to be tested using tank selector valve (1).
2. If installed, energize priming pump and flood suction side of recirculating pump.
3. Start recirculating pump and allow to operate for 5 minutes.
4. Lift test tap valve (2) handle and allow water to run for about one minute before taking water sample.
5. Test for bromine residual (see **Testing for Bromine Residuals** below).
6. If testing a newly filled tank, assure bromine residual is at least 0.2 to 2.0 ppm depending on requirements. If testing a previously qualified tank, ensure a trace amount of bromine residual is available in the tank before placing the tank into service. Target concentration of bromine (after 30 minutes contact time) at a faucet nearest the tank is 1 ppm and at a faucet distant from the tank is a "detectable level" – 0.1-0.2 ppm.
7. If measured bromine residual is below limits in step 6, tank must be treated (see **Tank Treatment** below).

Tank Treatment

1. Note water temperature from water temperature gauge (3).
2. Determine volume (gallons) of water in tank.
3. *Select proper temperature line on* **Bromine Feed Chart**. *Using tank volume, find feed time. For tanks over* 20,000 gallons, refer to **Bromine Feed Chart** in the technical manual or on the control panel door.

Example
WATER TEMPERATURE = 80°F
TANK VOLUME = 20,000 GALLONS
FEED TIME (FROM CHART) = 125 MINUTES

4. Set feed timer (4) to proper value as selected from chart. Press feeder on push-button switch (5). Each tank treatment cycle raises the bromine residual a maximum of 0.5 ppm.
5. Repeat bromine residual test 30 minutes after feed timer stops. If residual is at least 0.2 ppm (non-contaminated seawater intake) or 2.0 ppm (contaminated seawater intake), tank can be placed into service. Target concentration of bromine (after 30 minutes contact time) at a faucet nearest the tank is 1 ppm and at a faucet distant from the tank is a "detectable level" – 0.1-0.2 ppm.
6. If bromine residual is less than limit in step 5, repeat steps 3 thru 5 above.
   Note: If bromine residual is less than limits in step 5, bromine feeder cartridge in feeder shell (6) may be exhausted. Cartridge change indicator (7) will light when bromine feeder cartridge requires replacement (every six hours of feed time). See **Cartridge Change** below.
7. Shut off recirculating pump and priming pump if installed.

Cartridge Change

1. Shut off recirculating pump and priming pump if installed.
2. Lift test tap valve (2) handle to allow feeder assembly to drain.
3. Loosen T-nut, remove V-band assembly (8) and feeder top (9). Do not damage coating.

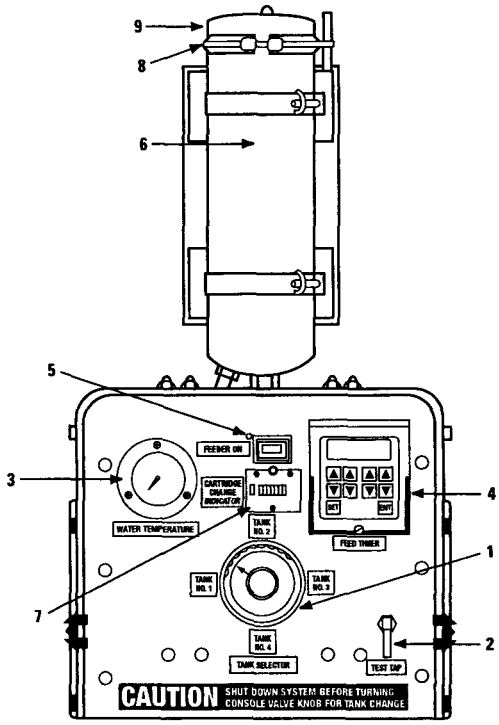
⚠ WARNING

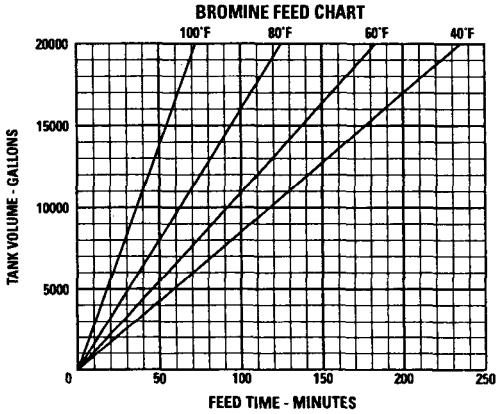
Drainage is slightly corrosive. Wash off skin and wipe up spillage.

4. Remove bromine feeder cartridge by unscrewing counterclockwise and replace with a new bromine feeder cartridge (screw in clockwise finger tight). Drain old cartridge and place in shipping tube. Dispose of cartridge in accordance with instructions for plastic material disposal. DO NOT INCINERATE.
5. Use new gasket provided with new bromine feeder cartridge. Be sure gasket is properly seated on feeder shell lip.
6. Reinstall feeder top (9) and secure V-band assembly (8). Tighten T-nut firmly.
7. Close test tap valve (2).
8. Reset (press indicator push-button) cartridge change indicator (7) to 6 hour setting. System is now ready for operation.

Testing for Bromine Residuals

Use a bromine analyzer/test kit to determine the bromine content of the water. Directions for use are provided with the instructions supplied with the bromine analyzer/test kit.





ACCEPTED
with COMMENTS
In EPA Letter Dated:
APR - 8 2008

EVERPURE
WATER YOU CAN TRUST.

Pentair Filtration
Sheboygan, Wisconsin U.S.A.

73450-6

ACCEPTED with COMMENTS In EPA Letter Dated: APR 8 2008

6/8

OPERATING INSTRUCTIONS
Everpure® Dual Feed Proportioning Bromine Feeder
Model SSFM-50AC Series (Type II, Class 1)

73450-6

Non-Contaminated Seawater or Known Fresh Water Quality Source/Input

(Storage tank filled directly from potable fresh water or municipally treated source)
LOW BROMINE FEED

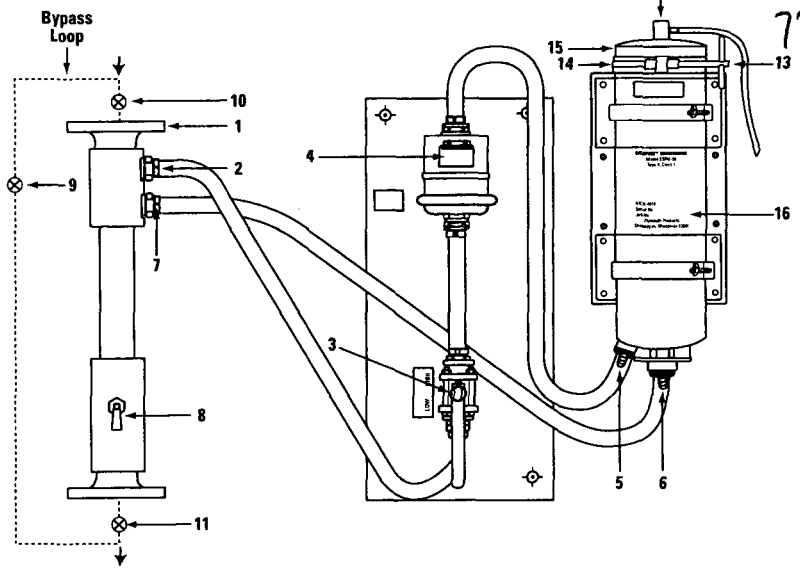
- Turn dual feed valve (3) to LOW position.

Contaminated Seawater or Unknown or Potentially Contaminated Water Source/Input

(Storage tank filled directly from a secondary carrier, *tanker or other fresh water source of unknown quality*)
HIGH BROMINE FEED

- Turn dual feed valve (3) to HIGH position.

In cases where the initial bromine treatment level may be lower than the recommended target level of 0.2 to 1.0 ppm, increased feed levels are required. In these instances, it is recommended that the final treated water should not be put into service until the target bromine level is maintained to between 0.2 and 1.0 ppm.



Note: The "initial bromine treatment level" is that level of bromine initially added to the water when determining the halogen (bromine) demand. Depending on the source water, it may be necessary to initially add up to 2.0 to 2.7 ppm to satisfy the halogen demand. Follow the instructions below or in the system manual (Section 2) to verify that halogen (bromine) *demand free water is produced. Test the final treated water (after 30* minutes contact time) from a faucet nearest to the tank to assure that the bromine level does not exceed 1 ppm and also at a faucet distant from the tank to assure that a detectable level of bromine is present.

System Operation

Flow from the water maker enters bypass header (1) on its way to the *potable water tank. A controlled split flow occurs at point (2) through the* dual feed valve (3) and water meter (4) entering feeder at point (5). Water meter (4) provides a numerical indication of the quantity of the water that has passed through the bromine feeder cartridge. Brominated water exits the feeder at point (6) and re-enters bypass header (1) at point (7) joining the main water stream. Water samples may be drawn from the test tap valve (8) to test for the presence of bromine. A bypass loop (buyer supplied) circumvents bypass header (1) during bromine feeder cartridge change out or system maintenance.

Cartridge Change

Note: Cartridge replacement is indicated by a numerical increase of 10 units (black digits on water meter register) over the previous reading noted when the current cartridge was installed. Enter this new number at the bottom of these operating instructions as a reminder of when the next cartridge change is required.

1. Bypass the proportioning bromine feeder by means of the bypass loop; open the bypass valve (9) and close valves (10 and 11).
2. Lift test tap valve (8) handle to allow feeder assembly to drain.
3. Loosen T-nut (13), remove V-band assembly (14) and feeder top (15). Do not damage coating.
4. Remove bromine feeder cartridge by unscrewing counterclockwise and replace with new bromine feeder cartridge (screw in clockwise *finger tight). Drain old cartridge and place in shipping tube. Dispose of* cartridge in accordance with instructions for plastic material disposal. DO NOT INCINERATE.
5. *Use new gasket provided with new bromine feeder cartridge. Be sure* gasket is properly seated on feeder shell lip.
6. Reinstall feeder top (15) and secure with V-band assembly (14). Tighten T-nut (13) firmly.
7. Close test tap valve (8).
8. Open upstream valve (10), open downstream valve (11) and close bypass valve (9).
9. Depress air relief button (12) until a steady stream of water (no bubbles) is discharged from tubing connected to feeder top (15); then release air relief button.

Testing for Bromine Content

Use a bromine analyzer/test kit to determine the bromine content of the final treated water. Directions for use are provided with the instructions supplied with the bromine analyzer/test kit. Target concentration of bromine (after 30 minutes contact time) at a faucet nearest the tank is 1 ppm and at a faucet distant from the tank is a "detectable level" - 0.1 - 0.2 ppm.

CARTRIDGE CHANGE DATA

Water meter reading when current cartridge was installed. (Black number dials)	Add 10 units to water meter reading	Water meter reading when current cartridge requires replacement. (Black number dials)
	+ 10 =	

⚠ WARNING

Drainage is slightly corrosive. Wash off skin and wipe up spillage.

EVERPURE® WATER YOU CAN TRUST.

Pentair Filtration
Sheboygan, Wisconsin U.S.A.

OPERATING INSTRUCTIONS
Everpure® Dual Feed
Proportioning Bromine Feeder
Model SSFM-50BC Series (Type II, Class 2)

Non-Contaminated Seawater or Known Fresh Water Quality Source/Input

(Storage tank filled directly from potable fresh water or municipally treated source)
LOW BROMINE FEED

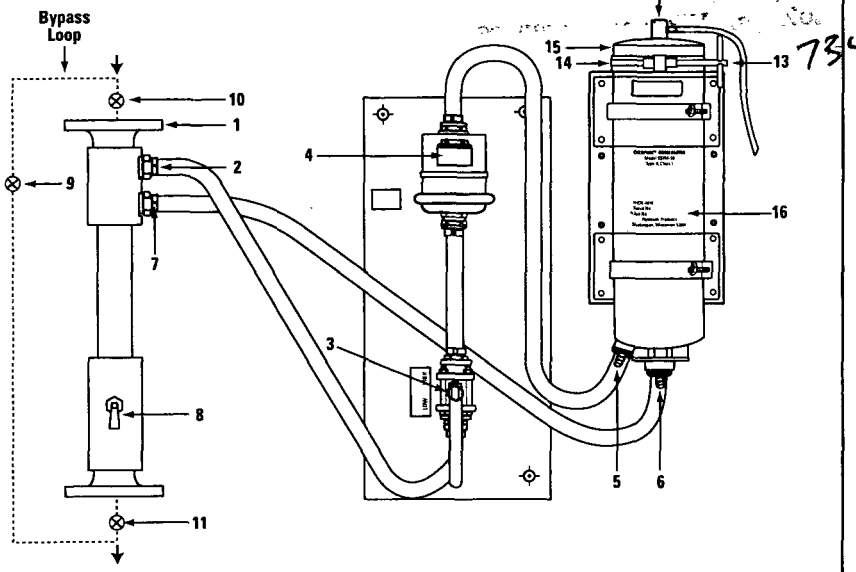
- Turn dual feed valve (3) to LOW position.

Contaminated Seawater or Unknown or Potentially Contaminated Water Source/Input

(Storage tank filled directly from a secondary carrier, tanker or other fresh water source of unknown quality)
HIGH BROMINE FEED

- Turn dual feed valve (3) to HIGH position.

In cases where the initial bromine treatment level may be lower than the recommended target level of 0.2 to 1.0 ppm, increased feed levels are required. In these instances, it is recommended that the final treated water should not be put into service until the target bromine level is maintained to between 0.2 and 1.0 ppm.



Note: The "initial bromine treatment level" is that level of bromine initially added to the water when determining the halogen (bromine) demand. Depending on the source water, it may be necessary to initially add up to 2.0 to 2.7 ppm to satisfy the halogen demand. Follow the instructions below or in the system manual (Section 2) to verify that halogen (bromine) demand free water is produced. Test the final treated water (after 30 minutes contact time) from a faucet nearest to the tank to assure that the bromine level does not exceed 1 ppm and also at a faucet distant from the tank to assure that a detectable level of bromine is present.

System Operation

Flow from the water maker enters bypass header (1) on its way to the potable water tank. A controlled split flow occurs at point (2) through the dual feed valve (3) and water meter (4) entering feeder at point (5). Water meter (4) provides a numerical indication of the quantity of the water that has passed through the bromine feeder cartridge. Brominated water exits the feeder at point (6) and re-enters bypass header (1) at point (7) joining the main water stream. Water samples may be drawn from the test tap valve (8) to test for the presence of bromine. A bypass loop (buyer supplied) circumvents bypass header (1) during bromine feeder cartridge change out or system maintenance.

Cartridge Change

Note: Cartridge replacement is indicated by a numerical increase of 10 units (black digits on water meter register) over the previous reading noted when the current cartridge was installed. Enter this new number at the bottom of these operating instructions as a reminder of when the next cartridge change is required.

1. Bypass the proportioning bromine feeder by means of the bypass loop; open the bypass valve (9) and close valves (10 and 11).
2. Lift test tap valve (8) handle to allow feeder assembly to drain.
3. Loosen T-nut (13), remove V-band assembly (14) and feeder top (15). Do not damage coating.
4. Remove bromine feeder cartridge by unscrewing counterclockwise and replace with new bromine feeder cartridge (screw in clockwise finger tight). Drain old cartridge and place in shipping tube. Dispose of cartridge in accordance with instructions for plastic material disposal. DO NOT INCINERATE.
5. Use new gasket provided with new bromine feeder cartridge. Be sure gasket is properly seated on feeder shell lip.
6. Reinstall feeder top (15) and secure with V-band assembly (14). Tighten T-nut (13) firmly.
7. Close test tap valve (8).
8. Open upstream valve (10), open downstream valve (11) and close bypass valve (9).
9. Depress air relief button (12) until a steady stream of water (no bubbles) is discharged from tubing connected to feeder top (15); then release air relief button.

Testing for Bromine Content

Use a bromine analyzer/test kit to determine the bromine content of the final treated water. Directions for use are provided with the instructions supplied with the bromine analyzer/test kit. Target concentration of bromine (after 30 minutes contact time) at a faucet nearest the tank is 1 ppm and at a faucet distant from the tank is a "detectable level" - 0.1 - 0.2 ppm.

CARTRIDGE CHANGE DATA

Water meter reading when current cartridge was installed. (Black number dials)	Add 10 units to water meter reading	Water meter reading when current cartridge requires replacement. (Black number dials)
	+ 10 =	

⚠ WARNING

Drainage is slightly corrosive. Wash off skin and wipe up spillage.

EVERPURE® WATER YOU CAN TRUST.

Pentair Filtration
Sheboygan, Wisconsin U.S.A.

Printed in U.S.A.

L/3071-78 Sh:46078 MR08

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OPERATING INSTRUCTIONS
Everpure® Dual Feed Proportioning Bromine Feeder
Model SSFM-50CC Series (Type II, Class 3)

73450-6

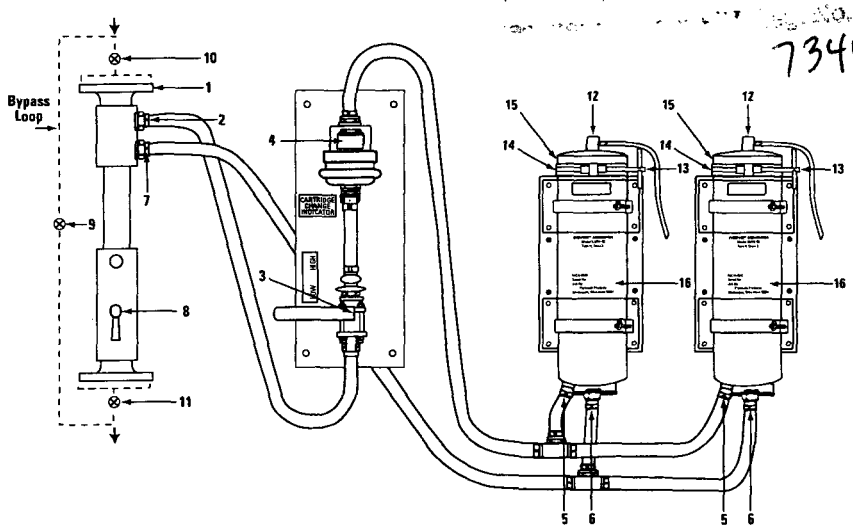
Non-Contaminated Seawater or Known Fresh Water Quality Source/Input
(Storage tank filled directly from potable fresh water or municipally treated source)
LOW BROMINE FEED

- Turn dual feed valve (3) to LOW position.

Contaminated Seawater or Unknown or Potentially Contaminated Water Source/Input
(Storage tank filled directly from a secondary carrier, tanker or other fresh water source of unknown quality)
HIGH BROMINE FEED

- Turn dual feed valve (3) to HIGH position.

In cases where the initial bromine treatment level may be lower than the recommended target level of 0.2 to 1.0 ppm, increased feed levels are required. In these instances, it is recommended that the final treated water should not be put into service until the target bromine level is maintained to between 0.2 and 1.0 ppm.



Note: *The "initial bromine treatment level" is that level of bromine initially added to the water when determining the halogen (bromine) demand. Depending on the source water, it may be necessary to initially add up to 2.0 to 2.7 ppm to satisfy the halogen demand. Follow the instructions below or in the system manual (Section 2) to verify that halogen (bromine) demand free water is produced. Test the final treated water (after 30 minutes contact time) from a faucet nearest to the tank to assure that the bromine level does not exceed 1 ppm and also at a faucet distant from the tank to assure that a detectable level of bromine is present.*

System Operation
Flow from the water maker enters bypass header (1) on its way to the potable water tank. A controlled split flow occurs at point (2) through the dual feed valve (3) and water meter (4) entering feeder at point (5). Water meter (4) provides a numerical indication of the quantity of the water that has passed through the bromine feeder cartridge. Brominated water exits the feeder at point (6) and re-enters bypass header (1) at point (7) joining the main water stream. Water samples may be drawn from the test tap valve (8) to test for the presence of bromine. A bypass loop (buyer supplied) circumvents bypass header (1) during bromine feeder cartridge change out or system maintenance.

Cartridge Change
Note: Cartridge replacement is indicated by a numerical increase of 10 units (black digits on water meter register) over the previous reading noted when the current cartridge was installed. Enter this new number at the bottom of these operating instructions as a reminder of when the next cartridge change is required.

1. Bypass the proportioning bromine feeder by means of the bypass loop; open the bypass valve (9) and close valves (10 and 11).
2. Lift test tap valve (8) handle to allow feeder assembly to drain.
3. Loosen T-nut (13), remove V-band assembly (14) and feeder top (15). Do not damage coating.
4. Remove bromine feeder cartridge by unscrewing counterclockwise and replace with new bromine feeder cartridge (screw in clockwise finger tight). Drain old cartridge and place in shipping tube. Dispose of cartridge in accordance with instructions for plastic material disposal. DO NOT INCINERATE.
5. Use new gasket provided with new bromine feeder cartridge. Be sure gasket is properly seated on feeder shell lip.
6. Reinstall feeder top (15) and secure with V-band assembly (14). Tighten T-nut (13) firmly.
7. Close test tap valve (8).
8. Open upstream valve (10), open downstream valve (11) and close bypass valve (9).
9. Depress air relief button (12) until a steady stream of water (no bubbles) is discharged from tubing connected to feeder top (15); then release air relief button.

Testing for Bromine Content
Use a bromine analyzer/test kit to determine the bromine content of the final treated water. Directions for use are provided with the instructions supplied with the bromine analyzer/test kit. Target concentration of bromine (after 30 minutes contact time) at a faucet nearest the tank is 1 ppm and at a faucet distant from the tank is a "detectable level" - 0.1 - 0.2 ppm.

CARTRIDGE CHANGE DATA

Water meter reading when current cartridge was installed. (Black number dials)	Add 20 units to water meter reading	Water meter reading when current cartridge requires replacement. (Black number dials)
	+ 20 =	

⚠ WARNING

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