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All of our products are designed and manufactured to high quality standards. To ensure long life and beauty, the product should be cleaned, protected and maintained.

**Cleaning** - Usually stainless steel units that have just been installed will require cleaning after the protective film has been removed. Depending upon how long the units have been in storage prior to installation, a product such as 3M 6041 may be helpful in removing any stubborn vinyl and adhesive residue. Units that are in service generally only require routine cleaning in accordance with the standard wash-rinse-dry-polish procedures applicable for any stainless steel cabinet as detailed in the PCM document.

Stainless Steel should be protected against Muriatic acid and caustic or abrasive materials and harsh cleaning detergents [with a pH outside the range of  $7 \pm 1.0$ ]. In the event such agents cause discoloration, polishing with a stainless steel cleaner such as 3M Stainless Steel Cleaner & Polish® and a soft cloth on bright or mirror finishes, or for satin finish surfaces the SS cleaner and 3M Scotch Brite® pad either blue (less aggressive) or green (more aggressive) pad is recommended.

**Valve Maintenance** - Soap dispensers located in low traffic areas should have the soap dispenser valves wiped down to remove any air-hardened soap residue left on the nozzle spouts. This should be done as part of the day-to-day janitorial maintenance routine. General cleaning on a regular schedule is adequate for soap dispensers in higher traffic areas, with no special attention required. Note: you MUST prime the V-320/V-321 valve in order to start soap flow on initial set-up. Push the valve in and place finger on dispenser spout and let the valve come out. Repeat 5-6 times until the valve starts to dispense liquid soap in hand. Normal refill activity will not require this procedure. See 0390-R OM for complete instructions for the EZ Fill™ cleaning interval function.

**Advice:** Where possible, maintenance staff should use a funnel to pour liquid soaps into soap dispensers to avoid spillage onto units. Where spillage occurs, the soap should be cleaned up immediately. Dispensers with internal plastic tanks require the tank to be removed from the housing during the refilling operation to avoid spillage that could damage electronics and internal components.

**Soap for Liquid Soap Dispensers** - Soap thickness is determined by a measurement called viscosity. Soap viscosity should be within the recommended range for proper soap dispenser operation (refer to the chart in this document for a list of recommended viscosities).

DO NOT use any alcohol or iodine based soap. DO NOT use any pumice type soap, or soaps containing abrasives. Exception for use of liquids/foams containing alcohol: only models 0361, 0362, 20364, and 20365 accept hand sanitizer within their respective required liquid or foam pH and viscosity range.

**Cleaning & Refilling Stainless Steel Soap Tank Dispensers** - Remove the soap dispenser from the wall. Empty all soap from tank and flush tank and valve with warm to hot water. This should remove any particles of dried up soap. Test valve operation with warm water prior to reinstallation on wall. Shake out and wipe off excess water and dry with a soft cloth. The tank should now be ready for placing back into position on the wall and refilling.

**Pre-packaged Soap for Models #5001-SS & #5002**

Procedure for loading 800ml Bag-in-a-Box into typical unit:

1. Load box into unit with nozzle tube facing forward
2. Pull tube/nozzle all the way out of the box after removing cardboard access closure
3. Orient nozzle to cradle if necessary by twisting tube near bag outlet union
4. Reach through door opening and push lever back all the way as far as it goes
5. Seat nozzle into cradle, making sure it remains centered
6. While holding lever back, close door and lock with key
7. Check to ensure that nozzle tip remained in cradle
8. Test operate the unit to ensure proper performance

**All automatic soap dispensers are void of warranty if modified in any way.** Including, but not limited to; use with other than the recommended batteries or AC Adapter where provided, use of improper soap required (as noted on the next page) and/or improper maintenance including failure to follow recommended refilling procedures [container to be pulled away from the unit and cleaned on the outside in the case of any overflow or spills to avoid soap from leaking onto the PCB or into the battery case].

*Note: The above information is a summary*



Part Number	Viscosity Range mPa·s or cP (MilliPascal·sec – Centipoise)	pH Range	Soap/Hand Sanitizer Type
10-0318, 10-0318-A	100 - 2500	5.5 ~ 8.5	Liquid Soap
10-0326	100 - 2500	5.5 ~ 8.5	Liquid Soap
10-0332 (-C, -CD, -D)	50 - 2500	5.5 ~ 8.5	Liquid Soap
10-0334	1 - 3000	5.5 ~ 8.5	Liquid Soap
10-0335	1 - 100	5.5 ~ 8.5	Foam Soap
10-0336, 0336-D	1 - 100	5.5 ~ 8.5	Foam Soap
10-0338	1- 3000	5.5 ~ 8.5	Liquid Soap
10-0339	1- 100	5.5 ~ 8.5	Foam Soap
10-0340	100 - 3500	5.5 ~ 8.5	Liquid Soap
10-0345	100 - 3500	5.5 ~ 8.5	Liquid Soap
10-0346	100 - 3500	5.5 ~ 8.5	Liquid Soap
10-0347	100 - 3500	5.5 ~ 8.5	Liquid Soap
10-0349	50 - 2500	5.0 ~ 9.0	Liquid Soap
10-0350	100 - 2500	5.5 ~ 6.5	Liquid Soap
10-0351	50 - 3500	5.5 ~ 8.5	Liquid Soap
10-0356	150 - 3000	5.5 ~ 8.5	Liquid Soap
10-0360	1 - 3500	5.5 ~ 8.5	Liquid Soap
10-0361	5 - 3500	5.5 ~ 8.5	Liquid Soap or Hand Sanitizer
10-0362	2000 - 5000	5.5 ~ 8.5	Liquid Soap or Hand Sanitizer
10-0371	150 - 3500	5.5 ~ 8.5	Liquid Soap
10-0390-(n)	100 - 3800	5.5 ~ 8.5	Liquid Soap
10-0391-(n)	100 - 3800	5.5 ~ 8.5	Liquid Soap
10-0393-(n)	1 - 100	5.5 ~ 8.5	Foam Soap
10-0394-(n)	1 - 100	5.5 ~ 8.5	Foam Soap
10-0430 10-0430-9	100 - 2500	5.5 ~ 8.0	Liquid Soap
10-0431	100 - 2500	5.5 ~ 8.0	Liquid Soap
10-0661 (-1,-2,-T)	100 – 3000	5.5 ~ 8.5	Liquid Soap
10-0663 (-1,-2,-T)	0 – 100	5.5 ~ 8.5	Foam Soap
10-20333	100 - 3500	5.5 ~ 8.5	Liquid Soap
10-20334	1.5 - 10	5.5 ~ 8.5	Foam Soap
10-20363	1 - 5500	5.5 ~ 8.5	Liquid Soap
10-20364	50 - 3500	5.5 ~ 8.5	Liquid Soap or Hand Sanitizer
10-20365	5 - 1500	5.5 ~ 8.5	Foam Soap or Hand Sanitizer
10-5001-SS	Varies with product and manufacturer chosen; see product MSDS and info	Varies per product	Liquid Soap
10-5002	Varies with product and manufacturer chosen; see product MSDS and info	Varies per product	Liquid Soap
10-6326	100 - 2500	5.5 ~ 8.0	Liquid Soap
10-9326	100 - 2500	5.5 ~ 8.0	Liquid Soap
10-9343	100 - 2500	5.5 ~ 8.0	Liquid Soap