

TWO GALLON SALT FEED SYSTEM (Part #31-3001)

Installation and Maintenance Instructions

THE FOLLOWING ARE CAUTIONARY STATEMENTS THAT MUST BE READ AND FOLLOWED DURING BOTH INSTALLATION AND OPERATION

WARNING: *Raritan Engineering Company, Inc. recommends that a qualified person or technician install this product. Equipment damage, injury to personnel or death could result from improper installation. Raritan Engineering Company, Inc. accepts no responsibility or liability for damage to equipment, or injury or death to personnel, that may result from improper installation or operation of this product.*



INTRODUCTION

The Lectra/San and Electroscan do not require a salt feed system for ocean water use as the salinity of the ocean water is sufficient to operate the system as designed. Salt can be added to the system using a Two Gallon Salt Feed Tank for brackish water. A four gallon salt feed system with pump (3X-3003) needs to be utilized if operating LST/MC or Electroscan models in fresh water. Low salt is indicated on the Lectra/San Control Indicator Panel or as low amps on the LCD display of the Electroscan.

Parts included are shown in Fig. #1. This system can be used with all Lectra/San and Electroscan models. Dimensions are: 9" (22.9 cm) x 9" (22.9 cm) x 7" (17.8 cm).

OPERATION

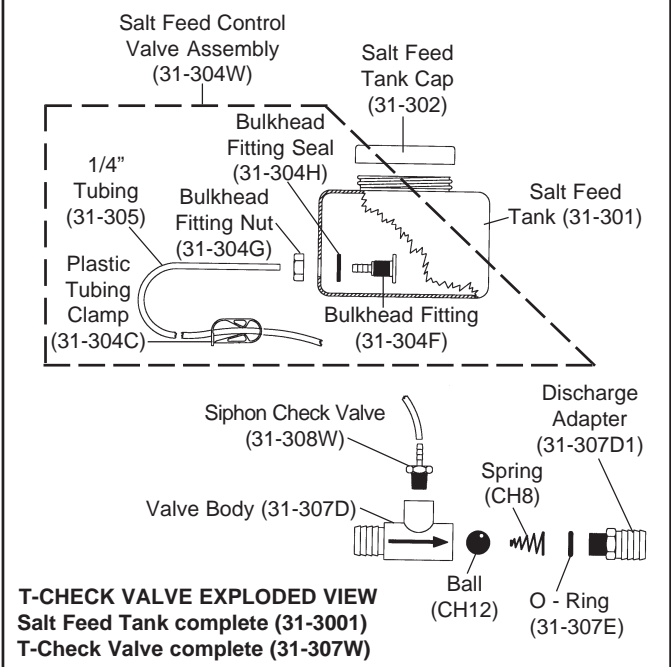
A salt solution is mixed and placed in the salt feed tank. Every time the toilet is flushed, part of the salt water solution is mixed with incoming water to increase the water salinity in the Treatment Tank. A low salt or treatment indication means the tank may need to be re-filled.

The amount of saturated salt solution entering the Treatment Tank can be decreased or increased by adjusting the plastic tubing clamp. To decrease the amount of salt solution entering the system adjust the plastic tubing clamp to pinch the tubing, restricting the flow. To increase the amount of salt solution entering the system release the plastic tubing clamp to remove the restriction. (See Start Up section for more details.) Close plastic tubing clamp if using raw water flush toilet(s) in ocean salinity to avoid unnecessary drain of salt solution from the tank. Reopen clamp when needed.

WINTERIZATION

1. Rinse tank thoroughly with fresh water and wipe out tank.
2. Check to make sure the small vent hole in tank cap is not blocked.

Fig. #1 Two Gallon Salt Feed Tank Exploded View



INSTALLATION/ MOUNTING

Locate the Salt Feed Tank above the waterline within six feet (1.8 m) of the toilet and at the same level as the toilet. Place in a secure location that is accessible for refilling.

PLUMBING

1. Assemble the Salt Feed Tank per Fig. #1.
2. Attach the T-Check Valve in the intake line (suction) of the toilet. Arrow should point towards toilet.
3. Attach the tubing to the T-Check Valve and the Salt Feed Tank.
4. Modify the intake Check Valve of the toilet.

NOTE: Following part numbers refer to the parts in the toilet and not in the T-check valve. When connecting to a PHII, remove #1201 and #LWS; for Crown Heads remove #CH12 and #CH8; for Crown Head II and Atlantes models replace #RCV with T-Check Valve provided.

Other types of toilets need not be modified unless they have an additional built in check valve.

START UP

Refer to the Start Up procedure outlined in the Lectra/San or Electroscan Manual. The following instructions are supplementary to those instructions (see Fig. #2).

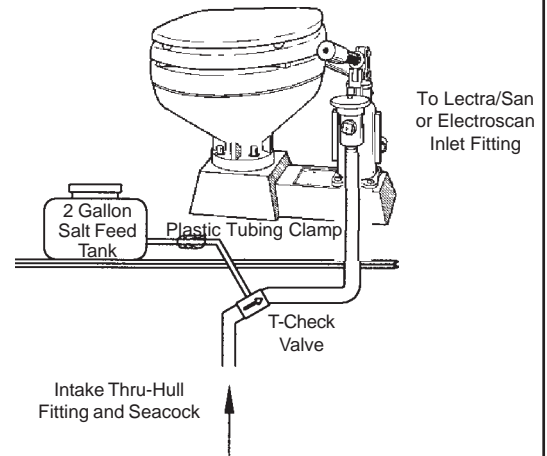
IMPORTANT: It may be necessary to add salt directly to the Treatment Tank prior to activation.

How to adjust the salt solution: Open plastic tubing clamp completely. Use toilet and system four times and there should be no low salt indication (Low Treatment reading on the meter for Lectra/San models, Low Salt amber LED for LST/EC models, Slow Blink - Extended Cycle (one blink per second) for LST/MC models and Low Amp reading for Electroscan). See manual for troubleshooting if low salt light indication continues. With no low salt indication start closing plastic tubing clamp until low salt indication comes on and open plastic tubing clamp slightly again for optimum salt without low

salt indication. Use system four times between each adjustment.

To Make Salt Solution: In a separate container, combine five pounds (2.3 kg) of solar salt with two gallons (7.5 L) of warm water and allow to dissolve overnight. Pour water into the tank (this is a saturated salt solution). The salt remaining in the bottom of the container may be used the next time.

Fig. #2 Raritan's PHII Manual Toilet Shown With Two Gallon Salt Feed Tank



LIMITED WARRANTY

Raritan Engineering Company warrants to the original purchaser that this product is free of defects in materials or workmanship for a period of one year from the product's date of purchase. Should this product prove defective by reason of improper workmanship and/or materials within the warranty period, Raritan shall, at its sole option, repair or replace the product.

1. TO OBTAIN WARRANTY SERVICE, Consumer must deliver the product prepaid, together with a detailed description of the problem, to Raritan at 530 Orange St., Millville, N.J. 08332, or 3101 SW 2nd Ave. Ft. Lauderdale, FL 33315. When requesting warranty service, purchaser must present a sales slip or other document which establishes proof of purchase. THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION PRECEDENT OF WARRANTY COVERAGE. However, please complete and return the owner Registration Card so that Raritan can contact you should a question of safety arise which could affect you.
2. THIS WARRANTY DOES NOT COVER defects caused by modifications, alterations, repairs or service of this product by anyone other than Raritan; defects in materials or workmanship supplied by others in the process of installation of this product; defects caused by installation of this product other than in accordance with the manufacturer's recommended installation instructions or standard industry procedures; physical abuse to, or misuse of, this product. This warranty also does not cover damages to equipment caused by fire, flood, external water, excessive corrosion or Act of God.
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