

586A MOD 1  
**WATER BATH**



**INSTRUCTION MANUAL**



**ANIMAL REPRODUCTION SYSTEMS**

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## INTRODUCTION

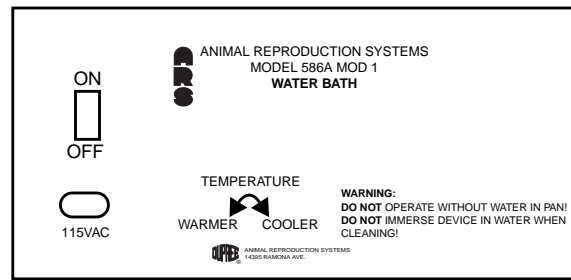
The Animal Reproduction Systems 586A MOD 1 *Water Bath* provides veterinarians and livestock breeders a reliable and accurate means of warming and maintaining breeding supplies at the appropriate physiological temperature.

The *Water Bath* is excellent for thawing frozen semen straws and semen freezing extenders, warming E-Z Mixin® semen extender and any other equipment that requires a fixed physiological temperature.

The *Water Bath* offers two specially designed thermoregulation features; a Precision Temperature Control and an Automatic Thermal Shut-Down mechanism. The Precision Temperature Control is designed to maintain the temperature within 0.5 °C under normal operating conditions. The Automatic Thermal Shut-Down mechanism will automatically disable the *Water Bath* heater in the event that the unit is either turned on without water, or is left on for an extended period of time, and the water is allowed to completely evaporate. This safety feature prevents permanent heat damage to the *Water Bath*.

The *Water Bath* also includes a Transparent Plastic Lid, and a detachable Power Cord. The transparent plastic lid reduces heat loss, while allowing visibility during operation, and also assists in keeping the *Water Bath* pan clean while not in use. The detachable powercord conveniently fits inside the *Water Bath* pan for easy storage. The ARS Thermometer with adjustable mounting clip (not included) is an additional accessory available from ARS if desired.

WATER BATH KIT (586A-201)	
Water Bath	586A-MOD1
Power Cord (detachable)	ARS-EPZS17250
Transparent Plastic Lid	586A-133
Water Bath Instruction Manual	586A-134
OPTIONAL ACCESSORIES (not included)	
Thermometer (w/ mountingclip)	THM-104



## SAFETY PRECAUTIONS

**WARNING:** DO NOT OPERATE WITHOUT WATER IN PAN!

**DANGER:** IF THERE IS NO WATER IN THE PAN DURING OPERATION THE WATER BATH WILL-MOMENTARILY OVERHEAT. TOUCHING THE PAN UNDER THESE CONDITIONS COULD RESULT IN SEVERE BURNING.

**WARNING:** DO NOT REMOVE THE GROUND PRONG (THIRD PIN) FROM THE POWER CORD, OR USE AN UNGROUNDED ADAPTER! THE WATER BATH REQUIRES A 3- WIRE RECEPTACLE. IF ONE IS NOT AVAILABLE, CONSULT WITH AN ELECTRICIAN FOR INSTALLATION.

**WARNING:** TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE PAN. NO USER SERVICEABLE PARTS INSIDE.

## OPERATION INSTRUCTIONS

1. Fill pan with at least 3 quarts of water (to the “Min. Fill” line), and no more than 6 quarts.  
NOTE: Distilled water is recommended to minimize mineral staining.
2. Plug in cord.
3. Turn switch “ON”.
4. Allow 15 minutes for water to warm up (approximately 5 minutes for each quart of room temperature water used), or until a thermometer indicates bath has reached the calibrated physiological temperature.

## STORAGE INSTRUCTIONS

1. Turn switch “OFF” and unplug from outlet.
2. Discard old water from *Water Bath* by pouring AWAY from the front of display.
3. Dry the inside of the pan.
4. Cover with *Water Bath* lid and store in convenient area.

## CLEANING INSTRUCTIONS

**CAUTION:** DO NOT IMMERSE IN WATER WHEN CLEANING!

1. Use a mild detergent to clean inside *Water Bath* pan. Keep water out of seams and electrical openings.
2. Dry thoroughly, replace lid cover and store in convenient area.

**HINT:** To minimize cleaning maintenance and mineral deposit stains, the use of fresh, distilled water is recommended before each use and cleaning is recommended after each use.

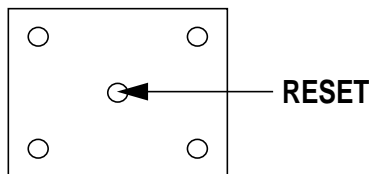
## TROUBLESHOOTING

If the *Water Bath* does not heat to the appropriate temperature:

If the *Water Bath* has run dry or is operated without water, the Thermal Shut-Down mechanism will automatically disable the heater to prevent heat damage to the unit. When this happens the “ON” switch will remain in the “up” position, but will no longer be illuminated.

### Resetting Thermal Shut-Down

1. Wait a few minutes for the *Water Bath* to cool down.
2. Turn the power switch to the “OFF” position. Unplug and empty remaining contents of *Water Bath* pan.
3. Locate the Reset activation opening. (Directly in the middle, underneath the bottom of the *Water Bath*.)



4. Insert a small narrow tool (instrument screwdriver) into the opening and press down on the Reset button until a “click” is heard.

5. The *Water Bath* should now be reset and operate normally.

If the *Water Bath* temperature is too high or too low after the warm-up period:

### Recalibration of Temperature Control

The *Water Bath* has been factory calibrated and under normal operating conditions, should not need to be re-calibrated. However, if adjustment to the temperature calibration is desired, proceed with the following steps:

1. Fill pan with 3 quarts of water. Allow *Water Bath* to warm up a minimum of 15 minutes.
2. Place a precision thermometer in the *Water Bath* and measure the current water temperature. (Do not let the temperature sensor touch the bottom of the pan.)
3. Turn the Temperature Adjustment Control either clockwise (cooler) or counter-clockwise (warmer) using a slotted instrument screwdriver. (.100 inch wide x .020 inch thick blade)
4. Wait a minimum of 5 minutes between each adjustment to allow for temperature stabilization.
5. Repeat steps 1 through 4 until the *Water Bath* is operating at the desired temperature.

*If you are experiencing a problem with the Water Bath that is not covered in these instructions, please contact Animal Reproduction Systems in Chino, California for further assistance via telephone at:(909) 393-6670 or via E-mail: arstechsupport@dupreeinc.com.*

## **LIMITED LIABILITY STATEMENT**

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