



Cascade Contour  
Bathing Systems with Aqua-Aire™  
*Safe Operation & Daily Maintenance  
Instructions*



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**360750C Revision A – 04/19/13**

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## INTRODUCTION

The Cascade Contour Sit-Bath System is designed to significantly improve the efficiency and environmental safety of your nursing care operation and yet have the quality appearance and appeal of a home system. However, the benefits designed into the Contour 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 Contour 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 Contour Bath 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 a reservoir system that allows the tub to be filled quickly. The system is 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.

Manufacturer: Penner Manufacturing Inc  
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Aurora, NE 68818  
(402) 694-5003

Models: 360030-1C Cascade – Contour Sit Bath

|                             |   |
|-----------------------------|---|
| Aqua-Aire Tub Ratings:      | 120 Volts AC<br>60 Hz 1 Phase<br>7.25 amp |
| Aqua-Aire with Swivel Lift: | 9.5 amp.<br>120 Volts AC<br>60 Hz 1 Phase |
| Swivel Lift Load Capacity   | 400 lbs. Maximum Capacity                 |

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 IEC 60601



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 on the left side of the tub. The color television is plugged into an independent ground fault source. 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               |

## Basic Components

The Cascade Contour Sit-Bath System is composed of the following components:

|              |                                 |
|--------------|---------------------------------|
| Cascade Tub  | Reservoir                       |
| Cascade Door | Swivel Lift (with optional tub) |

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

## Cascade Contour Tub Controls

The Cascade Contour Aqua-Aire Tub is a specialized tub with built-in air jets. It has been designed to 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.



**HAND SHOWER**

**RESERVOIR  
VALVE CLOSE**

**HAND SPRAYER  
ON/ AUTO OFF BUTTON**

**BATH OIL DISPENSING PUMP PLUNGER**

**SHAMPOO DISPENSING PUMP**

**AQUA-AIRE ON/OFF**

**TUB FILL ON/OFF BUTTON**

**TUB TEMPERATURE READ-OUT**

**FILL-SHOWER TEMPERATURE READ-OUT**

**FILL-SHOWER TEMPERATURE CONTROL**

**RESERVOIR TEMPERATURE READ-OUT**

**RESERVOIR FILL ON**

**RESERVOIR FILL OFF**

**RINSE BUTTON**

**DISINFECT BUTTON**



## **WARNING**

DO NOT PLACE LIQUIDS OR CONTAINERS OF LIQUIDS ON TOP OF THE LID OF THIS SYSTEM. FAILURE TO HEED THIS WARNING MAY RESULT IN INJURY TO A RESIDENT AND OR OPERATOR.

**CAUTION:** Do not exceed 25lbs of load the Contour cabinet shelves.

## **Cascade Door**

The Cascade Contour Door is a specially designed reinforced door with locking lever to open and close the door.

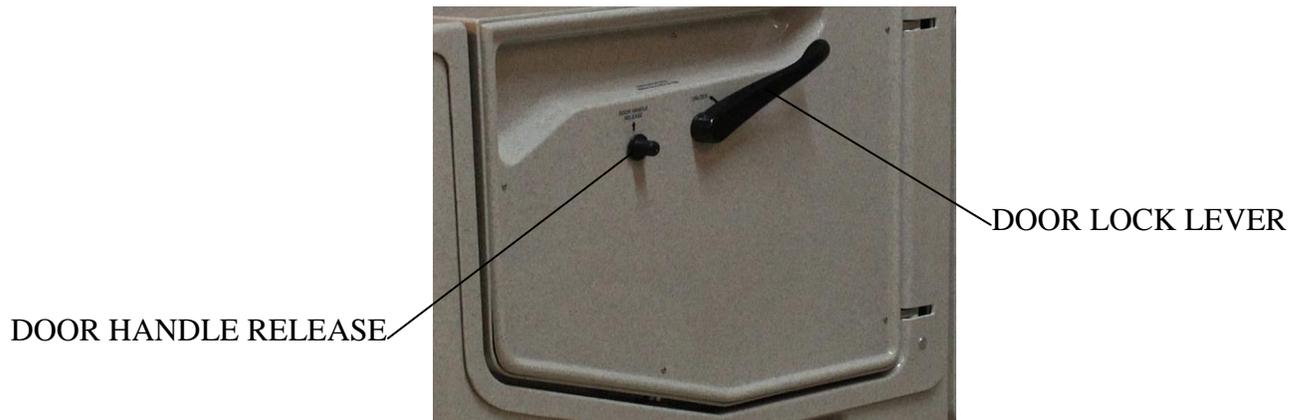


Figure 2

## **Locking 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 Cascade Door**



## **WARNING**

NEVER ATTEMPT TO UNLOCK THE 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 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 Cascade Contour has a reservoir specially designed with a 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 2 minutes or less and keeps the time the resident is unclothed and out of water to a minimum.

## System Preparation (Before Bath)

|   |
|---|
| <p><b>⚠ WARNING</b></p> <p>ONLY PERSONNEL WHO HAVE BEEN THOROUGHLY TRAINED IN THE OPERATION OF THE CASCADAE CONTOUR SIT-BATH 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.</p> |
|---|

Prior to the bath, perform the following preparation steps.

1. Make sure you have all of your 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 or Patient to the Bathing Area with your Patient Transfer System or Wheel Chair.

## Penner Swivel Lift Procedure

*(Applicable only on tubs with the Cascade Swivel Lift Bathing System)*

## Safety Information

 Penner Swivel 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 lift, it is required that the nursing staff inspect for proper operation and missing or worn parts such as the seat, arms, and 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 Swivel 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 Swivel 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 Penner Swivel Lift Systems.

 Before using the Penner Swivel Lift System, patients must be assessed by The facility's professional nursing or professional rehabilitation staff to determine which patients are suitable for lifting, which type of Lift or Transfer to use, and the number of staff members necessary to Lift or Transfer each patient. Although one person can perform patient lifts or transfers, 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 or to staff members, patients being lifted or transported with Penner Lifting or Transfer equipment, with or without scale, outside of the patient's room. The above information must be recorded in the patient's record and must be communicated to the staff.

### **Penner Swivel Lift Criteria**

The Patient Must:

- a. Have no injuries or medical conditions that might be aggravated by the Penner Swivel Lift procedure.
- b. Weight 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 problem he or she has that could cause injury or conflict with the safe operation of the Penner Swivel Lift System.

## Transferring & Lifting the Resident with the Swivel Lift.

You are now ready to prepare for transferring the resident onto the Swivel Lift and into the Bathing System.

1. Ensure the door of the Cascade Bathing system is open wide for access into the bathing.
2. With the Swivel Lift seat rotated completely outside of the bathing system, ensure the Swivel Lift is completely lowered by pressing the down button on the Cascade tub, near the door opening. This locks the Swivel into the secure position for transferring the Resident onto the Swivel Lift.



### **WARNING**

FAILURE TO ENSURE THAT THE PENNER SWIVEL LIFT IS LOWERED, AND SECURELY LOCKED IN POSITION FOR TRANSFERRING THE RESIDENT INTO THE SWIVEL LIFT, COULD RESULT IN INJURY TO THE OPERATOR OR PATIENT.

3. The arms of the Penner Swivel Lift chair can swing upwards and back, or be removed to provide a variety of options in providing care.
4. At the bathing area, position your patient transfer equipment near the access of the Penner Swivel Lift of the Cascade tub for a normal wheel chair-to-chair transfer. Ensure the water door is open wide to allow easy access.
5. Lock the brakes of your patient transfer equipment before transferring the Resident or Patient onto the Swivel Lift.



### **WARNING**

FAILURE TO LOCK THE CASTER BRAKES OF YOUR EQUIPMENT BEFORE THE RESIDENT IS TRANSFERRED ONTO THE CASCADE SWIVEL LIFT, COULD RESULT IN INJURY TO THE OPERATOR OR PATIENT.

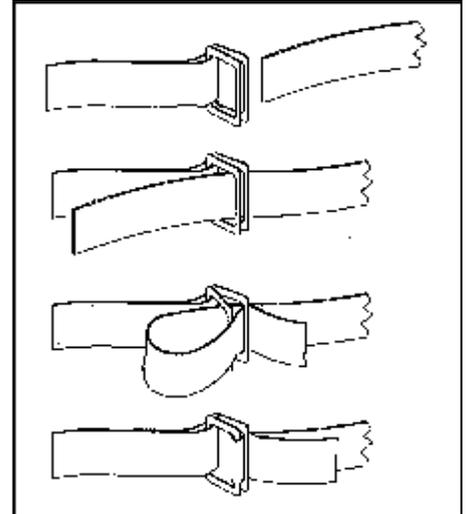


### **WARNING**

FAILURE TO SECURE THE RESIDENT PROPERLY WITH THE SEAT BELT COULD RESULT IN INJURY TO THE RESIDENT OR OPERATOR.

## Belting Technique

6. Route the belt through the belt hole of the chair frame prior to placing the resident into the chair.
7. Transfer the resident into the Penner Swivel Lift using the proper nursing transfer techniques. Bring the seat belt around the resident, to the D-ring connector.
8. Connect the belt to the D-ring as shown at the right.
  - a) Use the technique as shown at the right.
  - b) Adjust the belt to insure safety while lifting.
  - c) For residents who are unable to support themselves in an upright position, Penner supplies the second belt (chest belt), which allows you to secure the resident in an upright position. The chest belt should be placed across the chest of the resident and around chair frame as shown or through the belt holes, and secured in the same manner as described above.
9. With Resident properly secured with belting, press the “UP” button to completely raise the Swivel Lift. This locks the swivel of the lift. Carefully swing the Resident into the tub. Assist placing the resident’s legs into the foot well of the tub if necessary.
10. Once the Swivel Lift is in the correct position, completely lower the Swivel Lift chair into the tub by pressing the down “DN” button. The chair then becomes locked in its position. **Always ensure the residents limbs are clear,** and no objects Interferer with its operation.



### **WARNING**

FAILURE TO INSURE HANDS, ARMS AND LEGS ARE CLEAR OF ANY OBJECTS WHEN POSITIONING OR LIFTING COULD RESULT IN INJURY TO THE RESIDENT OR OPERATOR. STOP THE SWIVEL LIFT WITH THE HAND CONTROL, AT ANY TIME DURING RAISING AND LOWERING OF THE RESIDENT.

11. Close the water door and lock it by pressing the handle downward.
12. You may now fill the tub per bathing procedures of this manual using the Reservoir or the tub fill. Monitor the water temperature on the Reservoir and tub fill temperature gauges by allowing the water to run over your wrist.
13. Follow the Bathing Procedure as outlined in your Safe Operation & Maintenance Instructions that was included with your Tub. If you do not have this manual, one may be acquired through your Penner Patient Care Distributor.

## Bathing Preparation

### **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.

## Using Cascade Contour Bathing System

Reference **page 5** 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 (reference figure 1) to a normal bathing temperature, 95-105 degrees Fahrenheit as shown on the fill/shower temperature read-out (reference figure 1).
3. The reservoir can hold up to 65 gallons of water and can be stopped at any time during the filling process if you desire. To stop the filling of the reservoir, simply push the reservoir fill OFF button.
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 on getting prepared for your resident. 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. Once all of the above steps have been followed and the water in the reservoir is suitable for bathing, you are ready to transfer the resident into the tub, release the water from the reservoir, and give a bath. Refer to pages 9 and 10 on proper transfers into Cascade.
8. Place drain plug in the drain.
9. Once the resident is transferred into the Cascade close and lock the door. You may now release the water from the reservoir.

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. If the temperature is not correct after double-checking, remove the resident from the Cascade and empty the reservoir into the vacant tub. Fill reservoir again with the correct temperature of water. Repeat steps 7 and 8.  
**A unique feature of the Cascade 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.**
11. After transferring your resident into the Cascade, close and locked the door, and put the drain plug in the drain, open the reservoir release valve.
12. Once the reservoir release valve has been opened, push the Tub Fill button located on the Cascade Control Panel and adjust the water temperature by turning the Temperature Control knob to normal bathing temperature, 95 to 105 degrees Fahrenheit.
13. 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. Bathing a patient more than 10 minutes is not required.

To bathe the resident, use the following procedures:

**(Reference page 5 for the location of the controls listed in this section)**

1. Start the air blower by pressing the Aqua-Aire ON/OFF button.
2. Push the Bath Oil Dispensing Pump Plunger 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 eliminates 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. 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. Position one hand or hand with washcloth under the Shampoo dispensing spout and push the Shampoo Dispensing Pump Plunger to dispense Penner Body Wash and Shampoo. Apply it 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. Pull out the Hand Sprayer.
  - b. Press the "HAND SPRAYER ON/AUTO OFF" button. This starts the water flow to the hand sprayer for a set period of time. Then the water flow is automatically stopped. It can be restarted at any time by pressing the "HAND SPRAYER ON/AUTO OFF" button. **Note. This time period is adjustable, up to 10 minutes, by the maintenance department.**
  - c. Direct the sprayer into the tub, **not at the resident**. Press the trigger on the hand sprayer and adjust the mixing valve, if needed, to the normal bathing range of 95 to 105 degrees Fahrenheit (35 to 41 degrees Celsius). Monitor the temperature via the Fill/Shower Temperature readout. As a further precaution, always test the water on the inside of your wrist before turning the sprayer toward the resident. 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-Aire bubbling action wash the perineal area. This technique protects the resident's dignity and removes any residual waste or fecal matter.
  - b. The Aqua-Aire bubbling action at the bottom of the tub, will clean the resident's feet.
6. 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 and apply a small amount of Penner Body Wash and Shampoo to the wet hair.
  - 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.

**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 assures that all residues will be removed quickly and easily, leaving hair clean, conditioned, and shining.

## Transferring Out Of Swivel 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 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 until the Lift is unlocked and free to swing out of the bathing system.
6. Carefully swing residents legs around and until he or she is facing away from the tub.
7. Lower the Swivel lift completely to ensure it is locked in position.
8. Carefully remove the belts from the Resident or Patient to ensure they do not slip out of the Swivel Lift chair. This may require the assistance of another aid to control the Patient's transfer into your transfer equipment or wheelchair
9. If transferring manually out of the Swivel Lift, use proper nursing techniques to transfer to a wheelchair or other chair to finish hair, nail, shaving, etc.
10. If using a sit-to-stand lift or total lift, follow the manufacturer's instructions on the use of that particular lift.
11. After finishing your post bath routine, take the resident out of the bathing room.
12. You are now ready to disinfect the Cascade Contour tub.

## 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 Cascade Contour 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. With the Swivel Lift positioned inside 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.
6. Press and hold the Disinfect Button located on the control panel. 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.

7. Using the long-handled brush, available from your Penner distributor, thoroughly scrub all interior surfaces of the tub and Swivel Lift chair 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.)
8. Remove the plug from the drain.
9. Rinse the tub's interior surfaces thoroughly with the shower sprayer.
10. Rinse most of the soapy water away with the shower sprayer
11. Press and hold the Rinse button located on the control panel until clear water runs from all the air jets. Then release the Rinse button.
12. Finish rinsing the interior surfaces of the tub with the shower sprayer.
13. 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.
14. Stop the Aqua-Aire blower by again pushing the Aqua-Aire button.

15. Visibly check that the tub and reservoir was effectively cleaned during the disinfecting procedure. If not, repeat the procedure.
16. 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.

**(Note: It is recommended that the Reservoir be cleaned and disinfected monthly or as needed)**

## Daily Maintenance

To properly maintain the Cascade Contour Sit Bath 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 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 CASCADE CONTOUR SIT-BATH SYSTEM .**

### **Cascade Tub**

Perform the following safety checks 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. 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.
3. Seal Wear - Open the door and check to see that the seal is not cracked or peeling away from the door.
4. Self- Draining Trap - If water is draining regularly from the self draining trap, the black 1-1/2 check valve may need to be replaced.
5. All Belts – Check the condition of the seat 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.

You're Penner Distributor and his personnel are trained to provide in-service instruction and maintenance on your Penner Equipment . If you have any questions about the operation or maintenance of your Cascade Sit-Bath 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 / 102 Grant St.***  
***Aurora, NE 68818***

**1-866-PENNERS**

**1-866-736-6377**

**1-800-732-0717**

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