

Operation Video



Cascade™ Wide Tub W/Swivel Lift Bathing Systems with Aqua-Aire®

Safe Operation & Daily Maintenance Instructions Manual



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Introduction

The Cascade™ Wide Tub with Swivel Lift is designed to improve the efficiency and environmental safety of your nursing care operation. However, the benefits designed into the Cascade™ Wide Tub with Swivel Lift 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

Technical Description

The Cascade™ Wide Tub with Swivel Lift is an “Aqua-Aire®” bathing system intended for use in nursing homes, hospitals, and assisted living facilities to bath residents under the direct supervision of trained staff. There is an optional reservoir system that allows the tub to be filled quickly. Both items are mainly constructed of gel-coated fiberglass laminate on a steel frame. The tub has an Aqua-Aire® system for bubbling the water with air. It 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 a locking door on one side for access to the tub by the resident. 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. This Tub also has a built in Swivel Lift for safe and easy access of the resident in and out of the tub with swing-away - removable arms. The Swivel Lift has an optional scale built into it.

Model Numbers, Ratings, and Regulatory Information

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

Models: Cascade™ - with Swivel Lift

Model 360010-1WT (Aqua-Aire® - Low Wide - Right Hand - White- With Swivel Lift)
Model 360010-XWT (Aqua-Aire® - Low Wide - Right Hand - Color- With Swivel Lift)
Model 360010-1WTL (Aqua-Aire® - Low Wide - Left Hand - White- With Swivel Lift)
Model 360010-XWTL (Aqua-Aire® - Low Wide - Left Hand - Color- With Swivel Lift)

Models: Cascade™ Reservoir

Model 370000-1W (White Wide Right Hand) Model 370000-1WL (White Wide Left Hand)
Model 370000-XW (Color Wide Right Hand) Model 370000-XWL (Color Wide Left Hand)

Aqua-Aire® Ratings:	120 Volts AC	Reservoir Ratings:	120 Volts AC
With Swivel Lift	12.0 Amps (includes reservoir's .75 amps)		60 Hz
	60 Hz		1 Phase
	1 Phase		
	400 Lbs. Maximum Capacity		
	Duty: 10% Int.; 1 min on / 9 min off		
	15 1/2 inches Minimum clearance from floor		
	30 3/4" inches Maximum clearance from floor		
UL Classification:	Class I; Type B; Ordinary EQUIPMENT		

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 -40/199°F. The resolution is 1°.

An electrical circuit diagram can be found on the inside of the lid of the electrical box located inside the larger service access door 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	-40° F (-40° C) to 120° F (49° C)
Relative Humidity	10% to 90%
Atmospheric Pressure	7.5 PSI to 15.5 PSI

Safety Information



Penner Transfer Lifts are designed and manufactured to meet or exceed the safety requirements for patient care equipment. In addition, they have been tested to insure their safety. It is important, however to know that materials can fail due to normal wear caused by use over time. Therefore before each patient transfer, it is required that the nursing staff inspect for proper operation and missing or worn parts such as belts. It is also required that a qualified maintenance staff inspect the lift at least monthly for missing parts or excessive wear that might cause the transfer lift to fail. A permanent record of each inspection and repairs should be kept by the facility.



Only personnel who have been thoroughly trained in the operation of the Penner Transfer Lift System 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.

Patient Assessment for the Cascade™ Swivel Lift

Before using the Cascade™ Wide Tub with Swivel Lift, patients must be assessed by the facility's professional nursing or professional rehabilitation staff to determine which patients are suitable for using the Cascade™ Wide Tub with Swivel Lift, and the number of staff members necessary to transfer each patient. Although one person can perform this procedure, certain patients or situations may require the help of one or more additional staff members. For example, patients with unpredictable behavior due to dementia may require additional help if their behavior poses risk of injury to themselves, staff members, or patients being lifted and bathed in the Cascade™ Wide Tub with Swivel Lift.

Cascade™ Swivel Lift Patient Criteria

The Patient Must:

- a. Have no injuries or medical conditions that might be aggravated by the Swivel Lift procedure.
- b. Weigh less than 400 pounds.
- c. Be able to follow simple directions.
- d. Be able to sit upright or restrained by the Chest Belt.
- e. Evaluated for safety of extremities that are rigid, or any other problem the patient has that could cause injury or conflict with the safe operation of the Cascade™ Wide Tub with Swivel Lift.

Basic Components

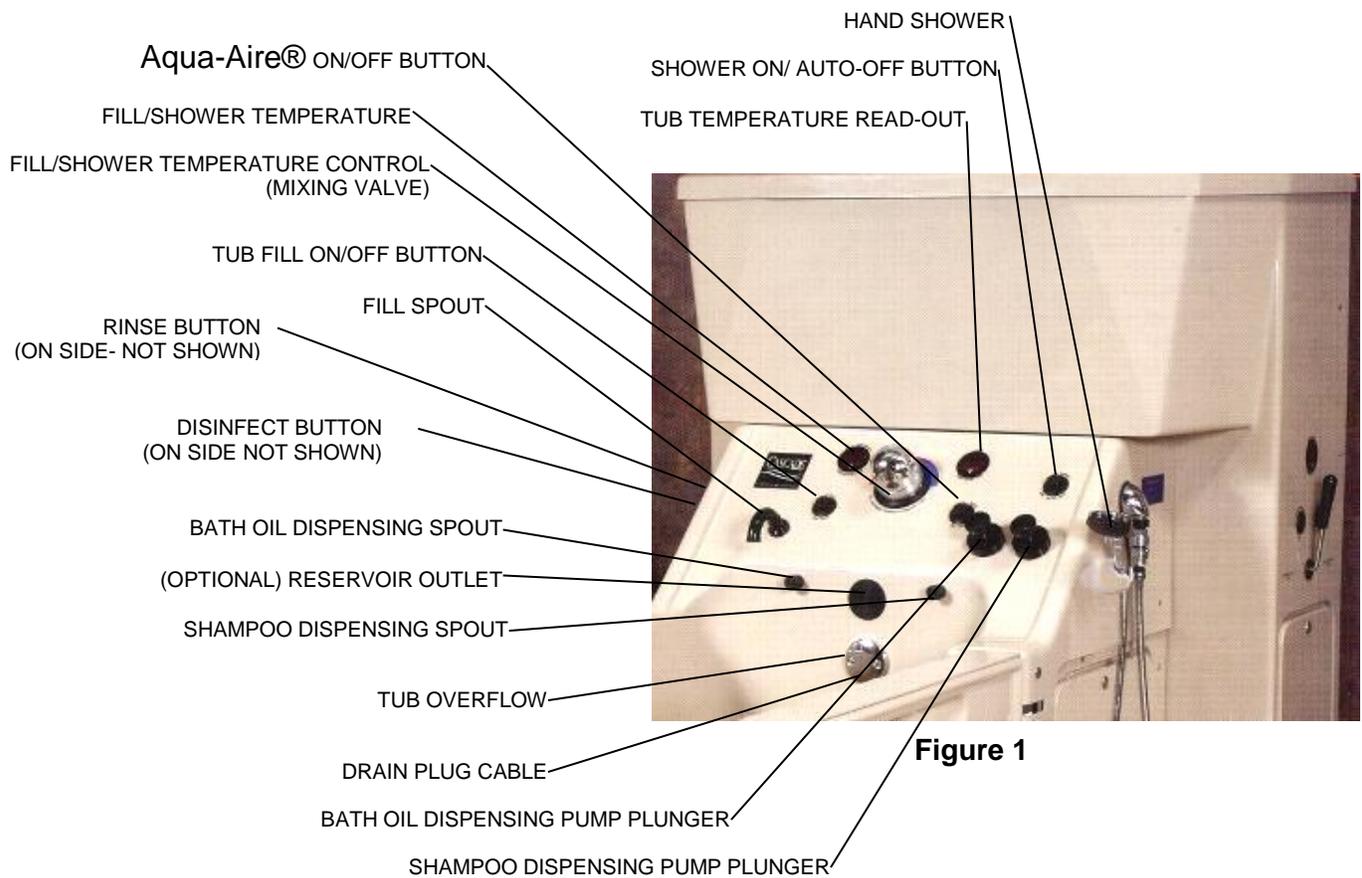
The Cascade™ Wide Tub with Swivel Lift is composed of the following components:

- Cascade™ Tub
- Cascade™ Door
- Cascade™ Reservoir (optional)
- Cascade™ Swivel Lift no Scale
- Cascade™ Swivel Lift with Scale

The remainder of this section describes the components and their relationship to each other.

Cascade™ Tub

The Aqua-Aire® Cascade™ tub is a specialized tub with built-in air jets. It has been 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, see Figure 1.



Cascade™ Door

The Cascade™ Door see Figure 2, is a specially designed reinforced door with locking lever to open and close the door.

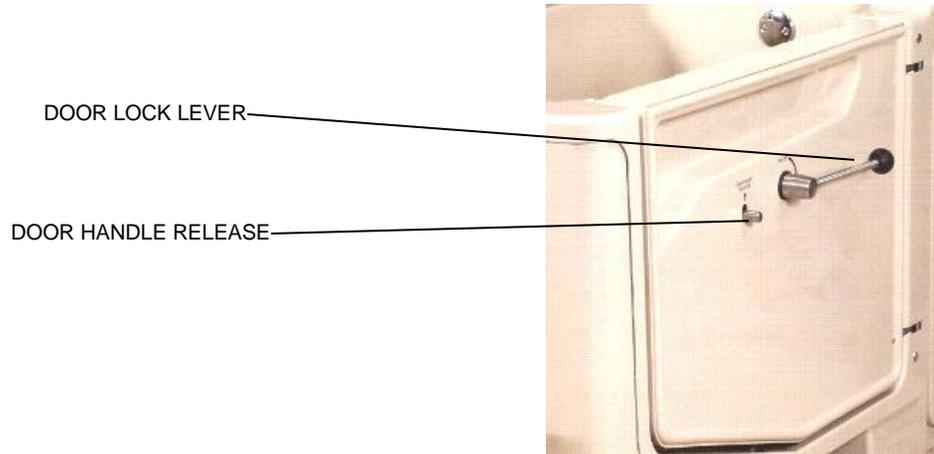


Figure 2

Locking the Cascade™ Door

1. With lever in the upright position, close the door tight against the tub.
2. When the door is against the tub, push the lever over to the right so the lever is the LOCK position. (Label at base of lever indicates “UNLOCK” or “LOCK” positions)
3. The door is now locked in place.
4. **Note:** To extend the life of the Water Door Seal, leave the door open when not in use.

Unlocking the Cascade™ Door



WARNING

DO NOT UNLOCK THE WATER DOOR WHILE THERE IS ANY WATER IN THE TUB. FAILURE TO HEED THIS WARNING MAY RESULT IN INJURY TO A RESIDENT AND OR OPERATOR.

1. To unlock, first pull up on the door handle release (**Figure 2**), and hold it.
2. Then move the lever to the “unlock” position.
3. The door is now unlocked and able to be opened.

Cascade™ Reservoir

The optional Cascade™ Reservoir see Figure 3, is a specially designed water holding tank that you fill with water first, and then once the resident has been transferred into the tub you release the water into the tub. By filling the reservoir first, it allows you to fill the tub in 70 seconds or less and keeps the time the resident is unclothed and out of water to a minimum.



RESERVOIR TEMPERATURE READ-OUT

RESERVOIR FILL ON BUTTON

RESERVOIR FILL OFF BUTTON
(NOT SHOWING)

RESERVOIR RELEASE VALVE HANDLE

Figure 3

System Preparation (Before Bath)

⚠ WARNING

Only personnel who have been thoroughly trained in the operation of the Cascade™ Wide Tub with Swivel Lift 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.

Before Starting to transfer the patient into the bath, prepare and fill the Reservoir (if applicable) of your Cascade™ Bathing System by following the instructions on page 15 of this manual.

Prior to the bath, make sure you have all bathing aids ready such as a washcloth and towels.

Note: Check the level of Penner Bath Oil, Penner Shampoo, and Penner 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 left side of the tub. Replace a bottle before it runs out to avoid re-priming the system.

You are now ready to bring the Resident to the bathing area with your Patient Transfer or Wheel Chair.

Preparation to Transfer into Bath

1. Make sure bathing area is clear of all unneeded equipment. Open the water door to its widest position.
2. Rotate or swing the Swivel Lift chair out of the tub all the way. By pushing the **(DOWN)** button see **Figure 4**, located outside of the tub near the water door entrance shown at the right, lower the Lift Chair all the way.
3. The arm rests of the Penner Swivel Lift chair can swing upwards and back, or be removed to provide a variety of options in providing care.



Figure 4

4. Once the resident has been brought to the bathing area, place the resident near the Swivel Lift and position him or her for a normal wheel chair- to-chair transfer. Insure the floor near the entry of the Cascade™ has a non-slip surface to prevent the resident from slipping. Dry any damp or wet areas on floor.
5. Lock the brakes of your transport equipment before transferring the resident into the Swivel Lift of the tub.

WARNING

Failure to insure the floor, near the entry of the Cascade™, has a non- slip surface, could result in injury to the operator or patient. Dry any damp or wet areas on floor.

WARNING

Failure to lock the caster brakes of your transfer equipment before the resident is transferred, could result in injury to the operator or patient.

Belting Technique of Transfer Procedure with the Penner Swivel Lift

All residents must always be securely belted at the waist when using the Penner Swivel Lift system.

For residents who are unable to support themselves in an upright position, Penner supplies a second (chest) belt which allows you to secure the resident in an upright position as shown in Figure 5.

1. Route the belt(s) through the slots of the chair as shown in Figure 5 prior to placing the resident into the chair. If a chest belt is needed for the resident, you have the choice of the upper or lower chest belt slots.
2. Ensure that the belt is routed through the loose buckle end as shown in Figure 6. If routed the opposite way, the belt will slip.
3. Transfer the resident into the Penner Swivel Lift using proper nursing transfer techniques. Bring the seat belt around the resident, to the D-ring connector.
4. Connect the belt to the D-ring as shown at the right.
 - a) Use the technique as shown at the right.



Figure 5

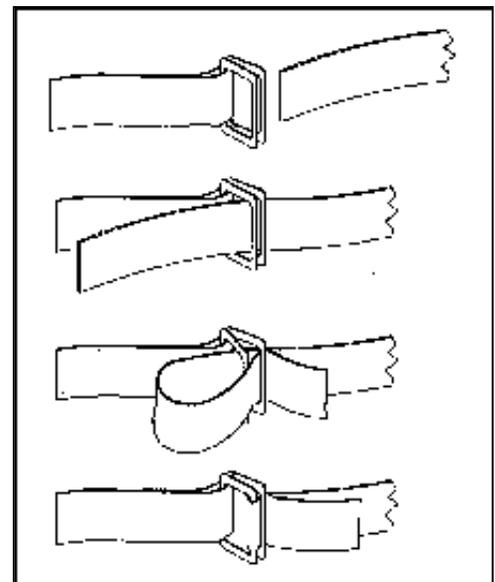


Figure 6



WARNING

Failure to secure the resident properly with the seat belt and chest belt could result in injury to the resident or operator.

Weighing Procedure



Figure 7

1. Before seating the resident in the chair, ensure all belts are on the chair and the patient is properly secured.
2. Press the “ON / ZERO” button once to turn on. Press again to zero.
3. The scale weighs in increments of $\frac{1}{2}$ Lb. accuracy +/- 1 Lb.
4. The indicator should show “0”. This should only need to be done once a day or when seat empty indicates anything other than zero.
5. If indicator reads anything other than zero, start over and zero again. If it does not read “0” the scale may need to be recalibrated. Note: Negative weights are indicated by the weight flashing on and off.
6. Pressing the Penner Patient Care Logo or the recall button, recalls the last weight which was “Held”.
7. Press the “Lb./Kg.” button and hold to convert to Lb. or Kg.
8. Once the patient is in the seat, ensure that the arms, legs, or feet are not touching anything. This would give an inaccurate reading.
9. After the resident is stabilized the scale indicates “HOLD”, a reading of the weight may now be taken.
10. The battery for the Scale read out is located in the bottom of the read out. There are four AA batteries.

Transfer into Bath



WARNING

Failure to insure hands, arms and legs are clear of any objects when transporting or lifting could result in injury to the resident or operator. Release the Up or Down button located by the water door to stop the lift at any time during raising and lowering of the resident.

1. Once the resident is belted securely into the Swivel Lift, completely raise or extend the Lift by pushing the (UP) button located by the water door (see Figure 4). **To stop the lift at any time during raising and lowering of the resident, release the Up or Down button located by the water door.**
2. Keep hands, arms and legs clear of any objects while transporting or lifting the resident.
3. Carefully rotate or swing the chair and resident into the tub.
4. Use acceptable nursing techniques if the resident needs help with his or her feet or legs getting into or out of the bath.
5. Lower the chair to its lowest position inside the tub.
6. Close the door and lock in place. Ensure that the belt does not get caught in the door when it is closed.

CAUTION

Failure to keep the belt from getting pinched in the door can result in damage to the tub seal.

The tub is now sealed and you are ready to fill the tub with water.

Bathing Procedure Without Reservoir

1. Place the drain plug in the drain.
2. Press the Tub Fill Button to begin filling the tub (see **Figure 1**).

3. Monitor the water temperature by watching the Fill /Shower Water Temperature Readout (see **Figure 1**) and check the water temperature by allowing it to run over your wrist. **Adjust the water temperature by turning the Temperature Control Knob to a normal bathing temperature, 95 to 105 degrees Fahrenheit.**



WARNING

Failure to monitor the temperature readout and check the water temperature by allowing it to run over your wrist, could result in a hot-water burn to the resident or the operator Do not touch water over 110°.

4. When filled, press the Fill Button (see **Figure 1**) again to stop the water flow.

Using Cascade™ Tub with Reservoir

See Figure 3 for locations of the controls listed in this section.

1. Press the reservoir fill ON button to begin filling the reservoir.
2. Monitor the reservoir water temperature by watching the temperature readout located on the reservoir. **To adjust the temperature of water flowing into the reservoir, turn the mixing valve handle (see **Figure 1**) to a normal bathing temperature, 95-105 degrees Fahrenheit as shown on the fill/shower temperature read-out (see **Figure 1**).**
3. The reservoir can hold up to 48 gallons of water and can be stopped at anytime during the filling process if you desire. To stop the filling of the reservoir, simply push the reservoir fill OFF button located on the reservoir.
4. If you do not stop the filling of the reservoir by using the reservoir fill OFF button, the filling of the reservoir will stop filling AUTOMATICALLY once it is full.

5. The reservoir is now full and the water ready to be checked for safety. To make **sure** the temperature of the water in the reservoir is suitable for bathing, first close and lock the tub door, then open the reservoir release valve slightly to release some water from the reservoir and manually check the water temperature by letting the water run over you wrist. Close the reservoir release valve if the temperature is suitable and continue preparing your resident for his or her bath. If water is too hot or too cold, open the reservoir release valve and let the water run out of the reservoir into the empty tub and start over at step number one, above.



WARNING

FAILURE TO MANUALLY CHECK THE WATER TEMPERATURE BEFORE PUTTING A RESIDENT IN THE TUB MAY RESULT IN BURN INJURIES TO THE RESIDENT AND/OR OPERATOR.

6. Unlock and open the door.
7. Place drain plug in the drain.
8. Once the resident is secured with the safety belts, transfer the resident into the Cascade™ Swivel Lift Bathing system and close and lock the door. Refer to instructions on **pages 10, 11 and 12** for proper transfers into Cascade™ Swivel Lift Bathing system.
9. Once the resident is securely in Cascade™ Tub, and all the above steps have been followed, and the water in the reservoir is suitable for bathing, you are ready to release the water from the reservoir, and give a bath.
10. Open the reservoir release valve on the reservoir to release the water, checking again for the second time with your wrist to make sure the water is not too hot or not too cold. If the temperature is suitable for bathing (95 to 105 degrees Fahrenheit) continue to let the reservoir empty.
11. If the temperature is not correct after double- checking, remove the resident from the Cascade™ Tub and empty the reservoir into the vacant tub. Fill reservoir again with the correct temperature of water. **Repeat steps 7 and 8.**

Note: A unique feature of the Cascade™ Tub is that you are able to fill the tub with the water from the reservoir and fill with the spigot at the same time. This cuts down your filling time and limits the time your resident sits in the tub unclothed.

12. In order to fill the tub with the water from the reservoir and fill with the spigot at the same time after transferring your resident into the Cascade™ Swivel Lift Bathing system, close and locked the door, and put the drain plug in the drain, open the reservoir release valve.
13. Once the reservoir release valve has been opened, push the Tub Fill button located on the Cascade™ Control Panel (**Figure 1**), and adjust the water temperature by turning the Temperature Control knob (**Figure 1**) to normal bathing temperature, 95 to 105 degrees Fahrenheit.
14. When desired level of water is achieved, push Tub Fill button again to shut water off coming from the spigot.

Bathing Procedure

You are now ready to begin washing the resident. The suggested bathing time is 5 to 10 minutes.

To bathe the resident, use the following procedures:

See Figure 1 for the location of the controls listed in this section.

1. **On Aqua-Aire®** Start the air blower by pressing the Aqua-Aire® ON/OFF button (**Figure 1**).
2. Push the Bath Oil Dispensing Pump Plunger (**Figure 1**) to add Penner Bath Oil to the water. The amount of Penner Bath Oil will vary according to the resident's skin condition.

Note: Penner Bath Oil is a 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. Additionally, the use of Penner Shampoo & Body Wash reduces the risk of cross-contamination which can result from sharing a single bar of soap.



WARNING

In the following bathing instructions you are required to rinse the resident with the shower sprayer (Figure 1). Before doing so each time, make sure the temperature is between 95 and 105 degrees Fahrenheit by viewing the temperature readout (Figure 1). 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 could result in a burn injury to the operator or the resident.

3. Bathe the resident's body as follows:

- a) Position one hand or hand with washcloth under the Shampoo dispensing spout and push the Shampoo Dispensing Pump Plunger (Figure 1) to dispense Penner Body Wash and Shampoo. Apply it directly to the resident's body.
- b) Begin gently washing the resident's 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 body with the shower sprayer as follows.

- c) Pick up the Hand-Held Shower Sprayer (Figure 1) located off to the side of the control panel.
- d) Press the Shower Button (Figure 1) 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. The shower can be re-activated at any time by pressing the shower button.

- e) Adjust the water temperature by turning the Temperature Control Knob to the normal bathing range of 95 to 105 degrees Fahrenheit as shown below. Monitor the temperature by viewing the Fill/Shower Temperature Readout.
 - f) While pointing the sprayer into the tub, **not onto the resident**, press the Shower Trigger, located on the sprayer. **As a further precaution, always test the water on the inside of your wrist before turning the sprayer toward the resident.**
 - g) Repeat the washing and rinsing steps for the body a second time.
5. 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 (**Figure 1**) and apply a small amount of Penner Body Wash and Shampoo to the wet hair.

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

- c) Massage the resident's head to create 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.

Transferring Out Of Cascade™ Swivel Lift Bathing System

After the bath has been given, you are now ready to transfer the resident out of the tub.

1. **Drain the tub** by pulling the drain plug (**Figure 1**) from the drain. Allow the tub to be drained completely.



WARNING

Failure to have the tub completely drained before unlocking the door could cause injury to the operator and resident.

2. Unlock door by pulling up on the door handle release, and pulling up on the lever at the same time.
3. Open door to widest position.
4. Dry off resident.
5. Raise the Swivel lift completely.
6. Rotate or Swing resident completely out of the tub
7. Lower the Swivel Lift completely.
8. Insure the floor has a non-slip surface before removing the resident from the Cascade™ bathing system and that the floor is not wet.



WARNING

Failure to insure the floor, near the entry of the Cascade™ Bathing System, has a non-slip surface could result in injury to the operator or patient.

9. With resident secure, remove the belting from the resident.
10. Use proper nursing techniques to transfer to a wheelchair or other chair.
11. If using a sit-to-stand lift or total lift, follow the manufacturer's instructions on the use of that particular lift.
12. After finishing your post bath routine, take the resident out of the bathing room.
13. You are now ready to disinfect the Cascade™ Tub.

System Cleaning (After Every Bath)

Clean and disinfect the tub and swivel lift 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 Cascade™ 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. Raise the Cascade™ Swivel Lift completely and rotate or swing the chair back into the tub.

2. Close and lock the door.
3. Press the Tub Fill Button and turn the Temperature Control Knob all the way to the left to its warmest level to heat the disinfectant solution and maximize its effectiveness.
4. Remove any visible tissue, residue, or fluids from the tub by pressing the Shower Button and rinsing the inside tub surfaces with the shower sprayer.
5. Press the Fill Button again to turn off the water. Allow the tub to drain, and place the drain plug over the drain.

On the Aqua-Aire® Tubs press and hold the Disinfect Jets Button 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.

6. Using the long-handled brush, available from your Penner distributor, thoroughly scrub all interior surfaces of the tub, and Swivel Lift with the solution that remains in the foot well of the tub. Let disinfectant stay on surface for 10 minutes. (Or, as recommended by the instructions on the disinfectant concentrate container.)
7. Remove the plug from the drain.
8. Rinse the Swivel Lift and the tub's interior surfaces thoroughly with the shower sprayer.
9. Press and hold the Rinse jets button located on the left side of the control panel until clear water runs from all the air jets. Then release the Rinse jets button.
10. Finish rinsing the Cascade™ Swivel Lift Bathing system and the interior surfaces of the tub with the shower sprayer.

11. Start the air blower by pushing the Aqua-Aire® Button. 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 Aqua-Aire® blower by again pushing the Aqua-Aire® button.
13. Visibly check that the tub and reservoir (if applicable) was effectively cleaned during the disinfecting procedure. If not, repeat the procedure.
14. If there is a delay of one or more hours before the next bath, we recommend using a towel to wipe off all excess water. This will keep your Cascade™ Tub looking great for years to come.

Reservoir Cleaning

The lid of the reservoir can be removed to allow access for cleaning and disinfecting when necessary. How often should the Reservoir tank be cleaned? Since only fresh water goes through the reservoir tank, the time between cleanings depends on the local water quality. As a general rule, we suggest at least once per month or more often if needed.

Daily Maintenance

To properly maintain the Cascade™ Swivel Lift Bathing 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 left side of the tub. 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

Daily Safety Checklist for Cascade™ Tub and Reservoir

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.

CHECK THE FOLLOWING ITEMS EACH DAY BEFORE USING YOUR CASCADE™ SIT-BATH SYSTEM 6900.

Perform the following safety checks daily for the Cascade™ 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. Seal Wear - Open the door and check to see that the seal is not cracked or peeling away from the door.
3. Self-Draining Trap - If water is draining regularly from the self draining trap, the 1-1/2 check valve may need to be cleaned or replaced.
3. Swivel Lift and Seat Belt – Check the condition of the lift and belt(s) for signs of excessive wear.



WARNING

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

Perform the following safety checks daily for the Cascade™ Reservoir:

1. Temperature Read-Out Accuracy - Close the reservoir release valve and partially fill the reservoir with 95 to 105 degrees Fahrenheit water. Open the reservoir release valve and 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.

The above information concerning daily maintenance and safety checks must be recorded in the patient's record and must be communicated to the staff.

You're Penner Distributor and his personnel are trained to provide in-service instruction and maintenance on your Cascade™ Swivel Lift Bathing system. If you have any questions about the operation or maintenance of your Cascade™ Swivel Lift Bathing system, please contact your Penner Distributor. For your nearest Penner distributor, contact Penner Patient Care, Inc at 1-866-736-6377 OR 1-800-732-0717.

For your nearest distributor, contact:

***PENNER PATIENT CARE, INC.
Box 523 / 101 Grant St.
Aurora, NE 68818***

1-866-PENNERS

1-866-736-6377

1-800-732-0717

***E-mail Address: pennersales@hamilton.net
Web Site: www.pennerbathingspas.com***