YORK®	Form No.: 155.00-CH1 (LS1)	501
	Supersedes: None	
LITERATURE SUPPLEMENT	File with: 155.00-CH1	

Subject: ADVAGuard - 750 Replenishment Procedures for ParaFlow and Isoflow Absorption Units

General

All YORK ParaFlow™ and IsoFlow™ absorption units built today use the new ADVAGuard® - 750 corrosion inhibitor. ADVAGuard® - 750 corrosion inhibitor consists of two components: ADVAGuard® - 750A and ADVAGuard® - 750B.

During normal operation of the unit, inhibitor level becomes lower than its optimal level due to formation of a protective film. Depending on the machine temperature and hours of operation, there will be a need to replenish ADVAGuard® - 750 components A and B.

Drawing a solution sample out of the unit for Lab Analysis when the inhibitor is ADVAGuard® - 750 has not changed from the previous way that samples are taken. When submitting samples for analysis, a space is provided on the Solution Sample Submittal Form for checking ADVAGuard® - 750 as the inhibitor.

Due to the complexity of ADVAGuard® - 750, the replenishment procedures have changed slightly from the previous inhibitors. Strictly follow the steps below when replenishing ADVAGuard® - 750 corrosion inhibitor.

Working with chemical additives requires that the user exercise care. The use of face and eye protection, rubber gloves and apron is mandatory. Use of a dust mask is mandatory when handling ADVAGuard® - 750B. The user must read the label and Material Safety Data Sheet for appropriate information before handling these materials.

If the unit requires alkalinity adjustment, follow these steps:

1. Collect 20-30 gallons (76-114 liters) of the absorbent solution from the absorber into an open mouth, plastic container.
2. Add lithium hydroxide powder of solution as supplied to the container.
3. Mix the solution for 15 minutes. Add ADVAGuard® - 750A and/or ADVAGuard®-750B as needed.
4. If no additional inhibitor is required, the solution can be transferred back into the absorber under vacuum.

Charging ADVAGuard® - 750A into the unit.

The unit should be running during this procedure. When the unit only needs ADVAGuard® - 750A, follow the steps below:

1. With the alkalinity adjusted to the correct ranges, collect 20-30 gallons (76-114 liters) of the absorbent solution from the absorber into an open mouth plastic container.
2. Carefully open the sealed lid of the ADVAGuard® - 750A container. The ADVAGuard® - 750A is a yellow colored, clear solution. This is a strongly acidic solution. Slowly pour the ADVAGuard® - 750A solution into the absorbent solution at a rate of about 150-200 ml (approx. ½ pint) per minute while constantly mixing the solution with a plastic rod. After emptying the ADVAGuard® - 750A container, it should be washed with some deionized water/refrigerant and add the washings to the absorbent solution. The solution can then be transferred back into the absorber under vacuum.

Note:

a) Addition of excess amount of ADVAGuard® - 750A solution should be avoided. It will cause formation of greenish/blue suspension that takes much longer to dissolve.

b) If the solution starts to turn a bluish color, the absorbent solution should be transferred back into the machine and a fresh batch of solution collected. Then continue the addition of ADVAGuard® - 750A. (This may be the case if the unit needs a large quantity of ADVAGuard® - 750A).

Charging ADVAGuard® - 750B into the unit.

The unit should be running during this procedure. When the unit only needs ADVAGuard®-750B, follow the steps below:

1. With the alkalinity adjusted to the correct ranges, collect 20-30 gallons (76-114 liters) of the absorbent solution from the absorber into an open mouth, plastic container.
2. Carefully open the sealed lid of the ADVAGuard® - 750B container. This product is a white/grayish powder that attracts moisture. Pour ADVAGuard® - 750B from the container directly into the solution with constant mixing. Wash the container with absorbent solution and add the washings to the absorbent fluid. Mix solution for about 15 minutes. The solution can then be transferred back into the absorber under vacuum.

Adjusting Alkalinity and charging ADVAGuard® - 750A and ADVAGuard® - 750B into the unit.

The unit should be running during this procedure. When the machine needs alkalinity and ADVAGuard® - 750A and B components follow the steps below:

1. Collect 20-30 (76-114 liters) of the absorbent solution from the absorber into an open mouth plastic container.
2. Add lithium hydroxide powder or solution as supplied. The salt container should be washed with refrigerant and add washings to the absorbent solution. Mix the solution for 15 minutes. Proceed with additions of ADVAGuard® - 750A and B or A or B as needed.
3. Carefully open the sealed lid of the ADVAGuard® - 750A container. The ADVAGuard® - 750A is a yellow colored clear solution. This is a strongly acidic solution in nature. Slowly pour the ADVAGuard® - 750A solution into the absorbent solution at a rate of about 150-200 ml (approx. ½ pint) per minute while constantly mixing the solution with a plastic rod. When the ADVAGuard® - 750A container is empty, wash the container out and add the washings to the absorbent fluid.

Note:

a) Addition of excess amount of ADVAGuard® - 750A solution should be avoided. It will cause formation of greenish/blue suspension that takes longer time to dissolve.

b) If the solution starts to turn bluish in color, the absorbent solution should be transferred back into the machine and a fresh batch of solution should be collected to continue the addition of ADVAGuard® - 750A. (This may be the case if the machine needs a large quantity of ADVAGuard® - 750A).

4. Carefully open the sealed lid of the ADVAGuard® - 750B. This product is a white/grayish powder that attracts moisture. Pour ADVAGuard® - 750B from the container directly into the solution with constant mixing. Wash the container with absorbent solution and add the washings to the absorbent fluid. Mix solution for about 15 minutes. The solution can then be transferred back into the absorber under vacuum.

For Additional Sample Kits/Solution Analysis

Additional Solution Sample Kits and solution analysis can be obtained through Rocky Research, phone (702) 293-0851.