



The future of chemical-free cleaning



**TOUCAN ECO
RANGE**



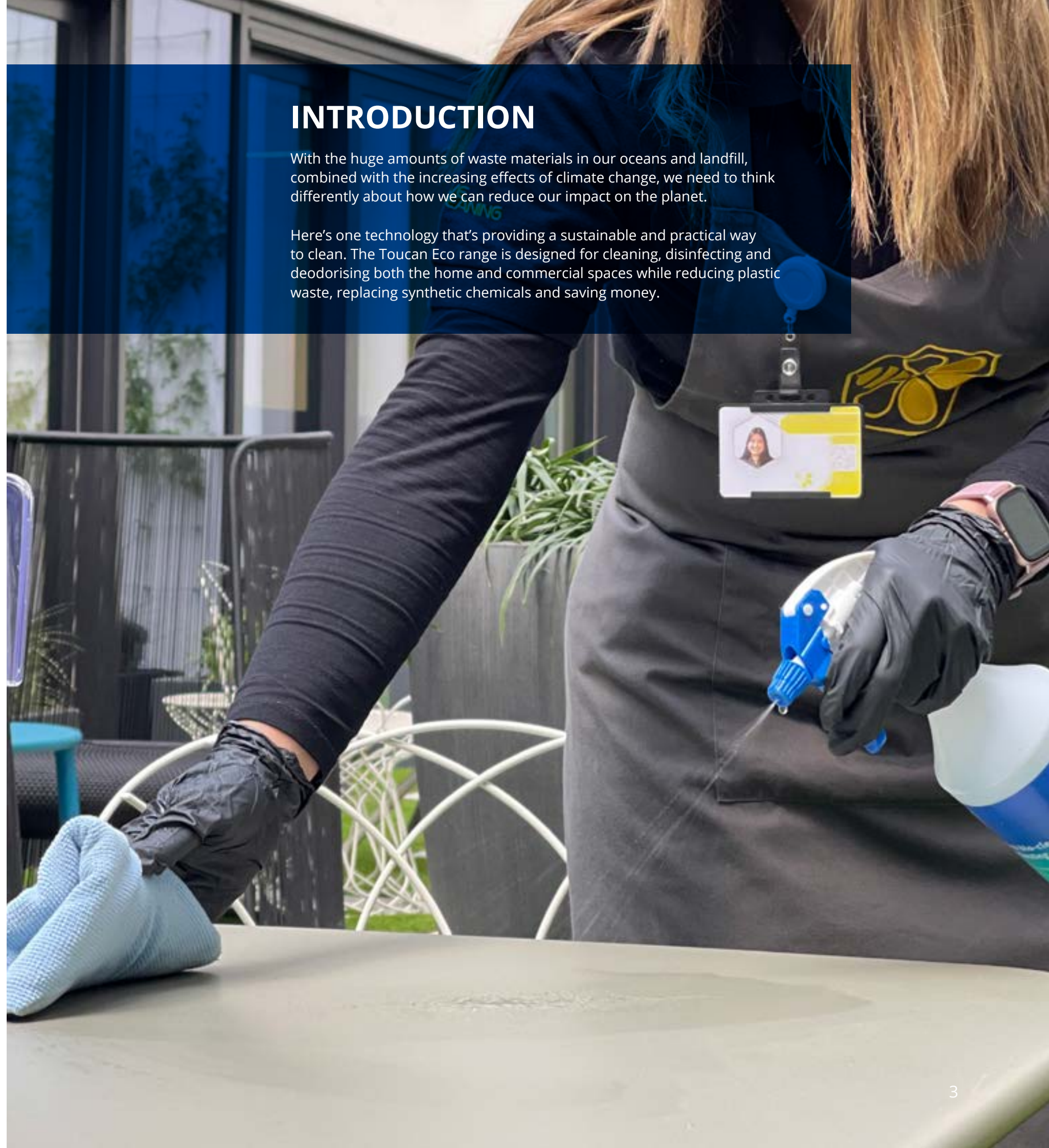
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INTRODUCTION

With the huge amounts of waste materials in our oceans and landfill, combined with the increasing effects of climate change, we need to think differently about how we can reduce our impact on the planet.

Here's one technology that's providing a sustainable and practical way to clean. The Toucan Eco range is designed for cleaning, disinfecting and deodorising both the home and commercial spaces while reducing plastic waste, replacing synthetic chemicals and saving money.



Good business is a sustainable business

The systems, designed for in-situ use, have the benefits of ultra-low carbon emission footprints when compared with purchased synthetic chemicals, low operational costs, and improved health and safety for users and environments.

Solutions generated by the systems include:

- Hypochlorous acid (HOCl) – a powerful but safe pH-neutral biocide with very rapid contact times and high efficacy.
- Mixed oxidant solution (MOS) – active substances of sodium hypochlorite (NaOCl) and hypochlorous acid a combined biocide and cleaning agent at pH8.2 – pH8.5.
- Sodium hydroxide (NaOH) – a cleaning agent and surfactant at pH13 – pH14

Deciding which system is optimum for your business

The first steps in choosing the optimum device for your organisation is establishing what applications are required, what solutions would deliver the efficacy and cleaning performance required, and deciding how much solution is needed on a daily, weekly, monthly basis.

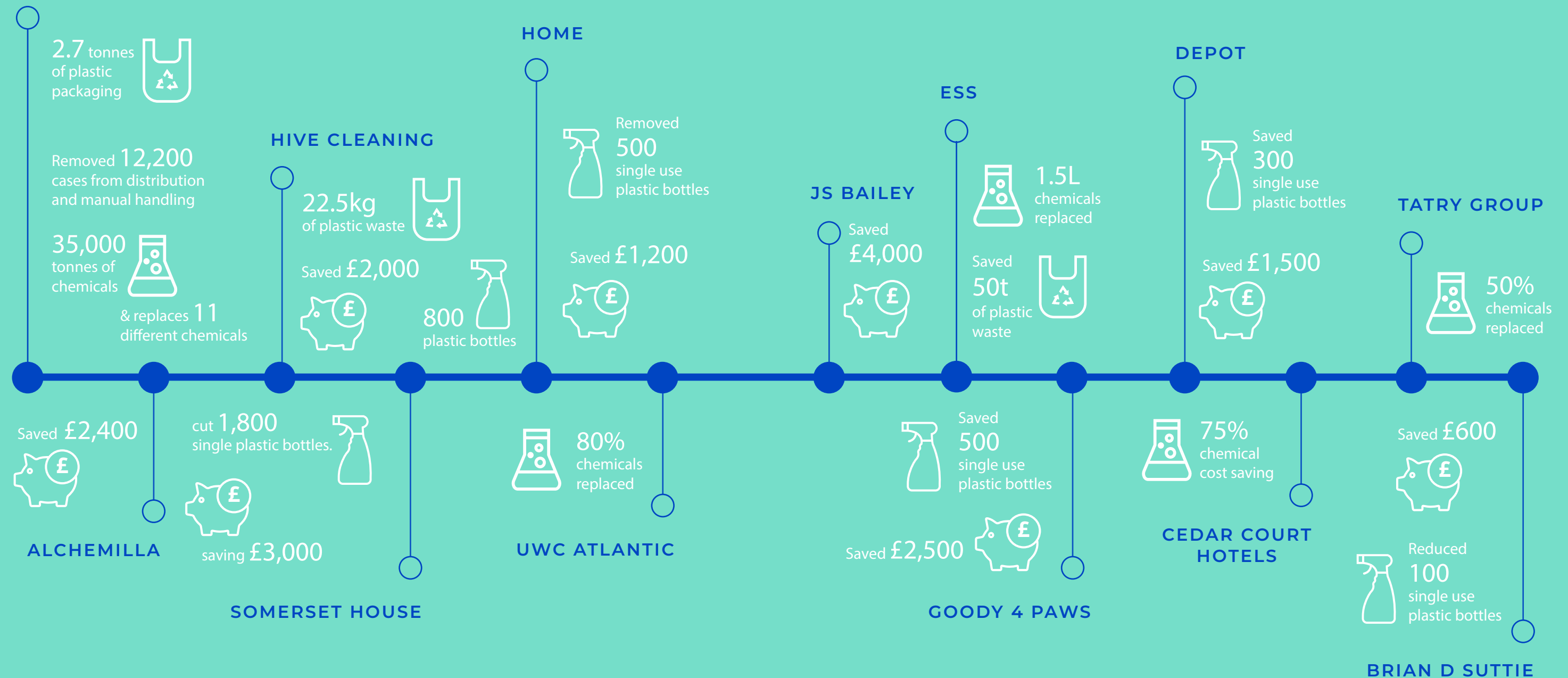
Decisions should also take into account corporate initiatives to reduce carbon emission footprints and environmental impacts, Return on Investment and payback periods, and considerations of the health and safety of users, staff and the public.

These systems carry the appropriate biocides and safety regulatory listings and certifications in multiple countries. The solutions generated are tested by independent accredited laboratories to EN standards for efficacy performance on multiple microorganisms.



In one year, with help from Toucan Eco, these companies have saved...

THE RESTAURANT GROUP



TOUCAN ECO ESPRAY



Toucan Eco eSpray

The domestic eSpray model makes 350ml of the powerful, safe and eco-friendly disinfectant cleaner in 5 minutes. The kit includes the eSpray, measuring spoon and funnel, USB cable and user guide.

104744 350ml 1



Capacity: 350ml
Active substances: mixed oxidant solution of hypochlorous acid (HOCl) and sodium hypochlorite (NaOCl)
Concentration: 125ppm pH7.5-pH8.5
Activation cycle: 5 minutes
Salt consumption: 3g/l
Power rating: 10W 5V 2A via USB port
Stand-alone/desk-top
Dimensions: H280mm x W90mm x D90mm
Suitable for: domestic use for general cleaning and disinfection applications

TOUCAN ECO WORKTOP



Toucan Eco Worktop

Designed for cleaning smaller workplaces. It makes one litre of eco-friendly and multipurpose antibacterial cleaner in five minutes. The kit includes the 1 litre activation unit, measuring spoon, mixing rod, spray bottle and salt.

104004 1L 1



Capacity: 1L
Active substances: mixed oxidant solution of hypochlorous acid (HOCl) and sodium hypochlorite (NaOCl)
Concentration: 100ppm pH7.5-pH8.5
Activation cycle: 5 minutes
Salt consumption: 2g/l
Power rating: 27W
Stand-alone/desk-top
Dimensions: H290mm x W150mm x D150mm
Suitable for: small commercial facilities for general cleaning and disinfection applications

CENTREGO RENEW



Centrego Renew

Designed for small workplaces and cleaning on the go, the Renew makes two litres of normal or double strength solution in four or eight minutes. Includes the jug and activation base, atomiser spray bottle and spoon.

104977 2L 1



Capacity: 2L

Active substances: mixed oxidant solution of hypochlorous acid (HOCl) and sodium hypochlorite (NaOCl)

Concentration: 125-250ppm pH7.5-pH8.5

Activation cycle: 4 or 8 minutes

Salt consumption: 4 or 8g/l

Power rating: 33W

Stand-alone/desk-top

Dimensions: H320mm x W200mm x D230mm

Suitable for: small to medium-sized commercial facilities for general cleaning and disinfection applications

TOUCAN ECO ACTIVE & ACTIVE PLUS



Toucan Eco Active

Suitable for small to medium-sized facilities, and produces 10 litres of solution in around 15 minutes. The system includes a generator, 10 litre tank, brine salt dispenser, discharge tap and shelf.

104540 10L 1

Capacity: 10L

Active substances: mixed oxidant solution of hypochlorous acid (HOCl) and sodium hypochlorite (NaOCl)

Concentration: 100ppm pH7.5 - pH8.5

Activation cycle: 20 minutes

Salt consumption: 1g/l

Power rating: 100W

Dispensing via discharge tap

Dimensions: H550mm x W550mm x D160mm

Suitable for: medium-sized commercial applications



Toucan Eco Active Plus

Suitable for medium sized facilities and one activation, which takes around 40 minutes, produces 20 litres of antibacterial cleaner, which can be poured into bottles or buckets using either of the dilution dispensers. Includes a generator, 5 litre tank, brine salt dispenser, discharge tap and shelf.

104541 20-30L 1

Capacity: 20-30L

Active substances: mixed oxidant solution of hypochlorous acid (HOCl) and sodium hypochlorite (NaOCl)

Concentration: 100ppm pH7.5 - pH8.5

Activation cycle: 40 minutes

Salt consumption: 2g/l

Power rating: 100W

Dispensing via spray bottle and bucket/container fillers

Dimensions: H550mm x W600mm x D160mm

Suitable for: medium-sized commercial facilities for general cleaning and disinfection applications

TOUCAN ECO FLOW & RANGE



Toucan Eco Flow

Suitable for large facilities. Automated to produce a constant flow of disinfectant cleaner. It can also be configured for cleaning and disinfecting solutions. Includes a touch screen unit, holding tanks, high volume dispensing nozzle for buckets and scrubber dryers, low-volume nozzle for spray bottles, and marine grade stainless steel frame and castors.

104292 400L 1

Membrane cell system

Fully integrated system with water softener, holding tanks and dispensers, mounted on 316-grade stainless steel frame.

Capacity: 400L

Active substances: hypochlorous acid (HOCl) from the anode and sodium hydroxide (NaOH) from the cathode

Outputs: Flow-40 Plus @ 40ls/hr, Flow-120 Plus @ 120ls/hr

Concentration: 500ppm HOCl pH 6.5-7.2

Salt consumption: 2gm/l

Power rating: 1.1kW-1.8kW

All-in-one integrated solution for ECA production

Dimensions: H1840mm x W660mm x D490mm

Suitable for: large facilities, cruise ships and industrial processes

Equipment: range of ancillary equipment for solution storage, dispensing and dosing

Control: full telemetry is available for remote monitoring, recording and control



Toucan Eco Bio Carry

Capacity: Up to 10L

Active substances: mixed oxidant solution of hypochlorous acid (HOCl) and sodium hypochlorite (NaOCl)

Concentration: up to 250ppm

Salt consumption: 1-2gm/l

Power rating: 240V mains or 12V solar-powered battery

Dimensions: H350mm x W450mm x D120mm

Portable field unit for remote locations or emergency response and disaster relief generation of mixed oxidant solutions

TOUCAN ECO RANGE



Toucan Eco Active Plus Auto

Capacity: 20-30L

Active substances: mixed oxidant solution of hypochlorous acid (HOCl) and sodium hypochlorite (NaOCl)

Concentration: 100ppm pH7.5-pH8.5

Activation cycle: up to 40 minutes

Salt consumption: 2g/l

Power rating: 600W

Dispensing via spray bottle and bucket/container nozzle

Dimensions: H650mm x W480mm x D250mm

Suitable for: medium-sized commercial facilities for general cleaning and disinfection applications



Centrego Flow 40 - 120, 200, 400, 600, 1000, 1200

Membrane cell system

Active substances: mixed oxidant solution of hypochlorous acid (HOCl) and sodium hypochlorite (NaOCl)

Outputs: 40ls/hr, 120ls/hr, 200ls/hr, 400ls/hr, 600ls/hr, 1000ls/hr and 1200ls/hr

Concentration: 500ppm HOCl pH 7.2, NaOH pH10.5

Power rating: 1.1kW-8kW

Salt consumption: 2g/l

Dimensions: (Flow-40 and 120) H740mm x W550 x D330mm

Dimensions for Flow 200 upwards on request, dependant on specification

Suitable for: large facilities, cruise ships and industrial process water

Equipment: range of ancillary equipment for solution storage, dispensing and dosing

Control: full telemetry is available for remote monitoring, recording and control



Centrego Flow Series - with ancillary equipment

Membrane cell system

Active substances: hypochlorous acid (HOCl) from the anode and sodium hydroxide (NaOH) from the cathode

Outputs: 40ls/hr

Concentrations: 500ppm HOCl pH 7.2, NaOH pH10.5

Power ratings: 1.1kW

Salt consumption: 2gm/l

Suitable for large facilities, cruise ships and industrial processes.

Equipment: range of ancillary equipment for solution storage, dispensing and dosing

Control: full telemetry is available for remote monitoring, recording and control

Dimensions: for Flow series dependant on specification

Suitable for: large facilities, cruise ships and industrial processes

TOUCAN ECO RANGE



Centrego 5K20, 5K40, 5K120

Non-membrane cell system with inputs of either water + brine, sea water, or a combination
Fully integrated system with water softener, holding tanks and dispensers, mounted on a 316-grade stainless steel frame
Active substances: mixed oxidant solution of hypochlorous acid (HOCl) and sodium hypochlorite
Outputs: 5K20 20ls/hr, 5K40 40ls/hr and 5K120 120ls/hr
Concentration: 5000ppm mixed oxidants pH8.2-pH8.5
Salt consumption: 20g/l
Power rating: 1.5kW-6kW
Control: full telemetry is available for remote monitoring, recording and control
Dimensions: H1740mm x W860mm x D530mm
Suitable for: industrial process water, water treatment and CIP



Centrego 5K200, 5K400

Non-membrane cell system with inputs of either water + brine, seawater, or a combination
Fully integrated system with water softener, mounted on a 316-grade stainless steel frame
Active substances: mixed oxidant solution of hypochlorous acid (HOCl) and sodium hypochlorite
Outputs: 5K200 200ls/hr, 5K400 400ls/hr
Concentrations: 5000ppm (adjustable) mixed oxidants pH8.2-pH8.5
Salt consumption: 20gm/l
Power rating: 8kW-16kW
Control: Full telemetry is available for remote monitoring, recording and control
Dimensions : 800mmH x W1000 x D780mm
Suitable for: industrial process water, water treatment and CIP & for marine applications using seawater



Centrego NaOH Flow-20 Generator

Membrane cell system with inputs of water + brine
Active substance: sodium hydroxide and hypochlorous acid
Outputs: Flow-20 20ls/hr NaOH, 0.1ls/hr HOCl
Concentration: 3000ppm catholyte (NaOH) at pH13.0-pH13.5
Concentration: 3000ppm HOCl at pH2.5-pH3.0
Salt consumption: 4gms salt per 1g NaOH
Power rating: 1.8kW
Control: Full telemetry is available for remote monitoring, recording and control
Dimensions : H740mm x W550 x D330mm
Suitable for: industrial process wash-water, water pH balancing and CIP

TOUCAN ECO RANGE



Centrego NaOH Flow-20 Plus Generator

Membrane cell system with inputs of water + brine
Fully integrated system with water softener, holding tanks and dispensers mounted on a 316-grade stainless steel frame.
Active substance: sodium hydroxide and hypochlorous acid
Outputs: Flow-20 20ls/hr NaOH, 1ls/hr HOCl
Concentration: 3000ppm catholyte (NaOH) at pH13.0-pH13.5
Concentration: 3000ppm HOCl at pH2.5-pH3.0
Salt consumption: 4g salt per 1g NaOH
Power rating: 11.8kW
Control: Full telemetry is available for remote monitoring, recording and control
Dimensions : H1840mm x W660 x D490mm
Suitable for: industrial process wash-water, water pH balancing and CIP



Centrego NaOH Flow-155 Generator

Membrane cell system with inputs of water + brine
Active substance: sodium hydroxide and hypochlorous acid
Outputs: Flow-155 155ls/hr NaOH, 1ls/hr HOCl
Concentrations: 3000ppm catholyte (NaOH) at pH13.0-pH13.5
Concentration: 3000ppm HOCl at pH2.5-pH3.0
Salt consumption: 4g salt per 1g NaOH
Power rating: 7kW
Control: Full telemetry is available for remote monitoring, recording and control
Dimensions : H2000mm x W665 x D400mm
Suitable for: industrial process wash-water, water pH balancing and CIP



Centrego NaOH Flow-1000 Generator

Membrane cell system with inputs of water + brine
Active substance: sodium hydroxide and hypochlorous acid
Outputs: 1000ls/hr NaOH, 5ls/hr HOCl
Concentrations: 3000ppm catholyte (NaOH) at pH13.0-pH13.5
Concentration: 3000ppm HOCl at pH2.5-pH3.0
Salt consumption: 4g salt per 1g NaOH
Power rating: 380 VAC/3-Phase.
Total power usage: 12V, 3600A. 43kW
Control: Full telemetry is available for remote monitoring, recording and control
Dimensions : H2000mm x W2250mm x D400mm
Suitable for: industrial process wash-water, water pH balancing and CIP

NaOH flow 1000 generators are available in modular form adding 155 or 310 ls/hr capacity for each additional module.

* Dimensions and overall design may vary dependant on applications.

HOW TO CLEAN WITH TOUCAN ECO RANGE



1 Surfaces & equipment

2 Stainless steel, windows & glass

3 Textiles & carpets

4 Hard floor

5 Washroom

What is it used for?

- ✓ It's a multipurpose antibacterial disinfectant cleaner that kills up to 99.999% of germs and is ideal for daily cleaning.
- ✗ It doesn't replace strong degreasers and descalers.

Toucan Cleaning

- Will clean all hard surface areas and remove low level organic matter
- Leaves clean, polished surfaces
- Will remove stains from fabrics and carpets
- Will not bleach, leave smears or watermarks
- Cleans & disinfects in a single application
- Non-hazardous, Non-toxic, Non-irritant, Non-allergenic
- Environmentally sensitive and sustainable
- Compliant to European & British standards EN14476 & EN16777 to EN1276 & EN13697
- Registered under the European Chemicals Agency (ECHA) Biocide Regulations Article 95'

How to use



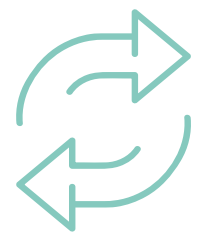
Spray, wipe or mop

To use, simply spray, wipe or mop any surface, including glass and fabrics as part of your normal cleaning practices.



Apply as a mist

It also works as a deodoriser, you can apply it as a mist for disinfecting large areas and it's great for scrubber dryers.



And repeat

Once you've run out or before the solution reverts back to salty water – you simply make more.

CENTREGO MICROBIOLOGICAL TEST CERTIFICATES: August 2023

Centrego holds the following microbiological test reports for its systems and solutions:

Test Certificate	Test Type	Environment	Microorganism Species	Contact Time	Log and %age Reduction	Concentration	Pass
EN1276 (2019)	Bacterial activity	Evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas.	Pseudomonas aeruginosa Escherichia coli Staphylococcus aureus Enterococcus hirae	1 min	<div> <div>≥Log 5</div> <div>99.999%</div> </div> <div> <div>≥Log 5</div> <div>99.999%</div> </div> <div> <div>≥Log 5</div> <div>99.999%</div> </div> <div> <div>≥Log 5</div> <div>99.999%</div> </div>	<div>100ppm</div> <div>100ppm</div> <div>100ppm</div> <div>100ppm</div>	<div>Pass</div> <div>Pass</div> <div>Pass</div> <div>Pass</div>
EN 14476:2013+A3:2019	Viricidal activity	This European Standard applies to products that are used in the medical area in the fields of hygienic handrub, hygienic handwash, instrument disinfection by immersion, surface disinfection by wiping, spraying, flooding or other means and textile disinfection. This European Standard applies to areas and situations where disinfection is medically indicated. Such indications occur in patient care, for example: - in hospitals, in community medical facilities, and in dental institutions; - in clinics of schools, of kindergartens, and of nursing homes; and may occur in the workplace and in the home. It may also include services such as laundries and kitchens supplying products directly for the patients.	Modified vaccinia virus Ankara (MVA) Enveloped virus	<div>5 mins</div> <div>1 min</div>	<div> <div>>Log4</div> <div>99.99%</div> </div> <div> <div>>Log4</div> <div>99.99%</div> </div> <div> <div>>Log4</div> <div>99.99%</div> </div> <div> <div>>Log4</div> <div>99.99%</div> </div> <div> <div>>Log4</div> <div>99.99%</div> </div> <div> <div>Log3.98</div> <div>99.98%</div> </div>	<div>500ppm</div> <div>200ppm</div> <div>100ppm</div> <div>500ppm</div> <div>200ppm</div> <div>100ppm</div>	<div>Pass</div> <div>Pass</div> <div>Pass</div> <div>Pass</div> <div>Pass</div> <div>Pass</div>



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