

# Mopping Products for Critical Environments





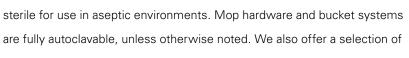


## **Contec® Mopping Systems**

The most complete line of cleaning tools for cleanrooms and controlled environments.

Over the past 27 years, Contec has developed the most complete line of mopping and cleaning products for critical environments. Whether disinfecting or cleaning

floors, walls, ceilings, or inside bio-safety cabinets and isolators, Contec has a mop or cleaning tool that meets the demanding requirements of today's high-tech industries. Many of our mops are available validated



mops and buckets for customers with limited storage space.

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Note: Sterile part numbers are in blue throughout this brochure.





## Cleaning and Disinfecting in Critical Environments

Pharmaceutical mopping systems need to effectively remove both non-viable and viable contamination, be capable of applying a disinfectant or detergent, dislodging biofilms, removing residues, suitable for autoclaving or sterilization, ergonomically friendly, and easy to use and not contribute to the overall bioburden or generate additional particulates. They also need to be compatible with a wide range of disinfectants, including sporicides, which are potentially aggressive chemicals.

Mop heads and mop head covers made from different substrates with varying properties may be required for different classes of cleanrooms. It may also be beneficial to have a choice of mop head frames as tasks have different requirements, whether it is reaching high ceilings with telescopic handles, or smaller heads for use in isolators and mini-environments, or tools designed for cleaning around fitted equipment and benches.

Contec has one of the widest ranges of mop heads, mop head frames, and telescoping handles allowing you to choose exactly the right product for each job and cleanroom area.

#### Cleaning

Surfaces with high levels of soil or residues from disinfectants will have a detrimental effect on the disinfectant used. Starting with a surface free of non-viable contamination may mean a less aggressive disinfectant can be employed.

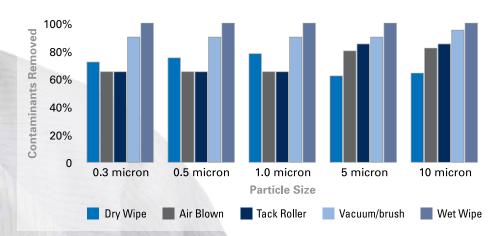
The objective of cleaning is to reduce the amount of non-viable contamination, such as dust, dirt, light oils in a cleanroom to a visibly clean state. Although the amount of gross soil even in the lowest grade of pharmaceutical cleanroom is minimal compared with other industries, cleaning must be carried out on a regular basis.

Cleaning with a mopping system helps dislodge and remove any biofilm formation which will also inhibit the efficacy of a disinfectant.

Some common methods for the general cleaning of hard surfaces are shown in the diagram below. The comparison shows that cleaning with a pre-wetted wipe or mop is the most efficient way to remove contamination from a hard surface.

Ideal mopping systems for cleaning need to be able to apply suitable aqueous cleaner in sufficient quantities to walls, floors, and ceilings to ensure any potential soils and disinfectant residues are removed. Mop heads with a certain level of abrasion will help to remove any potential biofilms that have formed on the surface. For spill control a mop with outstanding absorption and fluid retention properties is required to prevent the contamination from being spread across the surface.

#### Cleaning Effectiveness Method Comparison<sup>1</sup>





"Regardless of the efficacy of the disinfectants selected, if appropriate consideration is not given to cleaning and disinfection techniques, the overall success of the bio-decontamination process will be compromised."

#### Disinfection

Regardless of the efficacy of the disinfectants selected, if appropriate consideration is not given to cleaning and disinfection techniques, the overall success of the bio-decontamination process will be compromised.

The goal of disinfection is to reduce the viable contamination within the cleanroom to a predefined level. This accepted level of viable contamination is specified very clearly within the FDA Guidance for Industry<sup>2</sup>. Even if a very powerful disinfectant is being used, unless it is correctly applied to the cleanroom with even coverage, over all surfaces, without missing any areas; even if they are hard to reach, then the effectiveness of the overall disinfection process will be compromised.

Pharmaceutical and biotechnology cleanrooms have very specialized requirements that cannot be met by general janitorial cleaning products.

#### FDA GMP Air Classifications - Recommended Limits<sup>3</sup>

Clean Area Classification (0.5 um particles/ft <sub>3</sub> )	ISO Designation	> 0.5 µm (particles/m³)	Microbiological Active Air Action Levels (cfu/m³)	Microbiological Settling Plates Action Levels (diam. 90mm;cfu/4 hours)
100	5	3,520	1	1
1000	6	35,200	7	3
10,000	7	352,000	10	5
100,000	8	3,520,000	100	50

If a poor mop and bucket system is chosen, it can be difficult or uncomfortable to use, quickly leading to operator fatigue. Therefore, a robust bio-decontamination will not be achieved.

#### Cleaning and Disinfection

It is very difficult to recommend a cleaning and disinfection regimen as it depends on many factors. The protocols and their frequency should be the result of validation through environmental monitoring of the cleanroom. There are, however, some points which are always relevant:

- Products used in pharmaceutical critical areas (Grade A and B zones) should be Validated Sterile prior to use.3
- Cleaning and disinfection should be carried out by trained operators according to written protocols and standard operating procedures (SOPs).
- Horizontal surfaces will require more frequent cleaning and disinfection than vertical surfaces.
- More critical cleanrooms and product contact areas will need more frequent cleaning and disinfection.
- Areas which experience high levels of activity will need more frequent cleaning and disinfection.

(1) Cleaning Effectiveness Method Comparison: Contec Presentation 1996: D Nobile

(2) Guidance for Industry Sterile Drug Products Produced by Aseptic Processing —Current Good Manufacturing Practice, Sept.2004 Pharmaceutical CGMPs3) ISO 14644-1: Cleanrooms and Associated Controlled Environments, Classification of Air Cleanliness (3) Code of Federal Regulations Title 21, Volume 4, Revised as of April 1, 2013, 211CFR211.56 Sanitation







## Edgeless® Mopping System

Traditional and textured polyester tube mops are the cleanest floor mopping system available for critical environments!

Edgeless Mops are made from strong, durable knitted polyester, eliminating contamination from breakage deterioration common with cotton and rayon string mops. Cleanroom laundered Edgeless Mops are made from a continuous tube of 100% polyester knitted fabric looped to form tubular mop strands that will not shed or break.

Edgeless Mops are available in two tubular knit constructions. The non-textured tube found in our traditional Edgeless Mop offers durability on rough or textured surfaces. Our patented Textured and Long Textured Edgeless Mops are made with unique ribbed, twisted strands that provide additional sorbency.

All mops feature polyester tail bands for a more controlled mopping motion. Colored tail bands are available to distinguish

between areas and reduce the possibility of cross contamination.

Standard Edgeless Mops and Textured Edgeless Mops are available sterilized by gamma radiation and validated per the AAMI/ISO Guidelines to a 10-6 SAL. Validation reports available upon request. Edgeless Mops can also be sterilized by ETO and steam (autoclave) sterilization methods.

with Designed for use aqueous solutions containing cleaning agents and disinfectants, Edgeless Mops are compatible with a wide range of chemicals. These mops work well with existing string mop hardware; however, we highly recommend a down-press wringer for proper liquid extraction.

Contec offers several compatible bucket systems for all styles of Edgeless Mops. Please see pages 12-16 for bucket options.

#### **APPLICATIONS**

- Designed for semiconductor, pharmaceutical, biotech, and medical device industries for lab clean up and process area cleaning.
- Ideal for general purpose cleaning in ISO Class 3 as well as less critical environments.
- Designed for wet/damp mopping.
- Rugged polyester construction is ideal for tough cleaning tasks.
- Compatible with a wide range of chemicals and disinfectants.



Features	Benefits
All Edgeless® Mops	
100% Polyester fiber construction	Durable and chemical resistant; resistant to mold and mildew
Continuous loop of mop strands	Provides improved cleanliness, eliminating cut edges.
Tail band	Improved control of mopping motion. Easier mopping around table and equipment legs and wheels.
Textured large head band	Provides scrubbing power for difficult stains and debris.
Chemical resistant	Compatible with wide range of chemicals and disinfectants.
Original Edgeless® Mop	(68300-353, 68310-119)
Available Validated Sterile	Assured sterility; complete validation documentation available
Textured Edgeless® Mop	(80080-578, 80080-582)
Mop strands with enhanced rib design	Twisted strands increase sorbent capacity of mop.
Available Validated Sterile	Assured sterility; includes proper documentation
Long Textured Edgeless® Mop	(89497-298, 10022-276, 10022-244, 10022-250, 10022-248)
100% Polyester fiber construction	Durable; eliminates cotton mop fibers that can be a food source for mold and bacteria in the facility.
Rugged knitted construction	Lasts up to 10 times longer than traditional mops. Can be laundered or processed in commercial washers.
Longer mop head	Holds more liquid for mopping larger areas and allows greater access under equipment.
Colored tail band	Allows for designation of mops to specific areas within the same facility.
Covered by US patent No. 7389559	

Contec's Long Textured Edgless Mops (EL5 Series) feature colored tail bands for area segregation to eliminate the possibility of cross-contamination.

#### **EDGELESS MOPS ORDERING GUIDE**

VWR Cat. No.	Description
68300-353	Edgeless Mop
68310-119	Edgeless Mop, sterile
80080-578	Textured Edgeless Mop, white tail band
80080-582	Textured Edgeless Mop, white tail band, sterile
89497-298	Long Textured Edgeless Mop, white tail band
10022-246	Long Textured Edgeless Mop, green tail band
10022-244	Long Textured Edgeless Mop, black tail band
10022-250	Long Textured Edgeless Mop, red tail band
10022-248	Long Textured Edgeless Mop, blue tail band
HANDLES	
33502-718	Dynamate QuickConnect mop head frame, 6" x 7" (15 x 18cm), lightweight
89073-978	QuickConnect handle, 60" (152cm), stainless steel, lightweight, 1 piece
33502-715	QuickConnect handle, 50" (127cm) extends to 92" (234cm), anodized aluminum
33502-717	QuickConnect handle, 50" (127cm) extends to 92" (234cm), stainless steel
68310-012	Handle with mop head frame, 60" (152cm), stainless steel, 1 piece,
68310-014	Handle with mop head frame, 60" (152cm), stainless steel, 2 piece
68310-048	Handle with mop head frame, 64" (162cm), fiberglass, non-autoclavable, 1 piece (not pictured)

#### QuickConnect™ Mop Hardware for **Edgeless Mops**

Contec offers a variety of stainless steel, anodized aluminum, and fiberglass handles for the Edgeless Mop system. See page 11 for more information.

#### QuickConnect™ Dynamate® Edgeless® Mop Head Frame:

Interchangeable mop head frame is constructed out of Delrin® and aluminum and features a quickconnect button that allows for easy attachment to compatible handles. Fully autoclavable. Use with Contec QuickConnect interchangeable handles.

#### **QuickConnect Mop Handles:**

Stainless steel and aluminum handles attach to the Dynamate Edgeless Mop Head Frame with the push of a button. We recommend the QuickConnect 60"( 152cm) stainless steel one piece handle for most applications. Lightweight anodized aluminum or electro-polished stainless steel 50" (127cm) handles that extend to 92" (234cm) are also available. Fully autoclavable.

33502-718

89073-978

Integrated handles: 1 piece stainless steel handle; 2 piece stainless steel handle breaks down for easy autoclaving. A fiberglass handle is available for non-sterile





#### VertiKlean® MAX™

#### Disposable polyester and foam mop with microfiber face

The VertiKlean® MAX™ Mopping System is designed for cleaning and applying disinfectants to floors, walls, ceilings, and other hard to reach surfaces. The disposable absorbent mop head features hydrophilic polyurethane foam laminated to ribbed microfiber fabric backed by a semi-rigid thermoformed plate that easily snaps onto a VertiKlean mop head frame. While it's performance is similar to that of our industry-standard VertiKlean mops, VertiKlean MAX offers increased solvent capacity and has a slimmer profile for cleaning in tighter spaces.

Compatible with Contec's QuickConnect mop handles, the pivoting mop head frame makes it easy to clean around door and window frames as well as light fixtures and heavy equipment. Extension handles allow for cleaning up to 17' (5.2m).

#### **FEATURES & BENEFITS**

- Lightweight mop reduces stress on maintenance staff.
- Ribbed microfiber face for better contamination removal.
- Retains liquid better than competitive
- Enables uniform application of disinfectants.
- · Lasts longer than traditional sponge mops.
- Available in three sizes for a wide range of cleaning applications.
- Available Gamma irradiated. Validated sterile to a Sterility Assurance Level of 10<sup>-6</sup> one of the strictest guidelines established by the AAMI. NOTE: Autoclaving of VertiKlean MAX is not recommended due to the thermoformed plastic backplate.
- To increase the durability of the VertiKlean MAX Mop, VeritiKlean Sox mop head covers are available for all sizes.

#### **APPLICATIONS**

- Designed for applying disinfectants and cleaning both horizontal and vertical surfaces.
- Ideal for general cleaning of ceilings, walls, and floors as well as around door and window frames, light fixtures, and heavy equipment.
- Small size is appropriate for confined spaces such as fume hoods, isolators, bio-safety cabinets, and mini environments.
- Available with a sealed edge.

#### **REGULAR**

#### DIMENSIONS

8 x 4 x 1in. (21 x 11 x 2cm)

**MOP HEAD** 

10119-374 or 10119-376

MOP HEAD FRAME 33502-719

HANDLE any QuickConnect handle

#### MEDIUM

#### DIMENSIONS

13 x 4 x 1in (32 x 11 x 2cm)

**MOP HEAD** 

89495-244 or 10119-378

**MOP HEAD FRAME** 

33502-720

**HANDLE** any QuickConnect handle

#### **SEALED EDGE**

#### **DIMENSIONS**

15 x 5 x 0.375in (38 x 13 x 1cm)

#### MOP HEAD

10171-158 or 10803-094

MOP HEAD FRAME

33502-720

HANDLE

any QuickConnect handle

#### **LARGE**

### DIMENSIONS

15 x 4 x 1in (38 x 11 x 2cm)

**MOP HEAD** 10119-380 or 10119-382

MOP HEAD FRAME

33502-720

**HANDLE** 









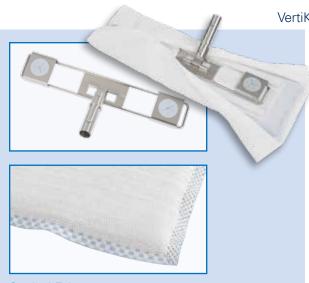
#### VertiKlean® MAX™ Mop Covers

For added flexibility, various dry and presaturated disposable cleanroom wipes are available to fit the unique design of the VertiKlean Mop Wipe Frame (2652K). See our web site for compatible cleanroom wipe options.



#### Microfiber Face

VertiKlean MAX Regular, Medium, and Large mops are now available with new, improved ribbed microfiber, which smoothly glides over floors and textured surfaces providing better contamination removal.



#### Sealed Edge

The VertiKlean MAX Medium mop is now available with sealed edges. Polyester microfiber is bonded to the cleanroom foam, then heatsealed around the perimeter. Extended edges allow better corner contact.

#### **ORDERING GUIDE**

	VWR Cat. No.	Description
	10119-374	VertiKlean MAX mop head, 8" x 4" x 1" (21 x 11 x 2cm), ribbed microfiber face
<b>=</b>	10119-376	VertiKlean MAX mop head, 8" x 4" x 1" (21 x 11 x 2cm), ribbed microfiber face, sterile
Regular	33502-719	QuickConnect mop head frame, 7.5" (19cm)
æ	10816-272	QuickConnect mop head frame, 7.5" (19cm), stainless steel
	68310-336	VertiKlean Sox mop head cover, polyester
	10171-158	Medium VertiKlean MAX mop head, 15" x 5" x .375" (38 x 13 x 1cm), sealed edge
	10803-094	Medium VertiKlean MAX mop head, 15" x 5" x .375" (38 x 13 x 1cm), sealed edge, sterile
	89495-244	Medium VertiKlean MAX mop head, 13" x 4" x 1" (32 x 11 x 2cm), ribbed microfiber face
E	10119-378	Medium VertiKlean MAX mop head, 13" x 4" x 1" (32 x 11 x 2cm), ribbed microfiber face, sterile
Medium	33502-720	QuickConnect mop head frame, 11.5" (29cm)
Σ	10017-722	QuickConnect mop head frame, 11.5" (29cm), stainless steel
	10816-268	VertiKlean mop wipe frame
	22221-806	VertiKlean Sox mop head cover, polyester
	10119-380	Large VertiKlean MAX mop head, 15" x 4" x 1" (38 x 11 x 2cm), ribbed microfiber face
	10119-382	Large VertiKlean MAX mop head, 15" x 4" x 1" (38 x 11 x 2cm), ribbed microfiber face, sterile
	33502-720	QuickConnect mop head frame, 11.5" (29cm)
Large	10017-722	QuickConnect mop head frame, 11.5" (29cm), stainless steel
2	10816-268	VertiKlean mop wipe frame, 11.5" (29cm), stainless steel
	33500-040	VertiKlean Sox mop head cover, polyester
	89201-652	QuickConnect handle, 60" (152cm), stainless steel, lightweight, 1 piece, use with mop head frame 89201-650
S	33502-715	QuickConnect handle, 50" (127cm), extends to 92" (234cm), anodized aluminum
Handles	33502-717	QuickConnect handle, 50" (127cm), extends to 92" (234cm), stainless steel
I	89074-018	QuickConnect handle, extends to 16' (4.9m), anodized aluminum, 4 piece
	89198-836	QuickConnect handle, 69" (175cm), extends to 10.8' (3.3m), fiberglass

#### QuickConnect™ Hardware

VertiKlean MAX has been designed to work with our QuickConnect mop handles. See page 11 for all available stainless steel and anodized aluminum handle options.

Our QuickConnect mop head frames and handles offer maximum flexibility for cleaning in critical environments. Invest in one handle and the various interchangeable heads required for your specific applications. Telescoping and fixed-length handles are available in lightweight anodized aluminum, fiberglass, or durable electropolished stainless steel. Mop head frames feature a capped end for maximum cleanliness; a quick-connect button allows for easy attachment to all sizes and styles of Contec QuickConnect handles.





#### **EASYREACH™ CLEANING PADS**

- Extra thick guilted polyester pads are very absorbent and hold cleaning solutions well, enabling easy cleaning.
- Well-fitted EasyReach pad ensures effective, even surface coverage. This reduces the number of viable and non-viable contaminants and ensures maximum residue removal.
- Specially designed tab enables quick and easy fitting to the frame with gloved hands.
- Double bagged to ensure no bioburden is added to the critical environment. Available validated sterile.
- Available presaturated with 70% IPA or ETOH and 30% DI Water.

## EasyReach™ CleaningTool

For isolators, cabinets and laminar air flow hoods

Made from lightweight stainless steel and 16.5" (42cm) long, the EasyReach cleaning tool is easily passed through transfer hatches, requires no assembly and is maintenance-free. EasyReach is fully autoclavable and simple to use with one hand. The low profile, 360 degree pivoting head ensures even the most awkward areas can be quickly reached with minimum effort. Use with a variety of disposable absorbent EasyReach Cleaning Pads, created with easy installation and removal in mind. For added convenience, EasyReach Cleaning Pads are available presaturated.

A QuickConnect mop head is also available, and is compatible with longer extension handles.

#### **APPLICATIONS**

EasyReach is recommended for effective cleaning and disinfection of surfaces in:

- Isolators rigid, flexible film, half suits
- Restricted Access Barrier Systems (RABS)
- Filling Lines
- Laminar Air Flow Hoods
- Bio-Safety Cabinets
- Glove Boxes
- Incubators

#### **EASYREACH ORDERING GUIDE**

VWR Cat. No.	Description	
89094-584	EasyReach Cleaning Tool, 16.5" (42cm), stainless steel, lightweight, 1 piece	
89107-994	QuickConnect EasyReach mop head frame, 7.5" (19cm), stainless steel	
89107-996	QuickConnect handle 16" (40.6cm), stainless steel, lightweight	
33502-714	QuickConnect handle, 16" (40.6cm) extends to 30" (76.2cm), anodized aluminum	
33502-716	QuickConnect handle, 16" (40.6cm) extends to 30" (76.2cm), stainless steel	
89094-578	EasyReach Cleaning Pads, quilted polyester	
89094-580	EasyReach Cleaning Pads, quilted polyester, sterile	
89094-582	EasyReach Cleaning Pads, quilted polyester, presaturated with 70% IPA, sterile	
10171-162	EasyReach Cleaning Pads, quilted polyester, presaturated with 70% ETOH	



Contec's EasySat Bucketless Floor Mop is an effective and quick solution to your cleaning challenges. Designed for the cleanroom floor, this innovative mop is easy to use. The built-in 52 ounce (1.5L) solution tank completely eliminates the need for a bucket and wringer. Disposable mop heads are made from our knitted polyester/clean ester foam VertiKlean material and attach to hardware in seconds using traditional hook and loop fasteners. EasySat is for floor use only.

- Angled mop head cleans hard-to-reach
   EASYSAT ORDERING GUIDE areas and is available in two styles: smooth surface for standard floor cleaning, and textured surface for more abrasive action.
- Mop head is available Validated Sterile. Gamma irradiated to 10<sup>-6</sup> SAL (one of the strictest guidelines established by the AAMI/ISO).

#### **FEATURES & BENEFITS**

- Solution tank holds up to 52 ounces (1.5L) and cleans up to 5,000 square feet (465 m<sup>2</sup>).
- Snua-fitting lid minimizes exposure to chemicals.
- Lightweight mop system weighs only 7 lbs. (3.2 kg) with full tank.
- Trigger flow control mechanism releases cleaning solution on demand or continuously.

VWR Cat. No.	Description
33501-534	EasySat Bucketless Floor Mop System
33501-536	EasySat mop head, 21.5" x 4.75" x 18" (55 x 12 x 46cm)
33501-540	EasySat mop head, 21.5" x 4.75" x 18" (55 x 12 x 46cm), textured
33501-538	EasySat mop head, 21.5" x 4.75" x 18" (55 x 12 x 46cm), sterile
33501-542	EasySat mop head, 21.5" x 4.75" x 18" (55 x 12 x 46cm), textured, sterile

#### Contec® QuickTask™ Mops

## QuickTask<sup>™</sup> Mops

The QuickTask product line consists of a variety of knitted polyester and microfiber mop covers that easily slip onto a hinged mop head frame and handle assembly. QuickTask mop head frames are available in stainless steel or durable autoclavable plastic. Mop head covers and frames are compatible with a wide range of disinfectants, chemicals, and solutions.

Sizes offered are nominal surface contact sizes and will vary based on the head frame used with each mop.

#### **89201-654, 89198-856** (Sterile)

The lightest mop cover in the range, the sorbent cleanroom laundered multi-layer knitted polyester is ideal for use on smooth surfaces. Disposable.

- Sorbent knit structure applies solutions evenly, and removes contaminants uniformly.
- 89198-856 is sterilized by gamma irradiation

#### 89201-656

The most sorbent mop cover in the range, the small, blue loop microfiber construction of 89201-656 provides exceptional performance in removing liquids, soil, residues, and other contaminants from most surfaces. Can be laundered and autoclaved.

- Microfiber construction for exceptional sorbency and mop-to-dry performance on wet surfaces.
- Compatible with chlorine solutions.
- Effectively cleans polymeric flooring.

#### 89198-858

The cleanest and most durable mop cover in the range, 89198-858 has tubular knit loops that conform to almost any shape, making cleaning of cove bases and ceiling and wall joints easier than with standard flat mops. Cleanroom laundered. Can be repeatedly laundered and autoclaved providing exceptional value.

- Microfiber construction for exceptional sorbency and mop-to-dry performance on wet surfaces.
- Compatible with a wide range of chemicals and disinfectants, including chlorine solutions.

#### 89260-122, 89260-124 (Sterile)

The lightest mop head in the range features a polyester/cellulose cover over a polyester fiberfill core. Ideal for cost effective single use.

• Nonwoven, highly sorbent fabric construction is ideal for removal of light soils, residue, and biofilms.

89260-122, 89260-124

89201-654

#### 89260-120

The unique microfiber face and foam core construction ensures excellent floor contact, sorbency, and superior surface cleaning.

- Ribbed microfiber face allows for exceptional cleaning, solution application, and mop-to-dry performance.
- Durable and economical.
- Cleanroom processed; suitable for critical environments.

89260-120

#### **QUICKTASK ORDERING GUIDE**

VWR Cat. No.	Description
89201-654	QuickTask polyester knit flat mop cover with pockets, approximate size 16" x 5" (41 x 12.5cm) on the frame
89198-856	QuickTask polyester knit flat mop cover with pockets, approximate size 16" x 5" (41 x 12.5cm) on the frame, sterile
89201-656	QuickTask flat mop cover with pockets, blue, approximate size 16.5" x 4.5" (42 x 11.5cm) on the frame
89198-858	QuickTask polyester microfiber knit loop flat mop cover with pockets, 16" x 4.5" (41 x 11.5cm) on the frame
89260-122	QuickTask polyester/cellulose flat mop head, approximate size 16" x 4.5" (41 x 11.5cm) on the frame
89260-124	QuickTask polyester/cellulose flat mop head, approximate size 16" x 4.5" (41 x 11.5cm) on the frame, sterile
89260-120	QuickTask polyester microfiber/foam mop head, approximate size 16" x 4.5" (41 x 11.5cm) on the frame
QuickConnect"	Mop Head Frames and Handles
89198-838	QuickTask flat hinged mop head frame, stainless steel; use with all QuickConnect handles
89201-650	QuickTask flat hinged mop head frame, 16" (40cm), blue polypropylene, use with 89201-652 only
89201-652	QuickConnect handle, 60" (152cm), stainless steel, lightweight, 1 piece



89198-838 with 89198-858

#### QuickTask™ Hardware

Stainless steel and polypropylene mop head frames and handles for QuickTask mops

Durable and lightweight folding mop head frames are available in blue polypropylene or lightweight stainless steel. Autoclavable; compatible with most common disinfectant solutions and solvents.

Stainless steel mop head 89198-838 has been designed for use exclusively with Contec QuickConnect handles.

Blue polypropylene mop head frame 89201-650 attaches easily to stainless steel handle 89201-652.



Contec offers compatible buckets and carts in autoclavable polypropylene and stainless steel; see page 15 for details.



**EZSE** 

The EasyCurve Mop is now available with an improved polyester microfiber material which allows for superior particle removal. Contact your Contec sales representative to arrange a demonstration.

#### The Slinger™

The EasyCurve mop uses a separate polyester mesh "sling" style wringer that installs over a polypropylene bucket to completely and easily remove liquid from the mop head. Since the wringer is not on the handle like traditional sponge roller mops, the weight at the end of the handle is reduced by up to 50% during actual use. Both the Slinger™ and bucket are autoclavable.



Slinger 89198-852

## EasyCurve<sup>™</sup> Mop

#### The convenience of a self-wringing mop without the ergonomic pain

Contec's EasyCurve mop is designed to provide a single convenient system which can be used on floors, walls, and ceilings. The mop, bucket, and cart system are a compact design that maneuvers easily into most any cleanroom and can be stored in minimal space. Contec's EasyCurve mophead's ribbed microfiber face provides users with smooth and easy mopping for better particle pick-up and contamination removal. The mop head is attached to a curved, stainless steel frame using a patented latch tab system that is simple and easy to use. The curved head design offers a true "lift and pull" surface cleaning action, ensuring uniform distribution of disinfectants and cleaners. The full pivoting head allows for effortless surface contact and outstanding maneuverability making EasyCurve an ideal cleaning tool for ceilings, walls, and floors.

Historically, self-wringing mops have been a preferred multi-surface tool, however this convenience usually comes at a major ergonomic cost to operators who are repeatedly lifting the heavy wringing

system with each stroke of the mop. The EasyCurve mop is designed to offer all the convenience of self-wringing systems without the ergonomic stress and strain on operators arms, shoulders, and back.

EasyCurve mop heads are available in nonsterile and validated sterile versions. All hardware and mop heads are autoclavable.

The EasyCurve mop head frame attaches to a 60" (152.4cm) fixed-length stainless steel handle. For added convenience and flexibility, EasyCurve can be used with our QuickConnect autoclavable aluminum and stainless steel telescoping handles.

#### **FEATURES & BENEFITS**

- Ribbed microfiber face for better contamination removal
- Designed to minimize operator strain
- Compact system designed for all size cleanrooms
- EasyCurve mop heads are available validated sterile

#### **APPLICATIONS**

- Designed for use in pharmaceutical and medical device manufacturing facilities, or other similar critical or controlled environments.
- An outstanding all-surface mop for use on floors, walls, and ceilings.
- An ideal upgrade alternative for applications where sponge roller mops are currently used.

#### **EASYCURVE ORDERING GUIDE**

VWR Cat. No.	Description
10816-276	EasyCurve disposable mop head, 15"x 5"x 0.375" (38 x 13 x 0.95cm), sealed edge
10816-298	EasyCurve disposable mop head, 15"x 5"x 0.375" (38 x 13 x 0.95cm), sealed edge, sterile
10153-828	EasyCurve disposable mop head, 14 x 4.25"x 0.75" (35.5 x 10.8 x 1.9cm), ribbed microfiber
10153-826	EasyCurve disposable mop head, 14"x 4.25"x 0.75" (35.5 x 10.8 x 1.9cm), ribbed microfiber, sterile
QuickConne	ect™ Mop Head Frames, Handles and Bucket
89073-976	EasyCurve pivoting mop head frame, stainless steel
89073-978	QuickConnect handle, 60" (152.4cm), stainless steel, lightweight, 1 piece
33502-715	QuickConnect handle, 50" (127cm) extends to 92" (233.7cm), anodized aluminum
33502-717	QuickConnect handle, 50" (127cm) extends to 92" (233.7cm), stainless steel
89201-146	Twin divided bucket w/slinger and stainless steel frame, 5 gal (20L)

Covered by U.S. Design Patent No. D586,966

## QuickConnect<sup>™</sup> Mop Hardware

#### Interchangeable Handles and Frames for Contec Mopping Systems

QuickConnect mop head frames and handles offer maximum flexibility for cleaning in critical environments. Invest in one handle and the various interchangeable heads required for your specific applications. Telescoping and fixed-length handles are available in lightweight anodized aluminum, fiberglass, or durable electro-polished stainless steel. Mop head frames have a quick-connect button that allows for easy attachment to all sizes and styles of Contec QuickConnect handles. All components are fully autoclavable.

#### **QUICKCONNECT MOP HEAD FRAMES:** 10816-272 10017-722 10816-274 10816-268 VertiKlean® and VertiKlean® MAX™ VertiKlean and VertiKlean MAX frames are constructed of durable stainless steel with aluminum connectors. Frames are now available in all stainless steel. Available for regular, medium, and large mop heads. 89073-976 33502-718 89107-994 **EasyCurve**™ Edgeless® EasyCurve mop head frame is The Edgeless mop head frame is EasyReach<sup>™</sup> made of curved stainless steel made of heavy-duty autoclavable EasyReach mop head frame is with a pivoting stainless steel Delrin® and measures 6" x 7" (15 x made of lightweight stainless connector 14" (35.3cm). 18cm). Compatible with all styles of steel 7.5" (19cm). Edgeless Mops.

#### QUICKCONNECT ORDERING GUIDE VWR Cat. No. **Description** QuickConnect™ Mop Head Frames & Handles 33502-719 QuickConnect mop head frame, 7.5" (19cm) for VertiKlean; VertiKlean MAX 10816-272 QuickConnect mop head frame, 7.5" (19cm), stainless steel, for VertiKlean; VertiKlean MAX 33502-720 QuickConnect mop head frame, 11.5" (29cm), for Med. VertiKlean; Med. and Lg. VertiKlean MAX 10017-722 QuickConnect mop head frame, 11.5" (29cm), stainless steel, for Med. VertiKlean; Med. and Lg. VertiKlean MAX 33502-721 QuickConnect mop head frame, 14" (36cm), for Large VertiKlean only 10816-274 QuickConnect mop head frame, 14" (36cm), stainless steel, for Large VertiKlean only 33502-718 Dynamate QuickConnect lightweight mop head frame, 6" x 7" (15 x 18cm), for Edgeless mops 89073-976 QuickConnect EasyCurve pivoting mop head frame, stainless steel, 14" (36cm) 89107-994 QuickConnect EasyReach mop head frame, stainless steel, 7.5" (19cm) 10816-268 VertiKlean Mop Wipe Frame, 11.5" (29cm) 33502-714 QuickConnect handle, 16" (41cm) extends to 30" (76cm), anodized aluminum 33502-715 QuickConnect handle, 50" (127cm) extends to 92" (234cm), anodized aluminum 89074-018 QuickConnect handle, extends to 16' (4.9m), anodized aluminum, 4 piece 33502-716 QuickConnect handle, 16" (41cm) extends to 30" (76cm), stainless steel 33502-717 QuickConnect handle, 50" (127cm) extends to 92" (234cm), stainless steel 89107-996 QuickConnect handle, 16" (41cm), stainless steel, lightweight, 1 piece 89073-978 QuickConnect handle, 60" (152cm), stainless steel, lightweight, 1 piece 89201-652 QuickConnect handle, 60" (152cm), stainless steel, lightweight, 1 piece, use with mop head frame 89201-650 89198-836 QuickConnect handle, 67.5" (171cm) extends to 130" (330cm), fiberglass

#### QuickConnect™ Handles:

Telescoping and fixed-length handles are available in lightweight anodized aluminum, durable electropolished stainless steel and fiberglass. Autoclavable.

#### **Aluminum Handles**

16" (41cm) handle extends to 30" (76cm) 50" (127cm) handle extends to 92" (234cm) 16' (4.9m)

#### Stainless Steel Handles

#### Telescoping:

16" (41cm) handle extends to 30" (76cm) 50" (127cm) handle extends to 92" (234cm)

#### Fixed Lenath:

16" (41cm) handle 60" (152cm) handle

#### Fiberglass Handles

69" (175cm) handle extends to 10.8' (3.3m)



#### Contec® Bucket Systems

#### Mop Key

Contec® offers buckets, wringers and carts that complete our mopping and wall washing systems. The symbols below represent our mop heads and appear beside the most compatible bucket systems.

EL. Edgeless®

VK Regular VertiKlean®

**MVK** Medium VertiKlean®

LVK Large VertiKlean®

VertiKlean® **VKSE** Sealed Edge

VertiKlean® MAX™ VMX1 Regular

VertiKlean® MAX™ VMX2 Medium

VertiKlean® MAX™ VMX3 Large

EasyCurve™

EasyCurve™ Sealed Edge

QuickTask™

## Twin Divided Bucket with Slinger

Polypropylene bucket, 5 gallons (20L), green

Autoclavable 5 gallon (20L) divided bucket (10L per side) with our specially designed polyester Slinger™ and stainless steel frame. Balestyle handles allow for easy lifting and transport. Includes a wellfitting lid to elimate liquid spillage during transport. Use one side for cleaning and disinfecting solutions, and the other for dirty waste solution. Four non-autoclavable casters are included.

#### **APPLICATIONS**

- Compatible with VertiKlean MAX and EasyCurve mopping systems.
- Ideal for smaller controlled environments and labs with limited storage space.



VMX1

VMX2

## Polypropylene Bucket System

Autoclavable polypropylene cart with two buckets

Fully autoclavable rolling cart with two 6.5 gallon (25L) buckets and wringer. Durable, yet lightweight construction makes Contec's 33501-018 bucket system easy to maneuver around cleanrooms. Double bucket system allows for differentiation between cleaning and waste solutions.

#### **APPLICATIONS**

- Compact design makes 33501-018 ideal for smaller cleanrooms.
- Compatible with all styles of Edgeless Mops when using appropriate Contec mop head frames.

#### **20L & 25L BUCKETS ORDERING GUIDE**

VWR Cat. No.	Description
89201-146	Twin divided bucket with Slinger and frame, 5 gal (20L), green; 4 non-autoclavable casters
33501-018	Polypropylene double bucket system, 2x 6.5 gal (25L) buckets (red, blue), wringer, cart with casters



Visit www.contecinc.com to view our instructional videos and to learn more about Contec mops for cleaning and disinfecting.

## 20L and 25L Polypropylene Bucket Systems

#### Autoclavable systems with two buckets and cart

These Contec bucket systems feature fully autoclavable stainless steel caster bases with either standard or heavy-duty casters, two 5 gallon (20L) or 6.5 gallon (25L) polypropylene buckets (gray, red) and a stainless steel drip cap. The durable, lightweight caster base is easy to maneuver around the cleanroom, and the two bucket system allows for differentiation between cleaning and waste solutions.

The autoclavable polypropylene buckets are compatible with two stainless steel sieves (sold separately). Part number 89237-630 is a curved sieve that is used with our EasyCurve mop. For Contec VertiKlean MAX and QuickTask flat mops, select flat sieve 89237-632. Both sieves require a stainless steel frame. Choose frame 89237-634 for 5 gal. (20L) buckets or frame 89237-636 for 6.5 gal. (25L) buckets.



VWR. Cat No.	Description 20L & 25L BUCKET KITS ORDERING GUIDE			
20L Bucket Sys	20L Bucket Systems			
89237-620	Polypropylene double bucket system, 2x 5 gal (20L) buckets (gray, red), stainless steel cart with <b>standard</b> casters.			
89237-616	Polypropylene double bucket system, 2x 5 gal (20L) buckets (gray, red), stainless steel cart with heavy-duty casters.			
89212-446	Polyester mesh Slinger and stainless steel frame, for 5 gal (20L) buckets			
89237-634	Stainless steel bucket wringer frame for 5 gal (20L) buckets, use with 89237-632 or 89237-630			
89237-632	Stainless steel bucket wringer, flat, for Contec flat mops, requires 89237-634 frame			
89237-630	Stainless steel bucket wringer, curved, for EasyCurve mops, requires 89237-634 frame			
25L Bucket Sys	25L Bucket Systems			
89237-628	Polypropylene double bucket system, 2x 6.5 gal (25L) buckets (gray, red), stainless steel cart with standard casters.			
89237-624	Polypropylene double bucket system, 2x 6.5 gal (25L) buckets (gray, red), stainless steel cart with heavy-duty casters.			
89198-852	Polyester mesh Slinger and stainless steel frame, for 6.5 gal (25L) buckets only (For Easy Curve)			
89237-636	Stainless steel bucket wringer frame, for 6.5 gal (25L) buckets, use with 89237-632 or 89237-630			
89237-632	Stainless steel bucket wringer, flat, for Contec flat mops, requires 89237-636 frame			
89237-630	Stainless steel bucket wringer, curved, for EasyCurve mops, requires 89237-636 frame			
89198-854	Polypropylene bucket wringer, blue, for 6.5 gal (25L) buckets only			

"Our versatile interchangeable bucket systems offer the ultimate in flexibility."

## Sterile **Bucket Liners**

#### For 20L, 25L, and 27L Contec Mop Buckets

Contec's Sterile Bucket Liners protect buckets and disinfectant solutions reducing the opportunity for cross contamination. Intended for single use, these bucket liners allow the user with no access to autoclaves the ability to keep solutions sterile.

with Made low density polyethylene (LDPE) film, the liners are manufactured and packaged in an ISO Class 4 cleanroom. Contec Sterile Bucket Liners are gamma irradiated with a specified dose of 25 - 50 kGy and are validated sterile.



Contec Sterile Bucket Liners fit 20L, 25L and 27L buckets.

## Stainless Steel & Polypropylene Autoclavable **Double Bucket Systems**

#### Stainless steel carts with removable handle and two buckets

These Contec bucket systems feature a stainless steel rolling cart with removable handle for easier autoclaving and more convenient storage. Compact system 89198-840 has 5 gal. (20L) gray and red buckets. System 89428-542 has 6.5 gal. (25L) blue and red buckets. All buckets are made of rugged autoclavable polypropylene.

Durable, lightweight carts have four casters, including two that lock easily with the touch of a foot. These systems can be used with two or three buckets, depending upon your cleaning protocols. An extendable frame pulls out from the front of the cart to accommodate an additional bucket. One stainless steel connecting kit to prevent drips between the buckets is included.

For maximum flexibility, wringers are ordered separately. Bucket Systems 89198-840 and 89428-542 are compatible with all sizes and styles of Contec Mops, depending upon the wringer selection. Several options are available; see below and right for details.

#### **ORDERING GUIDE**

VWR Cat.	Description
20L Bucket Sys	stem
89198-840	Compact stainless steel cart with removable handle, casters with brakes, 2x 5 gallon (20L) polypropylene buckets (red, gray), and stainless steel drip cap; wringer must be purchased separately
89198-848	Polypropylene bucket, 5 gallon (20L), blue, optional 3rd bucket
10816-270	Stainless steel drip cap for 5 gallon (20L) multibucket system
20L Wringer O	ptions
33502-260	Heavy-duty stainless steel downpress wringer (for Edgeless, VertiKlean MAX and QuickTask Mops)
89198-850	Stainless steel flat mop wringer (for VertiKlean MAX and QuickTask Mops)
89212-446	Polyester mesh Slinger and stainless steel frame, for 5 gal. (20L) buckets only (for EasyCurve)
89237-634	Stainless steel bucket wringer frame, for 5 gal. (20L) buckets only, for use with 2767, 2768
89237-632	Stainless steel bucket wringer, flat, for Contec flat mops, requires frame 2765
89237-630	Stainless steel bucket wringer, curved, for EasyCurve mops, requires frame 2765
25L Bucket Sys	stem
89428-542	Stainless steel cart with removable handle, casters with brakes, 2x 6.5 gallon (25L) polypropylene buckets (red, blue), and stainless steel drip cap; wringer must be purchased separately
89198-842	Polypropylene bucket, 6.5 gallon (25L), gray (optional 3rd bucket)
89073-986	Stainless steel drip cap for 6.5 gallon (25L) multibucket system
25L Wringer 0	ptions:
33502-260	Stainless steel heavy-duty downpress wringer (for Edgeless, VertiKlean MAX and QuickTask Mops)
89198-850	Stainless steel flat mop wringer (for VertiKlean MAX and QuickTask Mops)
89198-854	Polypropylene bucket wringer, flat, blue, for 6.5 gallon (25L) buckets
89198-852	Polyester mesh Slinger and stainless steel frame, for 6.5 gallon (25L) buckets only (for EasyCurve)
89237-636	Stainless steel bucket wringer frame, for 6.5 gallon (25L) bucket, use with 2767 or 2768
89237-632	Stainless steel bucket wringer, flat, for Contec flat mops, requires frame 2766
89237-630	Stainless steel bucket wringer, curved, for EasyCurve mops, requires frame 2766
Accessories	
89237-612	Sterile bucket liners, 4 mil cleanroom polyethylene film, 18.25" x 14.75" x 33" (46 x 38 x 84cm)

## **Build Your System**

Step 1 Buy basic trolley system with two buckets.

**20L System** *89198-840* **25L System** *89428-542* Slinger™ and frame 2759 are ordered separately.

Step 3 Choose your wringer. See Ordering Guide on page 14 for details.



Slinger<sup>™</sup> Polyester Mesh Wringer





Flat Mop Wringer



Curved Stainless Steel Wringer \*Requires frame for 20L or 25L bucket

Step 2 Add optional third bucket.





Heavy-duty Downpress Wringer

VMX2 VMX3

VMX1



Polypropylene Wringer for 25L buckets only

VMX1 VMX2 VMX3

**VKSE** 



Flat Stainless Steel Wringer \*Requires frame for 20L or 25L bucket



VMX1 VMX2 VMX3



#### Contec® Bucket Systems



















**VKSE** 

## Stainless Steel Multi-Bucket System

Stainless steel cart with two buckets and downpress wringer

Lightweight and easy to maneuver, the 33501-014 cart is fully autoclavable and features non- marring wheels. For maximum flexibility, this cart can be used with two or three 7 gallon (27L) buckets. An extendable frame pulls out of the front of the cart to accommodate an additional bucket. The improved heavy-duty stainless steel downpress wringer is compatible with all sizes of VertiKlean, VertiKlean MAX, QuickTask, and Edgeless Mops.

- Cart dimensions: 26" x 24" x 36" (66cm x 60cm x 92cm) with handle, including casters
- Handle is removable for easier autoclaving and more convenient storage.
- Buckets are constructed of deep drawn seamless stainless steel

#### **APPLICATIONS**

- Ideal for Life Sciences, Microelectronics, Semiconductor or any critical manufacturing environment.
- Compatible with all Edgeless Mops, VertiKlean and VertiKlean MAX mops, and QuickTask Mops.

VWR Cat. No.	Description							
33501-014	Stainless steel system, cart with removable handle, 2x 7 gallon (27L) buckets, heavy-duty downpress wringer, blue non-marring autoclavable casters							
33503-124	7 gallon (27L) bucket, stainless steel, 21" x 13" x 8" (53 x 33 x 20cm), optional third bucket							
33502-260	Stainless steel heavy-duty downpress wringer, replacement part							



## **Bucket Accessories**

#### Optional bucket and mop accessories

Contec offers various optional accessories to make mopping easier. Our stainless steel holder, lid, and basket kit fits onto the handle of the trolley to carry any wipes and bottles which may be needed during the cleaning and disinfecting process. Mop handle hooks 10816-278 and 10816-280 securely hold QuickConnect handles to our bucket trolleys, reducing the chance for mishaps or spills.

VWR Cat. No.	Description
10816-278	Mop handle hooks, fits 0.9" (2cm) diameter handles
10816-280	Mop handle hooks, fits 1.0" (2.5cm) diameter handles



Visit www.contecinc.com to view our instructional mopping videos.

## **Correct Mopping Protocol**

For 2-bucket and 3-bucket systems

These diagrams are guides for proper mopping techniques when using a two or three bucket system. Always follow your site-specific cleaning protocols.

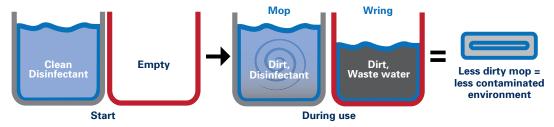


"A mulitple bucket system can improve the overall disinfection process."

#### **Double bucket**

Mop Use bucket with disinfectant and mop floor Wring Wring mop into empty second "waste" bucket

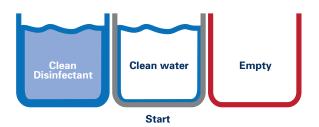
Mop Re-apply disinfectant from first bucket to surface, little contamination is returned to the surface



#### **Triple bucket**

Mop Use bucket with disinfectant and mop floor Wring Wring mop into empty third "waste" bucket Rinse Rinse mop in clean water in second bucket

Wring Wring remaining dirt from mop into "waste" bucket Mop Re-apply disinfectant from first bucket to surface, no contamination is returned to the surface







Most Critical

Critical

General Purpose

Y		ш	ωш	т	00	00	0	C	00	ш	<b>ν</b> <	<	<	Ш	B	
	Tax-Fre®	EasySat"	EasyCurve <sup>™</sup> Sealed Edge	EasyCurve"	QuickTask® 0600, 0650	QuickTask® 0500, 0550	QuickTask® 0400	QuickTask® 0300	QuickTask® 0200, 0250	EasyReach"	VertiKlean® MAX™ Sealed Edge	VertiKlean® MAX"	VertiKlean®	Edgeless®	Brand Name	Critical Env
	Dry Wipe	Sponge	Sponge	Sponge	Flat mop	Flat mop	Flat mop	Flat mop	Flat mop	Flat mop	Sponge	Sponge	Sponge	Tubular loop	Style	ironm
	Low-tack treated nonwoven polyester	Ester foam laminated to polyester fabric	Polyurethane foam laminated to polyester fabric	Polyurethane foam laminated to polyester fabric	Ribbed microfiber	Polyester/cellulose blend	Microfiber	Microfiber	100% knitted polyester	2-ply 100% knitted polyester	Polyurethane foam laminated to polyester fabric	Polyurethane foam laminated to polyester fabric	Ester foam laminated to polyester fabric	100% knitted polyester	Composition	<b>Environments Mop Guide</b>
	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Sterile	de
	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Autoclavable	
	Good	Good	Excellent	Good	Excellent	Fair	Good	Fair	Excellent	Excellent	Excellent	Good	Good	Excellent	Low Particle Generation	Operational Characteristics
	N/A	N/A	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Good	Good	Excellent	Excellent	Good	Good	Absorbency	haracteristics
	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good	Good	Good	Good	Excellent	Abrasion Resistance	
	N/A	Good (Textured)	Excellent (Microfiber)	Fair	Excellent	Excellent	Good	Good	Fair	Fair	Excellent (Microfiber)	Fair	Good (Textured)	Excellent	Residue Removal	
	N/A	Excellent	Excellent	Excellent	Excellent	Good	Good	Good	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Disinfectant Application	
	N/A	Good	Good	Good	Excellent	Good	Good	Good	Good	Good	Good	Good	Good	Excellent	Wet Cleaning	Area
	Excellent	N/A	Good (Microfiber)	Fair	Good	Fair	Good	Excellent	Fair	Fair	Good (Microfiber)	Fair	Fair	Poor	Dry Cleaning	Areas of Use
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	Yes	Yes	No	Yes	Floors	
	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Walls & Ceilings	
	No	No	No	No	N <sub>o</sub>	No	No	No	N <sub>o</sub>	Yes	Yes	Yes	No	No	RABS & Isolators	



Contec® cleaning and disinfecting products are available throughout the world. Sales representatives are conveniently located across Europe, Asia and North and South America.

Presaturated Wipes Mopping Systems Knitted Wipes Disinfectants

Spill Control Products Sponges **Sterile Products** 

Nonwoven Wipes
Swahs



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