

Apex RTU: (Ready To Use) ***- Presoak Dispenser*** ***- Manual Dispenser*** ***Installation & Operation Manual***



Retain this manual as an installation, operation and servicing reference.

**APEX RTU PRESOAK / MANUAL DISPENSER
INSTALLATION & OPERATION MANUAL
TABLE OF CONTENTS**

Section

1.0	PREFACE	3
2.0	INTRODUCTION	3
3.0	SPECIFICATIONS	4
3.1	Dimensions	4
3.2	Service Access	4
3.3	Electrical Requirements	4
3.4	Water Requirements	4
3.5	Components Not Supplied	4
4.0	INSTALLATION PROCEDURES	5
4.1	Dispenser Installation	5
4.2	Water Supply Installation	6
5.0	START-UP	7
6.0	TROUBLESHOOTING	8
6.1	Dispenser does not dispense when the button is pushed	8
6.2	Dispenser dispenses, but there is no evidence of product dispensed (foam)	8
6.3	Dispenses product when not activated (will not shut off)	8
6.4	High or Low Concentration	8
6.5	The Sump Overflows	8
7.0	REPLACEMENT PARTS	9

1.0 PREFACE

This manual has been written to present the basic installation and operational characteristics of the *Apex RTU Presoak / Manual Dispenser*. ***This manual applies, in its entirety, to current units. Some differences may be noted with earlier units.***

Guidelines will be suggested in reference to the preferred method of installation, however, the variety of equipment and the surrounding physical environment will dictate the actual installation of the *Apex RTU Presoak / Manual Dispenser*.

WARNING: These installation and service instructions are for use by qualified personnel only. The installation must be made in accordance with local plumbing and electrical codes.

2.0 INTRODUCTION

The *Apex RTU Presoak / Manual Dispensers* are designed to convert solid product chemistry into a Ready To Use (RTU) liquid form for dispensing into a bus tub for silverware or 3-compartment sink for manual detergent washing.

The dispenser is activated by pushing the Gray turn-to-lock button, which opens the water valve allowing water up into the backflow prevention device (DB). After that device there is a TEE, which divides the water into 2 paths. The first path goes down into a flow restrictor and then directly into the drain funnel area. The second path goes through a pressure regulator and then to a spray nozzle. The nozzle sprays up into the product cylinder, onto the solid product block, then down into the funnel. The bypass water mixes with the concentrated product and makes a RTU (Ready to Use) solution, which means no additional water is needed for the application.

The bypass water together with the nozzle spray water dissolves the solid product into a Ready To Use solution (teach account not to add water) that flows by gravity into the silverware presoak bus tub or 3-compartment sink for manual detergent washing.

3.0 SPECIFICATIONS

3.1 Dimensions

- Height (H):
 - 15.5" (39 cm)
 - With lid open 24" (61 cm)
- Width (W): 9.25" (23.5 cm)
- Depth (D): 9.25" (23.5 cm)
- Weight: Approximately 6.5 lbs. (3 kg) plus product weight

NOTE: The dispenser must be mounted on a convenient vertical surface readily accessible to the operator at a sufficient height to ensure the discharge tube, at the bottom of the dispenser, will drain into the bus pan or sink.

3.2 Service Access

An unrestricted vertical clearance of at least 9" (23 cm) must be provided directly above the dispenser to allow for product insertion and removal of the dispenser lid.

3.3 Electrical Requirements

The *Apex RTU Presoak / Manual Dispenser* does not require an electrical power source for operation.

3.4 Water Requirements

For proper dispensing rates, the water supply must be at least:

- Dynamic water pressure > 1.8 BAR, requires water temperature > 5 °C
- Dynamic water pressure > 1.5 BAR, requires water temperature > 15 °C

The spraying water temperature should be maximum of 60 °C.

The water line to the *Presoak / Manual Dispenser* can be G3/8 stainless steel braided hose or 10mm OD metal tubing.

Discharge tubing (5/8" ID) is used to direct the effluent from the dispenser to the bus tub or sink.

3.5 Components Not Supplied

- 10 mm OD metal tubing (inlet)

4.0 INSTALLATION PROCEDURES

Required Installation Tools

- Electric or cordless drill
- Drill bit
 - 1/4" (6 mm) standard and masonry bit
- Standard screwdriver
- Phillips screwdriver
- Level
- Utility knife
- Tape (optional)
- Marking pencil
- Hammer
- 5/16" (8 mm) nut driver (optional)

There is no substitute for planning the installation prior to beginning the work. The following must be taken into consideration before installation:

- The dispenser must be mounted on a convenient vertical surface readily available to the operator.
- Access to the product cylinder requires 9" (23 cm) minimum clearance above the dispenser to insert product and for proper lid function.

4.1 Dispenser Installation

1. Remove the mounting backplate and the dispenser from the shipping carton.
2. Using the mounting backplate as a template, mark the desired mounting holes through the backplate with a felt tip pen or pencil. The location of the installation must be in a convenient location for filling the bus tub / sink. Two sets of four mounting holes are provided; they are the same set of holes as the Solitron / Geo II dispensers. NOTE: Make sure the backplate is level before marking the holes.
3. Mount the backplate to the wall using the appropriate wall anchors, washers, and screws located in the installation kit. NOTE: If the unit is mounted to a hollow wall, a butterfly nut and bolt (or equivalent) must be used.
4. Mount the dispenser to the backplate on the wall. The three plastic knobs on the backplate should match up to the dispenser's three key hole slots on the back of the main dispensing unit. Push dispenser against backplate and then down to lock into place.
5. Secure the dispenser to the backplate with a screw to the wall through the holes in the enclosure on either side of the product cylinder.
6. Install 5/8" ID discharge tubing to hose barb at the bottom of the dispenser.
7. Record the installation date on the dispenser.

IMPORTANT:

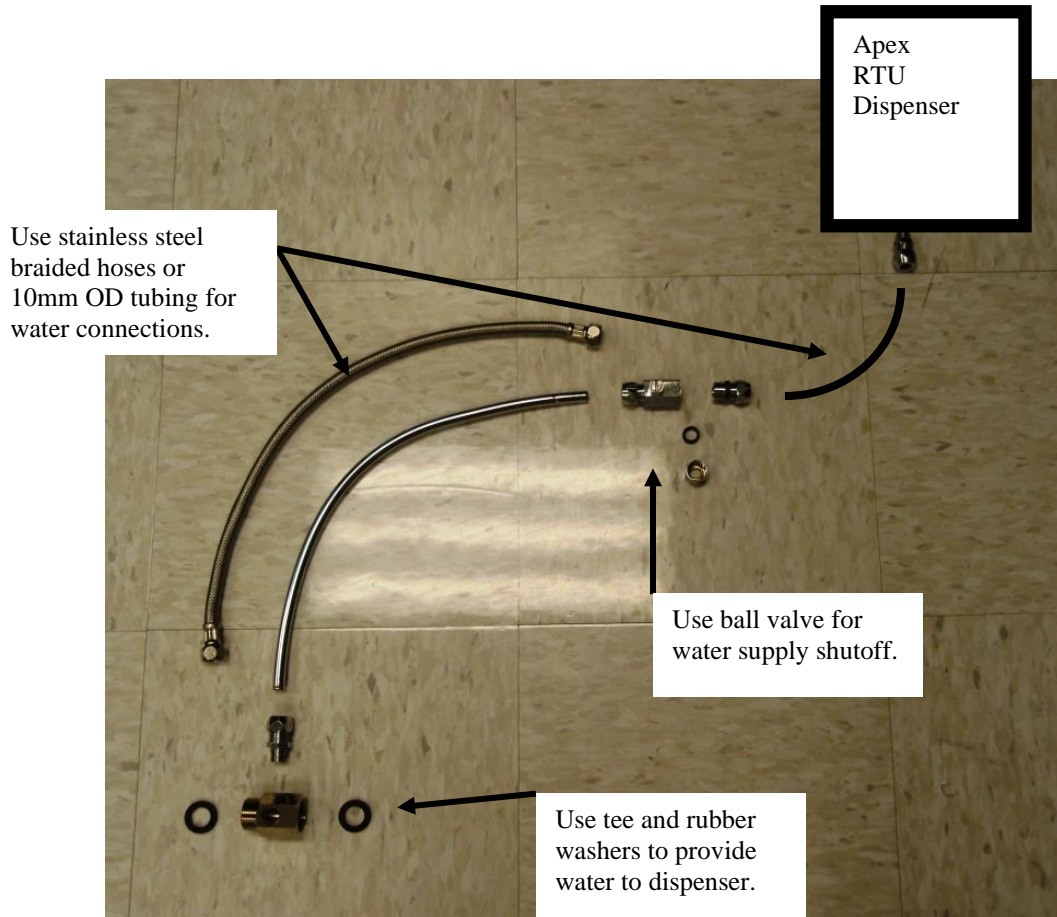
- In all cases, use the 4 mounting screws, wall anchors, and washers to ensure a robust installation and help avoid unnecessary emergency service requests in the future.

4.2 Water Supply Installation

NOTE: The hot water supply must not exceed 60 °C.

There are many possible ways in which the water source may be obtained.

1. The unit may be located in close proximity to a dish machine. The water can be obtained from the dish machine's detergent dispenser water supply line by adding another 10mm OD tubing (3/8 BSPP) tee.
2. An alternate water source can be obtained by using the supplied 3/4" tee and ball valve shutoff.



5.0 START-UP

1. Load a solid product block into the dispenser and close the lid.
2. Turn dispenser “ON” by pushing and turning to lock open the Gray button.
3. Allow the dispenser to run and fill the bus pan or sink. Turn dispenser “OFF” when water level is reached.
4. Water pressure determines how fast the dispenser fills the bus pan or sink.
5. Water temperature is important for proper chemical concentration.

The dispenser is designed to accommodate magazine loading. An additional product block may be placed directly on top of the eroded block.

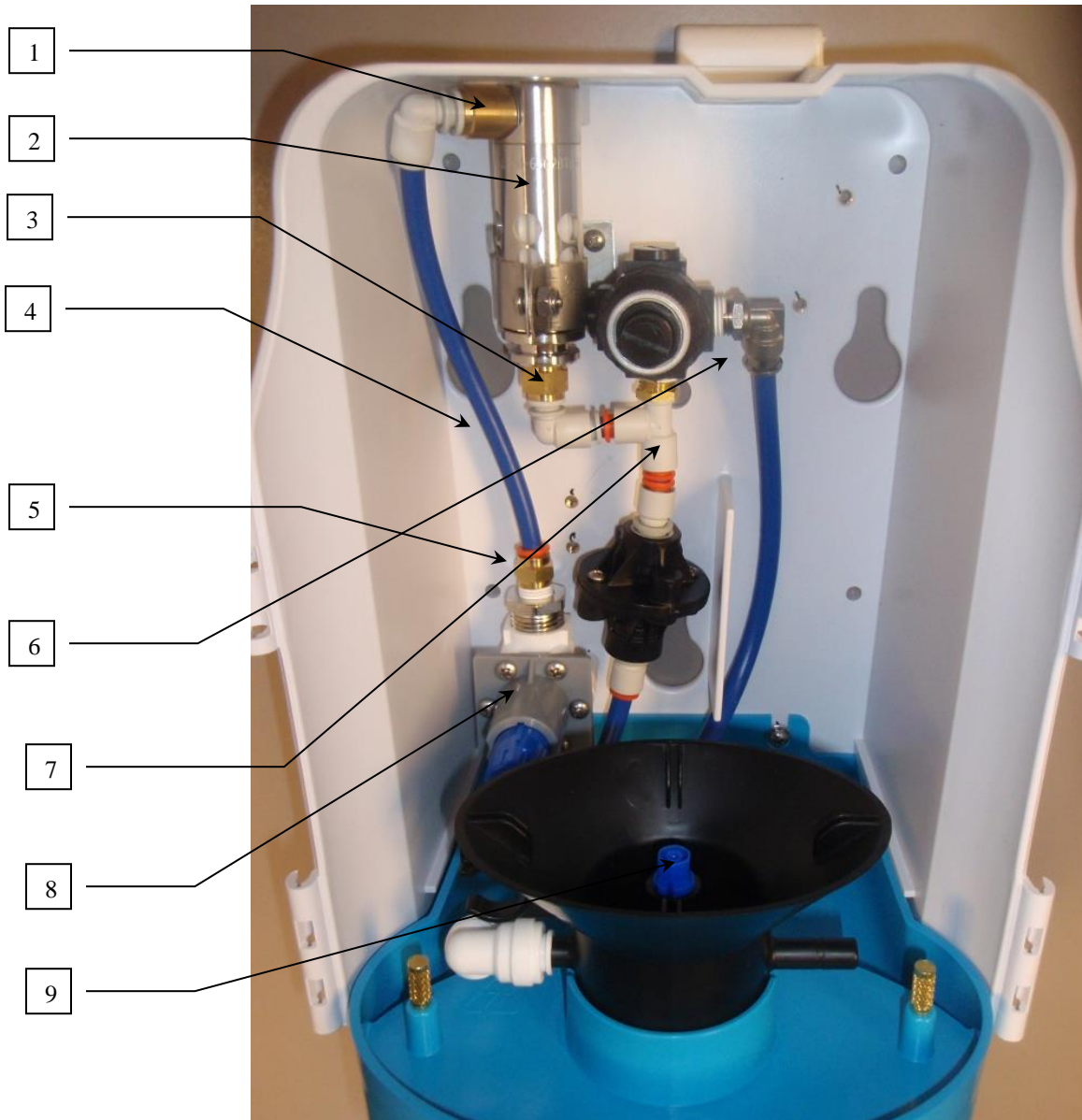
It is recommended practice that the dispenser be refilled with a new solid product block when the current product block is approximately eroded to half its original height. It is OK if the top lid does not close completely.

6.0 TROUBLESHOOTING

The following troubleshooting procedures are specific to the *Apex RTU Presoak /Manual Dispenser*.

Symptom	Action
6.1 Dispenser does not dispense when the button is pushed.	<ol style="list-style-type: none">1. Make sure water is turned on at source.2. Make sure push button rod is properly aligned with the water valve.3. Make sure nozzle is not plugged.4. Replace water valve.5. Check to see if the water pressure is too low.
6.2 Dispenser dispenses, but there is no evidence of product dispensed (foam).	<ol style="list-style-type: none">1. Make sure there is product in the dispenser.2. Check the spray nozzle for proper function.
6.3 Dispenses product when not activated (will not shut off).	<ol style="list-style-type: none">1. Turn water supply OFF.2. Make sure backflow preventer device (DB) is not plugged.3. Check for debris in water valve.4. Replace water valve.5. Check to see if the water pressure is too high.
6.4 High or Low Concentration	<ol style="list-style-type: none">1. Water pressure too low / high.2. Water temperature too low / high.3. Spray nozzle plugged or uneven spray pattern.4. Product block has strange erosion pattern- check spray nozzle for blockage.
6.5 The sump overflows.	<ol style="list-style-type: none">1. Check the water pressure is too high.2. Make sure discharge (outlet) tubing is not kinked.

7.0 REPLACEMENT PARTS



Reference #	Description	EE-P. Number	EBS Number
1	Elbow 8mm x G1/4	85635030	10019483
2	Backflow Preventer (DB)	37200129	10019365
3	Conn 8mm x G1/4	85613015	10019474
4	8mm OD tubing	85015062	10021608
5	Conn 8mm x G1/4	85613015	10019474
6	Elbow 8mm x 1/4NPT	85534000	10020614
7	Tee 8mm x 1/4NPT	85542001	
8	Water Valve	85264013	
9	Spray Nozzle 5.6 black	E85312395	10000175
9	Spray Nozzle 2.8 blue	85312403	