



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

74489-1

Date of Issuance:

SEP 10 2002

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional *MF*

Name of Pesticide Product:

AF24173 Anti-Foulant Device

Name and Address of Registrant (include ZIP Code):

Sea-Bird Electronics, Inc.  
1808 - 136 Place Northeast  
Bellevue, WA 98005

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes:

Package Label:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. "74489-1".

Signature of Approving Official:

Marshall Swindell, PM 33  
Regulatory Management Branch 1  
Antimicrobial Division (7510C)

Date:

SEP 10 2002

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EPA Registration No. 74489-1

- b. Place the signal word "DANGER" on a separate line and ensure that the signal word complies with Agency type size requirements. Delete the colon(:) following the signal word.
- c. Remove the statement "Corrosive - Causes eye and .....if swallowed."
- d. Change the statement "Before Opening this package, See Conductivity Instrument.....of this Product." to "See the complete label within the Conductivity Instrument Manual for Additional Precautionary Statements and Information on the Handling, Storage and Disposal of this Product."
- e. Revise your product descriptor to read: "FOR USE ONLY IN SEA-BIRD ELECTRONICS CONDUCTIVITY SENSORS TO CONTROL THE GROWTH OF AQUATIC ORGANISMS WITHIN ELECTRONIC CONDUCTIVITY SENSORS."
- f. Change the "Net Contents" statement to read "Net Contents: Two antifoulant devices (7.14g).

**Full Product Label (included in the Conductivity Instrument Manual)**

- a. Revise your product descriptor to read: "FOR USE ONLY IN SEA-BIRD ELECTRONICS CONDUCTIVITY SENSORS TO CONTROL THE GROWTH OF AQUATIC ORGANISMS WITHIN ELECTRONIC CONDUCTIVITY SENSORS."
- b. Place the signal word "DANGER" on a separate line and ensure that the signal word complies with Agency type size requirements.
- c. Remove the statement "Corrosive - Causes eye and .....if swallowed." from the front panel.

**Conductivity Instrument Manual**

- a. Change the terms "anti-foul cup" or "anti-foul cap" to "anti-foulant device cup" and "anti-foulant device cap" respectively, wherever it appears in the instrument manual.

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EPA Registration No. 74489-1

Submit two copies of final printed labeling for our record.

The Basic Confidential Statement of Formula dated February 25, 2002 and the product chemistry data were found to be acceptable.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely,



Marshall Swindell  
Product Manager 33  
Regulatory Management Branch 1  
Antimicrobial Division (7510C)

Enclosure

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Package label

**AF24173 Anti-Foulant Device**

FOR USE ONLY IN SEA-BIRD ELECTRONICS' CONDUCTIVITY SENSORS. THIS PACKAGE CONTAINS TWO (2) ANTI-FOULANT DEVICES.

**ACTIVE INGREDIENT:**

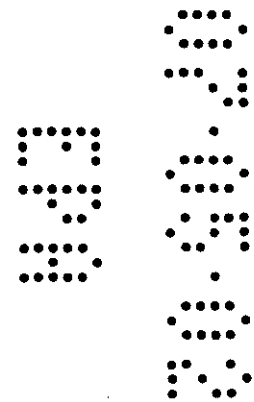
Bis(tributyltin) oxide.....	53.0%
OTHER INGREDIENTS: .....	47.0%
Total.....	100.0%

**DANGER: Corrosive - Causes eye and skin damage. Harmful if swallowed. Before Opening This Package, See Conductivity Instrument Manual for Additional Precautionary Statements and Information on the Handling, Storage and Disposal of This Product**

Net Contents: 7.14 g

Sea-Bird Electronics, Inc.  
1808 - 136<sup>th</sup> Place Northeast  
Bellevue, WA 98005

EPA Registration No. 74489-  
EPA Establishment No. 74489-WA-1



**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
SEP 10 2002**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.  
74489-1

Label to be included in Conductivity Instrument Manuals

**AF24173 Anti-Foulant Device**

FOR USE ONLY IN SEA-BIRD ELECTRONICS' CONDUCTIVITY SENSORS. THIS PACKAGE CONTAINS TWO (2) ANTI-FOULANT CYLINDERS

**ACTIVE INGREDIENT:**

Bis(tributyltin) oxide..... 53.0%  
 OTHER INGREDIENTS: ..... 47.0%  
 Total..... 100.0%

**DANGER:** Corrosive - Causes eye and skin damage. Harmful if swallowed.  
 See Precautionary Statements for additional information.

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person drink several glasses of water.</li> <li>• Do not induce vomiting.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Note to Physician	Probable mucosal damage may contraindicate the use of gastric lavage
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For further information call National Pesticide Telecommunications Network (NPTN) at 1-800-858-7378.	

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### PRECAUTIONARY STATEMENTS

#### HAZARD TO HUMANS AND DOMESTIC ANIMALS

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 74489-1

#### DANGER

**Corrosive** - Causes irreversible eye damage and skin burns. Harmful if swallowed. Harmful if absorbed through the skin or inhaled. Prolonged or frequently repeated contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling.

#### PERSONAL PROTECTIVE EQUIPMENT

##### USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Wear protective gloves (rubber or latex), goggles or other eye protection, and clothing to minimize contact.
- Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Wash hands with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet.

#### ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of EPA. This material is toxic to fish. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Avoid contact with acids and oxidizers.

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For use only in Sea-Bird Electronics' conductivity sensors. Read installation instructions in the applicable Conductivity Instrument Manual.

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**STORAGE AND DISPOSAL**

**PESTICIDE STORAGE:** Store in original container in a cool, dry place. Prevent exposure to heat or flame. Do not store near acids or oxidizers. Keep container tightly closed.

**PESTICIDE SPILL PROCEDURE:** In case of a spill, absorb spills with absorbent material. Put saturated absorbent material to a labeled container for treatment or disposal.

**PESTICIDE DISPOSAL:** Pesticide that cannot be used according to label instructions must be disposed of according to Federal or approved State procedures under Subtitle C of the Resource Conservation and Recovery Act.

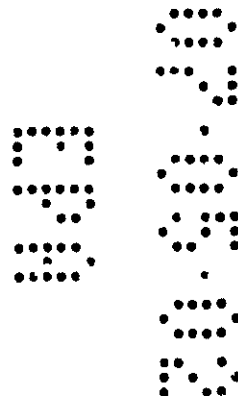
**CONTAINER DISPOSAL:** Dispose of in a sanitary landfill or by other approved State and Local procedures.

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**74489-1**



## Replacing Anti-Foulant Devices (SBE 16plus, SBE 19plus)



AF24173  
Anti-Foulant  
Device

The SBE 16plus and 19plus (moored option) have an anti-foul cup and cap on each end of the conductivity cell. A new SBE 16plus (or moored option 19plus) is shipped with an Anti-Foulant Device and a protective plug pre-installed in each cup.

Wearing rubber or latex gloves, follow this procedure to replace each Anti-Foulant Device (two):

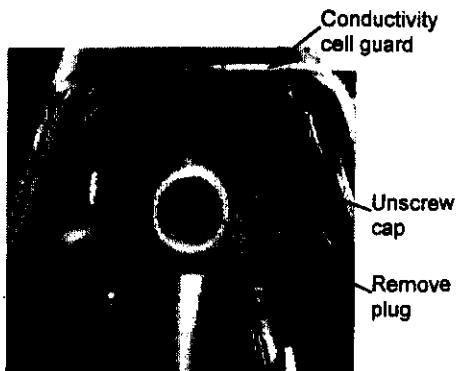
### WARNING!

AF24173 Anti-Foulant Devices contain bis(tributyltin) oxide. Handle the devices only with rubber or latex gloves. Wear eye protection. Wash with soap and water after handling.

Read precautionary information on product label before proceeding.

It is a violation of US Federal Law to use this product in a manner inconsistent with its labeling.

1. Remove the protective plug;
2. Unscrew the cap with a 5/8-inch socket wrench;
3. Remove the old Anti-Foulant Device. If the old Anti-Foulant Device is difficult to remove:
  - Use needle-nose pliers and carefully break up material;
  - If necessary, remove the conductivity cell guard to provide easier access;
4. Place the new Anti-Foulant Device in the cup;
5. Rethread the cap onto the cup. Do not over tighten;
6. Replace the protective plug if not ready to redeploy.



### CAUTION:

One of the anti-foul cups is attached to the guard and connected to the conductivity cell. Removing the guard without disconnecting the cup from the guard will break the cell. If the guard must be removed:

1. Remove the two screws connecting the anti-foul cup to the guard;
2. Remove the four Phillips-head screws connecting the guard to the housing and sensor end cap;
3. Gently lift the guard away.

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## Replacing Anti-Foulant Devices (SBE 37SI, SM, IM)



AF24173  
Anti-Foulant  
Device

The MicroCAT has an anti-foul cup and cap on each end of the cell. New MicroCATs are shipped with an Anti-Foulant Device and a protective plug pre-installed in each cup.

**WARNING!**

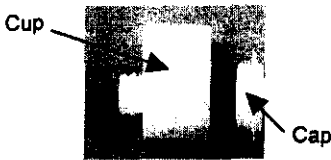
AF24173 Anti-Foulant Devices contain bis(tributyltin) oxide. Handle the devices only with rubber or latex gloves. Wear eye protection. Wash with soap and water after handling.

Read precautionary information on product label before proceeding.

It is a violation of US Federal Law to use this product in a manner inconsistent with its labeling.

Wearing rubber or latex gloves, follow this procedure to replace each Anti-Foulant Device (two):

1. Remove the protective plug from the anti-foul cup;
  2. Unscrew the cap with a 5/8-inch socket wrench;
  3. Remove the old Anti-Foulant Device. If the old device is difficult to remove:
    - Use needle-nose pliers and carefully break up material;
    - If necessary, remove the guard to provide easier access.
- Place the new Anti-Foulant Device in the cup;
4. Rethread the cap onto the cup. Do not over tighten;
  5. If the MicroCAT is to be stored, reinstall the protective plug. **Note that the plugs must be removed prior to deployment or pressurization.** If the plugs are left in place during deployment, the cell will not register conductivity. If left in place during pressurization, the cell may be destroyed.



**CAUTION:**

Anti-foul cups are attached to the guard and connected with tubing to the cell. **Removing the guard without disconnecting the cups from the guard will break the cell.** If the guard must be removed:

1. Remove the two screws connecting each anti-foul cup to the guard.
2. Remove the four Phillips-head screws connecting the guard to the housing and sensor end cap.
3. Gently lift the guard away.

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## Anti-Foulant Devices (SBE 41/41CP)



AF24173  
Anti-Foulant  
Device

The SBE41/41CP is supplied with anti-foul fittings and Anti-Foulant Devices.

The Anti-Foulant Devices are installed:

- in the T-C Duct assembly;
- in the anti-foul cup and cap (part of the external pump exhaust tubing).

**WARNING!**

AF24173 Anti-Foulant Devices contain bis(tributyltin) oxide. Handle the devices only with rubber or latex gloves. Wear eye protection. Wash with soap and water after handling.

Read precautionary information on product label before proceeding.

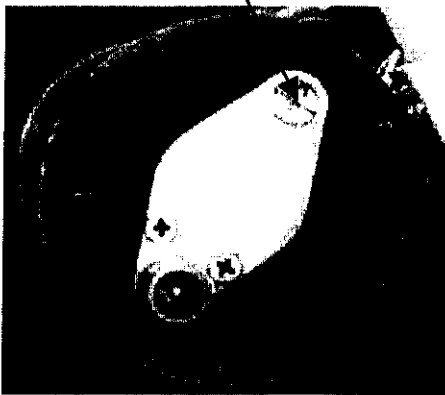
It is a violation of US Federal Law to use this product in a manner inconsistent with its labeling.

**Wearing rubber or latex gloves, follow this procedure to install each Anti-Foulant Device (two):**

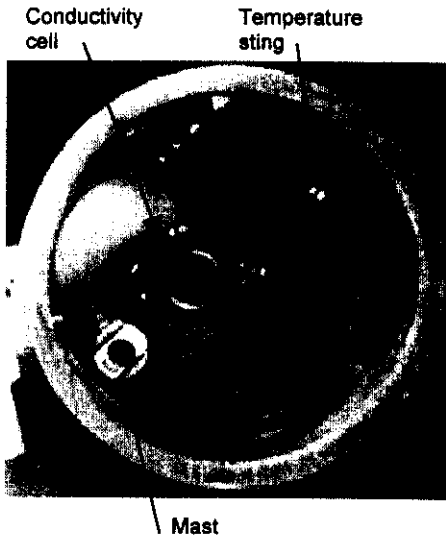
### Anti-Foulant Device in T-C Duct Assembly

1. Remove the large screw securing the T-C Duct to the mast.
2. Gently pull the T-C Duct straight out - you will feel some resistance as the seals disengage. **Do not twist the T-C Duct or apply any sideways motion, or you may damage the conductivity cell.**
3. Remove the two small Phillips-head screws securing the T-C Duct top to the T-C Duct base.
4. Pull the T-C Duct top off of the base.
5. Place the Anti-Foulant Device in the T-C Duct base.
6. Replace the T-C Duct top on the base, reinstalling the two small Phillips-head screws.
7. **Carefully slide the T-C Duct assembly over the temperature sting, aligning the large screw hole with the screw hole in the mast. Push the assembly onto the end of the conductivity cell - you will feel some resistance as the seals engage. Do not twist the T-C Duct or apply any sideways motion, or you may damage the conductivity cell.**
8. Reinstall the large screw to secure the assembly to the mast.

Remove large screw securing T-C Duct to mast; then pull Duct straight out



T-C Duct  
Top Base



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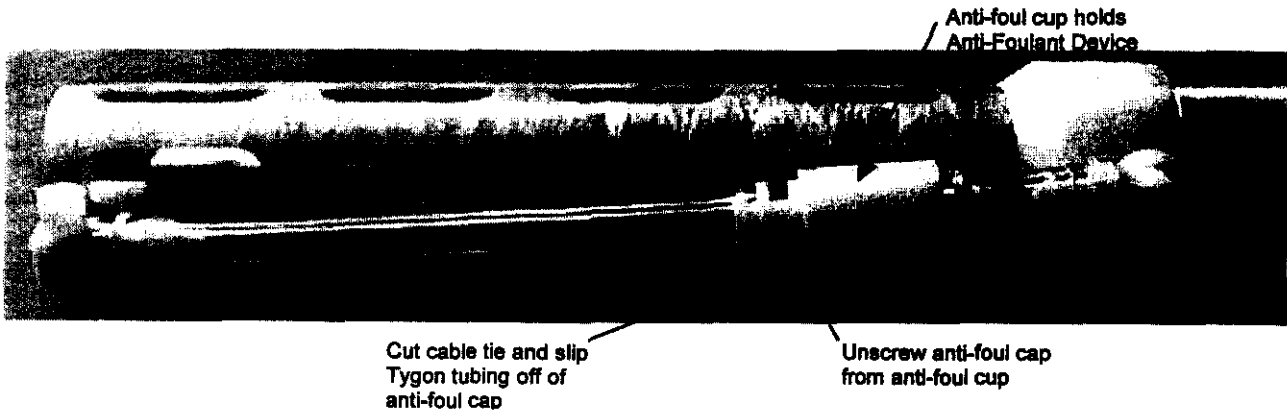
SEP 10 2002

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### Installing Anti-Foulant Device in Pump Exhaust Tubing

1. Carefully cut the cable tie securing the Tygon tubing to the anti-foul cap. Slip the Tygon tubing off of the anti-foul cap.
2. Unscrew the cap with a socket wrench.
3. Place the Anti-Foul Device in the cup.
4. Rethread the cap onto the cup. Do not over tighten.
5. Slip the Tygon tubing back onto the cap. Secure with a new cable tie.



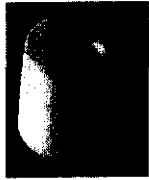
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## Replacing Anti-Foulant Device (SBE 45)



AF24173  
Anti-Foulant  
Device

### WARNING!

AF24173 Anti-Foulant Devices contain bis(tributyltin) oxide. Handle the devices only with rubber or latex gloves. Wear eye protection. Wash with soap and water after handling.

Read precautionary information on product label before proceeding.

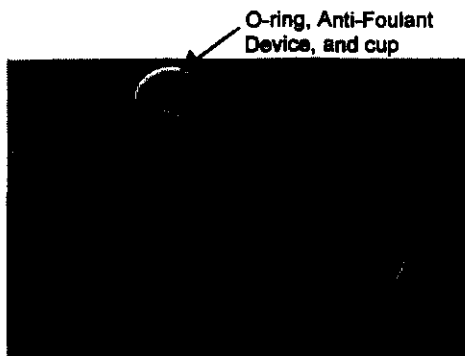
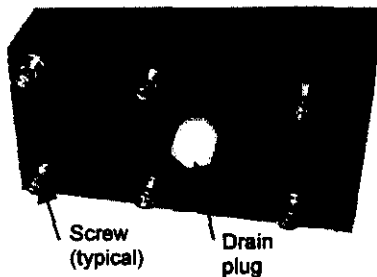
It is a violation of US Federal Law to use this product in a manner inconsistent with its labeling.

The MicroTSG has an anti-foul cup inside the housing. New MicroTSGs are shipped with an Anti-Foulant Device pre-installed in the cup.

Anti-Foulant Devices are sold packaged in pairs. The second device should be retained as a spare; reseal in its original plastic bag and store in a cool location.

Wearing rubber or latex gloves, follow this procedure:

1. Keeping the MicroTSG in an upright position, remove the drain plug from the housing's bottom plate. Allow any water to drain out and remove any sediment or debris from the drain before proceeding.
2. Remove the bottom plate:
  - A. Remove the six 1/4-inch socket head screws, lock washers, and flat washers securing the bottom plate to the housing body. Hold the bottom plate as you remove the hardware, to prevent it from falling.
  - B. Pull the bottom plate straight down from the housing body, being careful not to damage the conductivity cell, which sits in the housing at the end of the anti-foul cup.
3. Remove the Anti-Foulant Device:
  - A. Place the bottom plate on a horizontal surface. Remove the small O-ring securing the Anti-Foul Device in the anti-foul cup.
  - B. Remove the old Anti-Foul device. If it is difficult to remove, use needle-nose pliers and carefully break up the material.
4. Clean the bottom plate assembly:
  - A. Remove the two O-rings on the bottom plate. Put the O-rings aside, being careful to protect them from damage or contamination.
  - B. Rinse the bottom plate and flush the inside of the anti-foul cup and post with fresh water to remove sediment or debris.
  - C. Remove water from the O-rings and the bottom plate with a lint-free cloth or tissue.
  - D. Inspect the O-rings and mating surfaces for dirt, nicks, and cuts. Clean as necessary. Apply a light coat of O-ring lubricant (Parker Super O Lube) to the O-rings and mating surfaces.
  - E. Replace the O-rings on the bottom plate.
5. Place the new Anti-Foulant Device in the cup, and replace the O-ring.
6. Reinstall the bottom plate:
  - A. Align the bottom plate with the housing body, ensuring the end of the Anti-Foulant Device cup is aligned with the conductivity cell. Slowly position the bottom plate on the housing.
  - B. Re-secure the bottom plate to the housing body with the six 1/4-inch socket head screws, lock washers, and flat washers.
  - C. Reinstall the drain plug in the bottom plate.



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## Replacing Optional Anti-Foulant Devices (SBE 49)



AF24173  
Anti-Foulant  
Device

### WARNING!

AF24173 Anti-Foulant Devices contain bis(tributyltin) oxide. Handle the devices only with rubber or latex gloves. Wear eye protection. Wash with soap and water after handling.

Read precautionary information on product label before proceeding.

It is a violation of US Federal Law to use this product in a manner inconsistent with its labeling.

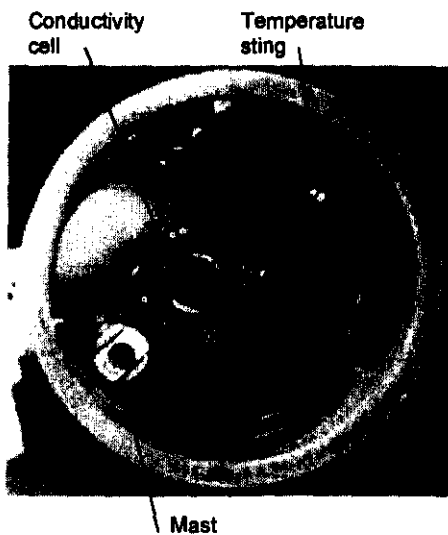
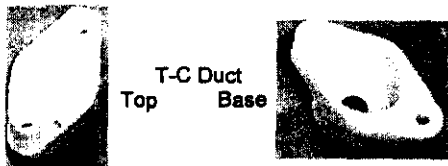
As an option, the FastCAT is supplied with anti-foul fittings and Anti-Foulant Devices. The Anti-Foulant Devices are installed:

- in the T-C Duct assembly;
- in the anti-foul cup and cap (part of the external pump exhaust tubing).

Wearing rubber or latex gloves, follow this procedure to replace each Anti-Foulant Device (two):

### Anti-Foulant Device in T-C Duct Assembly

1. Remove the large screw securing the T-C Duct to the mast.
2. Gently pull the T-C Duct straight out - you will feel some resistance as the seals disengage. Do not twist the T-C Duct or apply any sideways motion, or you may damage the conductivity cell.
3. Remove the two small Phillips-head screws securing the T-C Duct top to the T-C Duct base.
4. Pull the T-C Duct top off of the base.
5. Remove the old Anti-Foulant Device. If the old device is difficult to remove, use needle-nose pliers and carefully break up material.
6. Place the new Anti-Foulant Device in the T-C Duct base.
7. Replace the T-C Duct top on the base, reinstalling the two small Phillips-head screws.
8. Carefully slide the T-C Duct assembly over the temperature sting, aligning the large screw hole with the screw hole in the mast. Push the assembly onto the end of the conductivity cell - you will feel some resistance as the seals engage. Do not twist the T-C Duct or apply any sideways motion, or you may damage the conductivity cell.
9. Reinstall the large screw to secure the assembly to the mast.



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### Anti-Foulant Device in Pump Exhaust Tubing

1. Carefully cut the cable tie securing the Tygon tubing to the anti-foul cap. Slip the Tygon tubing off of the anti-foul cap.
2. Unscrew the cap with a socket wrench.
3. Remove the old Anti-Foulant Device. If the old device is difficult to remove, use needle-nose pliers and carefully break up material.
4. Place the new Anti-Foulant Device in the cup.
5. Rethread the cap onto the cup. Do not over tighten.
6. Slip the Tygon tubing back onto the cap. Secure with a new cable tie.



Anti-foul cup holds  
Anti-Foulant Device

Cut cable tie and slip  
Tygon tubing off of  
anti-foul cap

Unscrew anti-foul cap  
from anti-foul cup

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