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CREWORKS SX-DUCBK02US

CREWORKS 2L Digital Ultrasonic Cleaner (Model SX-DUCBK02US) Instruction Manual

Model: SX-DUCBK02US

1. Important Safety Instructions

Please read and understand all safety instructions before operating the CREWORKS Ultrasonic Cleaner. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Do not disassemble:** Never attempt to open or repair the unit yourself. Refer all servicing to qualified personnel.
- **Do not use unattended:** Always supervise the unit during operation.
- **Always use sufficient fluid:** Ensure the cleaning tank is filled with an appropriate amount of cleaning solution before turning on the unit. Operating without fluid can damage the transducer.
- **Unplug before filling & draining:** Always disconnect the power cord from the outlet before adding or removing cleaning solution from the tank.
- **Electrical Safety:** Do not immerse the main unit in water or other liquids. Keep the power cord away from heated surfaces.
- **Heat Safety:** The heating function can make the tank and solution hot. Exercise caution to prevent burns.
- **Ventilation:** Operate the unit in a well-ventilated area, especially when using certain cleaning solutions.

Figure 1: CREWORKS 2L Digital Ultrasonic Cleaner with visible warning label on the control panel.

This image displays the CREWORKS 2L Digital Ultrasonic Cleaner, highlighting the control panel and the yellow warning label with key safety reminders.

2. Product Overview

The CREWORKS 2L Digital Ultrasonic Cleaner utilizes high-frequency sound waves to create cavitation bubbles in a liquid, providing thorough cleaning for various items. It features a digital control panel for precise settings, a heating function, and specialized modes for optimal cleaning.

2.1 Components

- **Main Unit:** Houses the ultrasonic transducer, heating element, and control circuitry.
- **Stainless Steel Tank:** 2-liter capacity, made from durable 304 stainless steel.
- **Lid:** Helps contain sound and prevent evaporation.
- **Cleaning Basket:** Designed to hold items during cleaning, preventing them from resting directly on the tank bottom.
- **Power Cord:** For connecting the unit to an electrical outlet.

2.2 Key Features

- **Digital Control Panel:** Intuitive interface for setting time and temperature.
- **Degas Mode:** Removes dissolved gases from the cleaning solution, enhancing cavitation efficiency and preventing oxidation.
- **Gentle Mode:** Reduces ultrasonic power for cleaning delicate items, protecting fragile surfaces.
- **Heating Function:** Accelerates the cleaning process by warming the solution (adjustable from 68°F to 176°F).
- **Timer:** Adjustable cleaning cycles up to 99 minutes.
- **Durable Construction:** 304 stainless steel tank and basket for longevity and corrosion resistance.

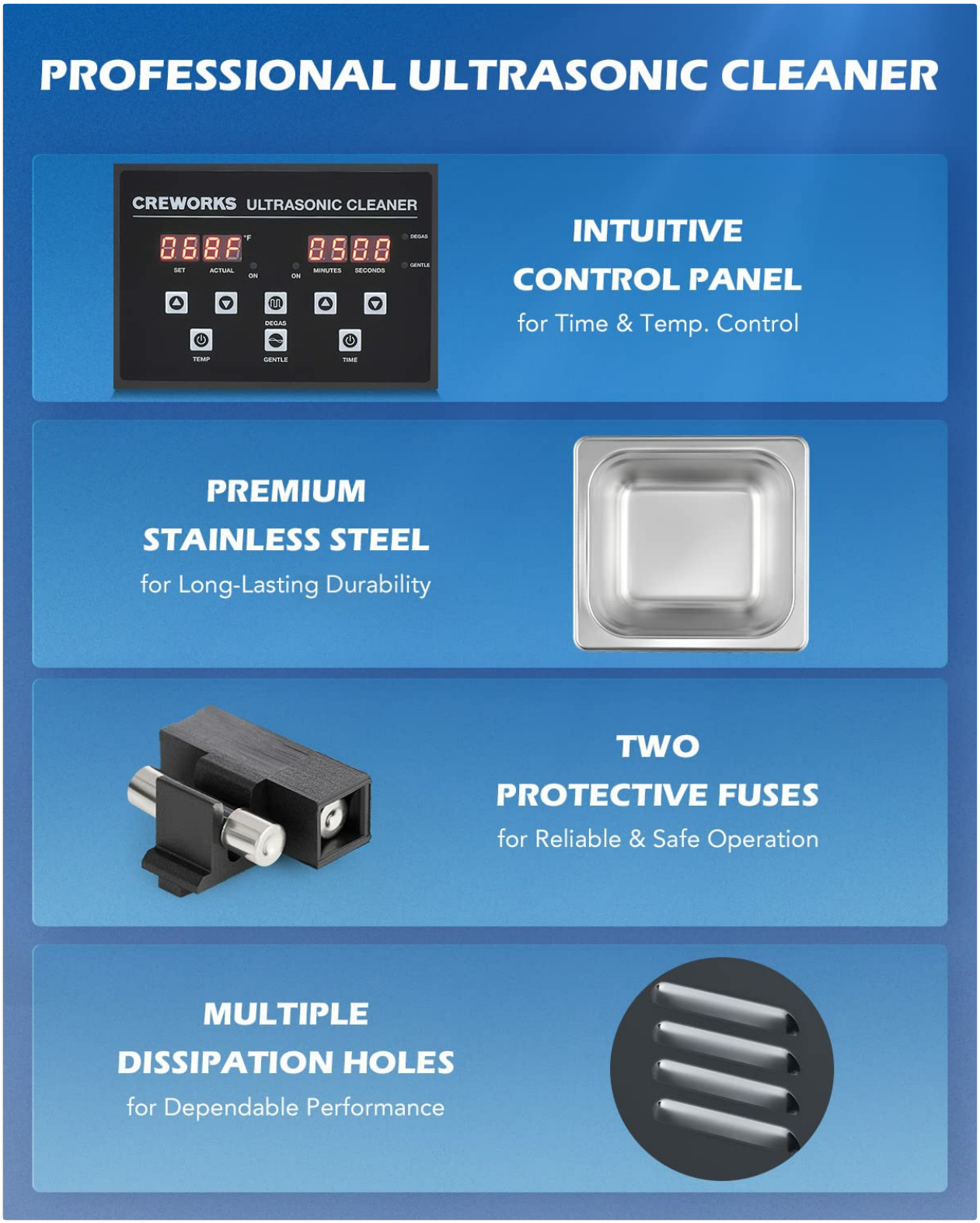


Figure 2: Detailed view of the CREWORKS Ultrasonic Cleaner's intuitive control panel, stainless steel tank, protective fuses,

and dissipation holes.

This image illustrates the key internal and external features of the ultrasonic cleaner, including the user-friendly digital control panel, the robust stainless steel tank, safety fuses, and ventilation holes for reliable performance.

Figure 3: Illustration of the multi-layered 304 stainless steel tank construction.

This graphic demonstrates the robust construction of the cleaning tank, highlighting the use of food-grade 304 stainless steel for durability, corrosion resistance, and a thickness of 0.04 inches.

3. Setup

1. **Unpack:** Carefully remove the ultrasonic cleaner and all accessories from the packaging. Inspect for any damage.

2. **Placement:** Place the unit on a stable, level, and dry surface. Ensure adequate ventilation around the unit.
3. **Fill Tank:** Ensure the unit is unplugged. Fill the stainless steel tank with an appropriate cleaning solution. The liquid level should be between the MIN and MAX marks (if present), or at least cover the items to be cleaned. Do not overfill.
4. **Connect Power:** Plug the power cord into a grounded electrical outlet.

4. Operating Instructions

The digital control panel allows for precise control over cleaning parameters.

4.1 Control Panel Overview

The control panel features digital displays for temperature and time, along with buttons for power, temperature adjustment, Degas mode, Gentle mode, and time adjustment.

- **Power Button:** Turns the unit on/off.
- **TEMP Button:** Activates/deactivates the heating function. Use the up/down arrows to adjust the target temperature.
- **DEGAS Button:** Activates the Degas mode.
- **GENTLE Button:** Activates the Gentle mode.
- **TIME Button:** Activates/deactivates the ultrasonic cleaning function. Use the up/down arrows to adjust the cleaning duration.

4.2 Basic Operation

1. **Prepare Items:** Place items to be cleaned into the cleaning basket. Ensure items are not touching each other or the bottom of the tank directly.
2. **Place Basket:** Carefully lower the basket with items into the cleaning solution.
3. **Power On:** Press the Power button to turn on the unit.
4. **Set Temperature (Optional):** If heating is desired, press the TEMP button and use the up/down arrows to set the target temperature (68°F to 176°F). The unit will begin heating. Allow time for the solution to reach the desired temperature.
5. **Degas the Solution (Recommended):** For optimal cleaning, especially with fresh solution, press the DEGAS button. This removes air bubbles from the solution, improving cavitation. Run Degas mode for 5-10 minutes.
6. **Set Cleaning Time:** Press the TIME button and use the up/down arrows to set the desired cleaning duration (1 to 99 minutes).
7. **Start Cleaning:** The ultrasonic cleaning will start automatically after setting the time. The timer will count down.
8. **Gentle Mode (Optional):** If cleaning delicate items, press the GENTLE button to reduce the ultrasonic intensity. This can be activated before or during a cleaning cycle.
9. **End of Cycle:** The unit will stop automatically when the timer reaches zero.
10. **Remove Items:** Unplug the unit. Carefully lift the basket out of the tank. Rinse cleaned items with clean water and dry them thoroughly.

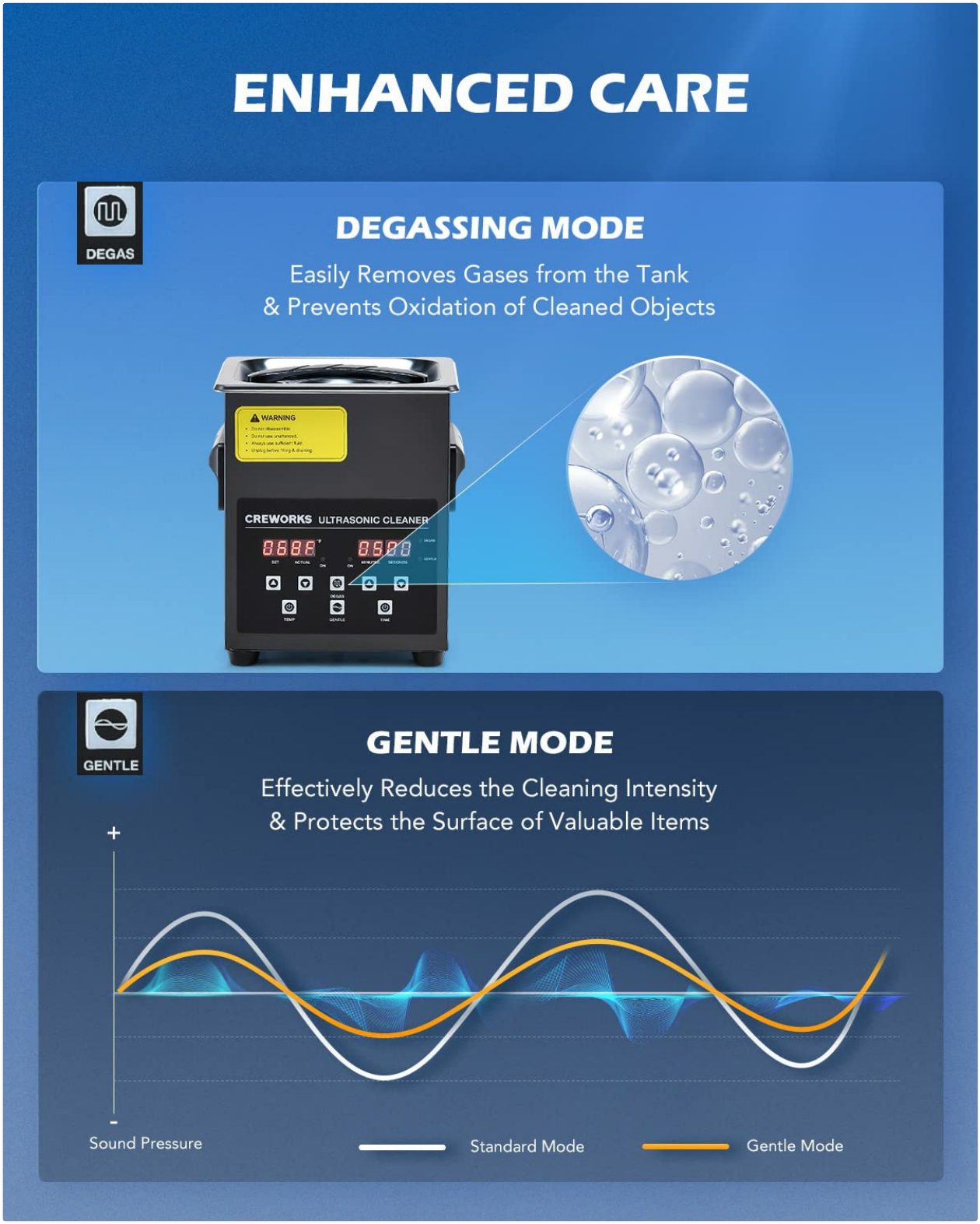


Figure 4: Visual explanation of Degassing Mode and Gentle Mode functionalities.

This image illustrates how Degassing Mode removes gases from the tank to prevent oxidation and enhance cleaning, and how Gentle Mode effectively reduces cleaning intensity to protect delicate items by modifying sound pressure waves.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your ultrasonic cleaner.

- **Draining:** Always unplug the unit before draining the cleaning solution. Use the drain valve (if present) or carefully pour out the solution.
- **Cleaning the Tank:** After each use, rinse the stainless steel tank with clean water. Wipe the interior and exterior with a soft cloth. Do not use abrasive cleaners or scrubbers.

- **Exterior Cleaning:** Wipe the exterior of the unit with a damp cloth. Avoid getting water into the control panel or electrical components.
- **Storage:** Store the unit in a cool, dry place with the lid slightly ajar to allow for air circulation.
- **Solution Replacement:** Replace cleaning solution regularly, especially if it becomes visibly dirty or its cleaning effectiveness diminishes.

6. Troubleshooting

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; Power cord not properly connected; Unit malfunction.	Check power outlet and cord connection. Ensure the power button is pressed. If problem persists, contact customer support.
No ultrasonic action (no buzzing sound or visible cavitation).	Timer not set or expired; Insufficient fluid in tank; Transducer malfunction.	Ensure cleaning time is set and active. Verify fluid level. If problem persists, contact customer support.
Heating function not working.	Heating element off; Temperature not set; Malfunction.	Ensure TEMP button is pressed and a target temperature is set. Allow time for heating. If problem persists, contact customer support.
Poor cleaning results.	Incorrect cleaning solution; Insufficient cleaning time; Solution needs degas; Overloaded tank.	Use appropriate cleaning solution. Increase cleaning time. Use Degas mode. Do not overload the tank.

For issues not listed above, or if troubleshooting steps do not resolve the problem, please contact CREWORKS customer support.

7. Specifications

Feature	Detail
Model Number	SX-DUCBK02US
Tank Volume	2 Liters (0.5 Gallons)
Ultrasonic Power	60W
Heating Power	200W
Temperature Range	68°F - 176°F (20°C - 80°C)
Timer Range	1 - 99 Minutes
Number of Transducers	1
Tank Material	304 Stainless Steel
Overall Dimensions (L x W x H)	6.9 x 6.3 x 8.3 inches
Tank Dimensions (L x W x H)	5.9 x 5.3 x 3.9 inches

Feature	Detail
Product Weight	5.82 Pounds

Figure 5: Detailed dimensions of the CREWORKS 2L Ultrasonic Cleaner and its internal basket.

This image provides a visual representation of the unit's overall dimensions, the internal tank dimensions, and the cleaning basket dimensions, aiding in understanding the product's physical specifications.

8. Warranty and Support

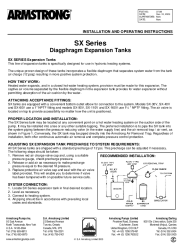
CREWORKS provides a **1-Year Promise** for this ultrasonic cleaner, ensuring quality and reliability. For any

questions, technical assistance, or warranty claims, please contact our **24/7 Customer Service**.

Please refer to your purchase documentation or the official CREWORKS website for specific contact information and detailed warranty terms.

Related Documents - SX-DUCBK02US

	[CREWORKS Digital Ultrasonic Cleaner User Manual] User manual for the CREWORKS Digital Ultrasonic Cleaner, detailing its operation, features, safety precautions, and troubleshooting.
	[Ultrasonic Cleaner User Manual - Operation, Safety, and Specifications] Comprehensive user manual for CREWORKS Ultrasonic Cleaners, covering operation, safety guidelines, product specifications, package contents, maintenance, and recommended cleaning settings. Includes model numbers TH-30A through TH-100A and related DUC series.
	[Sony SX-M700/SX-M100 Conference Systems: Features, Specifications, and Configurations] A comprehensive overview of Sony's SX-M700 Simultaneous Interpretation and SX-M100 Discussion-Type Conference Systems, detailing their features, operational benefits, system components, optional enhancements like voting and management software, peripheral equipment, and technical specifications.
	[Hydro-Force SX-15 Hard Surface Cleaning Tool User Manual and Specifications] Comprehensive guide to the Hydro-Force SX-15 hard surface cleaning tool, covering specifications, maintenance, operation, and parts. Learn how to effectively clean tile, concrete, and stone floors.
	[Amtrol Extrol Expansion Tanks Installation and Operation Instructions] Comprehensive installation and operation instructions for Amtrol Extrol expansion tanks, models EX-15 through EX-90 and SX-30V through SX-160V. Includes safety warnings, pre-installation checks, installation steps, maintenance guidelines, and warranty information.



ARMSTRONG

INSTALLATION AND OPERATING INSTRUCTIONS

SX Series
Diaphragm Expansion Tanks

SX SERIES Expansion Tanks
This line of expansion tanks is specifically designed for use in hydronic heating systems.

The unique pre-charged diaphragm is a flexible diaphragm that separates system water from the tank air cushion, resulting in more positive system protection.

HOW THEY WORK:
Proper system expansion and air control for water heating systems provision must be made for this expansion. The captive air charge separated by the flexible diaphragm in this expansion tank provides for water expansion without excessive pressure increase and without loss of water.

ATTACHING ACCEPTANCE FITTINGS:
All tanks are equipped with a connected tubing to ASE allows for connection to the system. Models SX 30 V, SX 40 V, SX 60 V, SX 80 V, SX 100 V, SX 120 V, SX 140 V, SX 200 V, SX 250 V, SX 300 V and SX 400 V are fitted with 3/4" NPT fitting. The air vent is included to help to provide accessibility not visible from the unit is preferred.

PROPER LOCATION AND INSTALLATION:
Install the tank in a vertical position with the connection fitting upward on a hot water heating system on the suction side of the pump. It may be installed the return or any other suitable fitting. The point most distant in a pipe line for SX tank and the pump is the best location. Connect the tank to the system piping as shown in the illustration on page 2 and detail sheet in Figure 1. Conversely, the SX tank may be piped directly into the Armstrong Air Fitting Tray. Regardless of which method is used, the tank must be supported by means of the bracket provided.

ADJUSTING SX EXPANSION TANK PRECHARGE TO SYSTEM REQUIREMENTS:
Before filling the system with water, the tank must be precharged with air to the system fill pressure plus 2 PSI(69kPa).

1. Remove the air charge valve cap and using a suitable pressure gauge, check precharge pressure.
2. Add or release air as required to obtain proper precharge pressure in the chamber (if system).
3. Replace valve cap and tighten finger tight with the air valve spring provided. This will enable you to determine if more precharge is required at a later time without service calls.

SYSTEM CONNECTION:
1. Locate SX Series expansion tank in final desired location.
2. Mount tank to bracket.
3. Connect to heating system.
4. Fill system with water in accordance with preceding local codes and procedures.

RECOMMENDED INSTALLATION:

[Armstrong SX Series Diaphragm Expansion Tanks: Installation and Operating Instructions]

Comprehensive guide to installing and operating Armstrong SX Series Diaphragm Expansion Tanks for hydronic heating systems. Covers product features, working principles, installation, and precharge adjustment.