



Superior Spa with Aqua-Aire

Safe Operation & Daily Maintenance Instructions



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Introduction

The Superior Spa with Aqua Aire is designed to significantly improve the efficiency and environmental safety of your nursing care operation. However, the benefits designed into the Sit-Bath System will be realized only if the system is operated and cared for properly. The purpose of this manual is to provide you with a recommended procedure to help you obtain the maximum efficiency and safety from your Sit-Bath System.

Symbols and Terms

WARNING

The warning symbol identifies important safety messages. Failure to obey a safety warning may result in injury to you or to others.

CAUTION

The caution heading identifies important maintenance and operation information. Failure to obey a caution warning may result in damage to the Sit-Bath equipment and may void the warranty.

Left or Right

When the terms “left” or “right” are used with reference to the tub, this means left or right as you look at the control panel from the seat end of the tub.

Tub Technical Description

The Superior Spa is an Aqua-Air (air bubbling) bathing system intended for use in nursing homes, hospitals, and assisted living facilities to bath residents under the direct supervision of trained staff. The tub is constructed mainly of gel-coated fiberglass laminate. The tub has an Aqua-Air system to agitate the water with air bubbles. The tub also has a dispensing system to dispense shampoo/body wash and bath oil, and a disinfecting system to aid in cleaning the tub. The tub has four locking access doors for service and storage dispensed liquids and disinfecting concentrate. A thermostatic mixing valve controls incoming water temperature. Digital temperature read-outs indicate all incoming and tub water temperatures. A hand shower sprayer is also provided.

Manufacturer: Penner Manufacturing Inc
102 Grant St / PO Box 503
Aurora, NE 68818
(402) 694-5003

Tub Models: Superior - 6300 Sit Bath
Model # 350010-1 (White with Aqua-Air)
Model # 350010-X (Color with Aqua-Air)
Model # 350010-1SB (White with Still Bath)
Model # 350010-XSB (Color with Still Bath)

Tub Ratings: 120 Volts AC
Aqua-Air: 13.3 Amps
60 Hz
1 Phase

Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.



MEDICAL EQUIPMENT
WITH RESPECT TO ELECTRIC SHOCK
FIRE AND MECHANICAL HAZARDS ONLY
IN ACCORDANCE WITH UL2601-1, AND
CAN/CSA C22.2 NO. 601.1

All temperature read-out values are accurate to +/- 2°F (per NSF C-2). The read-out range is -50/250°F. Resolution is 1°F.

An electrical circuit diagram can be found on the inside of the lid of the electrical box located inside the larger service access door on the left side of the tub.

Service parts and technical information are available by contacting your distributor or by calling one of the telephone numbers located on the front or back cover of this manual.

Environmental conditions for transport and storage for up to 15 weeks (as packaged from the manufacturer) are as follows:

Temperature range	50° F (10° C) to 250° F (121° C)
Relative Humidity	10% to 90%
Atmospheric Pressure	7.5 PSI to 15.5 PSI

Basic Components

The Superior Spa with Aqua Aire is composed of the following components:

- Superior Tub
- Penner Transfer

Transfer Technical Description

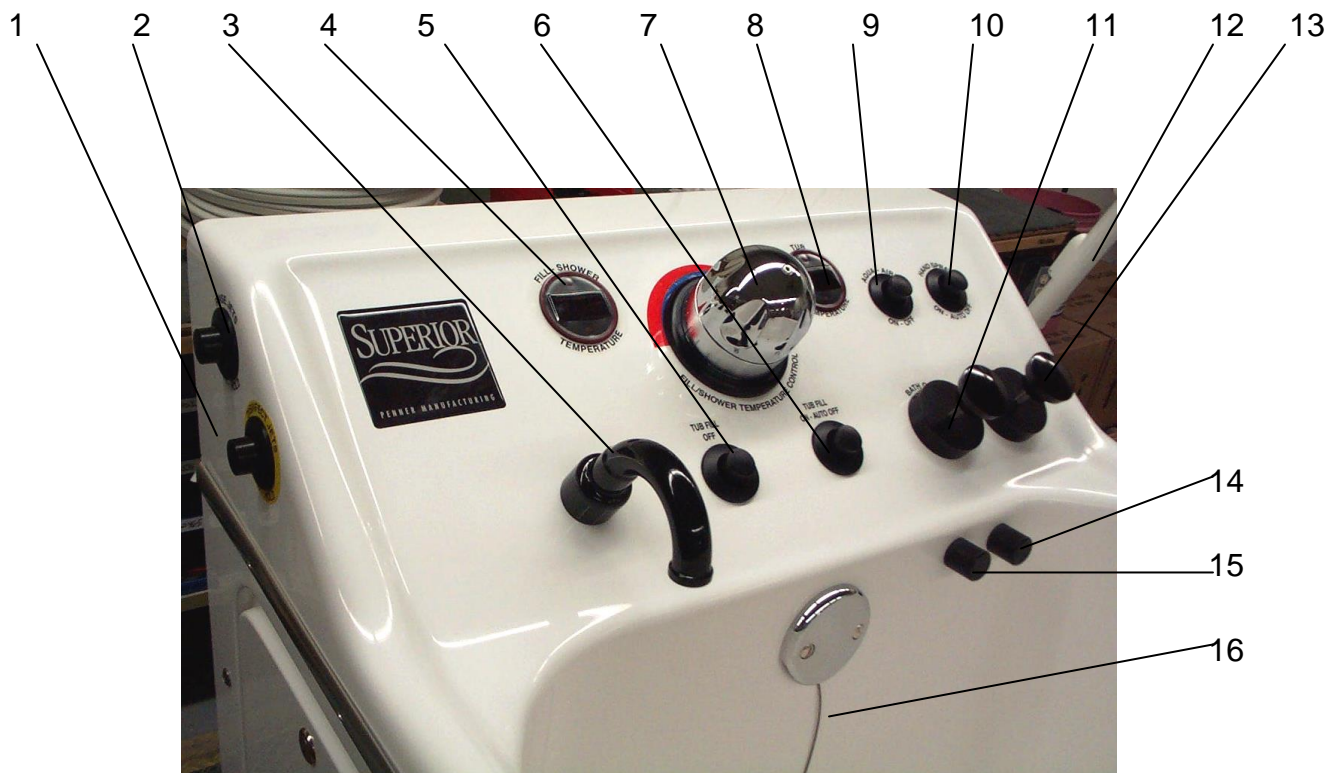
The Superior Transfer/Lift System is used with Aqua-Aire (air bubbling) bathing system intended for use in nursing homes, hospitals, and assisted living facilities to transfer or lift patients under the direct supervision of trained staff. The Transfer has two locking casters on the rear (or end with pillar). Models are equipped with Scale. All Transfers have Swing-away and removable arms. All have a removable open concept seat pad that locks into position during use. Refer to the applicable Transfer Safe Operation and Daily Maintenance manual.

Superior Transfer Models:

Model # 384000-1	Transfer Electric Superior Right entry
Model # 385000-1	Transfer Electric Superior Left entry
Model # 386000-1	Transfer Electric Superior End entry
Model # 387000-1	Transfer Electric Superior Right entry with Scale
Model # 388000-1	Transfer Electric Superior Left entry with Scale
Model # 389000-1	Transfer Electric Superior End entry with Scale

Superior Tub

The Superior Tub is a specialized tub with built-in air jets, designed to help bathe your patients automatically. The tub has a built-in control panel, which provides controls for all the functions of the tub, as shown below.



1. Disinfect Button
2. Rinse Button (On tubs with Aqua-Air only)
3. Filling Spout
4. Fill / Shower Water-Temperature Readout
5. Tub Fill OFF Button
6. Tub Fill ON button (The unit has an adjustable time automatic shut-off.)
7. Temperature Control Knob
8. Tub Water-Temperature Readout
9. Aqua-Air ON / OFF Button
10. Shower ON / Auto OFF Button (The unit has an adjustable time automatic shut-off.)
11. Bath Oil Pump Plunger
12. Hand-Held Shower Sprayer
13. Shampoo Pump Plunger
14. Shampoo Dispensing Spout
15. Bath Oil Dispensing Spout
16. Drain Plug Cable

System Preparation (Before Bath)

⚠ WARNING

Only personnel who have been thoroughly trained in the operation of the Superior Sit-Bath System 6300 should operate this equipment. Operation of this equipment by untrained personnel could result in injury to the operator or patient. Your Penner Patient Care distributor is available at your request to provide complete in-service training on the equipment's proper operation.

Prior to the bath, perform the following preparation steps:

Note. Check the level of bath oil, shampoo, and disinfectant concentrate in the supply bottles daily to ensure that adequate amounts are available for the day's bathing requirements. These bottles are located behind the small access door on the right side of the tub. Replace a bottle before it runs out to avoid re-priming the system.

1. Place the drain plug in the drain.
2. Press the Tub Fill Button #6 to begin filling the tub.



3. Monitor the water temperature by watching the Fill / Shower Water-Temperature Readout. Adjust the water temperature by turning the Temperature Control Knob #7 to a normal bathing temperature, 95 to 105 degrees Fahrenheit.

 WARNING

In addition to monitoring the temperature readout, always check the water temperature by allowing it to run over your wrist. Failure to do this could result in a hot-water burn to the resident.

4. Fill the tub to approximately 5 inches below the overflow plate. This will normally result in the water rising to an appropriate level as the resident is lowered into the bath.
5. When filled, press the “TUB FILL – OFF” button (#5) to stop the water flow.

Note: The tub is equipped with a fill timer that can be set to stop the water flow after a specified time period. (This time setting should only be adjusted by maintenance personnel referencing the instructions in the Spare Parts Manual.) If water flow stops before the tub is filled to the desired level, simply press the “TUB FILL - ON-AUTO-OFF” button (#6). This re-starts the timer.

6. Make sure you have your entire bathing aids ready such as a washcloth and towels.

 WARNING

The tub should be filled prior to placing the patient in the tub with the Tub Water-Temperature Readout registering between 95 and 105 degrees Fahrenheit. Additionally, the water temperature should be hand-tested before placing the resident in the tub. The tub should never be filled while a patient is in it. Failure to take these precautions could result in a burn injury to the patient.

 WARNING

Before placing the resident in the tub, make sure that the seat bottom will clear the tub rim by at least two inches. Failure to follow this precaution could result in an injury to the resident.

7. Gently pull the resident towards the tub. Carefully lift the resident's legs over the side of the tub and position the resident to face the service deck of the tub. Press the down button to lower the resident into the water. Gently guide the patient's legs into the foot well at the bottom of the tub.

Bathing Procedure

You are now ready to begin washing the resident. The suggested bathing time is 5 to 10 minutes. Bathing a patient more than 10 minutes is not required.

To bathe the resident, use the following procedures:

1. Start the Aqua-Air by pressing the Aqua-Aire on/off Button #9.



2. Push the Bath Oil Pump Plunger #11 to add Penner's Bath Oil to the water. The amount of bath oil will vary according to the resident's skin condition. (One push of the Bath oil pump plunger will dispense approximately 1 oz of bath oil.)

Note. Penner Bath Oil is non-aqueous, liquid bathing oil containing refined lanolin similar to natural skin oil. When combined with water, Penner Bath Oil can penetrate the skin. This combination of water and oil restores moisture to the patient's skin and benefits the nursing attendant, whose hands are frequently in water as well. Additionally, the use of Penner Shampoo & Body Wash eliminates the risk of cross-contamination, which can result from sharing a single bar of soap. Penner Shampoo & Body Wash works with the bubble aeration of the system to clean and condition the skin.

⚠ WARNING

In the following bathing instructions you are required to rinse the resident with the shower sprayer. Before doing so each time, make sure the temperature is between 95 and 105 degrees Fahrenheit by viewing the temperature readout. As a further precaution, always test the water on the inside of your wrist before turning the shower sprayer toward the resident. Failure to follow the precautions in this warning could result in a burn injury to the operator or the resident.

3. Bathe the resident's upper body as follows:

- a) Push the Bath Shampoo & Body Wash Pump Plunger #13 and dispense (from shampoo dispensing spout #14) into your hand or into a washcloth. Then apply the Penner Shampoo & Body Wash directly to the resident's body.



- b) Begin gently washing the resident's upper body. Pay special attention to folds or creases in the skin and under the arms. If the scalp is flaky, apply a small amount of Penner Bath Oil to the problem area and let it soak in until time for shampoo.

4. Rinse the upper body with the shower sprayer as follows.
 - a) Pick up the Hand-Held Shower Sprayer #12 located on the right side of the control panel.
 - b) Press the Shower Button #10 to activate the Shower Sprayer.



Note. Once the shower sprayer is activated, it will stay activated for a period of time and then automatically shut off. This time period (up to 10 minutes) is adjustable by maintenance personnel only.

- c) While pointing the sprayer into the tub, **not onto the resident**, press the shower sprayer trigger.
 - d) Adjust the water temperature by turning the Temperature Control Knob #6 to the normal bathing range of 95 to 105 degrees Fahrenheit as shown below. Monitor the temperature by viewing the Fill/Shower Temperature Readout #4. As a further precaution, always test the water on the inside of your wrist before turning the sprayer toward the resident.
 - e) Repeat the washing and rinsing steps for the upper body a second time.
5. Bathe the resident's perineal area as follows:

- a) Lift the resident's right leg and let the Aqua-Air bubbling action wash the perineal area. This technique protects the resident's dignity and removes any residual waste or fecal matter.

Or, for extremely obese residents, you may wish to use the following procedure:

- a) Raise the seat to just above the water line and wash the area gently with a washcloth.
 - b) Lower the resident back into the water.
 - c) Lift the resident's right leg and turn the perineal area toward the action of the Aqua-Air bubbles, rinse the area.
6. The resident's feet will be cleaned by the Aqua-Air bubbling action at the bottom of the tub. For extremely soiled feet, use the following procedure:
- a) Adjust the seat until the resident's feet are in the action of the jets
 - b) Hold the feet in the jet action for 30 to 60 seconds.

7. To shampoo the resident's hair, use the following procedure:



- a) Wet the resident's hair with the shower sprayer.
- b) Push the Shampoo Pump Plunger #13 and apply a small amount of Penner Shampoo to the wet hair.

Note. Penner Shampoo & Body Wash is a special formula with lanolin for use with residents who have dry scalp and/or skin conditions. Penner Shampoo special conditioning formula assures that all residues will be removed quickly and easily, leaving hair clean, conditioned, and shining.

- c) Massage the resident's head to create a lather. Continue the massage to fully clean the hair and scalp.
- d) Rinse with the shower sprayer.
- e) Shampoo and rinse a second time if required.

System Cleaning (After Every Bath)

Clean and disinfect the tub after every bath with Penner Cleaner/Disinfectant as follows:

Note. Penner Cleaner/Disinfectant is a special non-abrasive cleaning and disinfecting solution that will not harm the tub's fiberglass surface. Penner Cleaner/Disinfectant is the only cleaning solution designed and recommended for use with your Superior Tub.

CAUTION

Some cleaners, disinfectants, and floor strippers contain ingredients that are corrosive or abrasive. These solutions or compounds may contain chlorine, acid, basic ingredients or abrasives. DO NOT allow such solutions or compounds to come in contact with your Penner equipment. Failure to heed this caution could result in damage to the equipment and void the warranty.

1. Drain the water from the tub.
2. Press the Shower Button and rinse the inside surfaces with the shower sprayer.

3. Close the drain.
4. **Press and hold** the Disinfect Button #1 located on the left side of the tub. As the button is held down, the properly mixed cleaning solution is running through the air injection system and out all of the air jets. Release the button after you see solution coming out of all the air jets and you have 1 to 1 1/2 gallons of disinfectant solution in the foot well of the tub



 WARNING

Housekeeping personnel should wear protective glasses and gloves to prevent disinfectant from damaging their eyes or skin. If disinfectant gets on the skin or in the eyes, rinse thoroughly with plenty of water. Seek medical advice if irritation occurs.

5. Use a long-handled brush (available from your Penner distributor) to thoroughly scrub all interior surfaces of the tub with the solution that remains in the foot well of the tub.
6. Disinfect the Penner Transfer by positioning it over the tub. Use the brush to scrub its surfaces with the remaining solution. Allow for proper disinfectant contact time (Usually 10 minutes or as recommended by the disinfectant's manufacturer) and rinse the seat. Replace the seat on the Penner Transfer.
7. Remove the plug from the drain.
8. Rinse the tub's interior surfaces thoroughly with the shower sprayer.

9. Spray water from the shower sprayer to rinse out most of the disinfecting solution. Then press and hold the rinse button (#2) until you see clear water (not soapy) coming out of the air jets. Release the rinse button.
10. Finish rinsing the interior surfaces of the tub with the shower sprayer.
11. Start the air blower by pushing the Aqua-Air Button #7. Allow it to run for 30 seconds. This pushes the rinse water out of the air injection system. If this was the last bath of the day, allow the blower to run for 2 minutes to dry out the system.
12. Stop the air blower by again pushing the Aqua-Air button #7.

Daily Maintenance

To properly maintain the Superior Spa System, perform the following daily maintenance procedures.

1. Check that there is an adequate supply of system liquids such as shampoo, bath oil, and disinfectant concentrate in the supply bottles located behind the small access door on the right hand side on Aqua-Air tubs. Replace the bottles before they are empty to avoid re-priming the system. Be sure each bottle label matches the label found on the hose to which the bottle is attached.

WARNING

While replacing system liquids, housekeeping personnel should wear protective glasses and gloves to prevent disinfectant concentrate from damaging their eyes or skin. If disinfectant gets on the skin or in the eyes, rinse thoroughly with plenty of water. Seek medical advice if irritation occurs.

2. Perform the Daily Safety Checklist described in the following section before using the system.

 **WARNING**

Failure to perform the daily safety checks and take corrective action, when required, prior to the operation of the equipment each day could result in injury to the resident or operator.

 **WARNING**

If any part of the system is not functioning properly, cease all bathing activities until the problem is corrected by maintenance. The system must be maintained on a scheduled basis to ensure it is functioning properly. Failure to heed these precautions could result in injury to the operator or resident.

Daily Safety Checklist

CHECK THE FOLLOWING ITEMS EACH DAY BEFORE USING YOUR SUPERIOR SIT-BATH SYSTEM.

Superior Tub

Perform the following safety checks for the Superior Tub:

1. High temperature limit – Press the Fill Button and turn the Temperature Control Knob all the way to the left to the highest setting. Test the fill and shower water temperature to ensure that it reaches no more than 115 degrees Fahrenheit (lower if required by local regulations).
2. Temperature Read-Out Accuracy – Press the Fill Button and adjust the temperature of the water to the normal bathing range of 95 to 105 degrees Fahrenheit. Test the temperature of the water with a thermometer and by letting the water flow over your wrist. The water temperature should be consistent with the thermometer reading and should not feel too hot or too cold.

Penner Transfer

Perform the following safety checks for the Penner Transfer:

1. Seat Belt – Check the condition of the seat belt(s) for signs of excessive wear. Also, check the fastening hardware and “D” rings to insure these parts are secure and not missing.

 WARNING

If during the safety checks you find parts are missing, are excessively worn, do not function properly, do not operate the equipment until the maintenance department has taken the appropriate corrective action.

Your Penner Distributor and his personnel are trained to provide in-service instruction and maintenance on your Superior Spa. If you have any questions about the operation or maintenance of your Sit-Bath System, please contact your Penner Distributor.

For your nearest distributor, contact:

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