

A close-up photograph of a hand wearing a blue nitrile glove. The hand is turning a large, dark grey, circular dial on a piece of industrial equipment. The dial has a textured surface and a central knob. The background shows other parts of the equipment, including another similar dial and various control panels.

Proportioning & Dispensing Systems Guide

www.dustbane.ca



THE BENEFITS OF USING A PROPORTIONING SYSTEM

Benefit 1: Health & Safety

Not only are chemical dispensers convenient, but they can also help to ensure the health & safety of both staff and customers. The closed loop systems minimize the risk of an employee spilling concentrated chemicals on themselves or inhaling the potentially hazardous fumes, which could happen when mixing chemicals by hand. Since there are no spillages of the chemical concentrate, the chances of slip and fall accidents are also reduced.

In addition to operator safety, your customers will equally benefit from the safety that comes with properly diluted chemicals. For example, if a floor finish is not mixed at the correct dilution rate, this can contribute to sticky or slippery floors. As a result, there is a greater risk of injuries. Similarly, if a disinfectant becomes overly diluted, this could have a negative impact on the performance of the chemical, resulting in the spread of germs and bacteria. Finally, if a chemical is too strong and not sufficiently diluted, this may lead to respiratory issues or skin reactions.

Benefit 2: Cost Savings

The common factor between all the benefits that come along with using a dispensing system is cost. Ultimately, the use of a chemical dispensing system will lead to an increase in cost savings in all aspects. Time savings, waste reduction, mitigated risk of injury, fewer shipments, less inventory, minimal storage space, and greater product control are all factors that contribute to making sure you get a return on your investment in a timely manner.

Benefit 3: Waste Reduction

Chemical dispensing systems reduce the risk of human error by automatically mixing the correct amounts of chemical concentrate and water. As a result, there is no potential for using excess amounts of product and water, or for spillage during the manual pouring process.

In addition to less product waste, users will benefit from a reduction in packaging waste due to the fact that containers of concentrated chemical do not need to be replaced as frequently as their ready-to-use counterparts.

Benefit 4: Time Savings

Thanks to the precise dilution provided by chemical dispensers at the push of a button, operators no longer need to manually mix products, which in turn contributes to more time being spent on the cleaning process as opposed to the preparation of the solution.

Furthermore, the use of improperly diluted chemicals can often lead to having to repeat the work more often or redoing it altogether since the job was not done well the first time. By accurately dispensing the pre-determined dilution rate for the task at hand, you can be sure that your cleaning solution remains consistent and completes the job correctly.

Benefit 5: Time Savings

There are many reasons why dilution systems are an eco-friendly option. Firstly, when you opt to refill your existing reusable bottles with diluted chemical concentrates from a dispenser, this means less packaging compared to always using new bottles of a premixed solution. This in turn reduces excess waste as well as the frequency of shipments required.

Fewer shipments not only translate to lower costs, but also to less fuel being used by shipping providers. Furthermore, the disposal of accurately diluted chemicals ensures that overly concentrated solutions are not making their way into municipal water systems. Although the impact may seem small, these actions can go a long way in reducing your carbon footprint. Lastly, if a company is seeking to be LEED-Certified, the use of a chemical dilution system is an important aspect of that certification process.

To learn more about **The Benefits of Using a Proportioning System**, visit our website to read the full article.

2-In-1 Proportioning Pump

Proportioning pump

This convenient, cost-effective alternative to other proportioning systems attaches directly to any jug or bottle for on-the-spot use. It includes a stopper mechanism that can adjust the unit to dispense either a 15 mL pump or a 30 mL pump.

- Reduces splashing and spills, promoting a safer manual dilution process
- Provides accurate volume with each pump
- Lightweight and portable
- Ideal for diluting chemicals or for attaching to your bulk hand soap for consistent dosage

Code: 51774





Buddy Jug

20 L Jug

The Buddy Jug is an easy to use, commercial-grade jug with a 20 L capacity. The perfect product to optimize your storage space and create a system for filling spray bottles, buckets, or auto-scrubbers.

- Translucent design to quickly see what's inside
- Reduces storage space
- Lightweight and portable with a convenient carrying handle

Code: 51055

RiteFlex

Proportioning system

Offers a portable means of accurately diluting concentrated cleaning products. Simply attach the hose to a water source and effortlessly fill mop buckets, sinks, auto-scrubbers, or empty bottles, all without the need to hold the weight of the container. The RiteFlex can be configured to dilute at almost any rate to create a solution for an unlimited amount of cleaning tasks.

- Install in seconds – no mounting needed
- Requires minimal training, for faster and easy adoption
- Guaranteed measurements improve overall product performance

Code: 51075

DILUTION RATIO	COLOUR	COMPATIBILITY
1:256	LT. ORANGE	M5, Vanguard 256, Excelsior, Oxy-Q,
1:120	PURPLE	Excelsior, Eco-Expert, Emerald, +
1:80	AQUA	Quat Plus, Vanguard, Film Away, Oxy-Q, +
1:64	NAVY	Excelsior, HealthGuard, +
1:40	ORANGE	Oxy D.S.T., Bio-Bac II, Emerald, +
1:20	BEIGE	Oxy D.S.T., Bio-Bac II, Restore, Time-Out Plus, Oxy-Q, +
1:10	RED	Azure, +





Eco Easy Fill

Portable proportioning unit

Simply connect it to a water source and watch the Eco Easy Fill dilute and dispense on the go. With a number of different dilution rates available, this unit can take care of almost all your dilution needs without a heavy-duty wall-mounted system.

- Includes a convenient bucket clip to remove any back strain on the operator
- Colour-coded unit for clear identification of dilution rate
- Closed-loop system for spill-proof use

Code: Various

DILUTION RATIO	COLOUR	CODE	COMPATIBILITY
1:256	GREY	51069	M5, Vanguard 256, Excelsior, Oxy-Q
1:120	GREEN	51093	Excelsior, Eco-Expert, Emerald, +
1:80	BLUE	51092	Quat Plus, Vanguard, Disappear, Oxy-Q, +
1:40	YELLOW	51091	Oxy D.S.T., Bio-Bac II, Emerald, +
1:20	BLACK	51072	Oxy D.S.T., Bio-Bac II, Restore, Time-Out Plus, Oxy-Q, +
1:10	WHITE	51070	Azure, +



AccuMax

Proportioning system

A wall-mounted single-use proportioning system, ideal for facilities using one product to complete multiple cleaning tasks. The AccuMax features a 3.5 GPM flow rate, excellent for mop buckets and pails.

- AccuPro Technology provides consistent dispenses the precise amount of chemicals
- Uses less space
- High-quality dispenser stands up to daily wear and tear
- Easy, tool-free maintenance

Code: H35331

WorldChem System

Proportioning system

The WorldChem sanitation dispensing system automatically dilutes and dispenses concentrated cleaning products in a foaming and/or spraying mode while providing the end user with full volume rinse.

Ideal for use in all heavy duty cleaning applications in food processing, restaurant and commercial kitchens, hospitals, abattoirs, dairies, vehicle washing and many more. Hose and multi-function nozzle sold separately.



Code: H959

EnviroFlex

Proportioning system

The EnviroFlex Proportioner is easy to use and can be installed in just a few minutes. The new model has been redesigned with a sleek modern look. It now includes more accessories, including: 2 wall charts, the standard wall chart as well as the new Oxy-Q system wall chart printed on water resistant no tear paper; standard product labels as well as color coded Oxy-Q labels; the 5 Port Hose Bar for easy conversion to one product dilution; and two new tips: light grey and light purple.

- Consistently dispenses the precise amount of chemicals regardless of water pressure.
- Uses less space
- The system can be configured with 2 (1 GPM) + 2 (3.5 GPM) or 3 (1 GPM) + 1 (3.5 GPM), allowing for product and application flexibility to customize the system to your needs

Code: HSP7983, HSP7984



DILUTION RATIO	TIP COLOUR		COMPATIBILITY
	1 GPM	3.5 GPM	
1:1	NO TIP	NO TIP	Fryer & Griddle, +
1:3	GREY		Expo, Formula-1, Green Kleen, Hygo H ₂ O, +
1:4	BEIGE	GREY	Restore, Dynamite, Green Kleen, Magic, Organic, Power Kleen
1:5		BLACK	Resolve, Champion, Power Kleen, +
1:10	TAN	BEIGE	Azure, +
1:15	GREEN		Surface Kleen Plus, Time-Out Plus, Complex Orange, +
1:20	ORANGE	WHITE	Oxy D.S.T., Bio-Bac II, Restore, Time-Out Plus, Oxy-Q, +
1:30	YELLOW		Complex Orange, Dri-Foam, Dynamite, +
1:40	AQUA	GREEN	Oxy D.S.T., Bio-Bac II, Emerald, +
1:60	PURPLE	BROWN	Power Lift, Power Wash,
1:64	PURPLE	ORANGE	Excelsior, HealthGuard, +
1:80	LIGHT GREY	BROWN	Quat Plus, Vanguard, Disappear, Oxy-Q, +
1:120		YELLOW	Excelsior, Eco-Expert, Emerald, +
1:128	PINK	AQUA	Emerald, +
1:160		PURPLE	Power Lift, Quatromycide V, Triple Action, Bio-Bac Free, +
1:256	LIGHT PURPLE	LIGHT GREY	M5, Vanguard 256, Excelsior, Oxy-Q
1:320		PINK	Neutralizer, +



ModularFlex System

Proportioning system

Code: HSP9184

DILUTION RATIO	TIP COLOUR		COMPATIBILITY
	1 GPM	3.5 GPM	
1:08	TAN	BEIGE	-
1:16	GREEN		M1 Restroom Cleaner
1:32	YELLOW		M1 Restroom Cleaner, M8 Glass Cleaner
1:40	AQUA	GREEN	M6 Oxy-Q
1:80	LIGHT GREY	BROWN	M11 Degreaser, M8 Glass Cleaner
1:160		PURPLE	M11 Degreaser, M6 Oxy-Q, M8 Glass Cleaner
1:256	LIGHT PURPLE	LIGHT GREY	M11 Degreaser, M6 Oxy-Q
1:520		LIGHT PURPLE	-



Format	Code
2 L	50980



M1 Restroom Cleaner Emulsifying Cleaner

Suitable for toilet bowls, urinals and porcelain. It removes encrustations, scale and stains while keeping toilets bright, clean and smelling fresh.

Format	Code
2 L	50982



M6 Oxy-Q Hydrogen Peroxide Based Disinfectant

Over 500 applications. 97% of cleaning needs addressed in one bottle. Non-toxic and safer than chlorine bleach. Cleans, degreases, deodorizes and disinfects.

Format	Code
2 L	50984



M7 Neutral Cleaner Neutral Cleaner & Ice Melt Remover

Reduces slip and fall accidents by eliminating ice melt residue that attracts water. Removes damaging ice melt residue. Neutralize alkaline residue for flawless floor finish application.

Format	Code
2 L	50986



M8 Glass Cleaner Surface & Glass Cleaner

Suitable for mirrors, glass, porcelain, counters and stainless steel. Removes marks, stains, atmospheric grime and smoke haze. Good for sensitive surface cleaning.

Format	Code
2 L	50990



M11 Degreaser Hard Surface Cleaner & Degreaser

Cuts through grease, oil, and heavy soiled surfaces. Suitable for the food service and industrial settings. Solvent free, caustic free.

View our **ModularFlex Cleaning Chart** online for more tips & tricks:





Satellite Sprayers

Proportioning system

Sprayer

Over time, floor finishes can wear down and become dirty, and need to be removed before a new one can be re-applied. Floor stripping is all about completely removing old wax, soil and debris found on the floor. Generally it is one of the most labor intensive and time consuming jobs in the professional cleaning industry.

Code: H5844



Foamer

Over time, floor finishes can wear down and become dirty, and need to be removed before a new one can be re-applied. Floor stripping is all about completely removing old wax, soil and debris found on the floor. Generally it is one of the most labor intensive and time consuming jobs in the professional cleaning industry.

Code: H5824



Ideal For Use With...



Bio-Bac Free Fragrance-Free Multi-Purpose Cleaner

Yielding multiple applications with simple dilutions, Bio-Bac Free offers the ideal cleaning solution for floors, windows, stainless steel, restroom surfaces, and even textiles, reducing your product inventory.



Bio-Bac II Bio-Based Cleaner, Degreaser and Deodorizer

A blend of surfactants and bio-cleaning agents that provides a revolutionary cleaning solution. Penetrates hard surfaces to remove organic soils in a safer and more efficient way.



Clearinse Foaming Cleaner & Degreaser

Primarily designed for areas controlled and inspected by health and safety organizations (e.g. Meat, poultry, and fish processing plant). Can also be used in many other applications.



Power Lift Industrial Degreaser

An industrial grade degreaser highly effective to quickly remove grease, oil, dirt and grime. Offers a performance superior to solvent based cleaners while being safe on all metal and non-metal surfaces, including rubber.



Quat Plus Liquid Disinfectant

A disinfectant and germicidal detergent with the cleaning performance of a neutral quat that eliminates odours. Destroys a wide range of bacteria, fungi and viruses without the harsh smell of chemicals.



Quatromycide V Disinfectant, No Rinse Sanitizer, and Deodorizer

A broad-spectrum disinfectant and sanitizer that has been formulated to aid in the reduction of cross-contamination on treated surfaces in areas of prime importance.

The ECOLOGO® Difference



Reduces Single-Use Plastics
Less is more! Super concentrates allow for reduced packaging and waste.



Safe Ingredients
No ammonia, no petroleum ingredients, no E-glycol ether, and biodegradable.



Look For This Symbol!
Products featuring our "Buy 1 | We Plant 1" logo plant a tree with each purchase.

NEW!

HydroMaster

Drum Proportioner

The HydroMaster is a state-of-the-art wall or drum-mounted system designed to provide efficient water distribution. With its Easily adjust flow rates and optimize water distribution for your products with unmatched accuracy.

- Wall-mounted or drum-mounted
- Works on any sized container
- Allows for up to 20% better dilution accuracy



Code: H206

Ideal For Use With...

Format	Code	Qty
4 L	50206	4
20 L	50208	1
210 L	50209	1







Emerald Hard Surface Cleaner & Degreaser

Its safe yet powerful formula effectively cuts through grease, oil and heavily soiled surfaces. This biodegradable cleaner/degreaser is solvent free.

Format	Code
5 L	53209
20 L	50142
210 L	53211






Resolve Cleaner & Degreaser

An A.P.E. and butyl-free cleaner and degreaser recommended for use on any washable surface where dirt, grease and oily residue become a problem.

Format	Code
5 L	51440
20 L	51349
210 L	51350







Triple Action Cleaner, Degreaser & Disinfectant

Triple Action cleans, degreases, and disinfects in one easy step. Reduce your inventory while simplifying your purchasing decision and maintenance program with this 3-in-1 cleaning solution.

Format	Code	Qty
4 L	50211	4
20 L	50213	1







Excelsior General Purpose Hard Surface Cleaner

Offers a cleaning solution with exceptional performance without the use of harsh chemicals. It offers superior cleaning efficiency therefore reducing labour.

Format	Code
4 L	51369
210 L	51371








Power Wash Pressure Wash Concentrate

An effective cleaner and degreaser designed for the truck and transportation industry, that works quickly with minimal effort. Its foaming formula allows for a prolonged dwell time to loosen dirt, grease and oil.

Format	Code
5 L	51338
20 L	51339
210 L	51340


Surface Klean Plus Cleaner & Degreaser

A highly effective all-purpose cleaner and degreaser, specifically formulated for food industry. Its safe yet powerful formula easily cuts through grease, oil and soils.

Format	Code	Qty
4 L	50238	4
20 L	50239	1





Time-Out Plus Floor Stripper

Time-Out Plus' innovative formula is powerful yet environmentally friendly. It cuts through layers of floor finish and sealers quickly and efficiently, with no fumes or odours.

Format	Code
4 L	51359
20 L	51362
210 L	51363






Power Lift Industrial Degreaser

An industrial grade degreaser highly effective to quickly remove grease, oil, dirt and grime. Offers a performance superior to solvent based cleaners while being safe on all metal and non-metal surfaces, including rubber.

Format	Code	Qty
4 L	52012	4
20 L	52013	1
210 L	52006	1





Champion ★★★ Powerful Super Stripper

Champion's innovative formula effectively penetrates and power strips floor finish and sealer quickly and efficiently with minimal effort.



NEW!

HydroPump

Push-Pump Chemical Dispenser

The HydroPump is an innovative push pump designed specifically for dispensing cleaning chemicals into sinks, buckets, or other cleaning containers. Unlike traditional methods, the HydroPump doesn't require a water hook-up. It ensures precise dosing of both viscous and non-viscous cleaning solutions, offering exceptional accuracy. Choose between a directional spout or standard tubing for the discharge, giving you versatile options to meet your needs effectively.

- No water hook-up required
- Use to dilute any of your cleaning chemicals



Code: H616



Dilution Chart

Use this chart to determine the chemical to water ratio. The smaller number is the parts of chemical, while the large number is the parts of water.

DILUTION RATIO	15 ML PUMPS / L	30 ML PUMPS / CAD GAL	ML / L	OZ / CAD GAL	OZ / US GAL
1:1	66.5	33.25	1000	160	128
1:2	33	16.5	500	80	64
1:3	22	11	333	54	43
1:4	16.5	8.5	250	40	32
1:5	13.5	6.5	200	32	26
1:10	6.5	3.5	100	16	13
1:12	5.5	2.5	84	13.5	11
1:15	4.5	2	67	11	9
1:20	3.5	1.5	50	8	7
1:30	2	1	34	6	5
1:40	1.5		25	4	4
1:50	1		20	3.2	3
1:60	1		17	2.7	2
1:64	1		16	2.5	2
1:80			12.5	2	1.6
1:100			10	1.6	1.3
1:120			8.5	1.35	1
1:128			8	1.25	1
1:160			6.25	1	0.8
1:256			4	0.63	0.5
1:320			3.25	0.5	0.4
1:500			2	0.32	0.3

Helpful Tips:

When diluting chemicals, you might find it helpful to fill your container with the proper amount of water, then adding the concentrated chemical. By adding water to the chemical, you may not only create an excessive amount of foam but you risk splashing the concentrated chemical on yourself. Always remember to label your trigger sprayer bottle with a label that reflects its content.

IMPORTANT:

Certain maintenance procedures and products may vary according to type, grade, age, and condition of flooring. This chart attempts to give you a general indication of which products will give you the best results. Data subject to change without notice.



Use and wear protective equipment or clothing required by the employer. The use of protective gloves and safety glasses is highly recommended.



Refer to product label and SDS before use. For complete product information, please consult www.dustbane.ca.



Vision

To be a growth company focused on continuously improving the customer experience through our people, products, and processes while making a positive impact on society and the environment.



Customer Intimate

Meet customer expectations.



Execute

Deliver results.



Growth

Be a high growth company where staff also grow professionally.



Respectful & Inclusive

Show all stakeholders respect.
Communicate effectively and listen to learn from others.



Meaning

Positively impact people and the planet.



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