	Title: YALE OFFICE OF FACILITIES PROCEDURE MANUAL Chapter: 01 – Yale Design Standard Division: 10 00 00 Specialties	Section: <b>10 28 00</b> Requirements for Toilet, Bath, Shower Room Accessories, and Custodial Closets
		Date: 04/22/2021 Posted March 2022
		Author: University Planning

## PART 1 - INTRODUCTION

### 1.1 PURPOSE

- A. This section contains general design criteria for toilet, bath, shower room accessories, and custodial closets.


## PART 2 - GENERAL DESIGN REQUIREMENTS

### 2.1 Manufacturer

- A. Refer to Part 3 – Minimum Product requirements, for product information on custodial accessories. Any additional accessories to be provided, shall be listed as a Basis of Design deviation to be reviewed. Manufacturers offering products that may be incorporated in the work include, but are not limited to Bobrick Washroom Equipment Inc, Hospeco Washroom Accessories, or an approved equivalent. Both Yale Project Management and Facility Services must approve any deviation(s) to Standard Custodial Accessories.
- B. Refer to the Yale Office of Facilities website under Additional Office of Facilities Design Guidelines for Facilities Accessibility Guidelines.
- C. In general, no dispensers or accessories should be stainless steel, unless specified in the following sections, and/or called out in a BOD deviation.

### 2.2 Design – Layout & Equipment


- A. Toilet Rooms
  1. New construction projects, and as feasible renovation projects, are to include multi-stalled men's and women's restrooms and a single use all gender restroom per floor. Multi-stalled gender specific restrooms are to be designed for conversion to all gender restrooms with no change in configuration.
  2. Toilet Room entry and exit should avoid a door where possible to avoid user contact with surfaces that may lead to cross-contamination concerns. The design must address noise and odor concerns. Where this is achieved, no waste receptacle is required at the entry. Where a door is required, provide either a finished opening for a waste receptacle within the wall, adjacent to the door handle on the bathroom interior-side of the door, or a Yale University approved built-in receptacle. Additionally, in multi-stalled restrooms where a door is necessary, provide a foot-pull/arm-pull device on interior side of door.
  3. Paper Towel dispensers –The standard Yale Paper towel dispensers are to be installed adjacent to sinks/counters. Where possible, and with Design Deviation Approval, a BTM (behind the mirror) multi-fold dispenser combined with an auto-sensor foam soap dispenser, should be provided.

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4. Do not provide air hand dryers.
5. Toilet paper dispensers- Triple roll dispenser, one per stall, furnished by Yale University, and installed by the contractor. (Double roll dispenser if confined space).
6. Sanitary napkin dispensers—one per women’s room, Hospeco Evogen EV3 Hands Free, or approved equivalent, non-coin operated, surface mounted.
7. Sanitary napkin disposal units- One per stall in women's room, furnished by Yale University, and installed by the contractor. (All-inclusive/Gender neutral, single use restrooms, one unit, furnished by Yale University, and installed by the contractor.)
8. Auto sensor soap dispensers- Preferred dispenser is Ecolab auto sensor foam dispenser. A minimum of one per lavatory (Quantity TBD w/ Facility Superintendent), surface mounted, to be located above sink, furnished by Yale University and installed by the contractor.
9. Trash Receptacles- Rubbermaid Slim-Jim Receptacle (Black) is standard, except in Residential College Dormitory/ Grad Housing bathrooms ( Step-on Container- See Product List).
10. Grab bars—1-1/2" diameter, quantity and arrangement as per accessibility codes
11. Shelves—Material should be similar to stall partition material. One per toilet room, large enough to accommodate 2-3 purses or briefcases.
12. Provide a small place to seat one or two people
13. Provide one standing wall mirror per bathroom if possible
14. No equipment, urinals, sinks, mirrors, etc. should be visible from public corridors.

#### B. Bathrooms

1. Toilet paper dispensers--Triple roll dispenser, one per stall, furnished by Yale University, and installed by the contractor. (Double roll dispenser if confined space).
2. Grab bars—1-1/2" diameter, quantity and arrangement as indicated in the contract documents and per local accessibility codes
3. Shelves- Material should be similar to stall partition material (No Stainless Steel). One per bathroom.
4. Mirrors- Preferably wall mounted above the sink(s).
5. Shower doors - translucent doors; plastic shower curtains are not acceptable
6. Towel hooks—two per shower stall
7. Soap dishes—one per shower stall-Should be of a wire type design to prevent soap residue build-up.
8. Refer to Section A above if any other dispensers/accessories are to be installed in a bathroom AND include in a BOD Deviation list.
9. Trash Receptacles- Rubbermaid Slim-Jim Receptacle (Black) is standard, except in Residential College Dormitory/ Grad Housing bathrooms (Step-on Container- See Product List).


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### C. Locker Rooms

1. Toilet paper dispensers—Triple roll dispenser, one per stall, furnished by Yale University, and installed by the contractor. (Double roll dispenser if confined space).
2. Grab bars—1-1/2" diameter, quantity and arrangement as indicated in the contract documents and per local accessibility codes
3. Shelves— Material should be similar to stall partition material (No Stainless Steel).
4. Mirrors- Preferably wall mounted above the sink(s)/countertop.
5. Shower doors – translucent doors; plastic shower curtains are not acceptable
6. Sanitary napkin dispensers—one per women’s shower room, Hospeco Evogen EV3 Hands Free, or approved equivalent, non-coin operated, surface mounted.
7. Sanitary napkin disposals— One per stall in women's room, furnished by Yale University, and installed by the contractor. (All inclusive/Gender neutral, single use restrooms, one unit, furnished by Yale University, and installed by the contractor.)
8. Trash Receptacles- Rubbermaid Slim-Jim Receptacle (Black) is standard.

### CI. Custodial Closets

1. Janitor’s utility units—Minimum of one per closet, two if space allows.
2. Shelves— Non-porous surface- No stainless steel. Size/quantity TBD per Superintendent
3. Floor Sink-- No wall mounted sinks
4. GFCI Outlet- Minimum of one per closet
5. Chemical Dispensing Unit- Quantities and locations TBD per Superintendent, furnished by Yale University, and installed by the contractor.
6. Foam Soap Dispensing Unit- Quantities and locations TBD per Superintendent, furnished by Yale University, and installed by the contractor.

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## PART 3 - MINIMUM PRODUCT REQUIREMENTS

### 3.1 Products

- A. Information on the following products is included herein:
1. Trash Receptacle
  2. Mechanical/Hands Free Hand Towel Roll Dispensers
  3. Bath Tissue Roll Dispensers
  4. Manual/ Hands Free Battery Powered Soap Dispensers (Renovation)
  5. Soap Concentrate Dispensers
  6. Sanitary Napkin Receptacle
- B. Toilet and bath accessories not specified herein must be included on a BOD Deviation List. If product is approved on Deviation List and is a stainless steel product, it must be AISI No. 4, with a bright, directional polish finish.

Date	Description of Change	Pages / Sections Modified	ID
04/01/2019	Full document	-	cj385
4/22/2021	Full Document		Rd244

**Rubbermaid Slim Jim® with Venting Channels**  
*Item Number:481009129*  
Manufacturer:RUBBERMAID  
Manufacturer Item Number:FG354060BLA  
Case Pack:1



	U.S.	
Product Length		22.00 in
Product Width		11.00 in
Product Height		30.00 in



## Tork Mechanical Hand Towel Roll Dispenser



	772828
Price (\$)	
Material	
System	H-80 Mechanical hand-towel unit

Tork Mechanical Hand Towel Roll Dispenser is designed to last in busy restrooms and gives reliability you can count on. Durable and easy to maintain, it delivers a hygienic dispensing experience which reduces consumption with one at a time dispensing.

- Reduces waste and save money with one-at-a time dispensing.
- Serves more customers with less maintenance due to high capacity
- Easy maintenance with translucent window that shows when a refill is needed
- Guaranteed to run well over 360 000 hand dries, saving you time, money and hassle (Hand dries based on Essity's internal lab testing.)

\* This dispenser can only be obtained via a dispenser agreement



## Tork® 3 Ro | Bath Tissue Ro | Dispenser for OptiCore®



Article	565828
Material	Plastic
System	T11 - Opticore
Color	Black
Depth	6.3 in
Height	14.6 in
Width	14.1 in

Tork® 3 Roll Bath Tissue Roll Dispenser for OptiCore® dispensing system is designed to minimize maintenance and maximize cost savings for high-traffic washrooms. It ensures that toilet paper will always be available for guests by holding three full rolls of tissue.

OptiCore® technology reduces waste and cost by ensuring maximum use of each roll before the next roll is accessible.

Features a locking cover to prevent product pilferage.

ADA compliant to ensure accessibility for all washroom patrons.



## Tork® Twin Bath Tissue Ro | Dispenser for OptiCore®



Article	565728
Material	Plastic
System	T11 - Opticore
Color	Black
Depth	7.2 in
Height	8.2 in
Width	11 in

Tork® Twin Bath Tissue Roll Dispenser for OptiCore® system holds two rolls of patented OptiCore® tissue. Designed for controlled-use dispensing and optimum savings in maintenance time and costs, this dispenser features an enclosed, front-facing design to keep tissue clean and hygienic, but easily accessible.

OptiCore® technology reduces waste and cost by ensuring maximum use of each roll before the next roll is accessible.

Translucent cover allows service staff to see at-a-glance when it's time to refill.

Features a locking cover to prevent product pilferage.

ADA compliant to ensure accessibility for all washroom patrons.



# Nexa™ Dispensers

The Nexa Dispensing System provides efficiency, innovation, and sustainability in one sleek, but adaptable, dispenser.

## FEWER BATTERIES

Nexa's energy saving Touch-Free dispenser requires fewer battery change-outs.<sup>3</sup>

**44%**  
**fewer  
batteries**

## PATENTED PUMP

Nexa's patented pump pulls excess product back in, reducing clogs and drips helping to avoid costly product waste and slips and falls.

## BACTERIA RESISTANT

Nexa's antimicrobial protection in the manual dispenser's push bar continuously inhibits the growth of bacteria, mold and mildew.<sup>4</sup>



## OPTIMIZED PACKAGING

Nexa's improved HDPE<sup>5</sup> packaging is not only recyclable, it also helps to maximize product evacuation.

**up to  
99%**  
**of product  
dispensed**

3 Over the course of 50 months at 50 actuations per day, in comparative testing using Ecolab's Nexa Touch-Free dispenser, and leading competitor's dispenser.

4 Bacteria, mold and mildew that can cause degradation.

5 HDPE: High-Density Polyethylene



Ecolab Nexus Hands Free Battery Powered Soap Dispensers

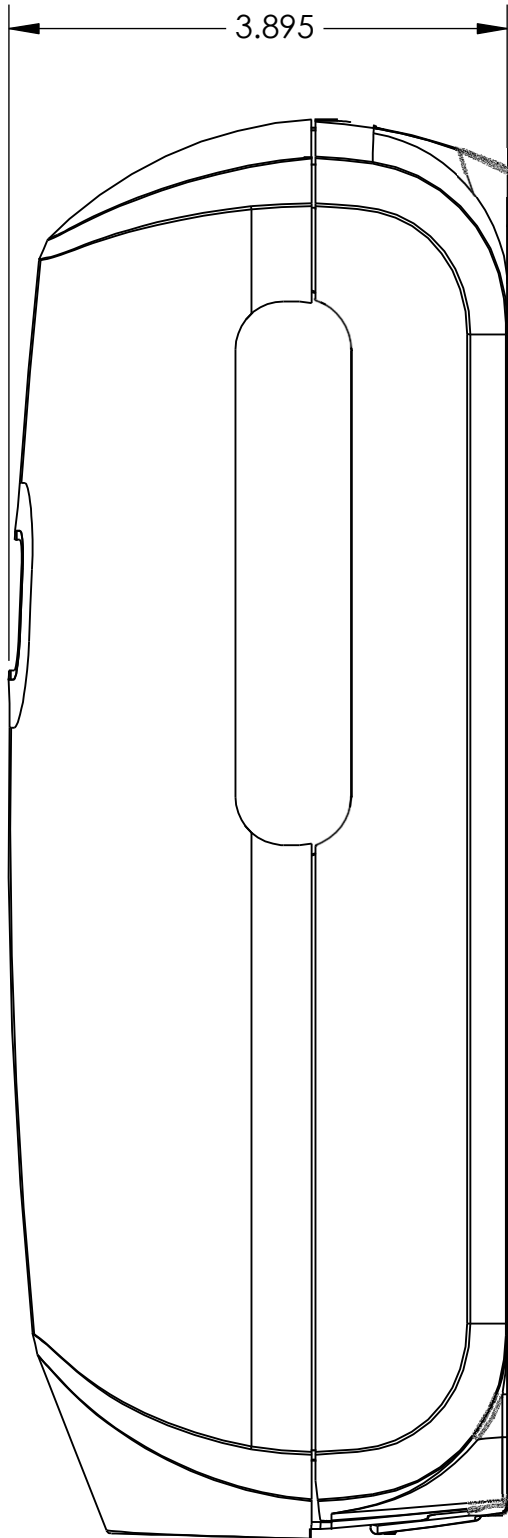
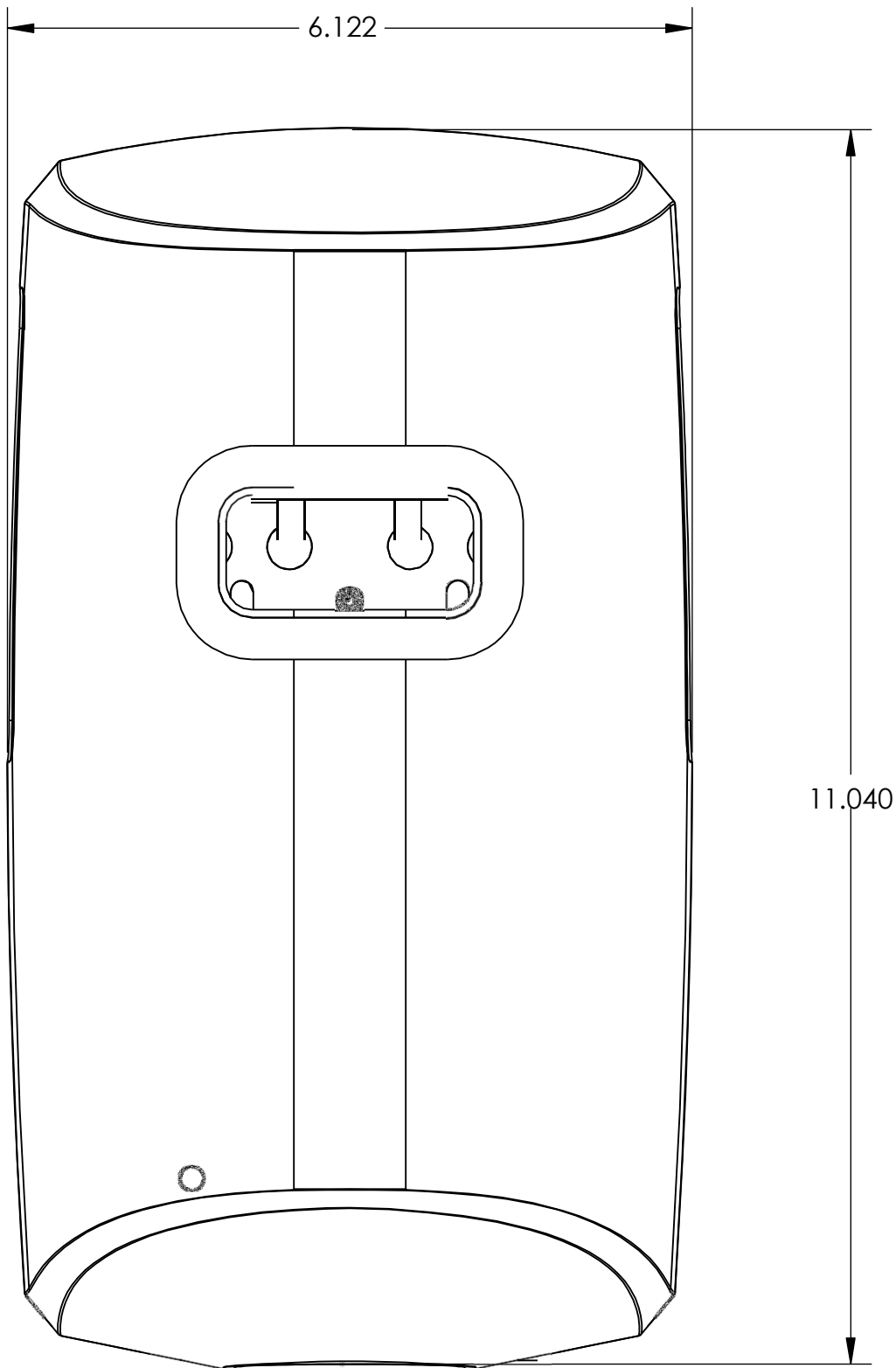
Black - Ecolab # 92021192  
White - Ecolab # 92021193



rd244

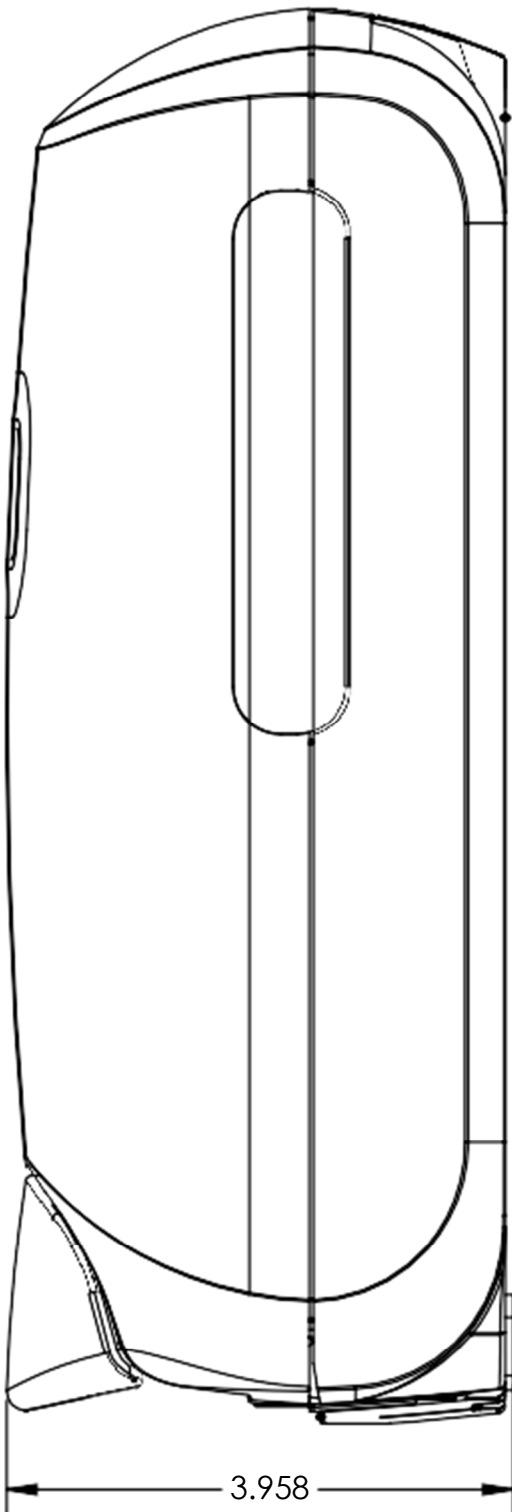
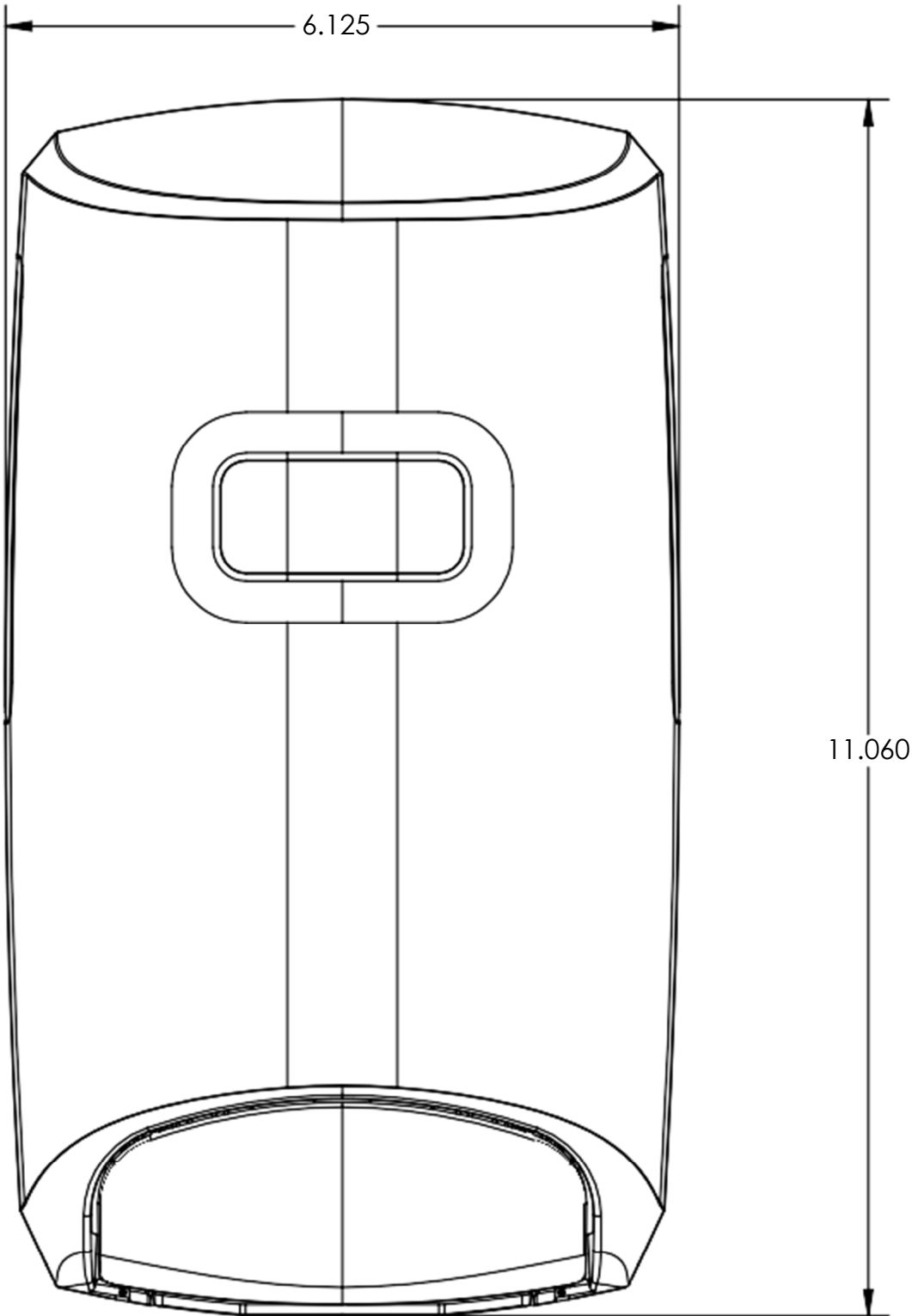
2019-07-08 12:32:11

Black is standard color



Ecolab Nexus Manual Soap Dispensers

Black - Ecolab # 92023091  
White - Ecolab # 92023093



# SANITARY NAPKIN RECEPTACLE WITH RIGID LINER

**Rubbermaid SKU: FG614000WHT**



Product Length - 10.8"

Product Width – 5.2 "

Product Height – 12.5"

Case Pack Quantity – 1

Color – White

Material Type – Plastic

Sanitary Bags – Rubbermaid # 6141



# Hand Care Concentrates Dispenser



## Equipment Installation and Operation Manual

Retain this manual for installation, operation, and servicing.

370 Wabasha Street N. St. Paul, MN 55102  
[www.ecolab.com](http://www.ecolab.com)

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47265/5403/0215  
Part No. 92023314

## 4.0 DISPENSER INSTALLATION

### 4.1 HAND CARE CONCENTRATES DILUTION DISPENSER INSTALLATION

#### LOCATION PRE-INSTALLATION

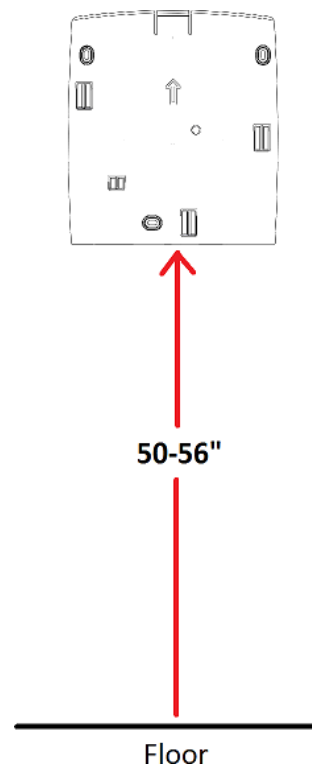
If an installation location does not allow for the space requirements of the dispenser with the refillable bottle installed or provide adequate water conditions an alternative location will be required.

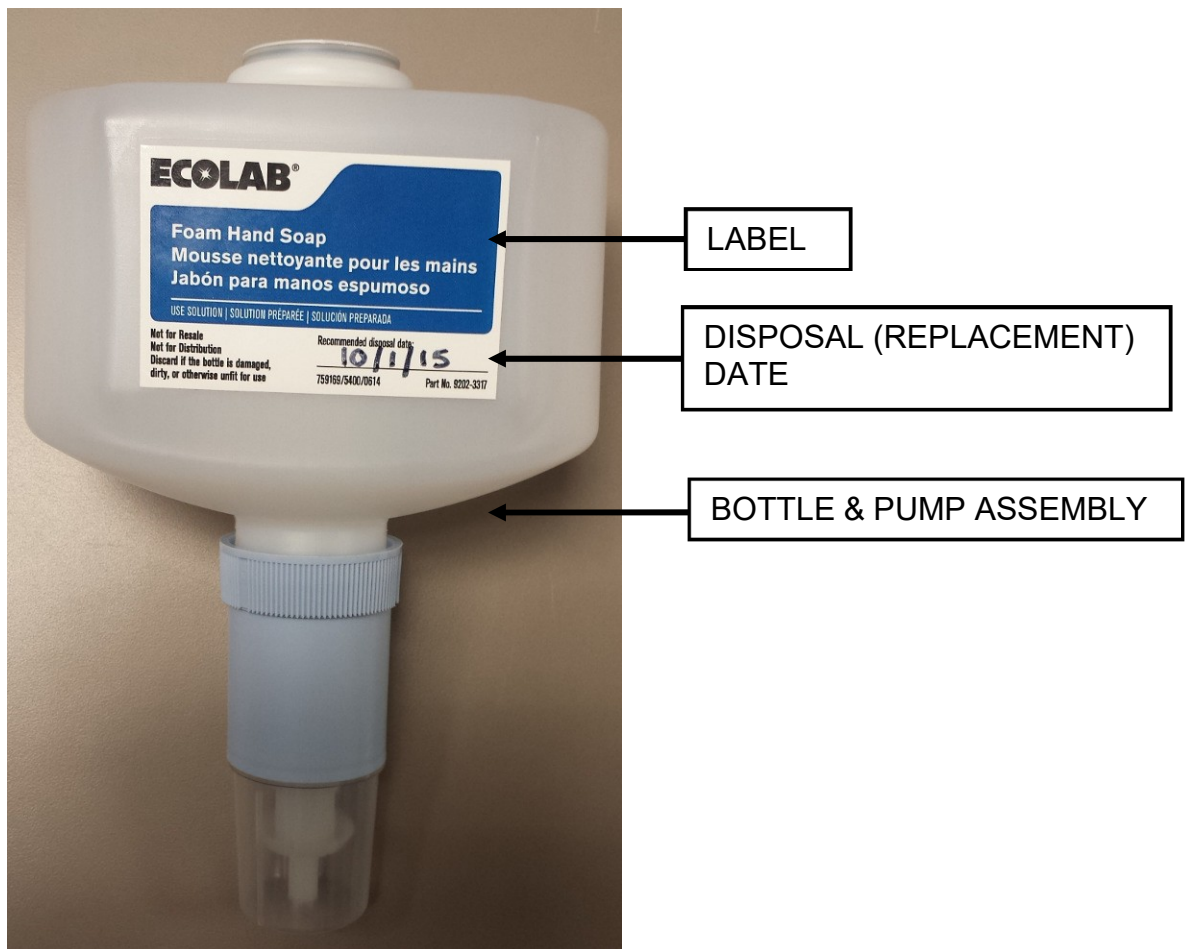
Due to the requirement of consistent dilution, the water supply is required to be above the dynamic operating pressure of the dispenser, a minimum of 10 PSI dynamic pressure is required in the account.

Before ordering or installing equipment perform a pre-install survey of the account. The survey will provide valuable information of the account to prepare for ordering the equipment required for the installation. SEE APPENDIX A FOR THE PRE-INSTALL CHECKLIST

#### INSTALLATION PROCEDURE

- 4.1.1 Remove the dispenser from the packaging. Depress the back plate tab above the battery cradle and lift out the cradle to remove from the dispenser. Remove the back plate from the dispenser enclosure.
- 4.1.2 Determine the general location that the dispenser will be mounted. The recommended mounting height range from the floor to the bottom (Flat edge) of the backplate is between 50-56". In some instances mounting the backplate in the recommended range may not be possible, but it is acceptable to mount it outside the recommended range.





#### 4.8 DISPENSER REMOVAL

- 4.8.1 Remove the concentrated product container from dispenser.
- 4.8.2 Flush the system by connecting a refillable bottle to docking station or place catch container under the docking station outlet. Activate the dispenser by pressing the button on the front door for ~30 second.
- 4.8.3 Turn off main water supply.
- 4.8.4 Lift and remove battery cradle.
- 4.8.5 Remove battery pack from cradle and disconnect connector. Set battery pack and cradle aside.
- 4.8.6 Disconnect the water line to or from the dispenser.
- 4.8.7 Open the product door and remove the single locking screw holding the dispenser to the wall. Close and lock the product door.
- 4.8.8 Lift the dispenser off of the back plate.
- 4.8.9 Remove back plate, unscrewing all mounting screws.
- 4.8.10 Fill holes in walls with silicone caulk or putty. Clean up surrounding area.



