

INCH-POUND
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MIL-DTL-32235/3A

30 March 2021

W/Change 01 31 March 23 ES23-016 (DSCP-SS-23-00300)

SUPERSEDING

MIL-DTL-32235/3

15 September 2010

## DETAIL SPECIFICATION SHEET

### UNITIZED GROUP RATION-EXPRESS (UGR-E) HEATER MODULE: BOIL-IN-BAG (BIB) MODULE

This specification is approved for use by all  
Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-32235.

#### REQUIREMENTS

##### I. Boil-In-Bag (BIB) module.

The BIB module shall consist of a fiberboard box containing one BIB of dry or dehydrated food packaged in a barrier pouch, one pouch of potable water for rehydrating the food, one heater packaged in a barrier pouch, one activation fluid unit, and one serving tray in a polyethylene bag. Note that the terms bag and pouch are used interchangeably.

##### A. Heater.

The BIB heater shall be constructed of materials that, when activated by a fluid, shall initiate and propagate an exothermic reaction suitable for use with food. This reaction shall generate adequate heat to completely cook the food when applicable, or heat the food to a safe serving temperature. No toxic gas, liquid or solid by-products are desirable. If toxic by-products are produced, they shall be of the least severity and smallest amount possible while allowing for adequate heating and ensuring operator and consumer safety. When low hydrogen generating heater is used, it shall generate less than 30 liters of hydrogen in 60 minutes. The heater material shall be evenly distributed and completely sealed within the scrim matrix of the heater to minimize the release of materials, and facilitate direct in-place activation of the heater materials. The heating rate shall be optimized to minimize the time required to heat the food, yet not cause excessive foaming or uncontrolled release of reaction by-products. The BIB heater and barrier material shall not melt, deform or degrade during heating.

The heater is activated by the addition of a fluid that shall fully activate the heater material. The non-woven porous polymeric scrim shall be sealed and sized to accommodate proper fit and function of the heater module. Each heater (heater elements in a matrix) shall be correctly and legibly labeled in accordance with MIL-DTL-32235.

One heater shall be packaged in a barrier pouch constructed from laminated material, with one lamina a minimum of 0.00035 inch thick aluminum foil. The barrier pouch shall be heat sealed on all four edges. A tear nick, notch or serrations shall be provided to facilitate opening of the filled and sealed barrier pouch. The barrier pouch shall have maximum outer dimensions of 11 by 15 inches. Each barrier pouch with heater shall be correctly and legibly labeled in accordance with MIL-DTL-32235. In addition, the following statement shall be labeled on the barrier pouch and all boxes, as applicable:

FLAMELESS HEATER – DO NOT CONSUME

NOTE: Any hazard markings required for Occupational Safety and Health Administration (OSHA), U.S. Environmental Protection Agency (USEPA) and U.S. Department of Transportation (USDOT) compliance are to be labeled on the barrier pouch and all boxes, as applicable.

**B. Activation fluid unit.**

The activation fluid unit consisting of a pouch containing the activation fluid shall be made of material equivalent to Class 1 of MIL-PRF-131. Alternate activation fluid unit materials and design shall be permitted with approval from Combat Capabilities Development Command (DEVCOM) Soldier Center. The pouch shall be designed with a center or side spout and shall have maximum outer dimensions of 9-1/2 by 14 inches. The pouch shall be filled with 1.5 percent saline (water and sodium chloride) solution, or as specified by the heater manufacturer with approval from Combat Capabilities Development Command (DEVCOM) Soldier Center. The volume of fluid in the pouch, when combined with the heater, shall be adequate to initiate and propagate the exothermic reaction.

The pouch shall be heat sealed on all edges. A tear nick, notch or serrations shall be provided in the spout area to facilitate opening of the filled and sealed pouch. The average seal strength of the closure seal shall be not less than 6 pounds per inch of width and no individual specimen shall have a seal strength of less than 5 pounds per inch of width. Alternatively, the filled and sealed pouch shall exhibit no rupture or seal separation greater than 1/16 inch or seal separation that reduces the effective closure seal width to less than 1/16 inch when tested for internal pressure resistance.

Each activation fluid unit shall be correctly and legibly labeled in accordance with MIL-DTL-32235. In addition, the following statement shall be labeled on the pouch:

ACTIVATION FLUID - DO NOT CONSUME

NOTE: Any hazard markings required for Occupational Safety and Health Administration (OSHA), U.S. Environmental Protection Agency (USEPA) and U.S. Department of Transportation (USDOT) compliance are to be labeled on the activation fluid unit and all boxes, as applicable.

C. Boil-In-Bag (BIB).

The BIB of food shall meet the requirements of the applicable food document. Note that the requirements for eggs in a BIB are cited in PCR-E-017, Egg Mix, Reduced Cholesterol, Pasteurized, Uncooked, Dehydrated, Packaged in a Boil-In-Bag (BIB).

D. Rehydration water pouch.

Water shall conform to all requirements of A-A-20332. The water shall be sterilized by either class 1 (thermoprocessed), class 2 (ozone), class 3 (ultraviolet light), or class 4 (hot fill) treatment.

The pouch containing the rehydration water shall be made of material equivalent to Class 1 of MIL-PRF-131. The pouch shall have maximum outer dimensions of 11 by 14 inches. The minimum volume of rehydration water in the pouch shall be ~~4.5~~ 1.3 liters (~~51~~ 44 fluid ounces). The pouch shall be fitted with a cap with a 3/4 inch opening and a tamper evident closure. The pouch shall not leak.

The pouch shall be heat sealed on all edges. The average seal strength of the closure seal shall be not less than 6 pounds per inch of width and no individual specimen shall have a seal strength of less than 5 pounds per inch of width. Alternatively, the filled and sealed pouch shall exhibit no rupture or seal separation greater than 1/16 inch or seal separation that reduces the effective closure seal width to less than 1/16 inch when tested for internal pressure resistance.

Each pouch shall be correctly and legibly labeled. The label shall contain the following information:

- (1) Name
- (2) Contents
- (3) Net volume
- (4) Date of pack 1/
- (5) Contractor's name and address

1/ Each pouch shall have the date of pack noted by using a four digit code beginning with the final digit of the current year followed by the three digit Julian day code. For example, 14 February 2030 would be coded as 0045. The Julian day code shall represent the day the water was packaged.

E. Serving tray.

The serving tray shall be constructed from food grade (direct food contact), water resistant paperboard. All inside surfaces and edges shall be coated. The serving tray shall be capable of containing the food product during the preparation, cooking and serving of the food. There shall be no product transfer in or out of serving tray. The dimensions shall be a maximum of 14-1/2 by 10 by 2 inches. The serving tray shall be placed in a polyethylene bag with dimensions of approximately 24 12 by 16 inches and the bag sealed. The polyethylene bag shall be labeled with:

SERVING TRAY  
DO NOT DISPOSE  
REMOVE BAG BEFORE USING

F. Fiberboard box.

The fiberboard box shall be constructed from C flute corrugated fiberboard. The inside of the box shall be coated with a food grade (direct food contact), water resistant coating.

The design of the box shall be a flip top box with a locking mechanism. The outside dimensions shall be a maximum of 15-1/2 by 11 by 2-3/4 inches. The fiberboard box shall maintain its shape and integrity while containing the activated, heated, and cooked or serving temperature of BIB food for a minimum of 90 minutes after the heating reaction is initiated.

G. Assembly of BIB module.

The BIB module shall consist of one fiberboard box containing one BIB of food, one pouch of rehydration water, one activation fluid unit, one packaged heater, one serving tray in a polyethylene bag, and instruction sheets. All components shall be compatible and shall fit in the module box. Each heater module shall be correctly and legibly labeled in accordance with MIL-DTL-32235.

EXAMINATION

A. BIB heater module examination. The finished product shall be examined for conformance with the requirements specified in MIL-DTL-32235 and this specification sheet. The BIB heater module shall be examined for the defects listed in Table I.



TABLE I. BIB heater module defects 1/ 2/ 3/

Category		Defect
<u>Major</u>	<u>Minor</u>	
101		Heater module not a BIB heater module.
102		Heater does not contain materials that will initiate and propagate an exothermic reaction.
103		Heater causes excessive foaming or uncontrolled release of reaction by-products.
104		Heater not correct size or not correct capacity.
105		Heater module does not generate adequate heat to completely cook the food when applicable, or heat the food to a safe serving temperature. 4/
	201	Tear nick or notch or serrations on heater barrier pouch missing or does not facilitate opening.
106		Heater not packaged in a barrier pouch.
	202	Tear nick or notch or serrations on activator fluid pouch missing or does not facilitate opening.
107		Rehydration water pouch leaks.
108		Serving tray not correct dimensions or not correct design.
109		Serving tray not in polyethylene bag.
	203	Fiberboard module box not correct dimensions or not correct design.
	204	Fitment on pouch of rehydration water not compatible with BIB.
	205	Components not compatible or do not fit in fiberboard module box.
	206	Fiberboard box does not maintain its shape and integrity while containing the activated, heated, and cooked or serving temperature of BIB food for a minimum of 90 minutes after the heating reaction is initiated.
	207	Low hydrogen generating heater generates more than 30 liters of hydrogen in 60 minutes.

1/ Requirements that rehydration water meets A-A-20332 shall be verified by Certificate of Conformance (CoC).

2/ Serving tray construction from fiberboard with a food grade water resistant coating shall be verified by CoC.

3/ The low hydrogen generating heater shall be verified by CoC.

4/ BIB Eggs must be cooked to an internal temperature of 145°F (63°C) for fifteen seconds. Polymeric food trays must be reheated to an internal temperature of at least 135°F (57°C).

#### PART IDENTIFIERS AND SOURCES OF SUPPLY

1. Heater. The heater is available from:

Luxfer Magtech Incorporated  
2940 Highland Avenue  
Cincinnati, OH 45212  
(800) 503-4483

2. Heater barrier pouch. The barrier pouch material is available from:

Winter-Wolff International  
131 Jericho Turnpike  
Jericho, NY 11753  
(516) 997-3300

3. Activation fluid unit. The activator pouch is identified as Part # UGR-E-AFU-GEN II The material equivalent to Class 1 of MIL-PRF 131 for the construction of the activation fluid unit pouch is available from:

Cadillac Products Packaging Company  
5800 Crooks Road  
Suite 200  
Troy, Michigan 48098-2830  
(800) 837-0055

The filled and sealed activation fluid units are available from:

Heritage Packaging  
625 Fishers Run  
Victor, NY 14564

(585) 742-3310

4. Thermocoupled BIBs. Filled thermocoupled BIBs or instructions on how to construct them are available from:

Combat Capabilities Development Command (DEVCOM) Soldier Center  
FCDD-SCD-SCR  
10 General Greene Avenue  
Natick, MA 01760-5000  
(508) 206-3410

5. Instruction sheets. The following operation instruction sheets are attached:

FIGURE 1. UGR-E BIB Operating Instructions, for Heater with Hydrogen Generating Warning

FIGURE 2. UGR-E BIB Operating Instructions, for Heater with Low/No Hydrogen Generating Warning

FIGURE 3. Instructions for UGR-E Eggs, for Heater with Hydrogen Generating Warning

FIGURE 4. Instructions for UGR-E Eggs, for Heater with Low/No Hydrogen Generating Warning

Instruction sheets in color are available electronically from:

Combat Capabilities Development Command (DEVCOM) Soldier Center  
FCDD-SCD-SCR  
10 General Greene Avenue  
Natick, MA 01760-5000  
(508) 206-3410

## REFERENCES

### DEPARTMENT OF DEFENSE SPECIFICATIONS

MIL-DTL-32235	-	Unitized Group Ration – Express (UGR-E) Heater Module, General Specification for
MIL-PRF-131	-	Barrier Materials, Watervaporproof, Greaseproof, Flexible, Heat-Sealable

MIL-DTL-32235/3A

A-A-20332 - Water, Emergency, Drinking

(Copies of these documents are available online at <https://quicksearch.dla.mil>.)

PCR-E-017 - Egg Mix, Pasteurized, Uncooked, Dehydrated,  
Packaged in a Boil-In-Bag (BIB)

(Copies of this document are available from Combat Capabilities Development Command (DEVCOM) Soldier Center, FCDD-SCD-SCR, 10 General Greene Avenue, Natick, MA 01760-5000.)

GOVERNMENT PUBLICATIONS

U.S. DEPARTMENT OF LABOR

Occupational Safety and Health Administration (29 CFR Part 1910, Subpart H)

(Copies of this document are available online at <http://www.osha.gov> or U.S. Department of Labor Occupational Safety & Health Administration, 200 Constitution Avenue, N.W., Room Number N3626, Washington, D.C. 20210.

U.S. DEPARTMENT OF TRANSPORTATION

Research and Special Programs Administration (49 CFR Parts 171-180)

(Copies of this document are available online at <https://www.fmcsa.dot.gov> or Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402-0001.)

U.S. ENVIRONMENTAL PROTECTION AGENCY

Resource Conservation and Recovery Act (40 CFR, Parts 239-282)

(Copies of this document are available online at <http://www.epa.gov> or from the Superintendent of Documents, ATTN: New Orders, P.O. Box 371954, Pittsburgh, PA 15250-7954.)

TAB 2

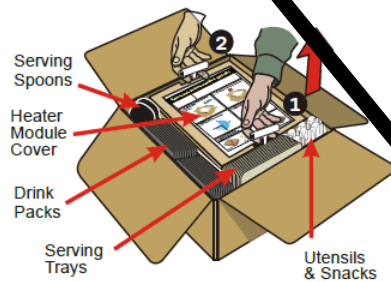
# UGR-E BIB Operating Instructions

This **Unitized Group Ration - Express** consists of a self-heating meal unit, additional menu components, and serving accessories to provide one complete meal for 18 Soldiers. The UGR-E has built-in, safe fluid activated chemical heaters that provide a hot meal in 45 minutes.

## WARNING

1. Vapors released by activated heater contain hydrogen, a flammable gas. Do not place an open flame within 10 feet of the unit while heating.
2. Do not use inside a vehicle or shelter, as vapors released by activated heater can displace oxygen.
3. Hot water leakage & steam can burn and cause injury.
4. Discard heating tray after use. Do not drink any water remaining in the heating tray or use it in food items.
5. Do not consume food contaminated by heating products.
6. Dispose of all food waste and soiled utensils and do not retain any food as leftovers.

- 1 IF FROZEN, allow to thaw before heating.**  
 1st) PULL Activator Tab 1 all the way out of box to release heaters.  
 2nd) PULL Activator Tab 2 all the way out of box to release water to activate heaters.

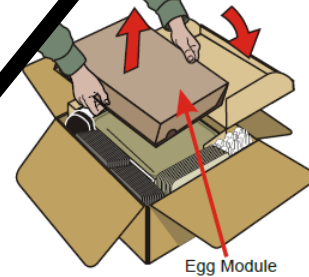


**NOTE:**  
 When pulled, there should be 3 strips hanging from each of the Activator Tabs. If there are fewer than 3, the Activator Pouches must be opened manually.  
 If an Activator Pouch is missing or empty, use 1 teaspoon of salt and 1.5 cups of water to activate the affected heater.

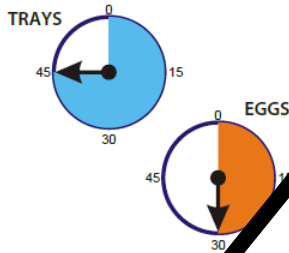
TAB 1

TAB 2

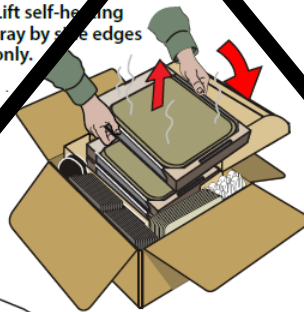
- 2** Open Heater Module Cover and remove Egg Tray. Close Heater Module Cover. Follow the instructions inside the Egg Tray to prepare the eggs.



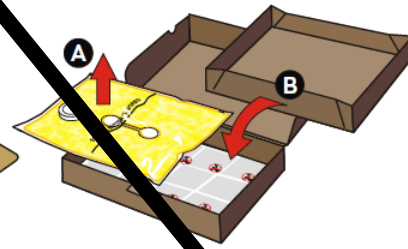
- 3** WAIT 45 minutes for bottom 3 trays. (Serving trays, drink packs, serving spoons, utensils and snacks may be removed while waiting.)  
 WAIT 30 minutes for eggs.



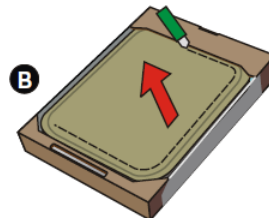
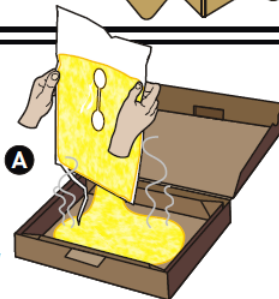
- 4** Open lid of Heater Module. Keeping food in the self-heating trays, REMOVE the heating trays ONE at a time. **CAUTION: Contents will be HOT!** Lift self-heating tray by side edges only.



- 5** A. REMOVE Egg BIB Pouch. **CAUTION: Pouch is hot!**  
 B. REMOVE Overwrap from Serving Tray, and place on top of Heater inside box.



- 6** A. CUT bottom of Egg BIB Pouch and empty into Serving Tray. **CAUTION: Contents are Hot.** Fluff eggs before serving.  
 B. Remove food lids by cutting a shape about one inch from outside edge, and serve. Once opened, do not keep tray items as leftovers.



**FOOD SAFETY NOTICE:**  
 Use new safety knife provided to prevent food contamination. Food service gloves and antibacterial wipes are also included.

TAB 1

Rev 01-12-21

FIGURE 1. UGR-E BIB Operating Instructions, for Heater with Hydrogen Generating Warning

**TAB 2 (Clear/white Activator Tabs)**

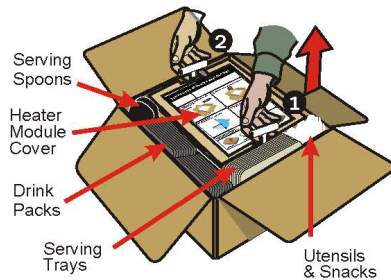
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### WARNING

1. Vapors released by activated heater contain hydrogen, a flammable gas. **Do not place an open flame within 10 feet of the unit while heating.**
2. Do not use inside a vehicle or shelter, as vapors released by activated heater can displace oxygen.
3. Hot water leakage & steam can burn and cause injury.
4. Discard heating tray after use. Do not drink any water remaining in the heating tray or use it in food items.
5. Do not consume food contaminated by heating products.
6. Dispose of all food waste and soiled utensils and do not retain any food as leftovers.

- 1 IF FROZEN, allow to thaw before heating.**  
 1st) PULL Activator Tab 1 **all the way out of box** to release heaters.  
 2nd) PULL Activator Tab 2 **all the way out of box** to release saline to activate heaters.

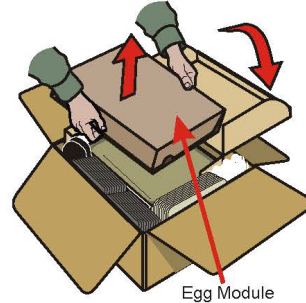


**NOTE:**  
 When pulled, there should be 3 strips hanging from each of the Activator Tabs. If there are fewer than 3, the Activator Pouches must be opened manually.

If an Activator Pouch is missing or empty, use 1 teaspoon of salt and 1.5 cups of water to activate the affected heater.



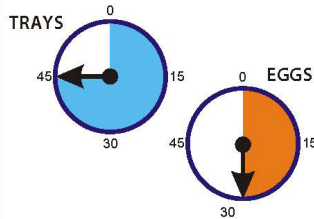
- 2** Open Heater Module Cover and remove Egg Tray. **Close Heater Module Cover.** Follow the instructions inside the Egg Tray to prepare the eggs.



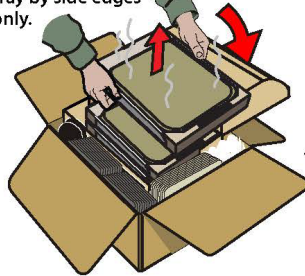
- 3 CLOSE BOX** to retain heat.

**WAIT 45 minutes** for bottom 3 trays. (Serving trays, drink packs, serving spoons, utensils and snacks may be removed while waiting.)

**WAIT 30 minutes** for eggs.

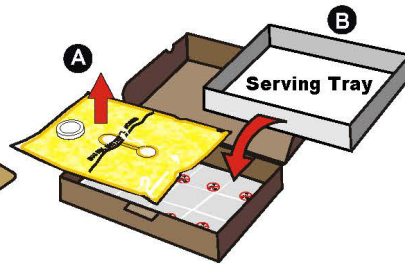


- 4** Open lid of Heater Module. Keeping food in the self-heating trays, **REMOVE** the heating trays **ONE** at a time. **CAUTION: Contents will be HOT!** Lift self-heating tray by side edges only.



- 5 A. REMOVE** cooked Egg BIB Pouch. **CAUTION: Pouch is hot!**

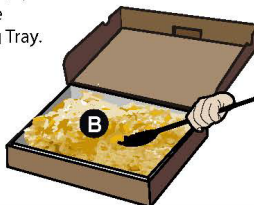
- B. REMOVE** Overwrap from Serving Tray and place Serving Tray into the Egg Tray.



- 6 A. CUT** bottom of Egg BIB Pouch and empty into the Serving Tray.

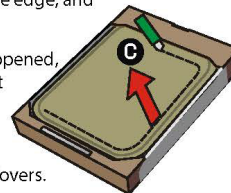


- B. FLUFF** eggs before serving.



- C. Remove** food tray lids by cutting U-shape about one inch from outside edge, and serve.

Once opened, do not keep tray items as leftovers.



**FOOD SAFETY NOTICE:**  
 Use new safety knife provided to prevent food contamination. Food service gloves and antibacterial wipes are also included.

**TAB 1 (Foil-backed Heat Seal Tabs)**

Rev 3-17-23

**FIGURE 1. UGR-E BIB Operating Instructions, for Heater with Hydrogen Generating Warning**



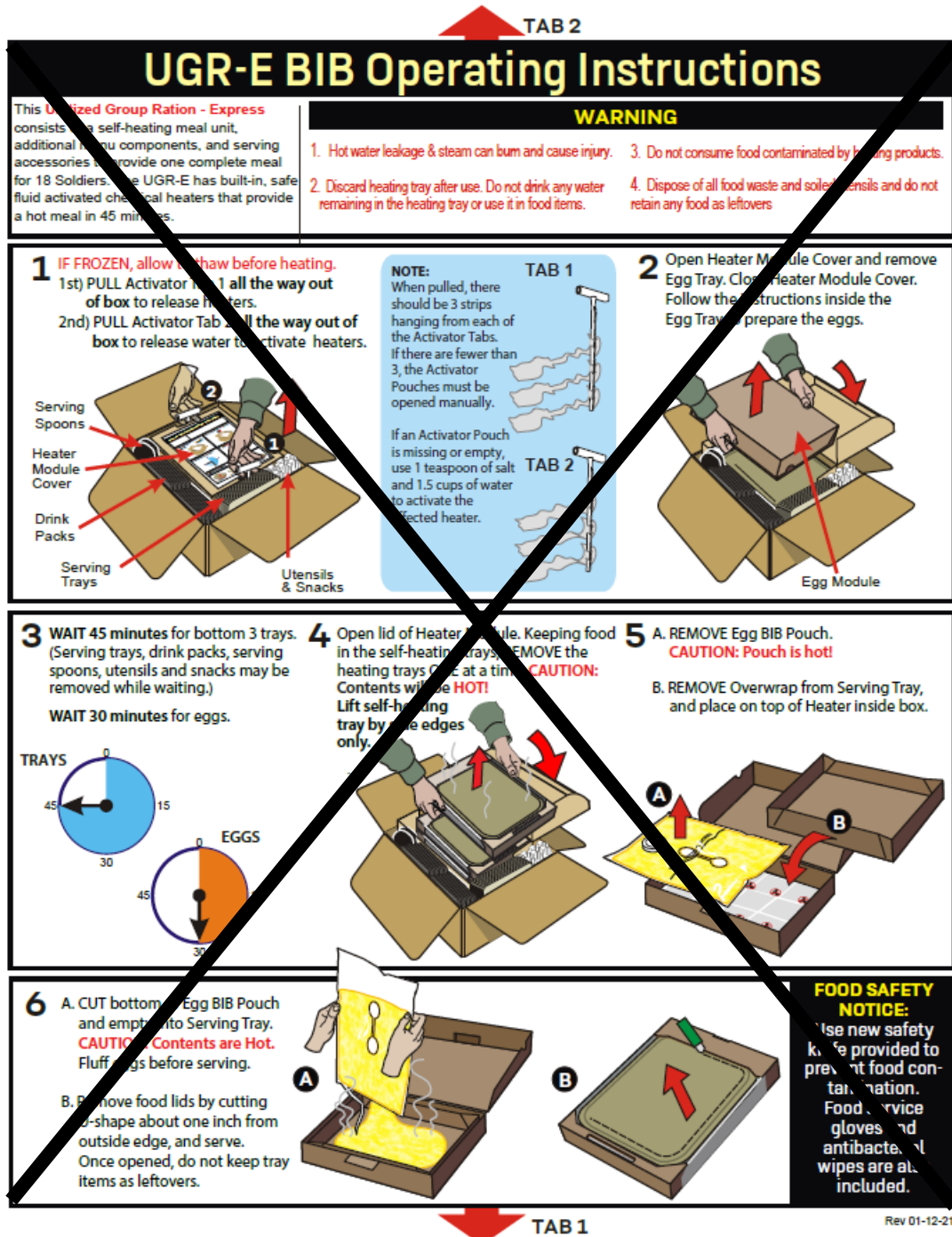


FIGURE 2. UGR-E BIB Operating Instructions, for Heater with Low Hydrogen Generating Warning

**TAB 2 (Clear/white Activator Tabs)**

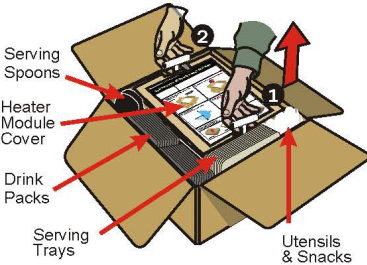
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### WARNING

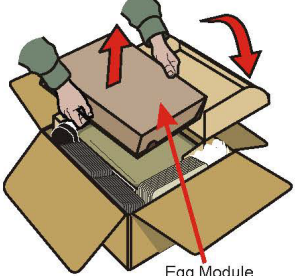
- Hot water leakage & steam can burn and cause injury.
- Discard heating tray after use. Do not drink any water remaining in the heating tray or use it in food items.
- Do not consume food contaminated by heating products.
- Dispose of all food waste and soiled utensils and do not retain any food as leftovers.

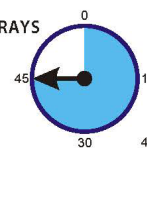
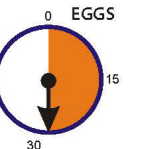
- IF FROZEN, allow to thaw before heating.**  
 1st) PULL Activator Tab 1 **all the way out of box** to release heaters.  
 2nd) PULL Activator Tab 2 **all the way out of box** to release solution to activate heaters.




**NOTE:**  
 When pulled, there should be 3 strips hanging from each of the Activator Tabs. If there are fewer than 3, the Activator Pouches must be opened manually.  
 If an Activator Pouch is missing or empty, use 1 teaspoon of salt and 1.5 cups of water to activate the affected heater.

**TAB 1**  
  
**TAB 2**  

- Open Heater Module Cover and remove Egg Tray. **Close Heater Module Cover.** Follow the instructions inside the Egg Tray to prepare the eggs.

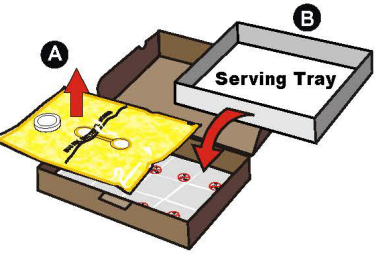

- CLOSE BOX** to retain heat.  
**WAIT 45 minutes** for bottom 3 trays. (Serving trays, drink packs, serving spoons, utensils and snacks may be removed while waiting.)  
**WAIT 30 minutes** for eggs.

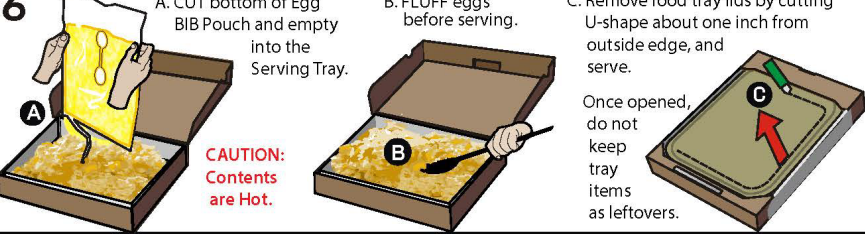
**TRAYS**  
  
**EGGS**  


4 Open lid of Heater Module. Keeping food in the self-heating trays, REMOVE the heating trays ONE at a time. **CAUTION: Contents will be HOT!** Lift self-heating tray by side edges only.



5 A. REMOVE cooked Egg BIB Pouch. **CAUTION: Pouch is hot!**  
 B. REMOVE Overwrap from Serving Tray and place Serving Tray into the Egg Tray.


- A. CUT bottom of Egg BIB Pouch and empty into the Serving Tray. **CAUTION: Contents are Hot.**  
 B. FLUFF eggs before serving.  
 C. Remove food tray lids by cutting U-shape about one inch from outside edge, and serve. Once opened, do not keep tray items as leftovers.



**FOOD SAFETY NOTICE:**  
 Use new safety knife provided to prevent food contamination. Food service gloves and antibacterial wipes are also included.

**TAB 1 (Foil-backed Heat Seal Tabs)**

Rev 3-17-23

**FIGURE 2. UGR-E BIB Operating Instructions, for Heater with Low/No Hydrogen Generating Warning**



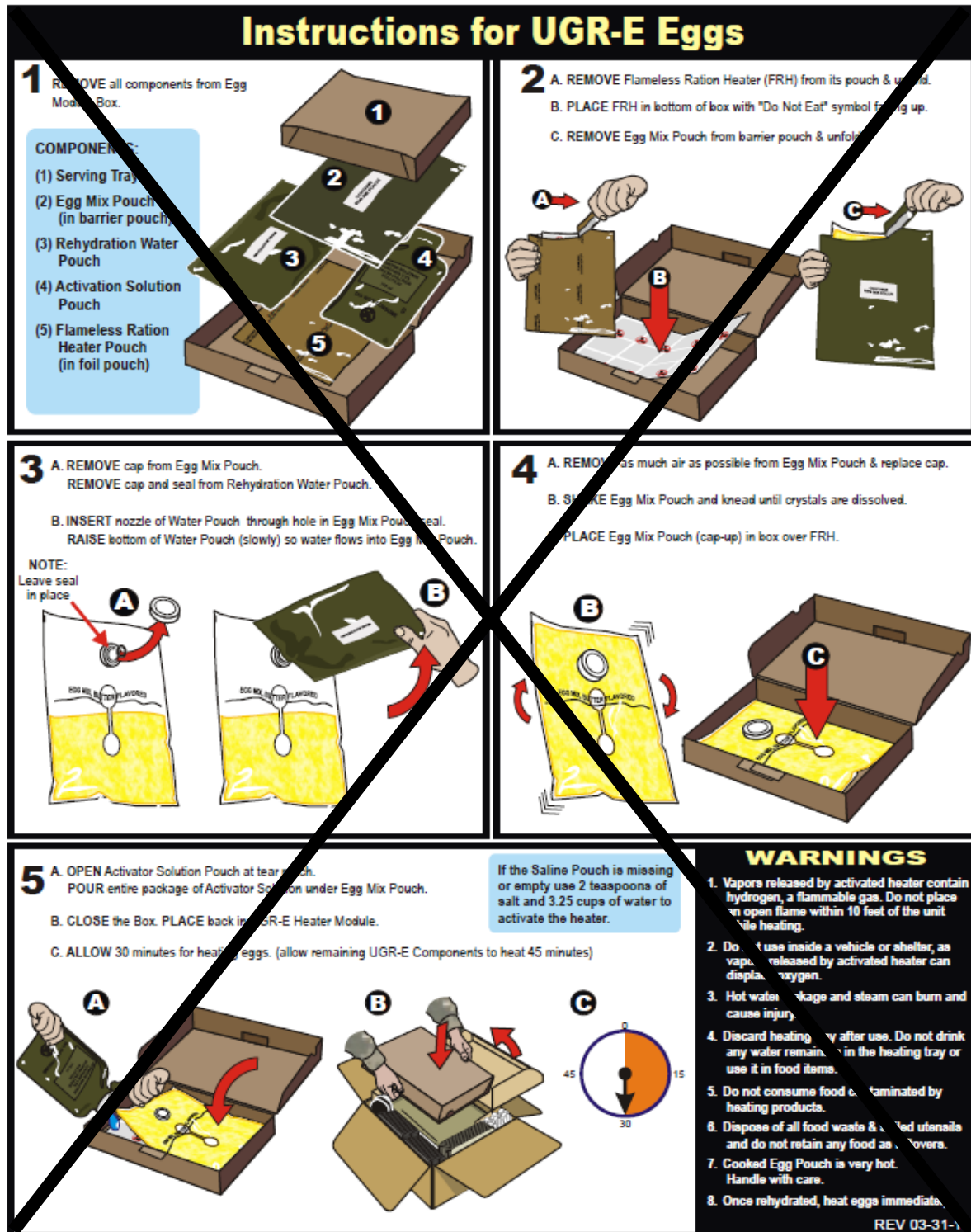


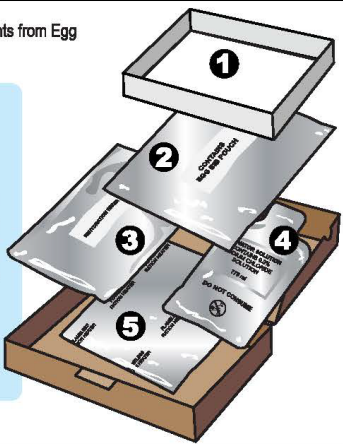
FIGURE 3. Instructions for UGR-E Eggs, for Heater with Hydrogen Generating Warning

## Instructions for UGR-E Eggs

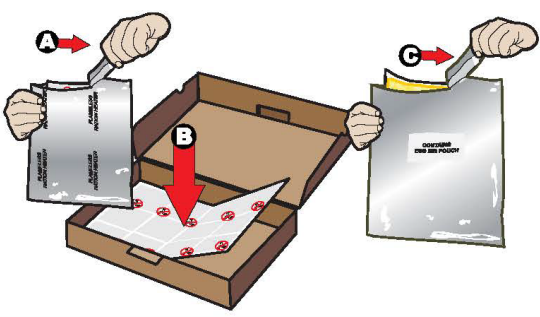
**1 REMOVE** all components from Egg Module Box.

**COMPONENTS:**

- ① Serving Tray
- ② Egg Mix Pouch (in barrier pouch)
- ③ Rehydration Water Pouch
- ④ Activation Solution Pouch
- ⑤ Flameless Ration Heater Pouch (in foil pouch)

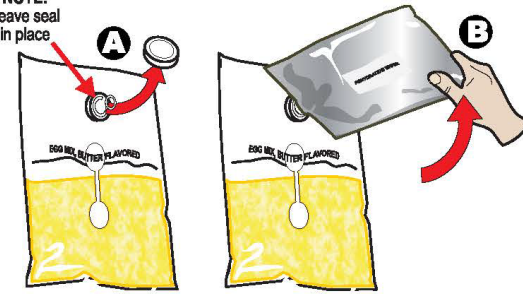


**2 A. REMOVE** Flameless Ration Heater (FRH) from its pouch & unfold.  
**B. PLACE** FRH in bottom of box with "Do Not Eat" symbol facing up.  
**C. REMOVE** Egg Mix Pouch from barrier pouch & unfold.

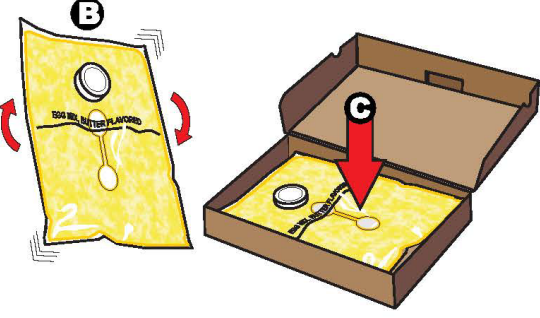


**3 A. REMOVE** cap from Egg Mix Pouch.  
**REMOVE** cap and seal from Rehydration Water Pouch.  
**B. INSERT** nozzle of Water Pouch through hole in Egg Mix Pouch seal.  
**RAISE** bottom of Water Pouch (slowly) so water flows into Egg Mix Pouch.

**NOTE:** Leave seal in place



**4 A. REMOVE** as much air as possible from Egg Mix Pouch & replace cap.  
**B. SHAKE** Egg Mix Pouch and knead until crystals are dissolved.  
**C. PLACE** Egg Mix Pouch (cap-up) in box over FRH.

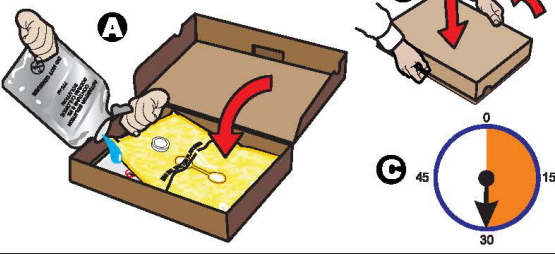


**5 A. OPEN** Activator Solution Pouch at tear notch.  
**POUR** entire package of Activator Solution under Egg Mix Pouch.

**B. CLOSE** the Box. **PLACE** back in UGR-E Heater Module.

**C. ALLOW** 30 minutes for heating eggs & remaining UGR-E Components.

**D. After** the eggs are fully cooked, place Serving Tray into the Egg Module Box and empty the cooked eggs into the Serving Tray.  
 The eggs are to be "fluffed" before serving.



**WARNINGS**

1. Vapors released by activated heater contain hydrogen, a flammable gas. Do not place an open flame within 10 feet of the unit while heating.
2. Do not use inside a vehicle or shelter, as vapors released by activated heater can displace oxygen.
3. Hot water leakage and steam can burn and cause injury.
4. Discard heating tray after use. Do not drink any water remaining in the heating tray or use it in food items.
5. Do not consume food contaminated by heating products.
6. Dispose of all food waste & soiled utensils and do not retain any food as leftovers.
7. Cooked Egg Pouch is very hot. Handle with care.
8. Once rehydrated, heat eggs immediately.

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FIGURE 3. Instructions for UGR-E Eggs, for Heater with Hydrogen Generating Warning

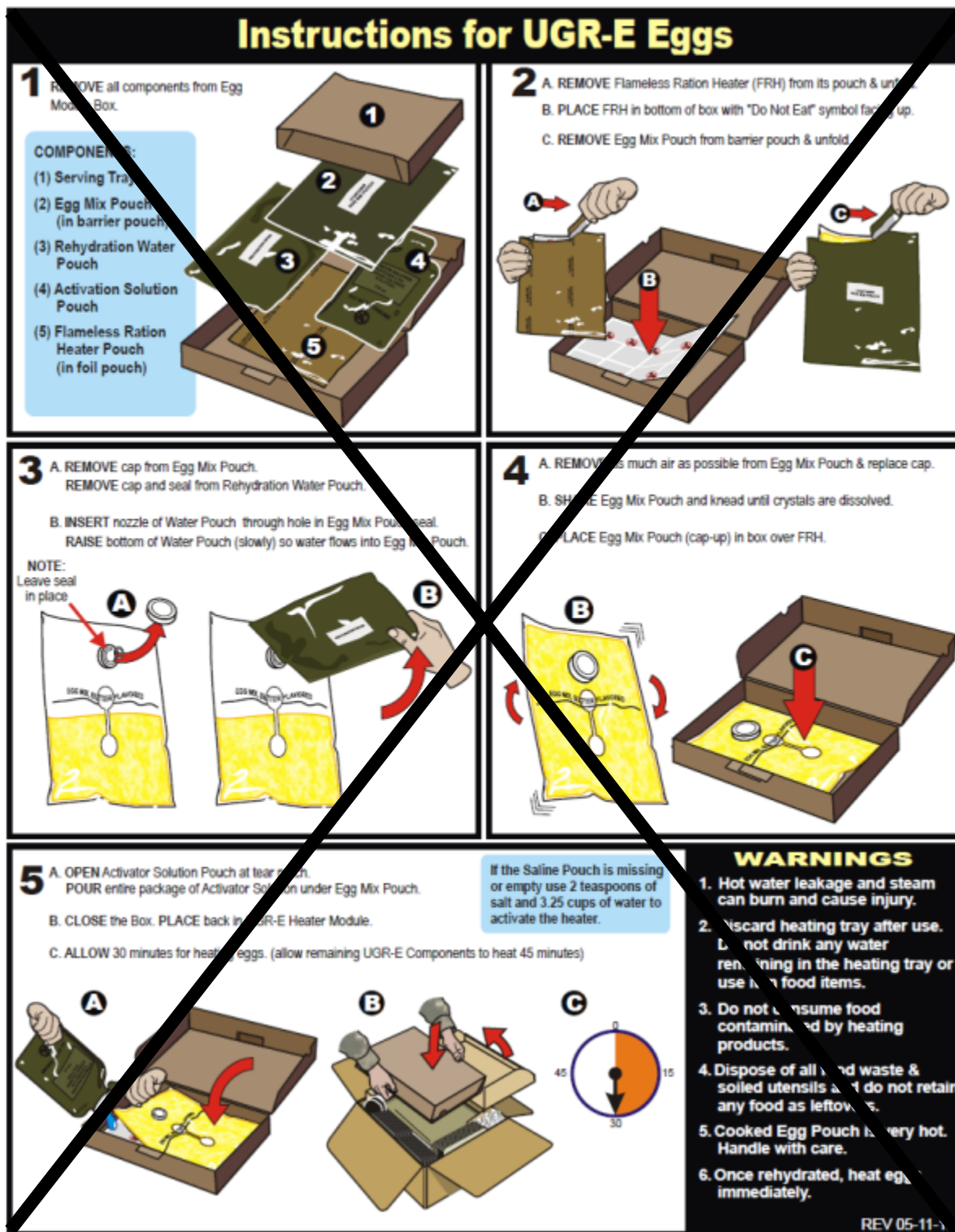


FIGURE 4. Instructions for UGR-E Eggs, for Heater with Low Hydrogen Generating Warning

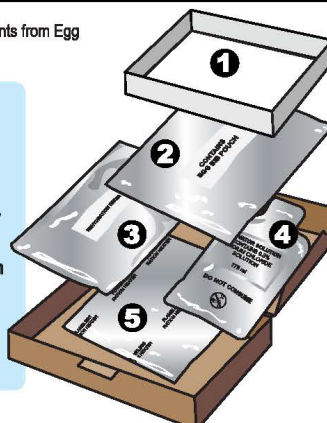


## Instructions for UGR-E Eggs

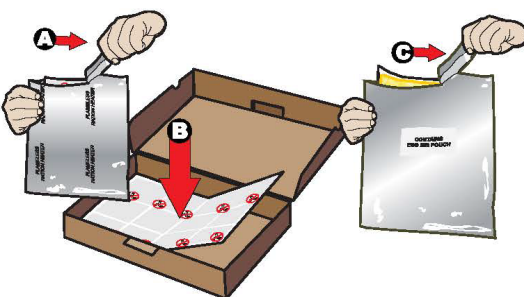
**1 REMOVE** all components from Egg Module Box.

**COMPONENTS:**

- ① Serving Tray
- ② Egg Mix Pouch (in barrier pouch)
- ③ Rehydration Water Pouch
- ④ Activation Solution Pouch
- ⑤ Flameless Ration Heater Pouch (in foil pouch)

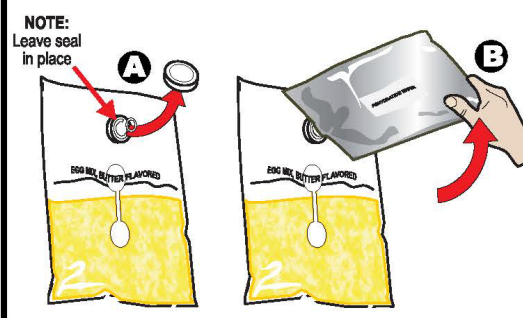


**2 A. REMOVE** Flameless Ration Heater (FRH) from its pouch & unfold.  
**B. PLACE** FRH in bottom of box with "Do Not Eat" symbol facing up.  
**C. REMOVE** Egg Mix Pouch from barrier pouch & unfold.

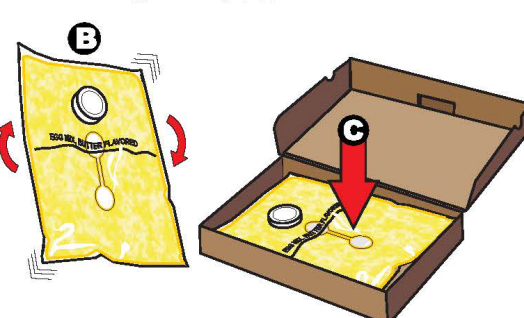


**3 A. REMOVE** cap from Egg Mix Pouch.  
**REMOVE** cap and seal from Rehydration Water Pouch.  
**B. INSERT** nozzle of Water Pouch through hole in Egg Mix Pouch seal.  
**RAISE** bottom of Water Pouch (slowly) so water flows into Egg Mix Pouch.

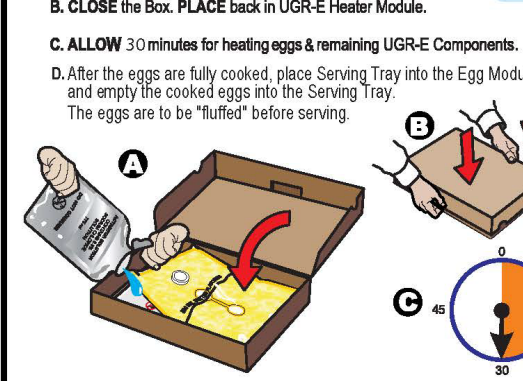
**NOTE:** Leave seal in place



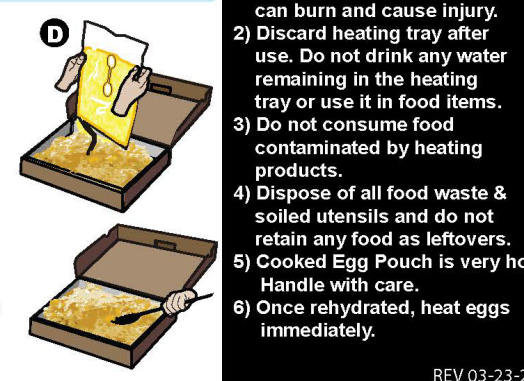
**4 A. REMOVE** as much air as possible from Egg Mix Pouch & replace cap.  
**B. SHAKE** Egg Mix Pouch and knead until crystals are dissolved.  
**C. PLACE** Egg Mix Pouch (cap-up) in box over FRH.



**5 A. OPEN** Activator Solution Pouch at tear notch.  
**POUR** entire package of Activator Solution under Egg Mix Pouch.  
**B. CLOSE** the Box. **PLACE** back in UGR-E Heater Module.  
**C. ALLOW** 30 minutes for heating eggs & remaining UGR-E Components.  
**D.** After the eggs are fully cooked, place Serving Tray into the Egg Module Box and empty the cooked eggs into the Serving Tray.  
 The eggs are to be "fluffed" before serving.



If the Saline Pouch is missing or empty, use 2 teaspoons of salt and 3.25 cups of water to activate the heater.



### WARNINGS

- 1) Hot water leakage and steam can burn and cause injury.
- 2) Discard heating tray after use. Do not drink any water remaining in the heating tray or use it in food items.
- 3) Do not consume food contaminated by heating products.
- 4) Dispose of all food waste & soiled utensils and do not retain any food as leftovers.
- 5) Cooked Egg Pouch is very hot. Handle with care.
- 6) Once rehydrated, heat eggs immediately.

REV 03-23-23

**FIGURE 4. Instructions for UGR-E Eggs, for Heater with Low/No Hydrogen Generating Warning**

MIL-DTL-32235/3A

Custodians:

Army – GL  
Navy – SA  
Air Force – 35

Preparing activity:

Army – GL  
(Project 8970-2021-005)

Review Activities:

Army – MD, QM  
Navy – MC  
DLA – SS

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using ASSIST Online database at <https://assist.dla.mil>.